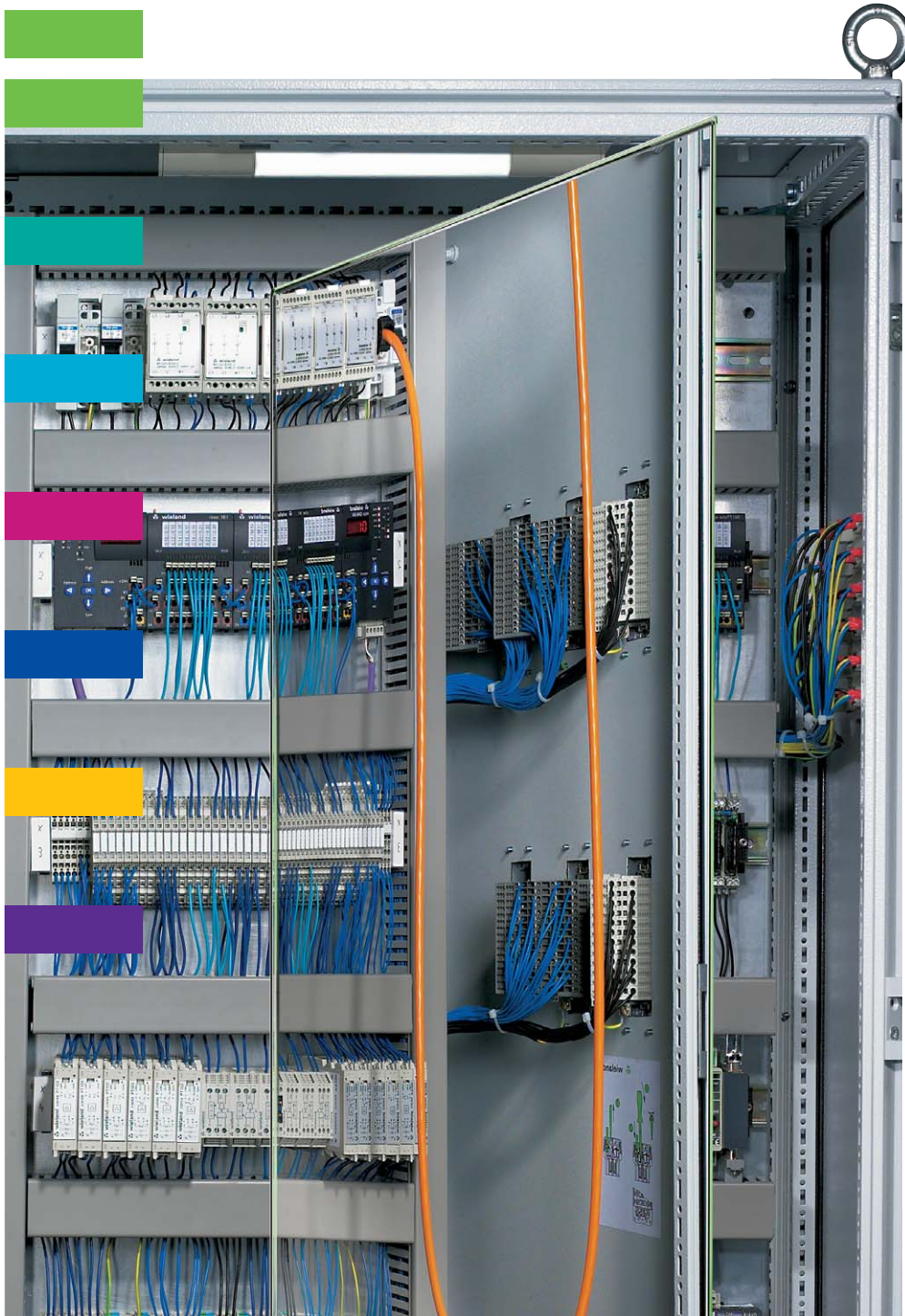




wieland

Electrical
Connections



*Best
Connections.*

wieland

For more than 90 years, Wieland Electric has offered customers the broad product range, worldwide approvals, superior designs, unsurpassed quality, and custom development capabilities necessary to guarantee the most cost-effective, space-saving and time-saving interconnect solutions. More than just terminal blocks, Wieland's total offering includes products from PC board connectors to advanced electronic modules; I/O systems to DIN rail power supplies; and rectangular connectors to hazardous location components. And more than just products, Wieland has the design support, application assistance and custom solutions necessary to meet your most challenging interconnect requirements.

The cornerstone of all Wieland products is the superior design and our philosophy of continuous improvement through innovation. Our high degree of vertical integration and attention to product detail enable our products not only to perform above established standards, but also to minimize the purchase cost as well as associated installation and maintenance costs.

Best by design, best product offering and best support.

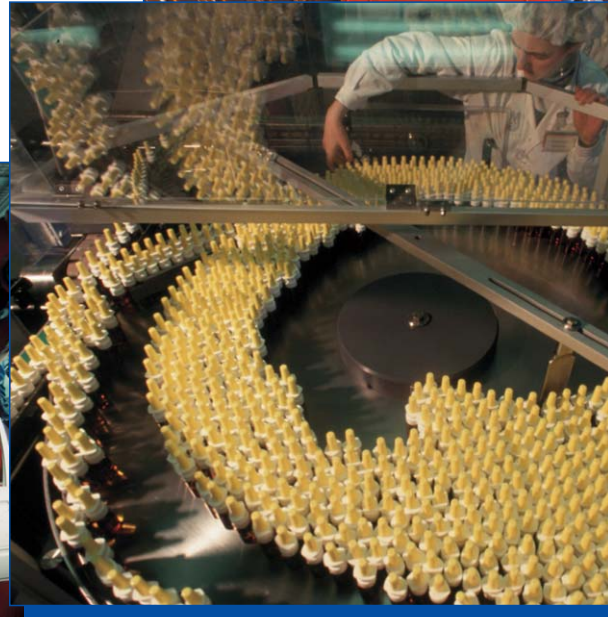
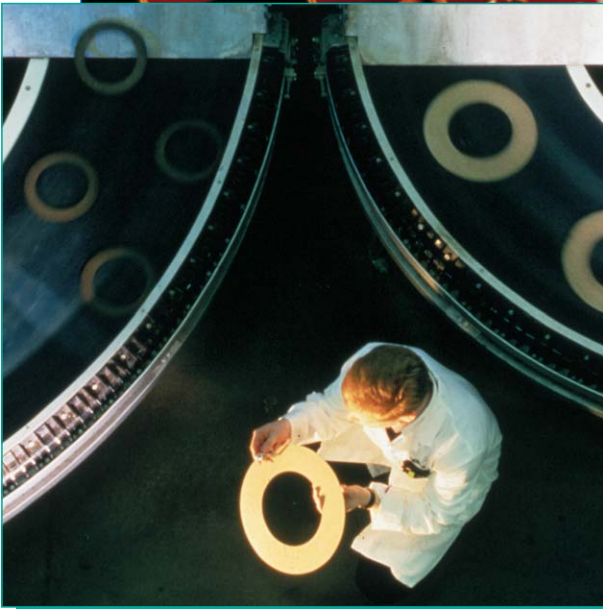
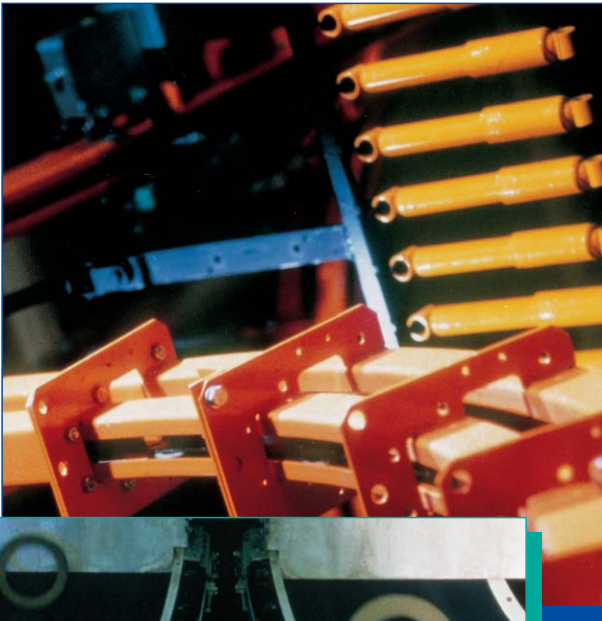
Wieland Best Connections.

Wieland Products and Industries Supported	Machine Manufacturers	Petrochemical	Heating, Ventilation & Air Conditioning	Process Controls & Instrumentation	Transportation	Water Treatment & Utilities	Telecommunications	Computers & Networking	Packaging & Material Handling	Automotive & Robotics
selos, fasis, taris DIN rail Mountable Terminal Blocks										
flare Electro-Mechanical & Solid State Relay Modules										
Signal Conditioning & Surge Suppression Modules										
ricos Remote Interface Communication System										
wipos DIN Rail Mounted Power Supplies										
Standard & Custom Interface Modules										
revos Industrial Multipole Connectors										
Wire Management Products										
gesis ST Compact Connector System										
wiecon Pluggable PC Board Terminal Strips										
wiecon Modular PC Board Terminal Strips										
europa & Compact Panel Mounted Terminal Strips										



wieland

*....serving
industrial, manufacturing,
and process control markets
worldwide !*



Wieland special products and custom capabilities provide unique solutions for your specific application needs. **For more information** on how **Wieland** products can connect you to your future designs, call **1-800-wieland** or visit us at

www.wielandinc.com

*Best
Connections.*

fasis DIN Rail Terminal Blocks – Spring Clamp Connection

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

selos DIN Rail Terminal Blocks – Screw Clamp Connection

taris DIN Rail Terminal Blocks – IDC Connection

appliance TERMINALS

wiecon PC Board Connectors

electronics

ge[®]sis Connector Systems

revos Industrial Multipole connectors

facts & DATA

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Multi-conductor terminal blocks
Application specific terminal blocks
Micro modular feed through blocks for TS15, type WKFM
Terminal blocks for electrical installations, type WKIF

DIN rail terminal blocks for electrical installations, type WKI
DIN rail terminal blocks with U foot, type WK/WKN
Feed through blocks for large cross section conductors
Multi-conductor terminal blocks
Application specific terminal blocks
DIN rail terminal blocks with extruded clamping body for TS35, type 9700A
TOP connector system
Busbar components
Stacking coordinates

DIN rail terminal blocks for TS35, type WKC
Multi-conductor terminal blocks with U foot
Application specific terminal blocks
Hybrid terminal blocks

Terminal strips
Lighting and appliance terminals
Plug/screw terminal strips
Terminal boxes
Divisible terminal strips
Mains connectors for appliance wiring

Pluggable PC board connectors, Insulated headers and pin strip headers, two piece design
DIN rail terminal blocks with pluggable connection for PC board connectors
Pluggable PC board connectors, edge card
PC board connectors
PC board connectors, 2-tier version
PC board connectors, 3-tier version
PC board connectors, 4-tier version
Special-purpose connectors, RAST 5 connection style
Feed through modules for control cabinets

Distributed I/O modules
Relay modules
Analog signal conditioning
Wieland power supply
Wieland Electronic modules
Wieland interface system
Empty housings for electronic components

The pluggable electrical system



Separate catalog – please order your copy at:

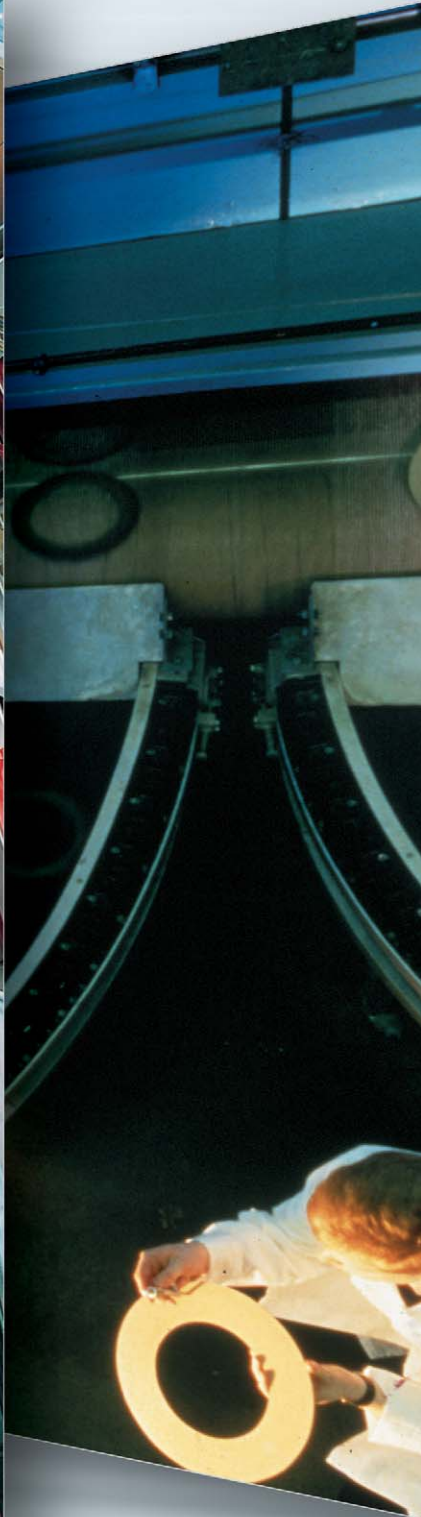
**www.gesis.com
info@wielandinc.com**

Standard – 400 V, 500 V, 400/690 V, cable to cable coupling, EMC etc.
Modular system
3 to 8 pole connectors
High-density connectors
24 pole connectors
Data cable feed through, D-Sub connections, bus system connections, fiber optic
Pg thread cable glands
High amperage connectors
Motor starter components

Pg threads are still available

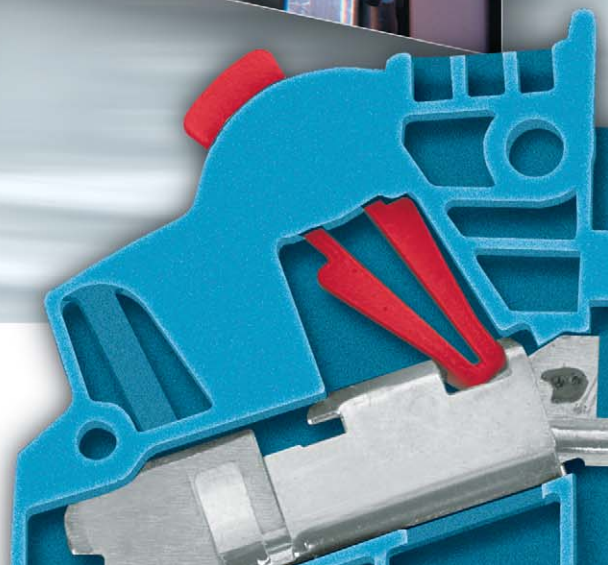
Preparation of conductor ends with
– ferrules
– tools
Technical explanations
Tables
Approvals

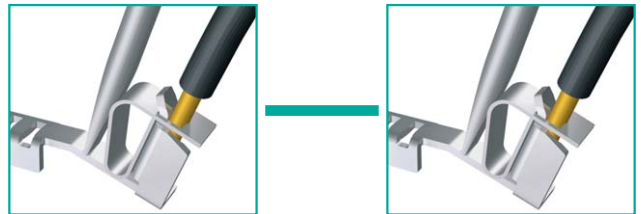
Table of contents, structured as per
– type description
– part number
General terms of sale and delivery





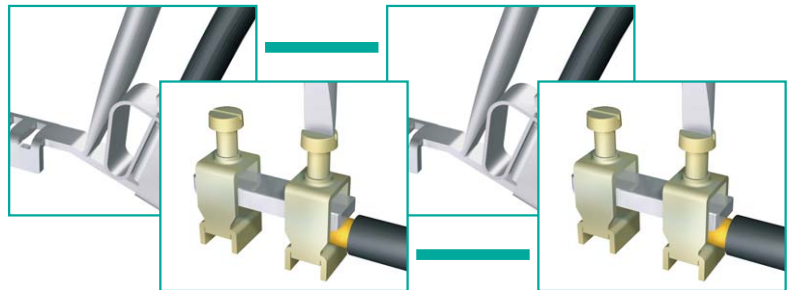
DIN Rail Terminal Blocks



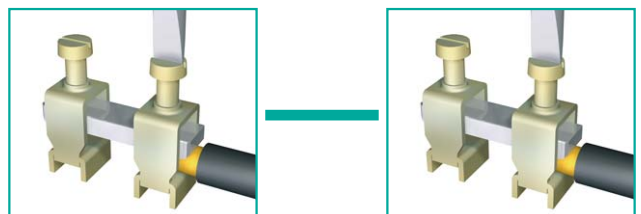


fasis DIN rail terminal blocks – spring clamp connection

BIT = Building
Installation
Technology



fasis BIT DIN rail terminal blocks – spring clamp connection
selos BIT DIN rail terminal blocks – screw clamp connection



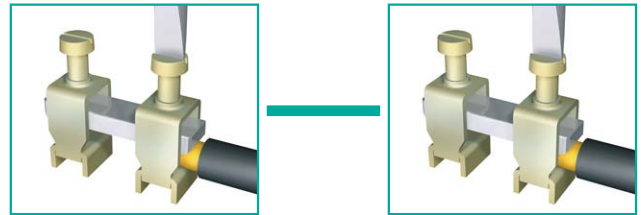
selos DIN rail terminal blocks – screw clamp connection

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	<p>DIN rail terminal blocks with spring and plug-in connection for PC board terminals</p> <ul style="list-style-type: none"> • Duo feed through blocks with plug-in connection for PC board terminals • Disconnect blocks with fuse holder / diode plug • Knife-edge disconnect block • Micro modular feed through blocks, type WKFM <p>Initiator and actuator blocks, type WKF 1.5 KO</p> <ul style="list-style-type: none"> • Initiator and actuator blocks 	<p>Page 34 Page 36 Page 38 Page 39 Page 40 Page 42 Page 44</p>
<p>Accessories / marking accessories</p>	<p>for DIN rail terminal blocks with spring clamp connection, type WKF</p>	<p>Page 46</p>
<p>fasis BIT Installation blocks, type WKI/WKIF</p> <p>selos BIT Installation blocks, type WK/WKI</p>	<p>Product overview and information</p> <p>Installation blocks with spring clamp connection</p> <ul style="list-style-type: none"> • Installation blocks, type WKIF • Feed through blocks • Neutral disconnect blocks • Ground blocks <p>Installation blocks with screw clamp connection</p> <ul style="list-style-type: none"> • Installation blocks, type WKI 4... • Feed through blocks • Neutral disconnect blocks • Ground blocks • PEN assembly block 	<p>Page 50 Page 56 Page 58 Page 62 Page 64 Page 66 Page 68 Page 72 Page 78 Page 80 Page 82 Page 84</p>
<p>Accessories / marking accessories</p>	<p>for DIN rail terminal blocks with screw clamp connection for junction boxes</p>	<p>Page 86</p>
<p>selos DIN rail terminal blocks with screw clamp connection, type WKN</p>	<p>Product overview and information</p> <ul style="list-style-type: none"> • Feed through blocks, type WK/WKN • Neutral disconnect block with U-foot • Ground blocks • Duo feed through blocks • Multi-tier feed through blocks • Initiator blocks • Disconnect blocks • Fuse blocks • Feed through blocks with fuse • Fuse block with NEOZED[®] cartridge for TS 35 • Balance resistor terminals with trimmer potentiometer • Diode blocks • Thermal voltage terminals • Ground disconnect blocks 	<p>Page 92 Page 102 Page 106 Page 108 Page 112 Page 116 Page 118 Page 122 Page 124 Page 126 Page 128 Page 130 Page 131 Page 132 Page 133</p>

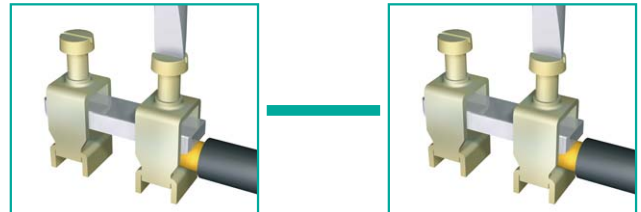
selos

DIN rail terminal blocks – screw clamp connection



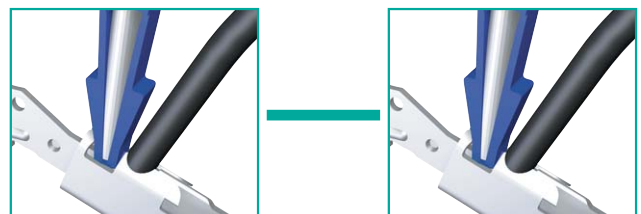
selos CLASSIC LINE

DIN rail terminal blocks – screw clamp connection



taris

DIN rail terminal blocks – IDC technology



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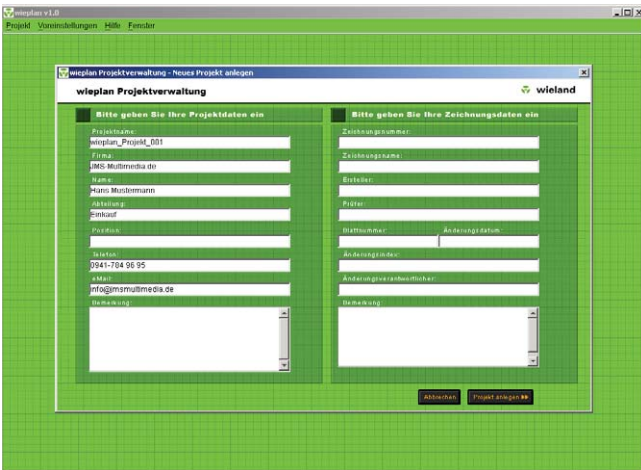
wieplan

- Electronic catalog for terminal block assemblies
- Via software: drawing/part lists/order data
- Shopping cart function via www.wieland-electric.com



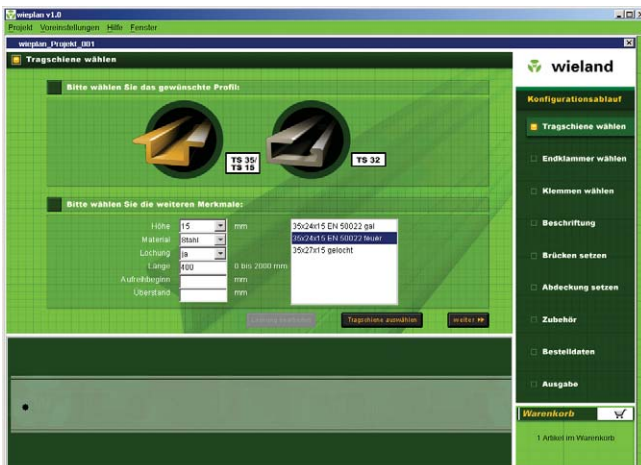
Part number
Software 95.502.1000.0

Manual 05.563.6389.0



Project management

wieplan enables you to clearly manage your projects and part projects.



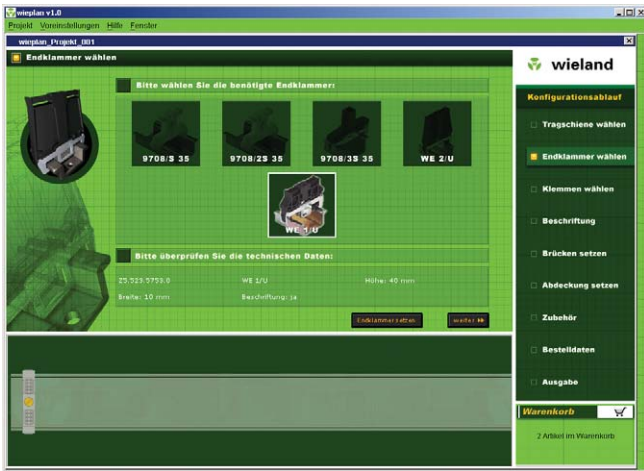
Select a mounting rail

You can select a mounting rail as per the following characteristics:

- Type / rail design
- Length
- Solid or slotted

You can also define the length of the rail section left empty in front of the block assembly and the spaces between the individual blocks.

wieplan



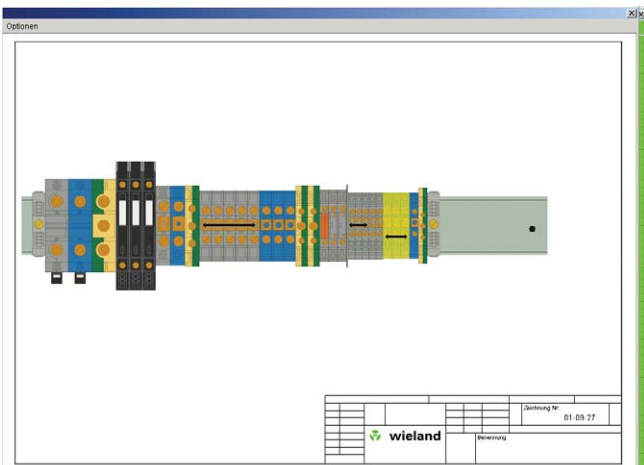
Select an end clamp

You can select the end clamp which matches your selected mounting rail.



Select the terminal blocks

Intuitive selection of terminal blocks based on certain characteristics such as function, current, voltage, cross section or as per block type or part number. After composition of the terminal block assembly, the blocks can be jumpered and/or marked, and further accessories can be added. You are offered the matching accessories for each selection. Plausibility checks are made with regard to end plates, partitions, covers and more.



Print-out and drawing

The completed terminal block assembly can be displayed on the screen in form of a drawing, or it can be exported as an electronic file. The block assembly can also be completely mounted or individual parts can be ordered online.

DIN rail terminal blocks with spring clamp connection, type *WKF*

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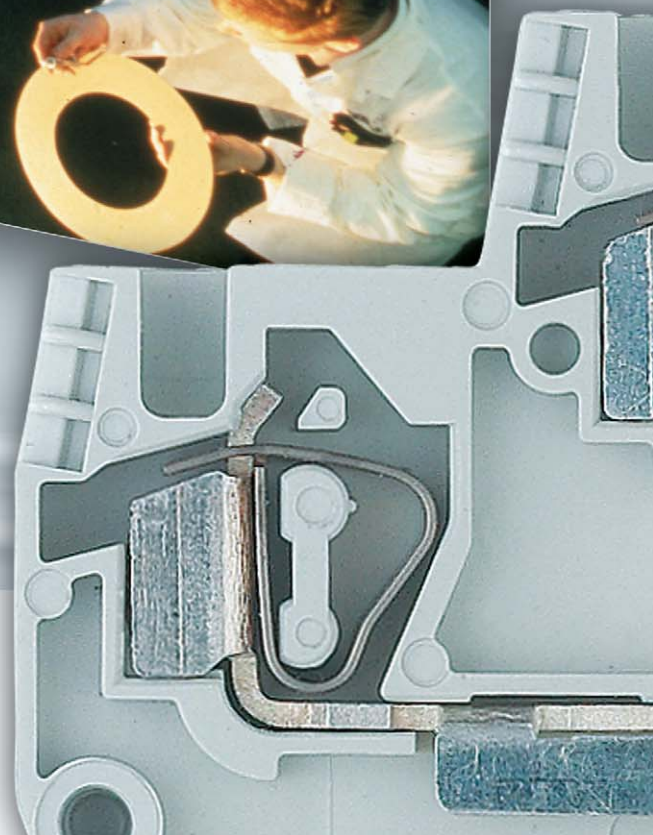
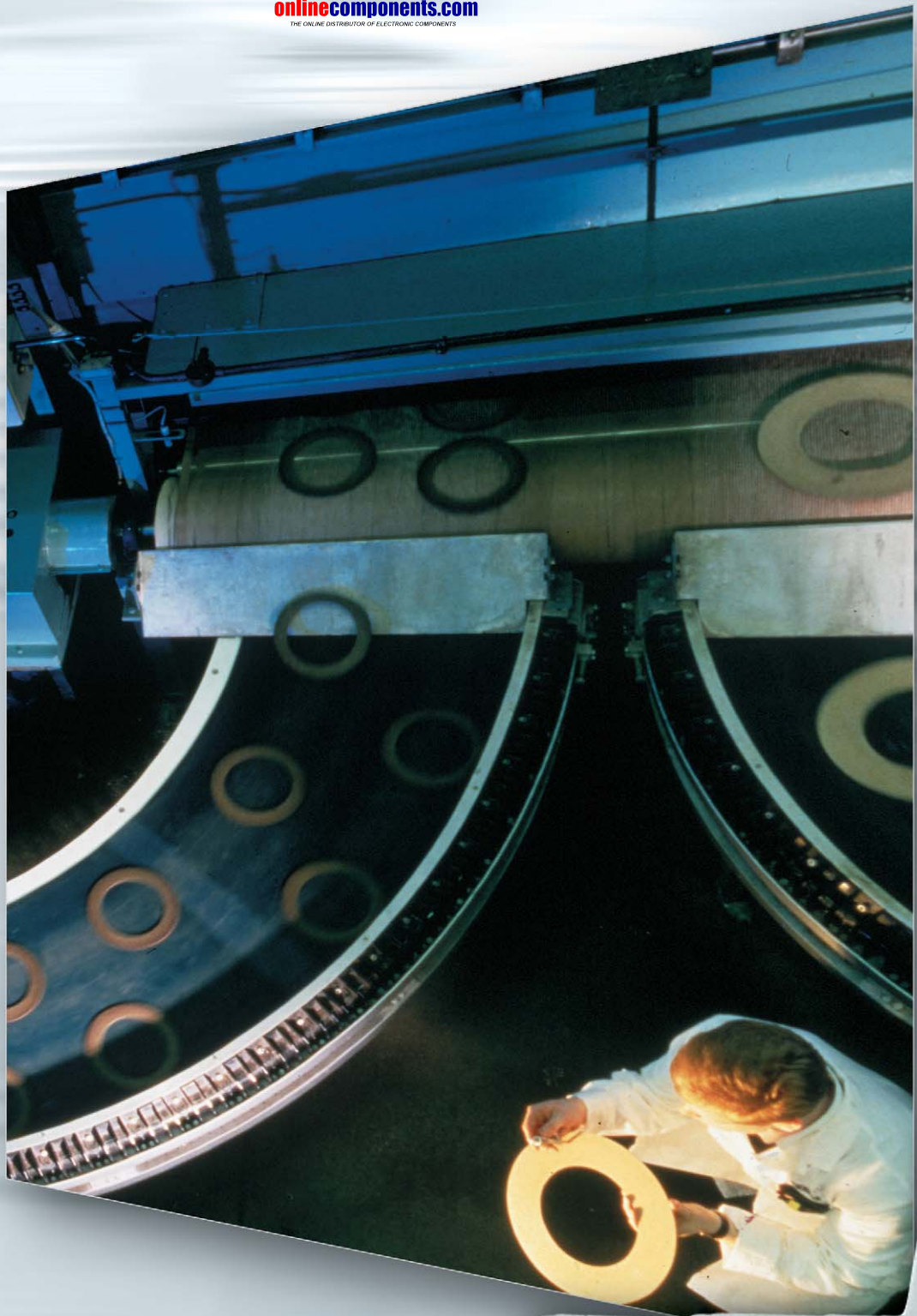
fasis

Spring clamp connection	0.13 to 16 mm²
Standard DIN rail terminal blocks	2.5 to 16 mm ²
Installation terminal blocks	2.5 to 16 mm ²
Duo terminal blocks	2.5/4 mm ² double/PCB
Multi-tier blocks	1.5 mm ²
Disconnect blocks	
Initiator/actuator terminal blocks	4 mm ²

fasis for TS 35

- with all required accessories
- with snap-on marking accessories
- with DQS certification
- Flammability class accord. to UL 94 V-0/V-2

All Wieland Components which require **CE** general certification are **CE** certified, and identified with the **CE** logo.



DIN Rail Terminal Blocks
with Spring Clamp Connection, Type *WKF*

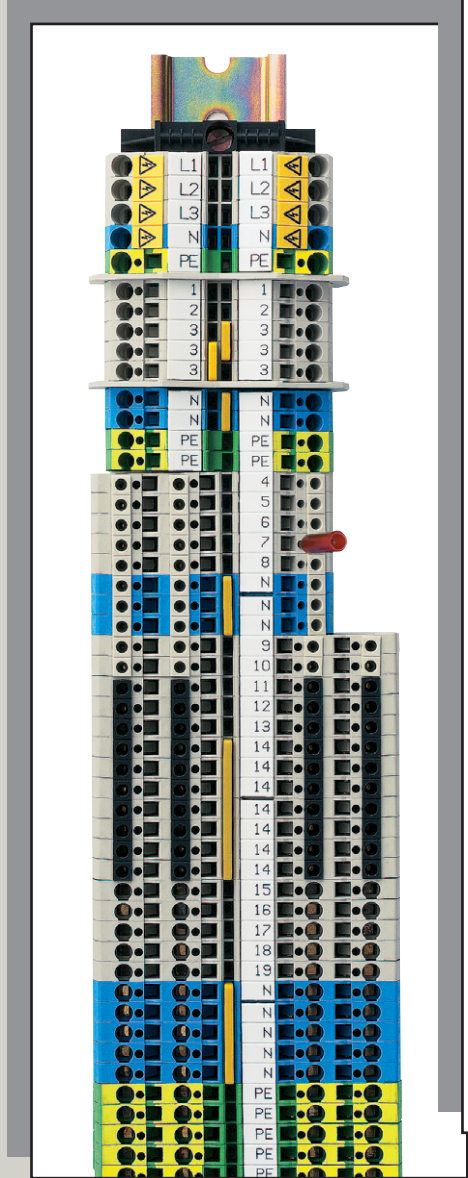
DIN rail terminal blocks with spring clamp connection, type **WKF**

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

fasis

	2.5 mm ² (12 AWG)	4 mm ² (10 AWG)	6 mm ² (8 AWG)
Feed-through blocks			
Neutral feed-through blocks			
Ground blocks			

**Standard
DIN Rail Terminal Blocks**



	1.5 mm ² (14 AWG)	4 mm ² (10 AWG)
Feed-through		
Branch Circuit VB		
Feed-through and Ground D/SL		
Ground		
Electronic Component Addition		
Double-tier block with pluggable connection		

Double-tier blocks

Knife edge disconnect block

Disconnect block with fuse plug

Disconnect block with diode plug

Disconnect

Feed-through blocks

Neutral disconnect blocks

Ground blocks

Sensor blocks with/without LED

10 mm²
(6 AWG)

16 mm²
(4 AWG)



4 mm²
(10 AWG)



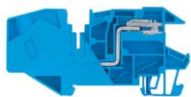
blocks

2.5 mm²
(12 AWG)

4 mm²
(10 AWG)

16 mm²
(4 AWG)

see
fasis BIT
Section



Installation DIN Rail Terminal Blocks

2.5 mm²
(12 AWG)

4 mm²
(10 AWG)

Feed-through
blocks



Neutral feed-
through



Ground
blocks



Duo 1/2

2.5 mm²
(12 AWG)

Feed-through block



Duo feed-through
block



Neutral feed-through
block



Ground block



Duo 2/2

Feed-through block
with pluggable
connection



Neutral feed-through
block with pluggable
connection



Ground block with
pluggable connection



Duo 2/8113

Duo DIN Rail Terminal Blocks

KOE...

KOI 3L...

KOI 3L/SL...

KOA 2L...

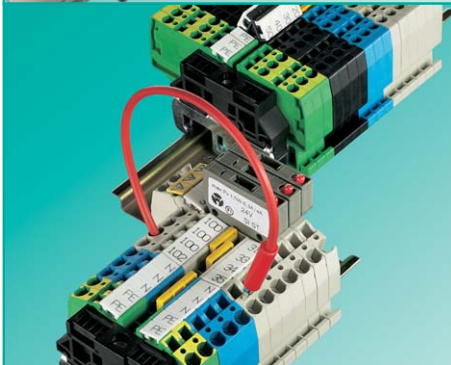
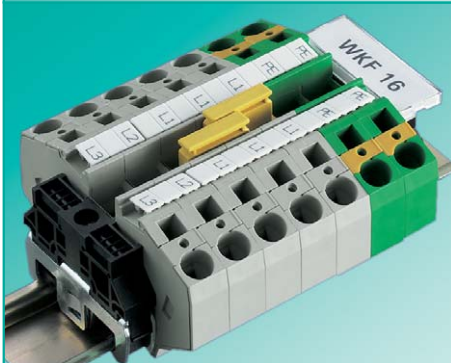
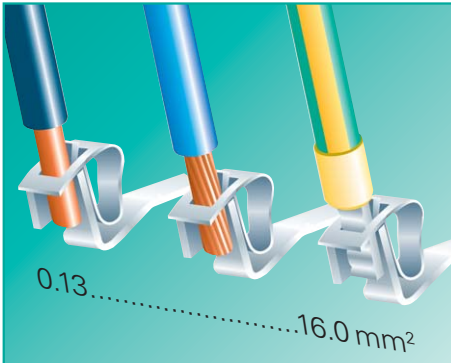


Sensor and actuator blocks

DIN rail terminal blocks with spring clamp connection, type **WKF**

fasis *STIS*

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System advantages

- ❑ **Spring clamp connection, screwless technology**
Separation of electrical and mechanical functions

- ❑ **TOP connection**
Wire entry and screwdriver access in the same plane

- ❑ **Built in test points**

❑ Connection capabilities

The clamping bodies of the WKF series can take in any copper conductor types without ferrules

Due to the construction of the funnelled wire entry, stripped wires can be connected without fraying

❑ Tool

For optimal operation of our WKF terminal blocks we recommend the use of the following DIN 5264 screwdrivers with cylindric design and flat blades

Application advantages

- **Dynamic connections**
Protection of the connection against "cold flow" and creep

- **Pre-programmed clamping force**
The clamping force required to connect the wire, is created by the spring element of the clamp

- **Secure and maintenance-free electrical connection**
According to EN 60947-7-1

- **Clear and neat wiring**
In small confined spaces

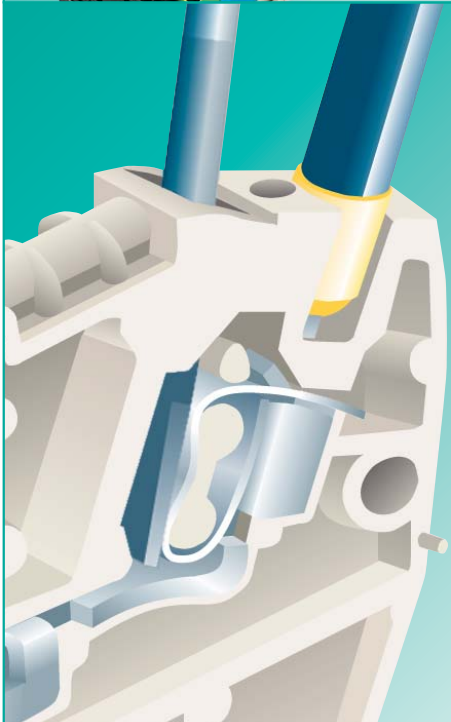
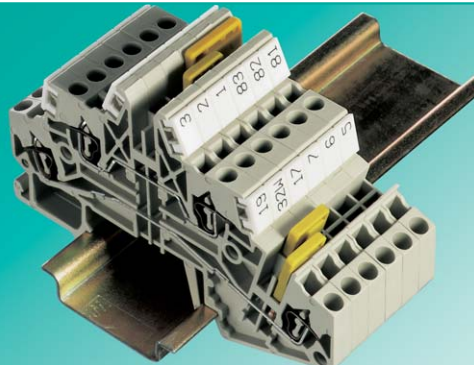
- **Test points for test plugs** up to Ø 2.3 mm on all clamping points, without having to remove the connected wire

❑ Economic system

- Time saving due to pluggable cross connectors in potential commoning

❑ Fatigue-free handling

- Both solid and stranded wires can be connected to WKF terminal blocks with and without ferrules



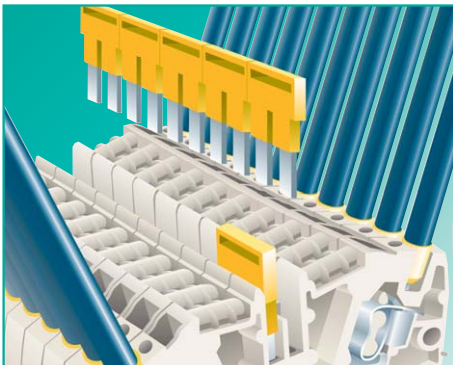
→ Rated

cross section

14 AWG	1.5 mm ²
12 AWG	2.5 mm ²
10 AWG	4 mm ²
8 AWG	6 mm ²
6 AWG	10 mm ²
4 AWG	16 mm ²

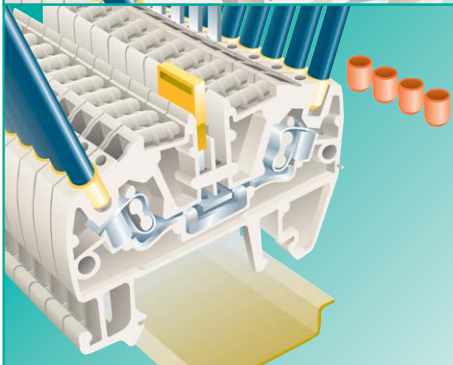
Blade dimensions of the screwdrivers

0.6 x 3.5 mm
0.6 x 3.5 mm
0.6 x 3.5 mm
0.8 x 4.0 mm
0.8 x 4.0 mm
1.0 x 5.5 mm



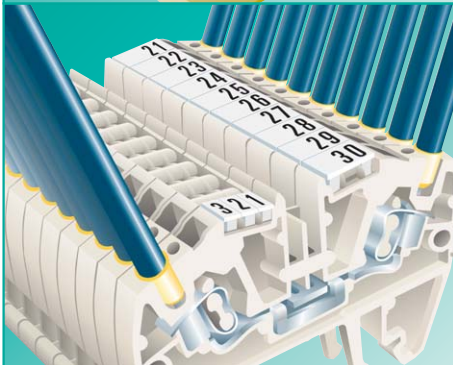
Cross connection (Jumper Bars)

- The insulated cross connectors IVB WKF... are completely touch safe
- No partition plates required between jumpered terminal groups of different potential
- The cross connectors IVB WKF... bear the same rated current as the terminal
- For modular test plugs see page 177



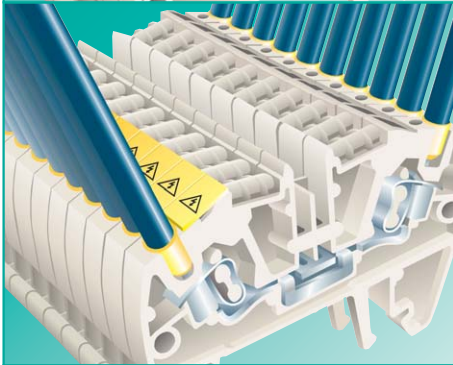
Wire entry guides

- For the connection of wires with cross sections smaller than 18 AWG, we recommend the use of wire entry guides
- Wire entry guides prevent the wires from being inserted beyond the optimal clamping point and ensures a safe and secure connection



Marking systems

- Marking facility is down the center so that the marking tag is not covered by the conductor
- Single marking tag in 5, 6, or 8 mm spacing
- Marking strips (10 tags) to snap on to the terminal blocks
- Tear-off marking strips for 3-digit marking facilities per block
- Custom marking upon request



Cover with warning symbol

- Cover with warning symbol ADC to snap on to blocks which are still live after switched-off (VDE 0113)
- Cover can only be removed with a screwdriver

DQS certificates for all products

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

Metal parts

Special alloys and surface treatments provide low contact resistance and high corrosion resistance

Clamping spring: stainless CrNi steel
Current Carrying bar: tin-plated copper

Insulating material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housing: Polyamide 66/6
Tracking resistance: CTI 600

Flammability class:
Type WKF... UL 94 V-0
Type WKIF 16... UL 94 V-2

(see also section **facts & DATA**)

Our **wieplan** software helps to plan your DIN rail terminal block assemblies (see page 10/11).

Note

The information regarding cross-sectional areas and connection types pertains to wires without ferrules. Ferrules are not necessary for secure connection.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

If the ground blocks of the WKF series are not used in block assemblies but are mounted to the rail as single terminal blocks, end clamps have to be used.

A detailed description of technical data, the standards requirements, and the application conditions can be found in catalogue section **facts & DATA**.

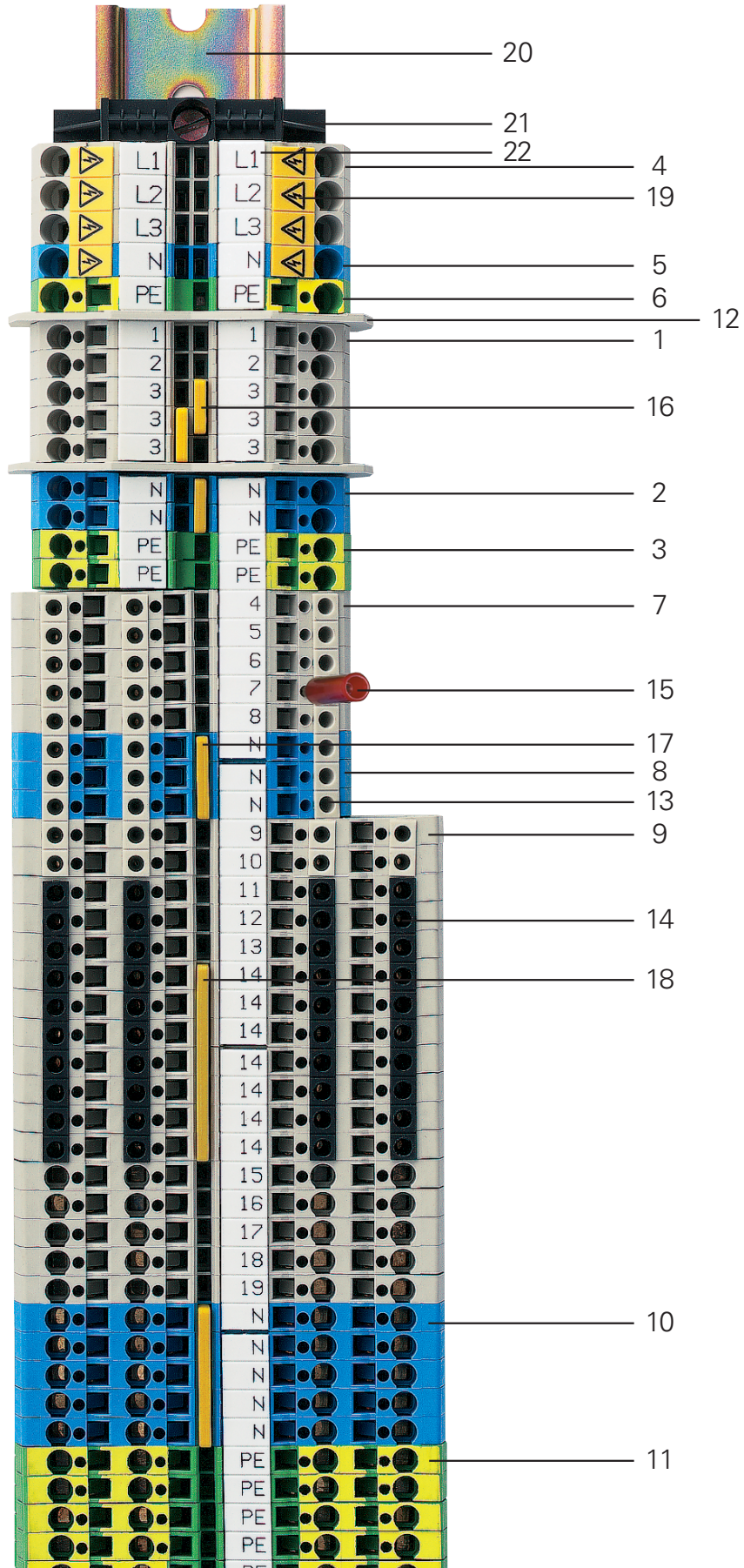


DIN Rail terminal blocks

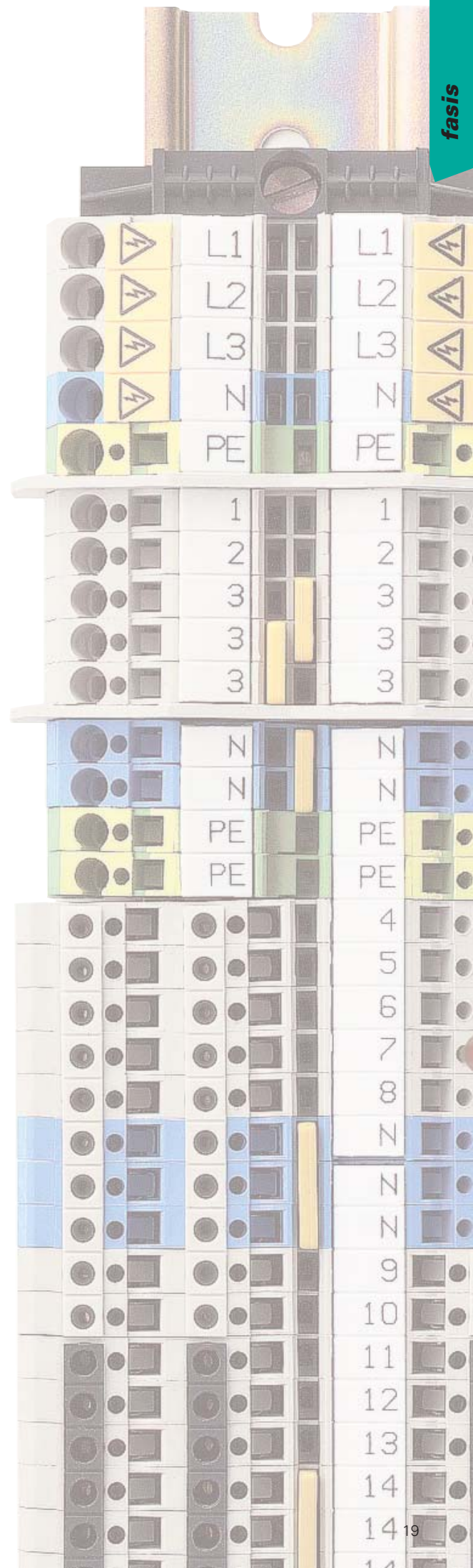
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with spring clamp connection, type **WKF**

fasis



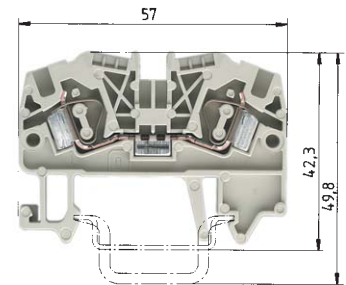
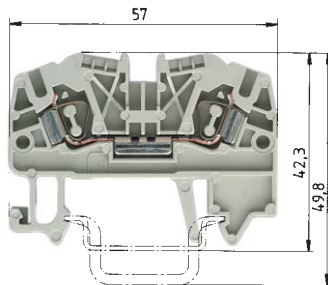
Pos.	Description	Type	Part. number
1	Feed-through block	WKF 2,5/35	56.703.0053.0
2	Feed-through block, blue	WKF 2,5/35 BLAU	56.703.0053.6
3	Ground block	WKF 2,5 SL/35	56.703.9053.0
4	Feed-through block	WKF 4/35	56.704.0053.0
5	Feed-through block, blue	WKF 4/35 BLAU	56.704.0053.6
6	Ground block	WKF 4 SL/35	56.704.9053.0
7	Duo feed-through block	WKF 2,5/D1/2/35	56.703.5053.0
8	Duo feed-through block, blue	WKF 2,5/D1/2/35 BLAU	56.703.5053.6
9	Duo feed-through block	WKF 2,5/D2/2/35	56.703.5153.0
10	Duo feed-through block, blue	WKF 2,5/D2/2/35 BLAU	56.703.5153.6
11	Duo ground block	WKF 2,5/D2/2/SL/35	56.703.9153.0
12	Partition plate	TWF 2,5-4	07.312.2253.0
13	Wire entry guide	LEL 2,5/2 GRAU	05.561.6553.0
14	Wire entry guide	LEL 2,5/3 SCHWARZ	05.561.6753.0
15	Test plug with insulated handle	WK 2,5/ST2/2,3	Z5.553.2921.0
16	Cross connector, insulated	IVB WKF 2,5-2	Z7.280.6227.0
17	Cross connector, insulated	IVB WKF 2,5-3	Z7.280.6327.0
18	Cross connector, insulated	IVB WKF 2,5-7	Z7.280.6727.0
19	Cover with warning symbol	ADF 4/4 GELB	04.343.6153.8
20	Mounting rail	35x27x7,5 gelocht	98.300.1000.0
21	End clamp	9808/2 S35	Z5.522.8553.0
22	Marking strips	9705 A/6/10 B	04.856.0453.0



Feed-through blocks with spring clamp connection, type **WKF**

onlinecomponents.com
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fasis



WKF 2.5/35

fine stranded solid V A
0.13 – 2.5 mm² 0.13 – 4 mm² 800 V/8 kV/3 24
No. 22-12 AWG 600 V 20/30
No. 24-12 AWG 600 V 25
5 mm 11 mm

UL SEV-EEX CE D N NY F I RINA LR LCIE
BV * **

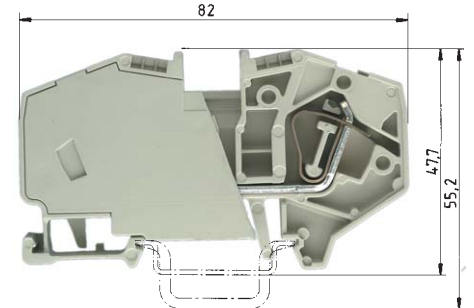
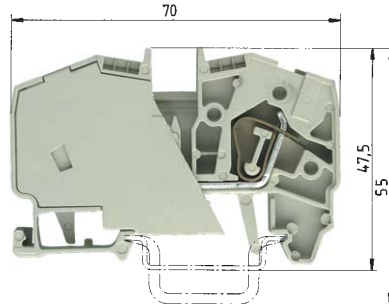
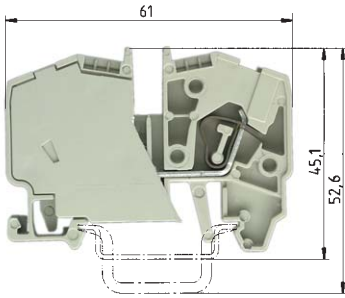
WKF 4/35

fine stranded solid V A
0.13 – 4 mm² 0.13 – 6 mm² 800 V/8 kV/3 32
No. 22-10 AWG 600 V 20/30
No. 22-10 AWG 600 V 35
6 mm 11 mm

UL SEV-EEX CE D N NY F I RINA LR LCIE
BV * **

EN 60 947-7-1/DIN VDE 0611 T1
UL ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed-through block Color: gray	WKF 2,5/35	56.703.0053.0	100	WKF 4/35	56.704.0053.0	100
Feed-through block Color: blue	WKF 2,5/35 BLAU	56.703.0053.6	100	WKF 4/35 BLAU	56.704.0053.6	100
Accessories						
1. Mounting rail 35, 7.5 mm high L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, without screw 8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate Color: gray	APF 2,5 – 4	07.312.2153.0	10	APF 2,5 – 4	07.312.2153.0	10
Color: blue	APF 2,5 – 4 BLAU	07.312.2153.6	10	APF 2,5 – 4 BLAU	07.312.2153.6	10
4. Partition plate Color: gray	TWF 2,5 – 4	07.312.2253.0	10	TWF 2,5 – 4	07.312.2253.0	10
Color: blue	TWF 2,5 – 4 BLAU	07.312.2253.6	10	TWF 2,5 – 4 BLAU	07.312.2253.6	10
5. Cross connector 2pole	IVB WKF 2,5 – 2	Z7.280.6227.0	10	IVB WKF 4 – 2	Z7.261.1227.0	10
insulated (jumper bar) 3pole	IVB WKF 2,5 – 3	Z7.280.6327.0	10	IVB WKF 4 – 3	Z7.261.1327.0	10
4pole	IVB WKF 2,5 – 4	Z7.280.6427.0	10	IVB WKF 4 – 4	Z7.261.1427.0	10
5pole	IVB WKF 2,5 – 5	Z7.280.6527.0	10	IVB WKF 4 – 5	Z7.261.1527.0	10
6pole	IVB WKF 2,5 – 6	Z7.280.6627.0	10	IVB WKF 4 – 6	Z7.261.1627.0	10
7pole	IVB WKF 2,5 – 7	Z7.280.6727.0	20	IVB WKF 4 – 7	Z7.261.1727.0	20
8pole	IVB WKF 2,5 – 8	Z7.280.6827.0	20	IVB WKF 4 – 8	Z7.261.1827.0	20
9pole	IVB WKF 2,5 – 9	Z7.280.6927.0	20	IVB WKF 4 – 9	Z7.261.1927.0	20
10pole	IVB WKF 2,5 – 10	Z7.280.7027.0	20	IVB WKF 4 – 10	Z7.261.2027.0	20
6. Wire entry guide 0.13 – 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 4/1 WEISS	05.561.8553.0	100
0.25 – 0.5 mm ²	LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 4/2 GRAU	05.561.8653.0	100
0.75 – 1.0 mm ²	LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 4/3 SCHWARZ	05.561.8753.0	100
7. Cover with warning symbol over 4 blocks	ADF 2,5/4 GELB	04.343.6053.8	10	ADF 4/4 GELB	04.343.6153.8	10
8. Screwdriver, uninsulated (jumper bar)	DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5
9. Test plug with spring connection	PSWKC/F	Z1.299.9753.0		PSWKC/F	Z1.299.9753.0	
End plate / spacer	ZP/APPS	07.312.6053.0		ZP/APPS	07.312.6053.0	
Blank module for staggered testing		01.299.9753.0			01.299.9753.0	
*) End plate required for each test plug to achieve						
6 mm pitch	* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
Marking accessories see page 48/49 and page 90/91	**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		



WKF 6/35

fine stranded	solid	V	A
0.5 – 6 mm ²	0.5 – 6 mm ²	800 V/8 kV/3	41
No. 20-8 AWG		600 V	40
No. 20-8 AWG		600 V	47
8 mm			12 mm



WKF 10/35

fine stranded	solid	V	A
2.5 – 10 mm ²	2.5 – 10 mm ²	800 V/8 kV/3	57
No. 14-6 AWG		600 V	55
No. 14-6 AWG		600 V	65
10 mm			13 mm

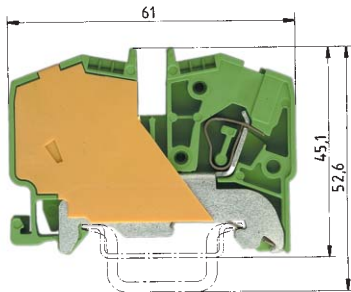


WKF 16/35

fine stranded	stranded	V	A
4 – 16 mm ²	4 – 16 mm ²	800 V/8 kV/3	76
No. 12-4 AWG		600 V	75
No. 12-4 AWG		600 V	78
12 mm			15 mm



Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKF 6/35	56.706.0053.0	100	WKF 10/35	56.710.0053.0	50	WKF 16/35	56.716.0053.0	50
WKF 6/35 BLAU	56.706.0053.6	100	WKF 10/35 BLAU	56.710.0053.6	50	WKF 16/35 BLAU	56.716.0053.6	50
35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
IVB WKF 6 – 2	Z7.282.4227.0	10	IVB WKF 10 – 2	Z7.283.8227.0	10	IVB WKF 16 – 2	Z7.284.4227.0	10
ADF 6/4 GELB	04.343.6253.8	10	ADF 10/4 GELB	04.343.6453.8	10	ADF 16/4 GELB	04.343.6653.8	10
DIN 5264 B 0,8x4	06.502.4100.0	5	DIN 5264 B 0,8x4	06.502.4100.0	5	DIN 5264 B 1x5,5	06.502.4200.0	5
PSWKC/F	Z1.299.9753.0		PSWKC/F	Z1.299.9753.0		PSWKC/F	Z1.299.9753.0	
ZP/APPS	07.312.6053.0		ZP/APPS	07.312.6053.0		ZP/APPS	07.312.6053.0	
	01.299.9753.0			01.299.9753.0			01.299.9753.0	
* CL I, ZN1, AExe II			* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
**CL I, ZN1, Exe II			**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		

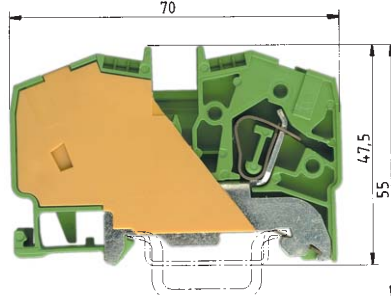


Current carrying capabilities of the mounting rails see catalogue section **facts & DATA**

WKF 6 SL/35

fine stranded	solid	V	A
0.5 – 6 mm ²	0.5 – 6 mm ²	800 V/8 kV/3	41
No. 20-8 AWG		600 V	
No. 20-8 AWG		600 V	
8 mm			12 mm

* **

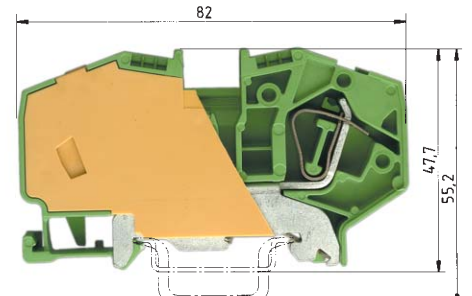


Current carrying capabilities of the mounting rails see catalogue section **facts & DATA**

WKF 10 SL/35

fine stranded	solid	V	A
2.5 – 10 mm ²	2.5 – 10 mm ²	800 V/8 kV/3	57
No. 14-6 AWG		600 V	
No. 14-6 AWG		600 V	
10 mm			13 mm

* **



Current carrying capabilities of the mounting rails see catalogue section **facts & DATA**

WKF 16 SL/35

fine stranded	stranded	V	A
4 – 16 mm ²	4 – 16 mm ²	800 V/8 kV/3	76
No. 12-4 AWG		600 V	
No. 12-4 AWG		600 V	
12 mm			15 mm

* **

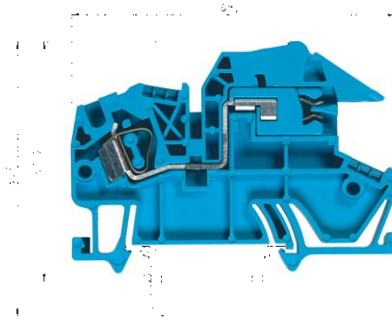
Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKF 6 SL/35	56.706.9053.0	100	WKF 10 SL/35	56.710.9053.0	50	WKF 16 SL/35	56.716.9053.0	50
35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
DIN 5264 B 0,8x4	06.502.4100.0	5	DIN 5264 B 0,8x4	06.502.4100.0	5	DIN 5264 B 1x5,5	06.502.4200.0	5
* CL I, ZN1, AExe II			* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
**CL I, ZN1, Exe II			**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		
Please see note on page 17!			Please see note on page 17!			Please see note on page 17!		

Neutral disconnect blocks with spring clamp connection, type **WKF**

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Combination with
Feed-through block WKF 4/35
ground block WKF 4 SL/35



WKF 4 NT/35

EN 60 947-7-1; 1991/DIN VDE 0611 T1/08.92
UL ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

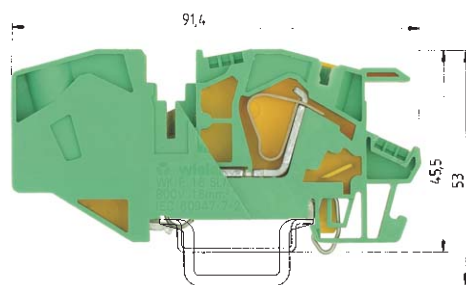
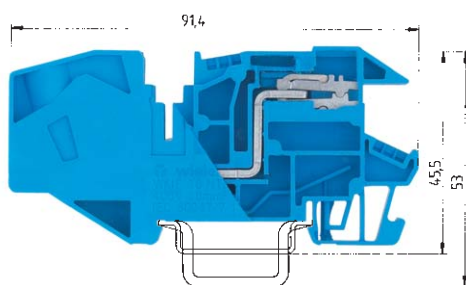
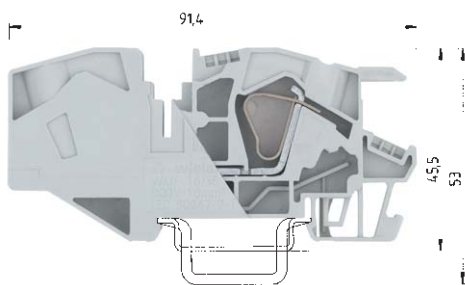
fine stranded	solid	V	A
0.13 – 4 mm ²	0.13 – 6 mm ²	400 V/6 kV/3	30
No. 22-10 AWG		600 V	25
6 mm			11 mm

		Type	Part no.	Std. pack	
Feed-through block	Color: gray				
Feed-through block	Color: blue				
Neutralleiter-Trennklemme	Color: blue	WKF 4 NT/35	56.704.8153.0	100	
Ground block	Color: green/yellow				
Accessories					
1. Mounting rail 35, 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	
Mounting rail 35, 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	
End clamp TS 35, without screw	8 mm wide	WEF 1/35	Z5.523.9353.0	100	
3. End plate	Color: gray				
	Color: blue	APF 4 NT	07.312.6053.0	10	
4. Partition plate					
5. Cross connector	2pole	IVB WKF 4 – 2	Z7.261.1227.0	10	
insulated (jumper bar)	3pole	IVB WKF 4 – 3	Z7.261.1327.0	10	
	4pole	IVB WKF 4 – 4	Z7.261.1427.0	10	
	5pole	IVB WKF 4 – 5	Z7.261.1527.0	10	
	6pole	IVB WKF 4 – 6	Z7.261.1627.0	10	
	7pole	IVB WKF 4 – 7	Z7.261.1727.0	20	
	8pole	IVB WKF 4 – 8	Z7.261.1827.0	20	
	9pole	IVB WKF 4 – 9	Z7.261.1927.0	20	
	10pole	IVB WKF 4 – 10	Z7.261.2027.0	20	
6. Wire entry guide	0.13 – 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100	
	0.25 – 0.5 mm ²	LEL 4/2 GRAU	05.561.8653.0	100	
	0.75 – 1.0 mm ²	LEL 4/3 SCHWARZ	05.561.8753.0	100	
7. Cover with warning symbol over 4 blocks		ADF 4/4 GELB	04.343.6153.8	10	
8. Bus bar, E-Cu 10 x 3 mm, tin-plated	L = 1 m	9813 M SN	98.290.1000.0	1	
9. Connector clamp for bus bar	8.5 mm wide	WAK 16/2 BLAU	30.494.3021.6	100	
	17 mm wide	WAK 35/2	30.494.4121.0	50	
10. Bus bar support	8 mm wide	WKIF SH/E/35	Z1.108.8453.0	10	
11. Screwdriver uninsulated (jumper bar)		DIN 5264 B 0,6x3,5	06.502.4000.0	5	
Marking accessories see page 48/49 and page 90/91					

Supply blocks for junction box **onlinecomponents.com**
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 with spring clamp connection, type **WKIF**

fasis

fasis



WKIF 16/35

fine stranded stranded V A
 4 – 16 mm² 4 – 16 mm² 800 V/8 kV/3 76

12 mm 16 mm

WKIF 16 NT/35

fine stranded stranded V A
 4 – 16 mm² 4 – 16 mm² 400 V/6 kV/3 68

12 mm 16 mm

WKIF 16 SL/35

fine stranded stranded V A
 4 – 16 mm² 4 – 16 mm² 800 V/8 kV/3 76

12 mm 16 mm

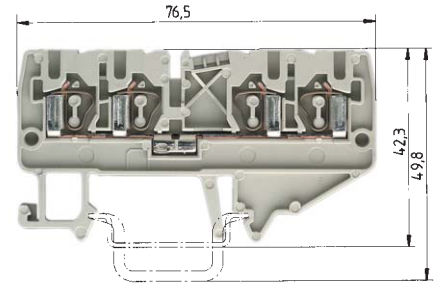
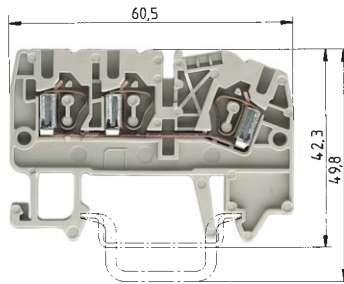
Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKIF 16/35	56.716.1153.0	50						
WKIF 16/35 BLAU	56.716.1153.6	50						
			WKIF 16 NT/35	56.716.8153.0	50			
						WKIF 16 SL/35	56.716.9153.0	50
35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
			WEF 1/35	Z5.523.9353.0	100			
IVB WKIF 16 – 2	Z7.284.6227.0	10	IVB WKIF 16 – 2	Z7.284.6227.0	10	IVB WKIF 16 – 2	Z7.284.6227.0	10
9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1
WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100
WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
DIN 5264 B 1x5	06.502.4200.0	5	DIN 5264 B 1x5	06.502.4200.0	5	DIN 5264 B 1x5	06.502.4200.0	5

Duo-feed-through blocks

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with spring clamp connection, type WKF

fasis



WKF 2.5 D1/2/35

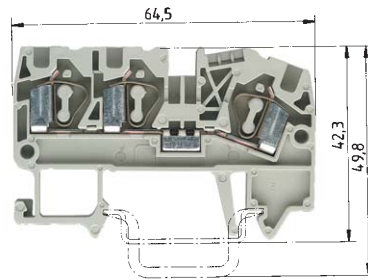
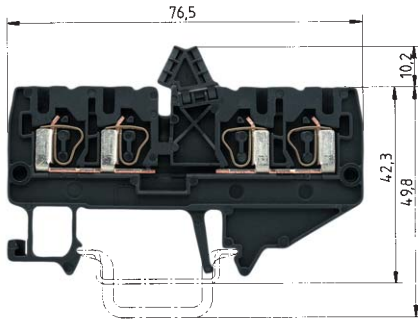
fine stranded solid V A
 0.13 – 2.5 mm² 0.5 – 4 mm² 800 V/8 kV/3 24
 No. 22-12 AWG 600 V 20/30
 No. 24-12 AWG 600 V 25
 5 mm 11 mm
 SEV-EEX OVE D N NV FI KEWA S RINA LR
 LCIE BV RU * **

WKF 2.5 D2/2/35

fine stranded solid V A
 0.13 – 2.5 mm² 0.5 – 4 mm² 800 V/8 kV/3 24
 No. 22-12 AWG 600 V 20/30
 No. 24-12 AWG 600 V 25
 5 mm 11 mm
 SEV-EEX OVE D N NV FI KEWA S RINA LR
 LCIE BV RU * **

EN 60 947-7-1/DIN VDE 0611 T1
 UL ratings field/factory wiring
 CSA ratings
 Width Wire strip length
 Approvals

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Duo feed-through block 1/2	Color: gray	WKF 2,5/D1/2/35	56.703.5053.0	100			
	Color: blue	WKF 2,5/D1/2/35 BLAU	56.703.5053.6	100			
Duo feed-through block 2/2	Color: gray				WKF 2,5/D2/2/35	56.703.5153.0	100
	Color: blue				WKF 2,5/D2/2/35 BLAU	56.703.5153.6	100
Double feed-through block	Color: black						
Accessories							
1. Mounting rail 35, 7.5 high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
	L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APF 2,5 /D1/2	07.312.2353.0	10	APF 2,5 /D2/2	07.312.2553.0	10
	Color: blue	APF 2,5/D1/2 BLAU	07.312.2353.6	10	APF 2,5/D2/2 BLAU	07.312.2553.6	10
4. Partition plate	Color: gray	TWF 2,5/D1/2	07.312.2453.0	10	TWF 2,5/D2/2	07.312.2653.0	10
	Color: blue	TWF 2,5/D1/2 BLAU	07.312.2453.6	10	TWF 2,5/D2/2 BLAU	07.312.2653.6	10
5. Cross connector insulated (jumper bar)	2pole	IVB WKF 2,5 – 2	Z7.280.6227.0	10	IVB WKF 2,5 – 2	Z7.280.6227.0	10
	3pole	IVB WKF 2,5 – 3	Z7.280.6327.0	10	IVB WKF 2,5 – 3	Z7.280.6327.0	10
	4pole	IVB WKF 2,5 – 4	Z7.280.6427.0	10	IVB WKF 2,5 – 4	Z7.280.6427.0	10
	5pole	IVB WKF 2,5 – 5	Z7.280.6527.0	10	IVB WKF 2,5 – 5	Z7.280.6527.0	10
	6pole	IVB WKF 2,5 – 6	Z7.280.6627.0	10	IVB WKF 2,5 – 6	Z7.280.6627.0	10
	7pole	IVB WKF 2,5 – 7	Z7.280.6727.0	20	IVB WKF 2,5 – 7	Z7.280.6727.0	20
8. Wire entry guide	0.13 – 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100
	0.25 – 0.5 mm ²	LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100
	0.75 – 1.0 mm ²	LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100
9. Cover with warning symbol over 4 blocks		ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10
8. Screwdriver, uninsulated (jumper bar)		DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5
9. Test plug with spring connection		PSWKC/F	Z1.299.9753.0		PSWKC/F	Z1.299.9753.0	
End plate / spacer		ZP/APPS	07.312.6053.0		ZP/APPS	07.312.6053.0	
Blank module for staggered testing			01.299.9753.0			01.299.9753.0	
Marking accessories see page 48/49 and page 90/91		* CL I, ZN1, AExe II / **CL I, ZN1, Exe II			* CL I, ZN1, AExe II / **CL I, ZN1, Exe II		



WKF 2.5 D/D/35

fine stranded solid V A
 0.13 – 2.5 mm² 0.5 – 4 mm² 800 V/8 kV/3 24
 No. 22-12 AWG 600 V 20/30
 No. 24-12 AWG 600 V 25
 5 mm 11 mm
 Ⓢ SEV-EEX Ⓢ OVB Ⓢ NV Ⓢ RINA LR
 LCIE BV Ⓢ¹⁾ Ⓢ²⁾

WKF 4 D1/2/35

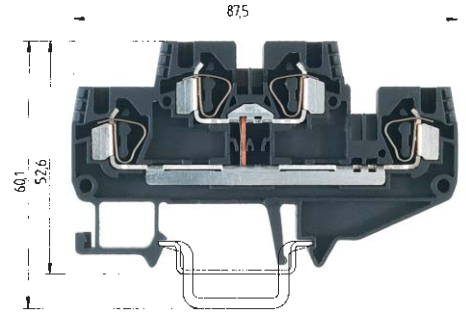
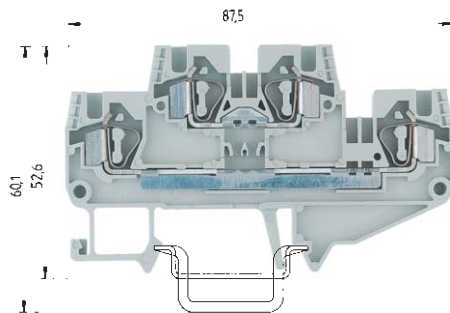
fine stranded solid V A
 0.13 – 4 mm² 0.5 – 6 mm² 800 V/8 kV/3 32
 No. 22-10 AWG 600 V 30
 No. 22-10 AWG 600 V 35
 6 mm 11 mm
 Ⓢ SEV Ⓢ OVB Ⓢ NV Ⓢ RINA LR¹⁾ Ⓢ²⁾

Type	Part no.	Std. pack	Type	Part no.	Std. pack
			WKF 4 D1/2/35	56.704.5053.0	100
			WKF 4 D1/2/35 BLAU	56.704.5053.6	100
WKF 2,5/D/D/35	56.703.5253.0	100			
35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
APF 2,5 /D2/2	07.312.2553.0	10	APF 4/D1/2	07.312.4853.0	10
TWF 2,5/D2/2	07.312.2653.0	10	APF 4/D1/2 BLAU	07.312.4853.6	10
			TWF 4/D1/2	07.312.4953.0	10
			TWF 4/D1/2 BLAU	07.312.4953.6	10
			IVB WKF 4 – 2	Z7.261.1227.0	10
			IVB WKF 4 – 3	Z7.261.1327.0	10
			IVB WKF 4 – 4	Z7.261.1427.0	10
			IVB WKF 4 – 5	Z7.261.1527.0	10
			IVB WKF 4 – 6	Z7.261.1627.0	10
			IVB WKF 4 – 7	Z7.261.1727.0	20
			IVB WKF 4 – 8	Z7.261.1827.0	20
			IVB WKF 4 – 9	Z7.261.1927.0	20
			IVB WKF 4 – 10	Z7.261.2027.0	20
LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 4/1 WEISS	05.561.8553.0	100
LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 4/2 GRAU	05.561.8653.0	100
LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 4/3 SCHWARZ	05.561.8753.0	100
ADF 2,5/4 GELB	04.343.6053.8	10	ADF 4/4 GELB	04.343.6153.8	10
DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5
PSWKC/F	Z1.299.9753.0		PSWKC/F	Z1.299.9753.0	
ZP/APPS	07.312.6053.0		ZP/APPS	07.312.6053.0	
	01.299.9753.0			01.299.9753.0	
¹⁾ CL I, ZN1, Exe II, ²⁾ CL I, ZN1, AExe II			¹⁾ CL I, ZN1, Exe II, ²⁾ CL I, ZN1, AExe II		

Double tier terminals with spring clamp connection, type **WKF**

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WKF 4 E/35

fine stranded solid V A
0.13 - 4 mm² 0.13 - 6 mm² 800 V/8 kV/3 32

6 mm 11 mm
Ⓢ Ⓡ pending

WKF 4 E/VB/35

fine stranded solid V A
0.13 - 4 mm² 0,13 - 6 mm² 800 V/8 kV/3 32

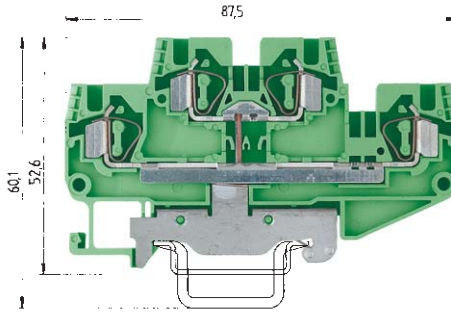
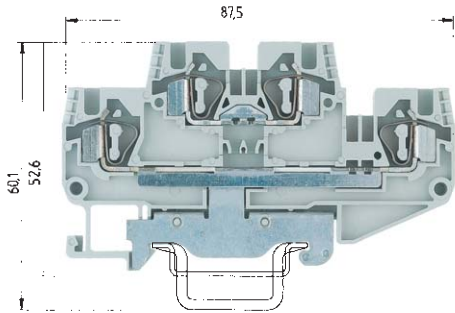
6 mm 11 mm
Ⓢ Ⓡ pending

EN 60 947-7-1
UL ratings
CSA ratings
Width
Approvals

field/factory wiring

Wire strip length

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Double Tier	Color: gray	WKF 4 E/35	56.704.7053.0	100			
Double Tier-Branch circuit	Color: black				WKF 4 E/VB/35	56.704.6953.1	100
Double Tier-Ground	Color: green/yellow						
Function Terminal	Color: red						
Function Terminal	Color: orange						
Accessories							
1. Mounting rail 35, 7.5 mm high, solid	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high, solid	L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, screwmount	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	1.5 mm wide	Color: gray	APF 4 E...07.312.5753.0	10	APF 4 E...	07.312.5753.0	10
	1.5 mm wide	Color: blue					
	1.5 mm wide	Color: green					
4. Partition plate	1.5 mm wide	Color: gray	TWF 4 E...07.312.5853.0	10	TWF 4 E...	07.312.5853.0	10
	1.5 mm wide	Color: blue					
5. Cross connector	2pole	IVB WKF 4-2	Z7.261.1227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
insulated (jumper bar)	3pole	IVB WKF 4-3	Z7.261.1327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 4-4	Z7.261.1427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 4-5	Z7.261.1527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 4-6	Z7.261.1627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 4-7	Z7.261.1727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 4-8	Z7.261.1827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 4-9	Z7.261.1927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole	IVB WKF 4-10	Z7.261.2027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Vertical Jumper	1pole	IVB WKF-V*)	Z7.261.1127.0				
7 Wire entry guide	0.13 - 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100	LEL 4/1 WEISS	05.561.8553.0	100
	0.25 - 0.5 mm ²	LEL 4/2 GRAU	05.561.8653.0	100	LEL 4/2 GRAU	05.561.8653.0	100
	0.75 - 1.0 mm ²	LEL 4/3 SCHWARZ	05.561.8753.0	100	LEL 4/3 SCHWARZ	05.561.8753.0	100
8. Cover with warning symbol for 4 terminals		ADF 4/4 GELB	04.343.6153.8	10	ADF 4/4 GELB	04.343.6153.8	10
9. Screwdriver		DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5
Screwdriver, MINI		DIN 5264 B 0,6x3,5 M	06.502.5000.0	10	DIN 5264 B 0,6x3,5 M	06.502.5000.0	10
Marking accessories see page 48/49 and page 90/91							



WKF 4 E /D/SL/35

fine stranded solid V A
0.13 - 4 mm² 0.13 - 6 mm² 800 V/8 kV/3 32

6 mm 11 mm
 pending

WKF 4 E SL/35

fine stranded solid V A
0.13 - 4 mm² 0.13 - 6 mm² 800 V/8 kV/3 32

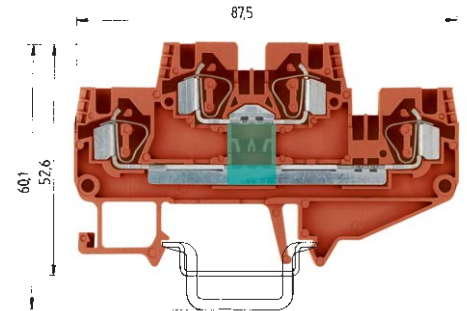
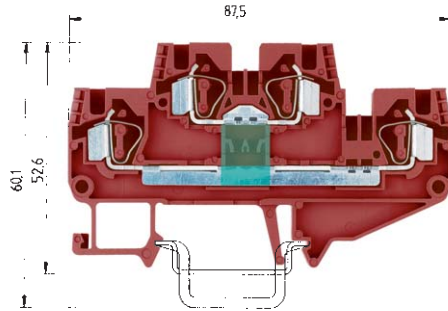
6 mm 11 mm
 pending

Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKF 4 E /D/SL/35	56.704.9953.0	100	WKF 4 E SL/35	56.704.9253.0	100
35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
APF 4 E...	07.312.5753.0	10	APF 4 E...	07.312.5753.7	10
TWF 4 E...	07.312.5853.0	10			
IVB WKF 4 - 2	Z7.261.1227.0	10			
IVB WKF 4 - 3	Z7.261.1327.0	10			
IVB WKF 4 - 4	Z7.261.1427.0	10			
IVB WKF 4 - 5	Z7.261.1527.0	10			
IVB WKF 4 - 6	Z7.261.1627.0	10			
IVB WKF 4 - 7	Z7.261.1727.0	20			
IVB WKF 4 - 8	Z7.261.1827.0	20			
IVB WKF 4 - 9	Z7.261.1927.0	20			
IVB WKF 4 - 10	Z7.261.2027.0	20			
LEL 4/1 WEISS	05.561.8553.0	100	LEL 4/1 WEISS	05.561.8553.0	100
LEL 4/2 GRAU	05.561.8653.0	100	LEL 4/2 GRAU	05.561.8653.0	100
LEL 4/3 SCHWARZ	05.561.8753.0	100	LEL 4/3 SCHWARZ	05.561.8753.0	100
ADF 4/4 GELB	04.343.6153.8	10	ADF 4/4 GELB	04.343.6153.8	10
DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5
DIN 5264 B 0,6x3,5 M	06.502.5000.0	10	DIN 5264 B 0,6x3,5 M	06.502.5000.0	10

Double tier blocks with spring clamp connection, type **WKF**

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WKF 4 E /35...

fine stranded solid V A
0.13 - 4 mm² 0.13 - 6 mm²

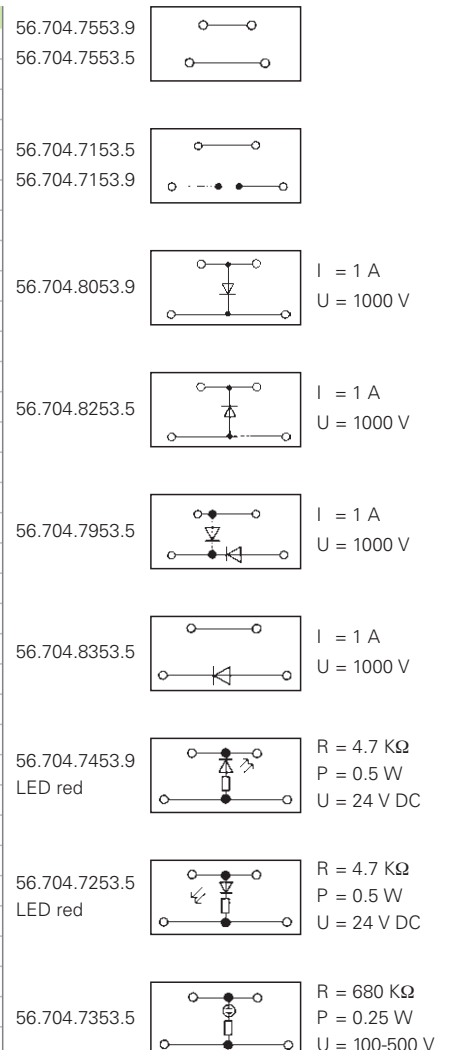
EN 60 947-7-1
UL ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

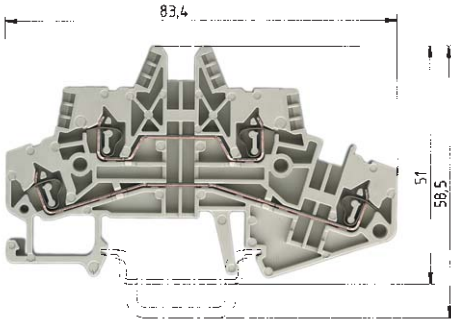
Wire strip length

6 mm 11 mm
Ⓢ pending

	Type	Part no.	Std. pack
Double tier block Color: gray			
Double tier-Branch circuit Color: black			
Double tier-Ground Color: green/yellow			
Function Terminal Color: red	WKF 4 E /35...	56.704.XX53.5	
Function Terminal Color: orange	WKF 4 E /35...	56.704.XX53.9	
Accessories			
1. Mounting rail 35, 7.5 mm high L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high L = 2 m	35x24x15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, without screw 8 mm wide	WEF 1/35	Z5.523.9353.0	100
3. End plate 1.5 mm wide Color: gray	APF 4 E...	07.312.5753.0	10
1.5 mm wide Color: blue			
1.5 mm wide Color: green			
4. Partition plate 1.5 mm wide Color: gray	TWF 4 E...	07.312.5853.0	10
1.5 mm wide Color: blue			
5. Cross connector 2pole	IVB WKF 4-2	Z7.261.1227.0	10
Insulated (jumper bar) 3pole	IVB WKF 4-3	Z7.261.1327.0	10
4pole	IVB WKF 4-4	Z7.261.1427.0	10
5pole	IVB WKF 4-5	Z7.261.1527.0	10
6pole	IVB WKF 4-6	Z7.261.1627.0	10
7pole	IVB WKF 4-7	Z7.261.1727.0	20
8pole	IVB WKF 4-8	Z7.261.1827.0	20
9pole	IVB WKF 4-9	Z7.261.1927.0	20
10pole	IVB WKF 4-10	Z7.261.2027.0	20
6. Vertical Jumper 1pole			
7. Wire entry guide 0.13 - 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100
0.25 - 0.5 mm ²	LEL 4/2 GRAU	05.561.8653.0	100
0.75 - 1.0 mm ²	LEL 4/3 SCHWARZ	05.561.8753.0	100
8. Cover with warning symbol over 4 blocks	ADF 4/4 GELB	04.343.6153.8	10
9. Screwdriver, uninsulated (jumper bar)	DIN 5264 B 0,6x3,5	06.502.4000.0	5
Screwdriver, uninsulated (jumper bar), MINI	DIN 5264 B 0,6x3,5 M	06.502.5000.0	10
Marking accessories see page 48/49 and page 90/91			

Function Diagram





WKF 1.5 E/35

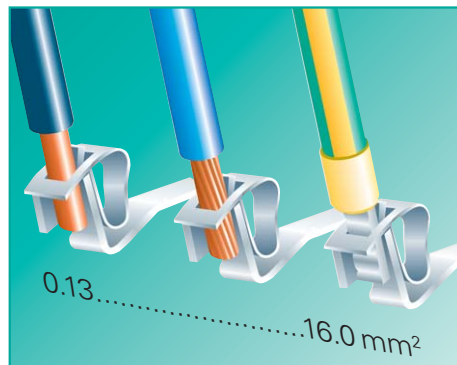
fine stranded solid V A
 0.13 – 1.5 mm² 0.13 – 2.5 mm² 400 V/6 kV/3 17.5
 30-14 AWG 300 V 15 A
 CSA No. 28-14 AWG 600 V 20 A
 5 mm 8 mm

UL * CE **

Type	Part no.	Std. pack
WKF 1,5 E/35	56.702.7053.0	100
35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100
APF 1,5 E	07.312.3553.0	10
TWF 1,5 E	07.312.3653.0	10
IVB WKF 2,5 – 2	Z7.280.6227.0	10
IVB WKF 2,5 – 3	Z7.280.6327.0	10
IVB WKF 2,5 – 4	Z7.280.6427.0	10
IVB WKF 2,5 – 5	Z7.280.6527.0	10
IVB WKF 2,5 – 6	Z7.280.6627.0	10
IVB WKF 2,5 – 7	Z7.280.6727.0	20
IVB WKF 2,5 – 8	Z7.280.6827.0	20
IVB WKF 2,5 – 9	Z7.280.6927.0	20
IVB WKF 2,5 – 10	Z7.280.7027.0	20
IVB WKFC-V*)	Z7.261.1127.0	
LEL 1,5/1 WEISS	05.562.2453.0	100
LEL 1,5/2 GRAU	05.562.2553.0	100
LEL 1,5/3 SCHWARZ	05.562.2653.0	100
ADF 1,5/4 GELB	04.343.8353.8	10
DIN 5264 B 0,6x3,5	06.502.4000.0	5
DIN 5264 B 0,6x3,5 M	06.502.5000.0	10
* CL I, ZN1, AExe II		
**CL I, ZN1, Exe II		

DIN rail terminal blocks with **spring clamp** connection and pluggable connections

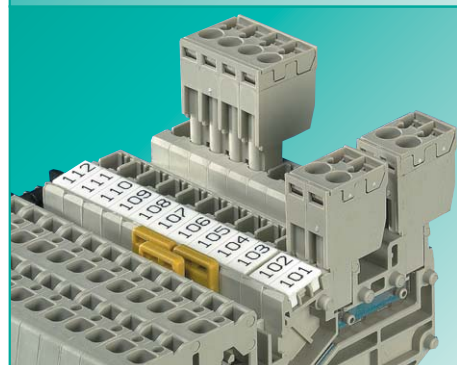
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System advantages

- Spring clamp connection, screwless technology**

Separation of electrical and mechanical functions

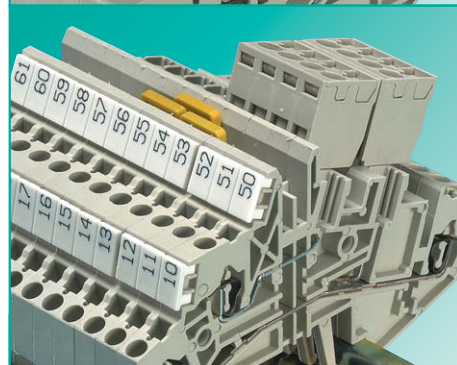


- TOP connection**

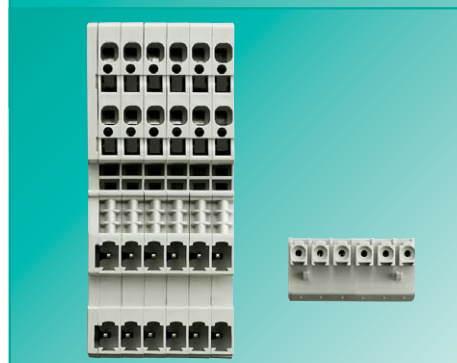
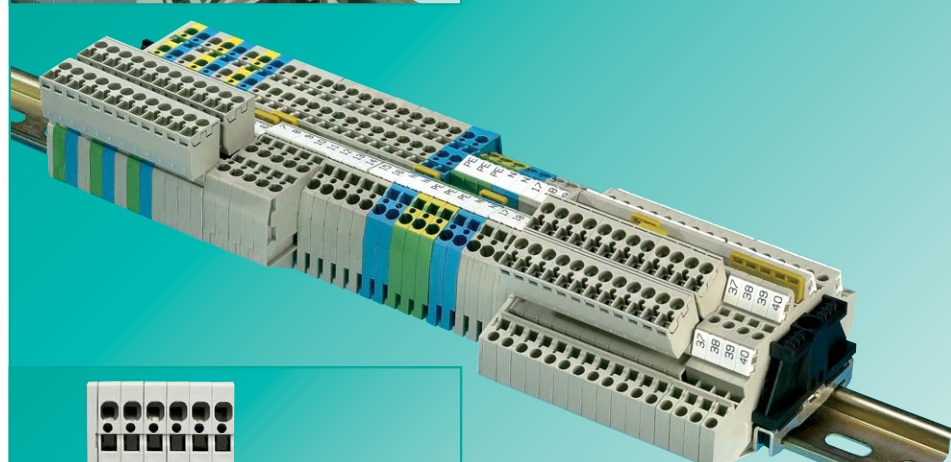
Wire entry and screwdriver access in same plane

- Built in Test Points**

- Preassembled modules**



- Pluggable wiring inside the control cabinet**



- Touch safe**

- Safety through coding**

Application advantages

- **Dynamic connections**

Protection of the connection against "cold flow" and creep

- **Pre-programmed clamping force**

The clamping force required to connect the wire, is created by the spring elements of the clamp

- **Secure and maintenance-free electrical connection**

According to EN 60947-7-1

- **Clear wiring**

In small confined spaces

- **Test points for test plugs** up to

Ø 2.3 mm on all clamping points, without having to remove the connected wire

- **Reduced downtime** due to quick and easy component replacement

- **Wiring errors reduced to a minimum**

- **Cost reduction** in assembly on site

- **Time saving due to pluggable accessories**

- **Flexible potential commoning**

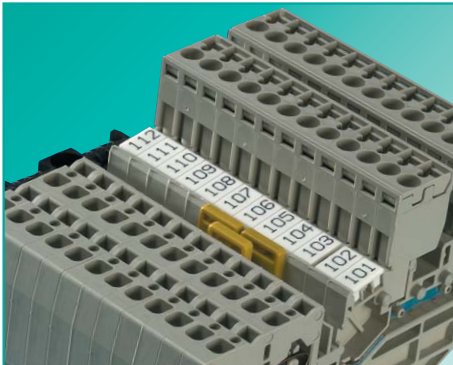
- Two versions of DIN rail terminal blocks:

- WKF 2.5/D2/8113... with 2 inputs and 2 outputs on one potential, only 5 mm wide

- WKF 2.5 E/8113/35 with 2 input and 2 output with different potentials in double-tier design

- Dead front safety as per IEC 60529 due to shrouded pins on the plug-in side

- Coding pieces prevents incorrect mating of the pluggable connector



Cross connection (Jumper Bars)

- The insulated cross connectors IVB WKF... are completely touch safe
- No partition plates required between jumpered terminal groups of different potential
- Cross connector IVB WKF 2.5... can bear the same rated current as the terminal (pg. 17)



Wire entry guides

- For the connection of wires with cross sections smaller than 18 AWG, we recommend the use of wire entry guides
- Wire entry guides prevent the wires from being inserted beyond the optimal clamping point and ensures a safe and secure connection



Marking systems

- Marking facility is down the center so that the marking tag is not covered by the conductor
- Single marking tag 5, 6, or 8 mm spacing
- Marking strips (10 tags) to snap on to the terminal blocks
- Tear-off marking strips for 3-digit marking facilities per block
- Custom marking upon request



Cover with warning symbol

- Cover with warning symbol ADC to snap on to blocks which are still live after switched-off (VDE 0113)
- Cover can only be removed with a screwdriver

DQS certificates for all products

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

Metal parts

Special alloys and surface treatments provide low contact resistance and high corrosion resistance

Clamping spring: stainless CrNi steel

Current Carrying bar: tin-plated cooper

Insulating material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housing: Polyamide 66/6

Tracking resistance: CTI 600

Flammability class: UL 94 V-0

(see also section **facts & DATA**)

Our **wieplan** software helps to plan your DIN rail terminal block assemblies (see page 10/11).

Note

The information regarding cross-sectional areas and connection types pertains to wires without ferrules. Ferrules are not necessary for secure connection.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

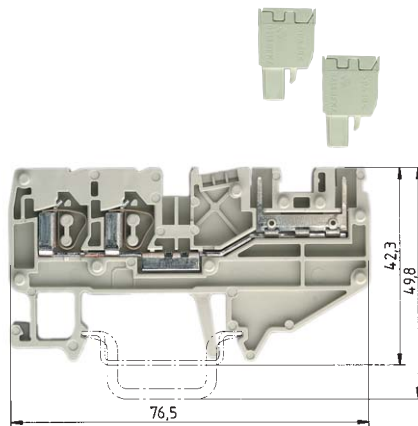
If the ground blocks of the WKF series are not used in block assemblies but are mounted to the rail as single terminal blocks, end clamps have to be used.

A detailed description of technical data, the standards requirements, and the application conditions can be found in catalog section **facts & DATA**.



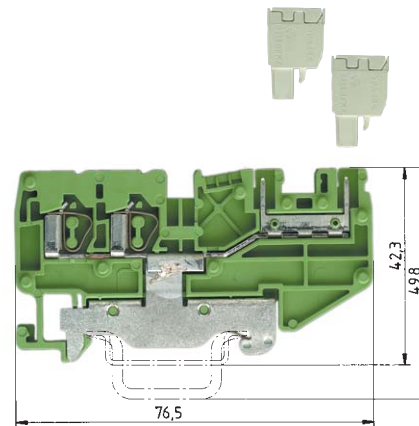
Duo feed-through blocks with onlinecomponents.com pluggable connection

fasis



WKF 2.5 D2/8113/35

	fine stranded	solid	V	A
0.13 – 2.5 mm ²	0.13 – 4 mm ²	250 V/4 kV/3	16	
No. 22-12 AWG		300 V	15	
No. 24-12 AWG		300 V	15	
Width	Wire strip length	5 mm		11 mm



WKF 2.5 D2/8113 SL/35

	fine stranded	solid	V	A
0.13 – 2.5 mm ²	0.13 – 4 mm ²	250 V/4 kV/3	16	
No. 22-12 AWG		300 V	15	
No. 24-12 AWG		300 V	15	
Width	Wire strip length	5 mm		11 mm

EN 60 947-7-1/DIN VDE 0611 T1

UL ratings

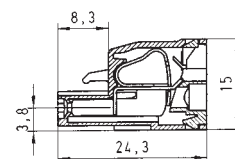
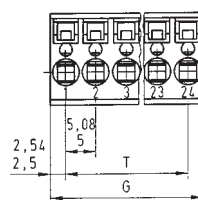
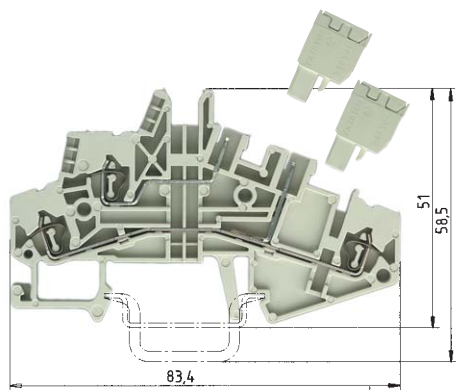
CSA ratings

Width

Approvals

Wire strip length

Duo feed-through block		Type	Part no.	Std. pack.	Type	Part no.	Std. pack.
Color: gray		WKF 2,5 D2/8113/35	56.703.2053.0	100			
Color: blue		WKF 2,5 D2/8113/35 BLAU	56.703.2053.6	100			
Color: green/yellow					WKF 2,5 D2/8113 SL/35	56.703.9253.0	100
Color: gray							
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APF 2,5/D2/8113	07.312.4153.0	10	APF 2,5/D2/8113	07.312.4153.0	10
	Color: blue	APF 2,5/D2/8113	07.312.4153.6	10			
4. Partition plate	Color: gray						
	Color: blue						
5. Cross connector	2pole	IVB WKF 2,5 – 2	Z7.280.6227.0	10			
insulated (jumper bar)	3pole	IVB WKF 2,5 – 3	Z7.280.6327.0	10			
	4pole	IVB WKF 2,5 – 4	Z7.280.6427.0	10			
	5pole	IVB WKF 2,5 – 5	Z7.280.6527.0	10			
	6pole	IVB WKF 2,5 – 6	Z7.280.6627.0	10			
	7pole	IVB WKF 2,5 – 7	Z7.280.6727.0	20			
	8pole	IVB WKF 2,5 – 8	Z7.280.6827.0	20			
	9pole	IVB WKF 2,5 – 9	Z7.280.6927.0	20			
	10pole	IVB WKF 2,5 – 10	Z7.280.7027.0	20			
6. Wire entry guide	0.13 – 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100
	0.25 – 0.5 mm ²	LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100
	0.75 – 1.0 mm ²	LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100
7. Cover with warning symbol over 4 blocks		ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10
Cover with warning symbol over 4 poles		AD 8113/4 GELB	04.343.6853.8	10	AD 8113/4 GELB	04.343.6853.8	10
8. Screwdriver, uninsulated		DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5
9. Coding strip			05.561.0053.0	100		05.561.0053.0	100
10. Test plug with spring connection		PSWKC/F	Z1.299.9753.0		PSWKC/F	Z1.299.9753.0	
End plate / spacer		ZP/APPS	07.312.6053.0		ZP/APPS	07.312.6053.0	
Blank module for staggered testing			01.299.9753.0			01.299.9753.0	
Marking accessories see page 48/49 and page 90/91					Please see note on page 17!		



WKF 1.5 E/8113/35

fine stranded	solid	V	A
0.13 – 1.5 mm ²	0.13 – 2.5 mm ²	250 V/4 kV/3	16
No. 22-14		300 V	15
No. 24-14			
5 mm			8 mm

Rated voltages: VDE 0110/01.89

250 V/4 kV/3 – Overvoltage category III		
400 V/4 kV/2 – Overvoltage category II		
1000 V/4 kV/1 – Overvoltage category I		
CSA No. 22-12 AWG	300 V	12 A
Rated current: 12 A		

Type 8113 BFK

fine stranded	solid	V	A
0.13 – 2.5 mm ²	0.13 – 4 mm ²		12
22-12 AWG		300 V	12
22-12 AWG		300 V	12
5 mm			9 mm



Type	Part no.	Std. pack.	Std. pack.	G	T	Pole	Part no.	Part no.
			5 mm pitch				unmarked	marked
			100	10.00	5.00	2	25.820.3253.0	25.820.0253.0
WKF 1,5 E/8113/35	56.702.2053.0	100	100	15.00	10.00	3	25.820.3353.0	25.820.0353.0
			50	20.00	15.00	4	25.820.3453.0	25.820.0453.0
			50	25.00	20.00	5	25.820.3553.0	25.820.0553.0
35x27x7,5 EN 60715	98.300.0000.0	1	50	30.00	25.00	6	25.820.3653.0	25.820.0653.0
35x24x15 EN 60715	98.360.0000.0	1	50	35.00	30.00	7	25.820.3753.0	25.820.0753.0
9708/2 S35	Z5.522.8553.0	100	50	40.00	35.00	8	25.820.3853.0	25.820.0853.0
WEF 1/35	Z5.523.9353.0	100	50	45.00	40.00	9	25.820.3953.0	25.820.0953.0
APF 1,5/E/8113	07.312.4753.0	10	50	50.00	45.00	10	25.820.4053.0	25.820.1053.0
			50	55.00	50.00	11	25.820.4153.0	25.820.1153.0
			50	60.00	55.00	12	25.820.4253.0	25.820.1253.0
			50	65.00	60.00	13	25.820.4353.0	25.820.1353.0
IVB WKF 2,5 – 2	Z7.280.6227.0	10	50	70.00	65.00	14	25.820.4453.0	25.820.1453.0
IVB WKF 2,5 – 3	Z7.280.6327.0	10	50	75.00	70.00	15	25.820.4553.0	25.820.1553.0
IVB WKF 2,5 – 4	Z7.280.6427.0	10	50	80.00	75.00	16	25.820.4653.0	25.820.1653.0
IVB WKF 2,5 – 5	Z7.280.6527.0	10	17- to 24-pole configurations upon request					
IVB WKF 2,5 – 6	Z7.280.6627.0	10						
IVB WKF 2,5 – 7	Z7.280.6727.0	20						
IVB WKF 2,5 – 8	Z7.280.6827.0	20						
IVB WKF 2,5 – 9	Z7.280.6927.0	20						
IVB WKF 2,5 – 10	Z7.280.7027.0	20						
LEL 1,5/1 WEISS	05.562.2453.0	100						
LEL 1,5/2 GRAU	05.562.2553.0	100						
LEL 1,5/3 SCHWARZ	05.562.2653.0	100						
ADF 2,5/4 GELB	04.343.6053.8	10						
AD 8113/4 GELB	04.343.6853.8	10						
DIN 5264 B 0,6x3,5	06.502.4000.0	5						
	05.561.0053.0	100						
PSWKC/F	Z1.299.9753.0							
ZP/APPS	07.312.6053.0							
	01.299.9753.0							

Disconnect blocks with spring clamp connection, type **WKF**

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Fuse plug:

Nominal voltage: 250 V ~ to VDE 0820 T2/IEC 257
Nominal current: – 6.3 A for single blocks
– 4 A for neighbouring blocks

Max. power loss of the fuse insert: 1.6 W

Indicator (24 V): LED color red
current consumption: 10.3 mA

Indicator (110 - 220 V): LED color red
current consumption: 0.3 mA

*) The current load is determined by the fuse. The voltage range is determined by the built-in LED.

**) The current load is determined by the component installed

***) For use with 5 x 20 mm fuses

Periodic peak voltage 1000 V

Direction of the diode: Anode Cathode¹⁾
Cathode Anode²⁾

EN 60 947-7-1, EN 60 127-6

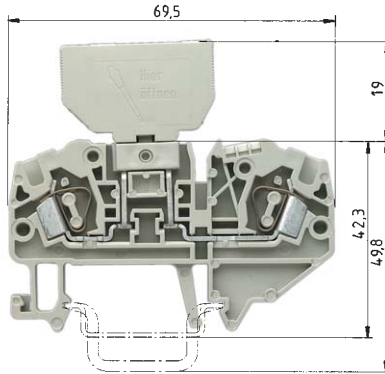
UL ratings

CSA ratings

Width

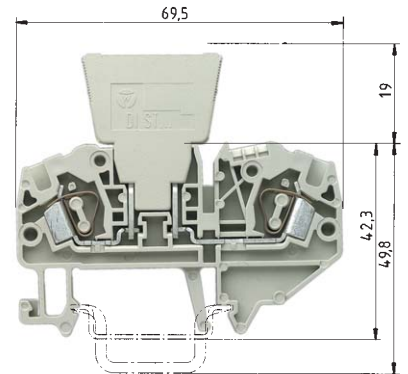
Wire strip length

Approvals



WKF 4 TKG/35 with fuse holder

fine stranded	solid	V	A
0.13 – 4 mm ²	0.13 – 6 mm ²	800 V/8 kV/3*)	*)
No. 22-10 AWG		600 V	10***)
No. 22-10 AWG		300 V	6.3***)
6 mm			11 mm



WKF 4 TKG/35 with diode plug

fine stranded	solid	V	A
0.13 – 4 mm ²	0.13 – 6 mm ²	800 V/8 kV/3	**)
No. 22-10 AWG		600 V	10**)
No. 22-10 AWG		600 V	10**)
6 mm			11 mm



Disconnect block			Type	Part no.	Std. pack.	Type	Part no.	Std. pack.
Color: gray			WKF 4 TKG/35	56.704.4053.0	100	WKF 4 TKG/35	56.704.4053.0	100
Fuse holder for fuse 5 x 20			Si ST	Z1.299.4055.0				
Color: gray			Si ST LED	Z1.299.4155.0	10			
Color: gray			Si ST GL	Z1.299.4255.0				
Diode plug – empty	J _{max} = 10 A	Color: gray				DIST ...	Z1.299.3055.0	
Diode plug – diode	J _{max} = 1 A	Color: gray				DIST-1 N 4007-1 ¹⁾	Z1.299.3155.0	
Diode plug – diode	J _{max} = 1 A	Color: gray				DIST-1 N 4007-2 ²⁾	Z1.299.3355.0	
Diode plug with jumper	J _{max} = 10 A	Color: gray				DIST-D	Z1.299.3255.0	
Accessories								
1. Mounting rail 35, 7.5 mm high	L = 2 m		35x27x7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m		35x24x15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m		35 x 27 x 15	98.370.0000.0	1	35 x 27 x 15	98.370.0000.0	1
2. End clamp TS 35, with screw	8 mm wide		9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, screwless	8 mm wide		WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray		APF 4 TK	07.312.2853.0	10	APF 4 TK	07.312.2853.0	10
4. Partition plate								
5. Cross connector	2pole		IVB WKF 4-2	Z7.261.1227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
insulated (jumper bar)	3pole		IVB WKF 4-3	Z7.261.1327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole		IVB WKF 4-4	Z7.261.1427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole		IVB WKF 4-5	Z7.261.1527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole		IVB WKF 4-6	Z7.261.1627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole		IVB WKF 4-7	Z7.261.1727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole		IVB WKF 4-8	Z7.261.1827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole		IVB WKF 4-9	Z7.261.1927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole		IVB WKF 4-10	Z7.261.2027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Wire entry guide	0.13 – 0.2 mm ²		LEL 4/1 WEISS	05.561.8553.0	100	LEL 4/1 WEISS	05.561.8553.0	100
	0.25 – 0.5 mm ²		LEL 4/2 GRAU	05.561.8653.0	100	LEL 4/2 GRAU	05.561.8653.0	100
	0.75 – 1.0 mm ²		LEL 4/3 SCHWARZ	05.561.8753.0	100	LEL 4/3 SCHWARZ	05.561.8753.0	100
7. Cover with warning symbol over 4 blocks			ADF 4/4 GELB	04.343.6153.8	10	ADF 4/4 GELB	04.343.6153.8	10
8. Screwdriver, uninsulated			DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
Marking accessories see page 48/49 and page 90/91								

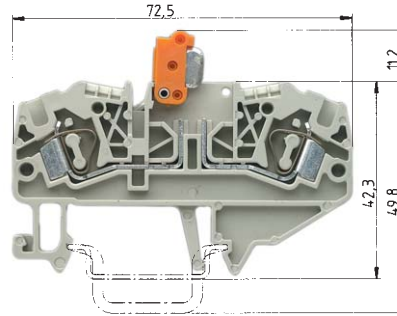
Knife edge disconnect block with spring clamp connection, type WKF

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fastis

The disconnecting knife in these WKF versions swing in and out on a pivot point. The distinctive color of the disconnecting lever signals the open state. The terminals can be connected with the lever open or closed.



WKF 4 TKM/35

EN 60 947-7-1/DIN VDE 0611 T1

UL ratings

CSA ratings

Width

Approvals

Wire strip length

fine stranded	solid	V	A
0.13 – 4 mm ²	0.13 – 6 mm ²	800 V/8 kV/3	16
No. 22-10 AWG		600 V	20
No. 22-10 AWG		600 V	20
6 mm			11 mm

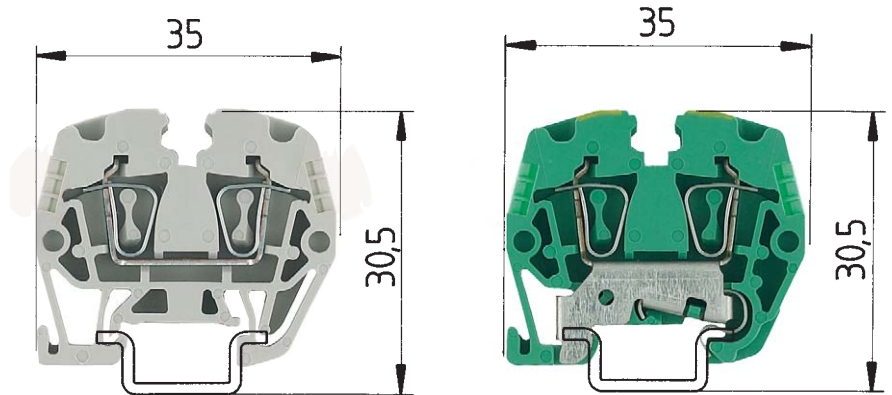


		Type	Part no.	Std. pack.
Knife edge disconnect block	Color: gray	WKF 4 TKM/35	56.704.2053.0	100
Accessories				
1. Mounting rail 35, 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 27 x 15	98.370.0000.0	1
2. End clamp TS 35	8 mm wide	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APF 4 TKM	07.312.4353.0	10
4. Partition plate				
5. Cross connector	2pole	IVB WKF 4-2	Z7.261.1227.0	10
insulated (jumper bar)	3pole	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 4-9	Z7.261.1927.0	20
	10pole	IVB WKF 4-10	Z7.261.2027.0	20
6. Wire entry guide	0.13 - 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100
	0.25 - 0.5 mm ²	LEL 4/2 GRAU	05.561.8653.0	100
	0.75 - 1.0 mm ²	LEL 4/3 SCHWARZ	05.561.8753.0	100
7. Cover with warning symbol over 4 blocks		ADF 4/4 GELB	04.343.6153.8	10
8. Screwdriver, uninsulated		DIN 5264 B 0,6x3,5	06.502.4000.0	5

Mini spring terminals, type WKMF

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EN 60 947-7-1

UL ratings

CSA ratings

Width

Approvals

field/factory wiring

Wire strip length

WKMF 2.5/15

fine stranded solid V A
0.13–2.5 mm² 0.13–2.5 mm² 500 V/6kV/3 24
No. 26-12 AWG 600 V 20
No. 26-12 AWG 300 V 20
5 mm 10 mm
UL pending

WKMF 2.5 SL/15

fine stranded solid V A
0.13–2.5 mm² 0.13–2.5 mm² 500 V/6kV/3 24
No. 26-12 AWG 600 V 20
No. 26-12 AWG 300 V 20
5 mm 10 mm
UL pending

	Type	Part no.	Std. pack.	Type	Part no.	Std. pack.
Feed-through terminal Color: gray	WKMF 2,5/15	55.703.0053.0				
Feed-through terminal Color: blue	WKMF 2,5/15	55.703.0053.6				
Ground terminal Color: green/yellow				WKMF 2,5 SL/15	55.703.9053.0	
Accessories						
1. Mounting rail 15, 5.5 mm high L = 2 m	9021/15x5,5 EN 60715	98.090.0015.0	10	9021/15x5,5 EN 60715	98.090.0015.0	10
2. End clamp TS 15, metal 7.5 mm wide	9222	Z5.522.5010.0	100	9222	Z5.522.5010.0	100
End clamp TS 15, polyamide 7.5 mm wide	9208 S 15	Z5.522.7553.0	100	9208 S 15	Z5.522.7553.0	100
3. End plate 1.5 mm wide Color: gray	APMF 2,5/15	07.312.5953.0		APMF 2,5/15	07.312.5953.0	
1.5 mm wide Color: blue						
1.5 mm wide Color: green						
4. Partition plate 1.5 mm wide Color: gray						
1.5 mm wide Color: blue						
5. Cross connector 2pole IVB WKMF 2,5 – 2	Z7.260.0229.0					
insulated (jumper bar) 3pole	IVB WKMF 2.5 – 3	Z7.260.0329.0				
4pole	IVB WKMF 2.5 – 4	Z7.260.0429.0				
5pole	IVB WKMF 2.5 – 5	Z7.260.0529.0				
6pole	IVB WKMF 2.5 – 6	Z7.260.0629.0				
7pole	IVB WKMF 2.5 – 7	Z7.260.0729.0				
8pole	IVB WKMF 2.5 – 8	Z7.260.0829.0				
9pole	IVB WKMF 2.5 – 9	Z7.260.0929.0				
10pole	IVB WKMF 2.5 – 10	Z7.260.1029.0				
50pole	IVB WKMF 2.5 – 10	Z7.260.0029.0				
6. Wire entry guide 0.13 – 0.2 mm ²						
0.25 – 0.5 mm ²						
0.75 – 1.0 mm ²						
7. Cover with warning symbol for 4 terminals						
8. Screwdriver, uninsulated	DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5
Screwdriver, uninsulated, MINI	DIN 5264 B 0,6x3,5 M	06.502.5000.0	10	DIN 5264 B 0,6x3,5 M	06.502.5000.0	10
Marking accessories see page 48/49 and page 90/91						

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Sensor and actuator blocks with spring clamp connection, type WKF 1.5 KO...

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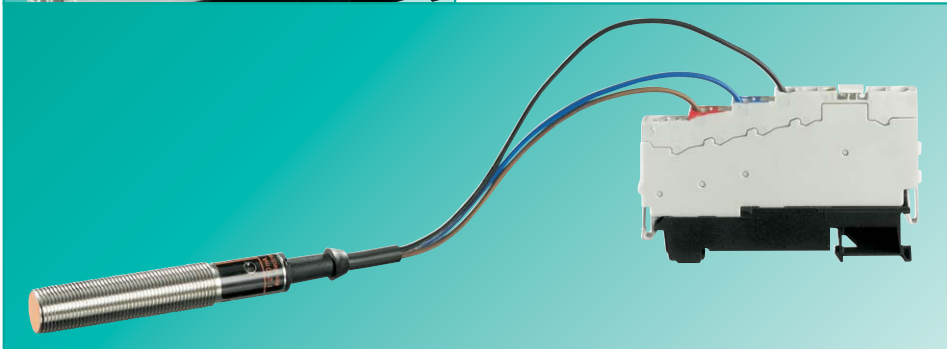
System advantages

- Built in Bus System on the base module for power distribution (+, -, shield)
- Separate terminal for power input
- 35 mm DIN rail or panel mount
- Individual blocks can be replaced without interrupting power to the other sensor and actuator blocks
- Clear wiring with TOP connection, even in narrow spaces
- Compact design

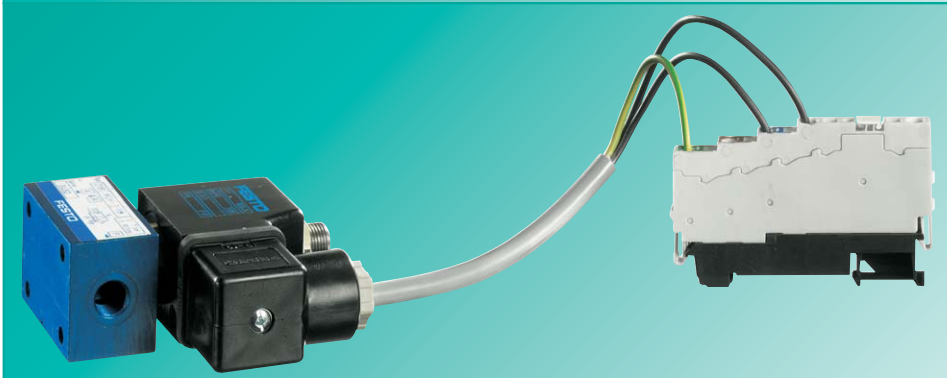
Application advantages

- Snapping a sensor or actuator terminal into the base module automatically establishes direct contact to the bus bar
- No external jumper bars required
- The configuration of the base module matches standard I/O cards of PLC's with 8 or 16 I/O
- Modifications and expansions can be easily and quickly done
- Safe and easy connection of sensors and actuators

R 8 sensors or actuators can be terminated in a 45 x 65 mm (1.75" x 2.5") area



- Sensor block WKF 1.5 KOI 3L... for the connection of proximity switches



- Actuator block WKF 1,5 KOA 2L... for the connection of actuators such as solenoid valves



- Sensor/Actuator terminals available with yellow LED for switch status indication
- Power input terminals available with green LED for "Power On" indication

- Easy maintenance and remote troubleshooting of the electrical system



Cross connection (Jumpering)

- Potential commoning is achieved by snapping the blocks on to the base module
- Dead front safety covers for unused termination points

Wire entry guides

- Recommended for wires smaller than 18 AWG
- Prevent the wires from being inserted beyond the optimal clamping point for safe and secure connections

Marking facilities

- Single marking tag in 5-mm spacing
- Marking strips (10 single marking tags) to the snap on to the terminal blocks
- Tear-off marking strips for 3-digit marking facilities per block
- Custom marking upon request

DQS certificates for all products

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

Metal parts

Special alloys and surface treatments provide low contact resistance and high corrosion resistance

Clamping spring: stainless CrNi steel
Current Carrying bar: tin-plated copper

Insulating material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housing: Polyamide 66/6

Tracking resistance: CTI 600

Flammability class: UL 94 V-2

(see also section **facts & DATA**)

Our **wieplan** software helps to plan your DIN rail terminal block assemblies (see page 10/11).

Note

The information regarding cross-sectional areas and connection types pertains to wires without ferrules. Ferrules are not necessary for secure connection.

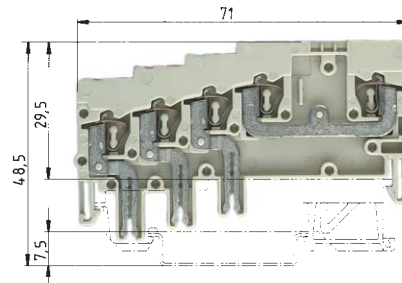
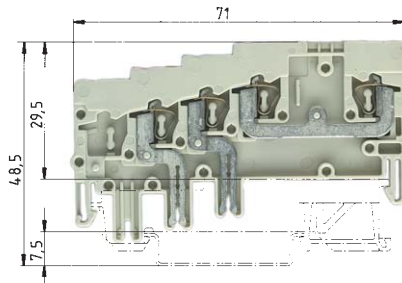
The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

A detailed description of technical data, the standards requirements, and the application conditions can be found in catalog section **facts & DATA**.

Sensor and actuator blocks with spring clamp connection, type **WKF 1.5 KO...**

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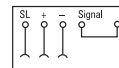
37.702.7453.0
* 65 V/1,5 kV/3



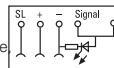
37.702.8453.0
* DC 24 V
same as picture, but with LED



37.702.7553.0
* 65 V/1.5 kV/3



37.702.8553.0
* DC 24 V
same as picture, but with LED



WKF 1.5 KOI 3L...

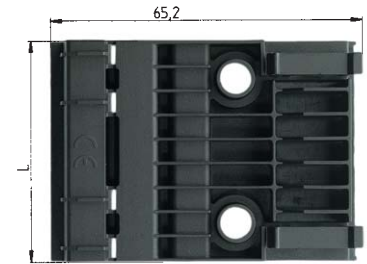
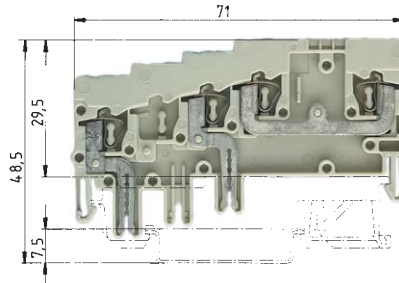
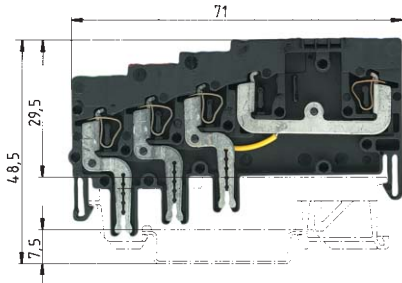
fine stranded	solid	V	A
0.13 – 1.5 mm ²	0.13 – 1.5 mm ²	*	10
No. 28-16 AWG			65 V
10 A			
5 mm			10 mm

WKF 1.5 KOI 3L/SL...

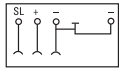
fine stranded	solid	V	A
0.13 – 1.5 mm ²	0.13 – 1.5 mm ²	*	10
No. 28-16 AWG			65 V
10 A			
5 mm			10 mm

EN 60 947-7-1/DIN VDE 0611 T1
UL ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

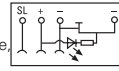
		Type	Part no.	Std. pack.	Type	Part no.	Std. pack.
Sensor block	Color: gray	WKF 1,5 KOI 3L	37.702.7453.0	50			
Sensor block with LED (PNP)	Color: gray	WKF 1,5 KOI 3L-PGE	37.702.8453.0	50			
Sensor block	Color: gray				WKF 1,5 KOI 3L/SL	37.702.7553.0	50
Sensor block with LED (PNP)	Color: black				WKF 1,5 KOI 3L/SL-PGE	37.702.8553.0	50
Supply block	Color: black						
Supply block with LED	Color: gray						
Actuator block	Color: gray						
Actuator block with LED	Color: gray						
Connection module for 9 blocks	Color: black						
Connection module for 18 blocks	Color: black						
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate							
4. Partition plate							
5. Cross connector	2pole						
insulated (jumper bar)	3pole						
	4pole						
	5pole						
	6pole						
	7pole						
	8pole						
	9pole						
	10pole						
6. Wire entry guide	0.13 – 0.2 mm ²	LEL 1,5/1 WEISS	05.562.2453.0	100	LEL 1,5/1 WEISS	05.562.2453.0	100
	0.25 – 0.5 mm ²	LEL 1,5/2 GRAU	05.562.2553.0	100	LEL 1,5/2 GRAU	05.562.2553.0	100
	0.75 – 1.0 mm ²	LEL 1,5/3 SCHWARZ	05.562.2653.0	100	LEL 1,5/3 SCHWARZ	05.562.2653.0	100
7. Cover for connection module							
8. Screwdriver, uninsulated		DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5
Marking accessories see page 48/49 and page 90/91							



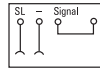
37.702.7753.0
* 65 V/1.5 kV/3



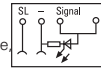
37.702.8753.0
* DC 24 V
same as picture,
but with LED



37.702.7653.0
* 65 V/1.5 kV/3



37.702.8653.0
* DC 24 V
same as picture,
but with LED



WKF 1.5 KOE...

fine stranded	solid	V	A
0.13 – 1.5 mm ²	0.13 – 1.5 mm ²	*	10
No. 28-16 AWG		65 V	
10 A			
5 mm		10 mm	

WKF 1.5 KOA 2L...

fine stranded	solid	V	A
0.13 – 1.5 mm ²	0.13 – 1.5 mm ²	*	10
No. 28-16 AWG		65 V	
10 A			
5 mm		10 mm	

VM WKF...

	V	A
	*	10
	65 V	10 A

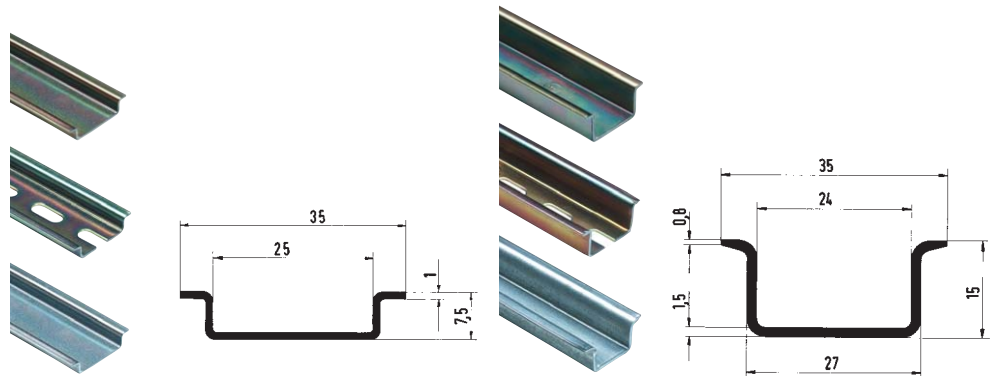
9pole module
18pole module

L = 9 x 5 mm + 1.5 mm
L = 18 x 5 mm + 1.5 mm

Type	Part no.	Std. pack.	Type	Part no.	Std. pack.	Type	Part no.	Std. pack.
WKF 1,5 KOE	37.702.7753.0	50	WKF 1,5 KOA 2L	37.702.7653.0	50	VM WKF KO..9	69.700.0953.0	10
WKF 1,5 KOE-PGN	37.702.8753.0	50	WKF 1,5 KOA 2L/SL-PGE	37.702.8653.0	50	VM WKF KO..18	69.700.1853.0	5
35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
LEL 1,5/1 WEISS	05.562.2453.0	100	LEL 1,5/1 WEISS	05.562.2453.0	100	AD VM-1,5/8 SCHWARZ	04.343.8053.0	10
LEL 1,5/2 GRAU	05.562.2553.0	100	LEL 1,5/2 GRAU	05.562.2553.0	100			
LEL 1,5/3 SCHWARZ	05.562.2653.0	100	LEL 1,5/3 SCHWARZ	05.562.2653.0	100			
DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5			

Accessories for DIN rail terminal blocks with spring clamp connection, type WKF

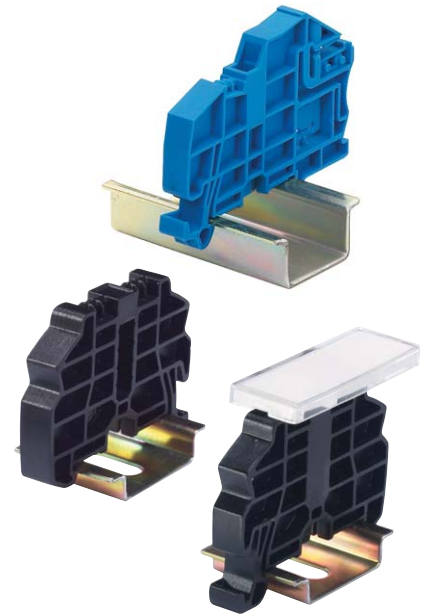
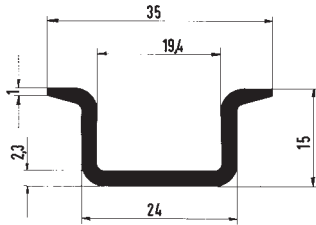
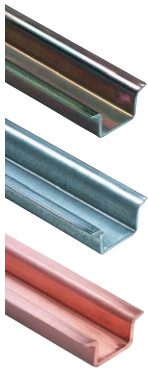
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Mounting Rail 35 x 7.5
to standard DIN EN 60715

Mounting Rail 35 x 15
to standard DIN EN 60715

Mounting Rail			Type	Part no.	Std. pack.	Type	Part no.	Std. pack.
1.	Steel zinc plated, dichromate	solid L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 15 EN 60715	98.370.0000.0	1
	Steel zinc plated, dichromate	slotted L = 2 m	35 x 27 x 7,5 EN 60715	98.300.1000.0	1	35 x 27 x 15 EN 60715	98.370.1000.0	1
2.	Steel, unplated	solid L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0010.0				
	Steel, unplated	slotted L = 2 m						
3.	Steel, zinc plated	solid L = 2 m						
	Steel, zinc plated	slotted L = 2 m						
4.	Copper	solid L = 2 m						
	Copper	slotted L = 2 m						
5.	Aluminum	solid L = 2 m	35 x 27 x 7,5 EN 60715	98.750.0000.0				
	Aluminum	slotted L = 2 m	35 x 27 x 7,5 EN 60715	98.800.1000.0				
6.	Stainless steel	solid L = 2 m	35 x 27 x 7,5 EN 60715	98.330.0000.0				
End clamp								
7.	End clamp with screw for 35 mm rail	8 mm wide						
8.	End clamp with screw for 35 mm rail							
	with marking plate	8/17.5 mm wide						
9.	End clamp, screwless, for 35 mm rail	8 mm wide						
10.	End clamp, screwless, for 35 mm rail							
	with marking plate	8/17.5 mm wide						
	for terminal rails							
11.	Bus bar holder	8 mm wide						
	Busbar support, with screw	8 mm						
12.	Clamping screw for mounting rail							
13.	Optional label carrier							
14.	Paper Markers in perforated sheet form							
	(1 sheet = 100 Marking tags)							



Mounting Rail 35 x 15 to standard DIN EN 60715

End clamp for TS 35 with screw connection

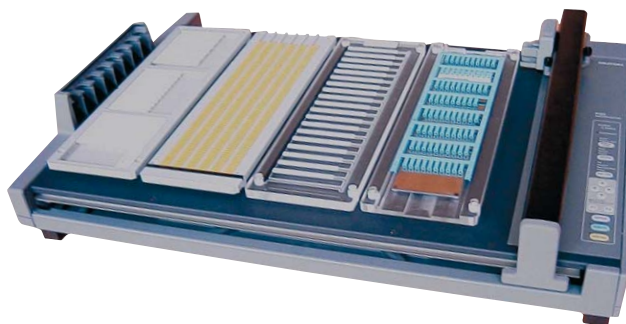
End clamp for TS 35 screwless connection

Type	Part no.	Std. pack.	Type	Part no.	Std. pack.	Type	Part no.	Std. pack.
35 x 27 x 15 EN 60715	98.360.0000.0	1						
35 x 27 x 15 EN 60715 ZN	98.360.0004.0	1						
35 x 27 x 15 EN 60715 CU	98.380.0000.0	10						
			9708/2 S 35	Z5.522.8553.0	100			
			9708/2 BS/35	69.920.0553.0	100			
						WEF 1/35	Z5.523.9353.0	100
						WEF 1 BS/35	69.920.1053.0	100
						WKIF SH/E/35	Z1.108.8453.0	10
							69.920.1153.0	
							05.091.0200.0	
						BSIR	Z4.243.8453.0	
							04.019.0289.0	10
				04.019.0289.0	10			

Marking accessories for DIN rail terminal blocks

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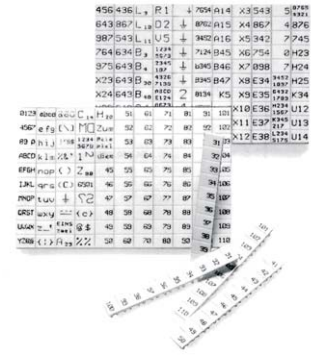


wiemarc

Type	Part no.	Std. pack
wiemarc CD	95.502.0501.0	
Description		
<p>wiemarc is a Windows® based plotter software (Windows 95/98/ME/NT/XP) that is able to drive the following plotter systems:</p> <ul style="list-style-type: none"> – wieplot MUT (Mutoh system) – Roland system <p>for custom printing on standard Wieland marking tags.</p> <p>wiemarc makes preparing data for custom printing easier and faster than ever. Intuitive handling allows printing of marking tag cards in single, multipole and series marking jobs. Import of marking data from Excel files, text files and CAD/CAE programs is possible. wiemarc data file management is user-friendly as printing data can be stored and found very easily in the file library. wiemarc knows several special characters for electrical marking. wiemarc is able to mark tags with upward or downward series, series steps can be chosen as well as leading or following characters. Multipole line printing is possible depending on tag size, number of digits and type size. Automatic adaptation of type size according to tag size and number of digits.</p> <p>Requirements: Pentium II PC or compatible, min. 200 MHz or higher, 64 MByte RAM, CD-ROM Drive, VGA Grafic Adaptor and Monitor</p> <p>wiemarc supports Windows 95®, Windows 98®, Windows 2000®, Windows NT®, Windows ME® and Windows XP® Professional.</p>		

wieplot MUT

Type	Part no.	Std. pack
wieplot MUT	95.502.0601.0	
Description		
<p>wieplot MUT is a plotter system that uses wiemarc to interface with a PC, allowing custom printing on standard Wieland marking tags. These standard marking tags provide circuit identification for Wieland DIN rail mount terminal blocks, rectangular multipole connectors and WEB/WEG electronic housings.</p> <p>Resolution: 0.025 mm Accuracy: +/- 0.1 mm Power supply: 50/60 Hz, 180 – 264 V, 90 – 132 V Automatic switch over from 110 V to 230 V Power rating: About 0.3 A for 220 V Approvals: UL-UL478 (REV .4) CSA-22.2 No. 220 and VDE EN 60 950 Interference: FCC Class B FCC Part 15 and VDE Class B Dimensions: 620 mm x 425 mm x 106.5 mm Weight: 6.4 kg Interfaces: RS-232 C and parallel (Centronics)</p>		
Standard template	95.502.0621.0	for all Wieland tags



Accessories

Type	Part no.	Std. pack	Type	Part no.	Std. pack
Accessory kit consists of plotter pen 0.25 mm, Ink-cartridge, permanent plotter pen 0.3 mm and cleaning set.			Marker Cards:		
Accessory kit (pen basic equipment)	95.502.0602.0		110 tags per card		
			9075 A/5/10/11	Z4.242.5053.0	
			60 tags per card		
			9075 AL/5/10/6	Z4.242.5153.0	
Plotter pens for ROLAND and wieplot MUT systems:			110 tags per card		
Plotter pen 0.18 mm	95.502.0118.0		9075 A/6/10/11	Z4.242.6053.0	
Plotter pen 0.25 mm	95.502.0125.0		60 tags per card		
Plotter pen 0.35 mm	95.502.0135.0		9075 AL/6/10/6	Z4.242.6153.0	
Plotter pen 0.50 mm	95.502.0150.0		84 tags per card		
Plotter pen 0.70 mm	95.502.0170.0		9075 A/6.7/12/7	Z4.242.6753.0*	
Plotter pen 1.00 mm	95.502.0100.0		36 tags per card		
			9075 AL/6.7/12/7	Z4.242.6853.0*	
			* must use multi-card template		
Permanent Plotter pen			9075 A/8/10/7	Z4.242.8053.0*	
0.30 mm black	95.502.0230.0				
0.70 mm black	95.502.0270.0				
Permanent Plotter pen set					
consisting of black, red, blue, green pen.					
set 0.30 mm	95.502.0234.0				
set 0.70 mm	95.502.0274.0				
Hand pens					
Hand pen 0.25 mm	95.502.0425.0				
Hand pen 0.35 mm	95.502.0435.0				
Hand pen 0.50 mm	95.502.0450.0				
Hand pen 0.70 mm	95.502.0470.0				
Ink cartridge P1.0 5 x 1 ml	95.502.0199.0				
Cleaning set	95.502.0198.0				
Pen cleaner	95.502.0197.0				
wiemarc-Templates for Wieland cards:					
for updating existing plotter systems to wiemarc					
for marcom 2000 and Phoenix CMS-System	95.502.0621.0				
for Weidmueller M-Print (Mutoh IP 220)	95.502.0622.0				
for murrplastic ACS (Roland DXY1150A) set high	95.502.0623.0				
for Wago System and murrplastic ACS set low	95.502.0624.0				

	9075A/5/10/11	9075AL/5/10/6	9075A/6/10/11	9075AL/6/10/6	9075A/6.7/12/7	9075AL/6.7/12/7	9075A/8/10/7
fasis							
WKf 2.5 ...	X	X					
WKf 4 ...			X	X			
WKf 6 ...					X	X*	X
WKf 10 ...	X*	X*					
WKf 16 ...			X*	X*			
WKMF 2.5 ...	X	X					
taris							
WKc 1 ...	X	X					
WKc 2.5 ...			X	X			
selos							
WK 2.5 ...	X	X					
WK 4 ...			X	X			
WK 6 ...					X*	X*	X
WKN 10 ...	X*	X*					
WKN 16 ...			X*	X*			
WKN 35 ...					X*	X*	X*
WKN 70 ...					X*	X*	
WKm 2.5 ...	X	X					
WKm 4 ...			X	X			
9220 A/6			X	X			
9700 A/5	X	X					
9700 A/6			X	X			
9700 A/8					X*	X*	X
9700 A/10	X*	X*					
9700 A/12			X*	X*			
9700 A/16					X*	X*	

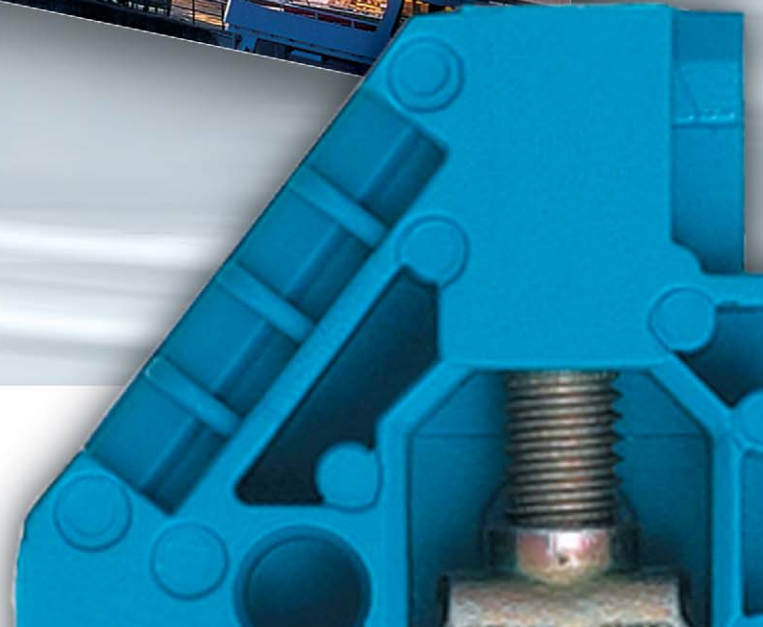
* 2 strips needed for 10 terminals
+ markers must be mounted individually
Note: the AL-markers are 69% longer than the A-markers
AL/6.7 is twice as long to allow more printing area

Terminal blocks for electrical installations
type *WKI*

fasis BIT



Terminal Blocks for Electrical Installations, Type WKI



Terminal blocks for electrical installations

2.5 mm²

(12 AWG)



D



D-D



D-D-SL



N-D-SL



NT-D-SL



Standard terminal blocks

4 mm²
(10 AWG)

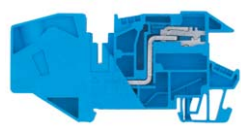
10 mm²
(6 AWG)

16 mm²
(4 AWG)

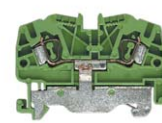
Feed-through blocks



Neutral disconnect blocks



Ground blocks



Terminal blocks for electrical installations

4 mm²
(10 AWG)



DU



D-D



D-D-SL



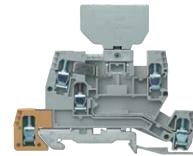
N-D-SL



NT-D-SL



NTN-D-SL



TKG-D-SL

	4 mm ² (10 AWG)	10 mm ² (6 AWG)	16 mm ² (4 AWG)	35 mm ² (2 AWG)
Feed-through blocks				
Neutral terminal blocks				
Ground blocks				

Standard terminal blocks

PEN assembly blocks

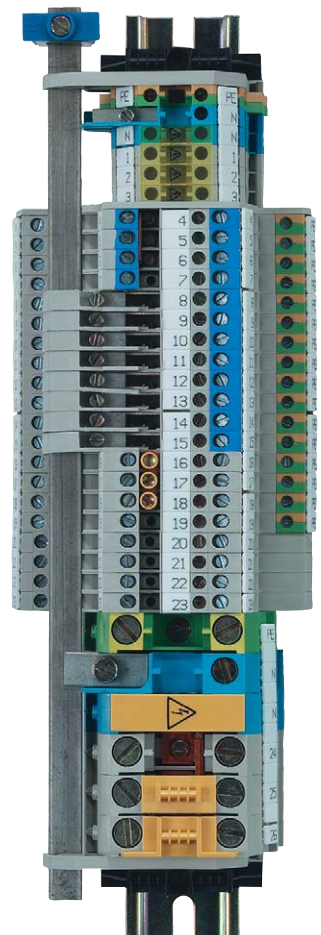
10 mm²
(6 AWG)



16 mm²
(4 AWG)

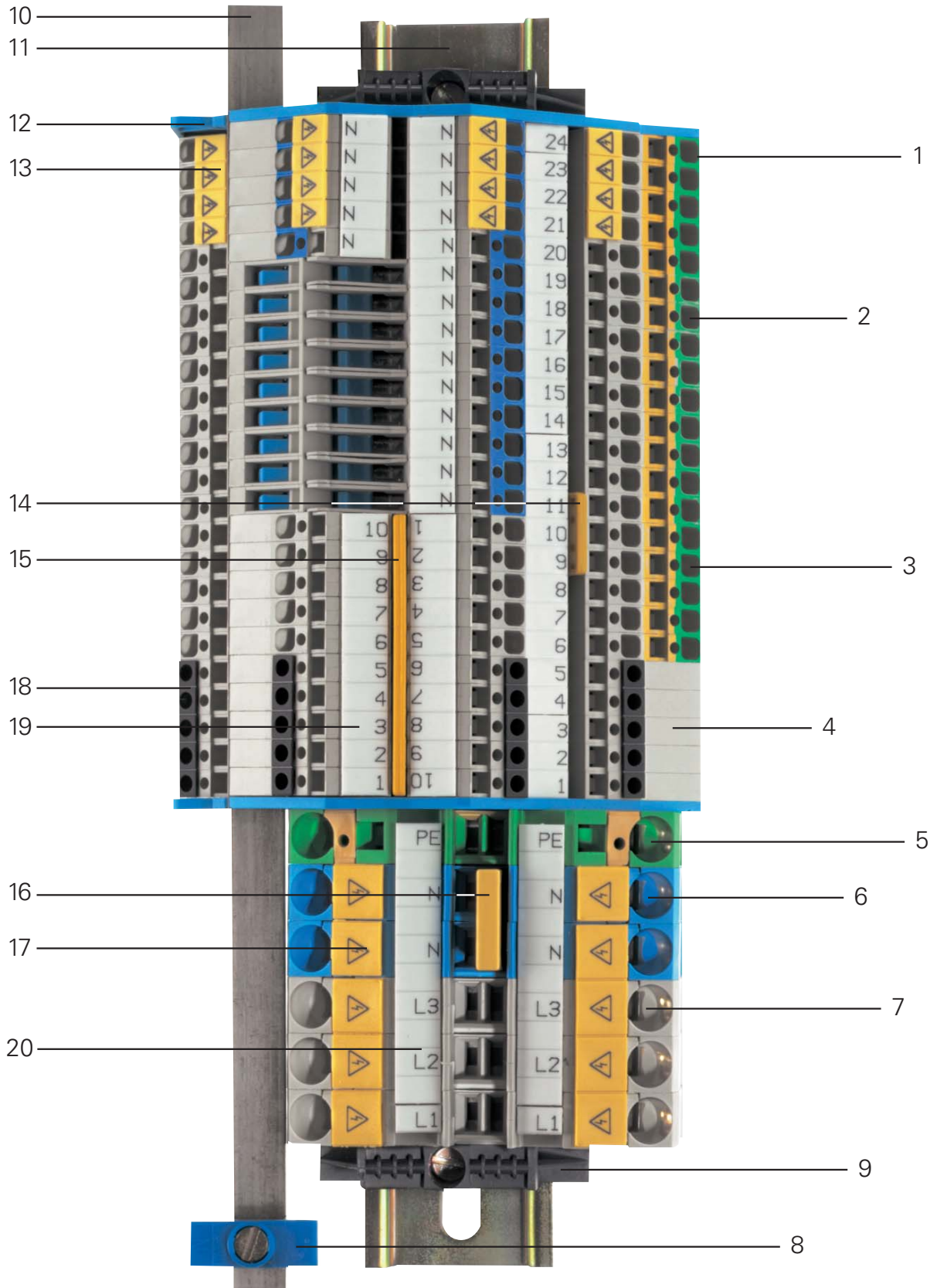


35 mm²
(2 AWG)



Terminal blocks for electrical installations with spring connection, type WKIF

fasis BIT



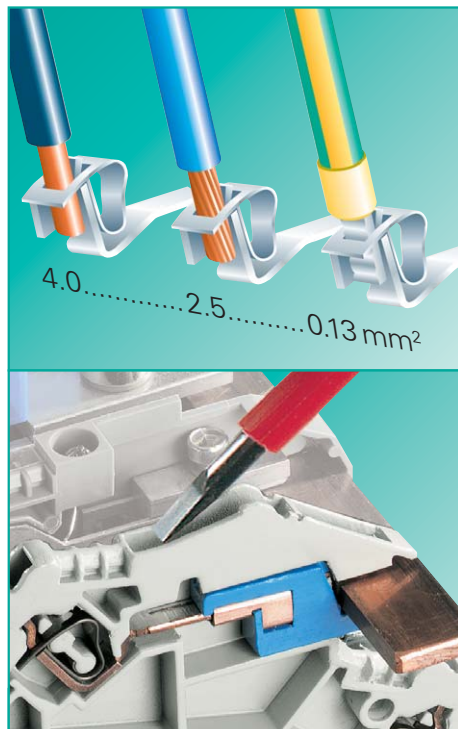
Item	Description	Type	Part number
1	Installation blocks	WKIF 2.5 N-D-SL	56.703.9453.0
2	Installation blocks	WKIF 2.5 NT-D-SL	56.703.9553.0
3	Installation blocks	WKIF 2.5 D-D-SL	56.703.9853.0
4	Installation blocks	WKIF 2.5 D-D	56.703.9753.0
5	Ground block	WKF 10 SL/35	56.710.9053.0
6	Feed through block	WKF 10/35 BLAU	56.710.0053.6
7	Feed through block	WKF 10/35	56.710.0053.0
8	Connector clamp	WAK 16/2 BLAU	30.494.3021.6
9	End clamp	9708/2 S35	Z5.522.8553.0
10	Busbar 10x3	9813 M Sn	98.290.1000.0
11	Mounting rail	35x27x7.5	98.300.0000.0
12	Busbar support	WKIF/SH/35	01.108.7653.0
13	Cover with warning symbol	ADF 2.5/4 GELB	04.343.6053.8
14	Cross connector, insulated	IVB WKF 2.5-3	Z7.280.6327.0
15	Cross connector, insulated	IVB WKF 2.5-10	Z7.280.7027.0
16	Cross connector, insulated	IVB WKF 10-2	Z7.283.8227.0
17	Cover with warning symbol	ADF 10/4 GELB	04.343.6453.8
18	Wire entry guide	LEL 2.5/3 SCHWARZ	05.561.6753.0
19	Marking strips *	9705 A/5/10 B	04.842.5053.0
20	Marking strips *	9705 A/5/10/5 B	04.842.5553.0

*Custom marking upon request



Terminal blocks for electrical installations with spring connection, type WKIF

fasis BIT

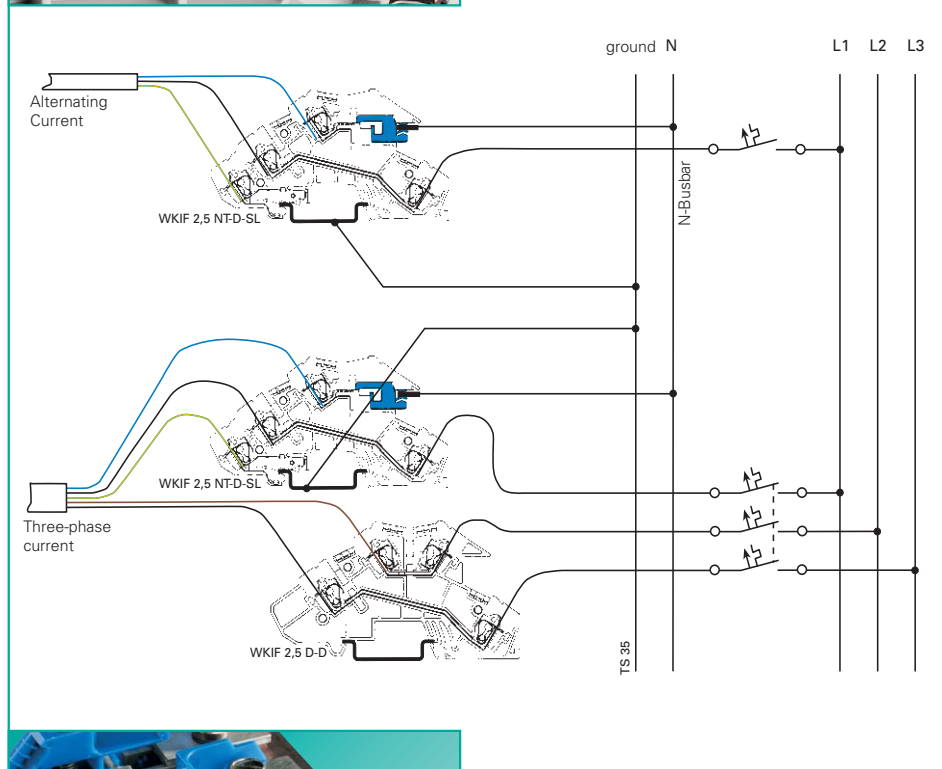


WKIF provides ...

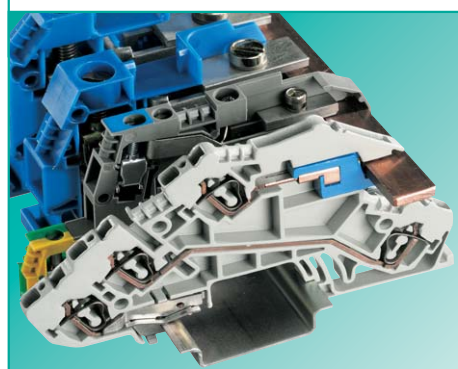
- Very convenient operation due to screwless spring connection
- Small package in a three-tier design
- Screwless neutral conductor disconnect

Application advantages

- The TOP connection technique enables easy and safe wiring according to EN 60947-7-1 even in narrow spaces which are difficult to access
- High density as the installation blocks are only 5mm wide
- Suited for small junction boxes with cover according to DIN 43871
- Maintenance-friendly design for after-sales service and inspection
- Blue indicator shows the state of the neutral circuit
- Fast and safe disconnection of the neutral conductor with WKIF 2.5 NT-D-SL

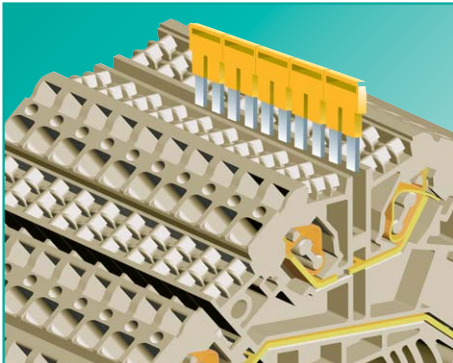


- fasis BIT** is designed to meet the wiring and installation requirements of distribution systems in commercial and institutional buildings (such as hospitals, schools, shopping malls, theaters, office buildings, airports) according to VDE 0100 (IEC 60364) and standard control requirements.
- WKIF 2.5 NT-D-SL allows the required circuit isolation test without disconnecting the neutral conductor
- WKIF offers installation terminal blocks in 5 versions:
 - WKIF 2.5 D
 - WKIF 2.5 D-D
 - WKIF 2.5 D-D-SL
 - WKIF 2.5 N-D-SL
 - WKIF 2.5 NT-D-SL
- other applications include control wiring. For example, analog signal (+, -, shield) all in one terminal block.



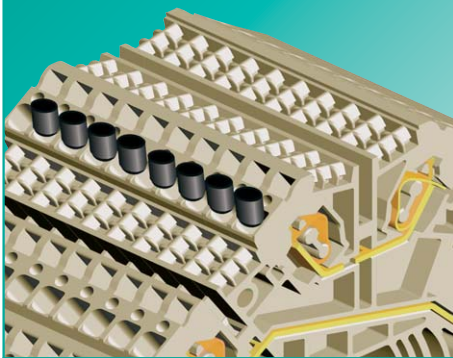
- Connection slot on the terminal block for the neutral busbar.

- The terminal blocks for electrical installations of the WKIF series in the NT version can be combined with ...
 - ...the terminal blocks of the WKI series (screw connection style)
 - ...the neutral disconnect blocks (ETK) of the WKN series (screw connection style)



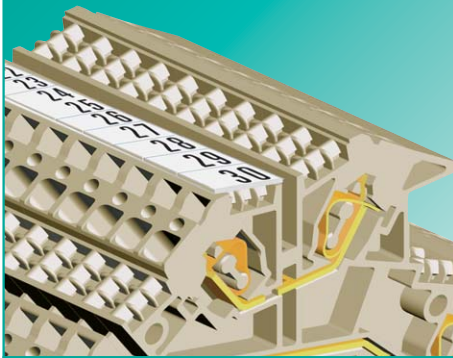
Cross connection

- Jumpering with insulated cross connector **IVB WKF 2.5...**
- No partition plates required between adjacent cross connectors
- Cross connectors **IVB WKF 2.5...** are rated for the same current as the terminal block



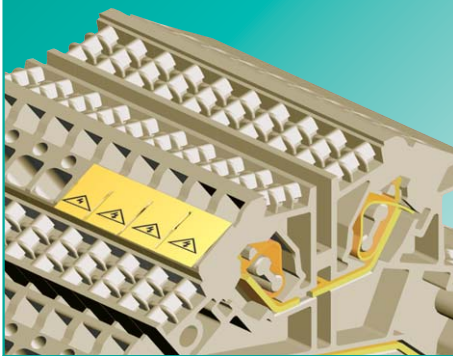
Wire entry guide

- Wire entry guides **LEL** are recommended when connecting wires with cross sections below 1 mm² or 18 AWG
- Wire entry guides **LEL** prevent the wires from being inserted beyond optimal clamping position and therefore guarantee safe connection



Marking facilities

- Marking facility is down the center so that the marking tag is not covered by the conductor
- Tear-off marking strips for 3-digit marking facilities per block
- Single marking tags in 5 mm spacing
- Marking strips (10 individual marking tags) to snap on to 10 terminal blocks
- Custom marking upon request



Cover with warning symbol

- Cover with warning symbol **ADC** to snap on to blocks which remain live when the main switch is disconnected (VDE 0113)
- Can only be removed with a screwdriver

DQS certificates for all company divisions

- Quality standard as per DIN ISO 9001 in development, production and assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

Metal parts

Special alloys enable a low contact resistance and provide a gas-tight contact area

Clamping spring: stainless CrNi steel
Current carrying bar: tin-plated copper

Insulation material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housings: Polyamide 66/6

Tracking current resistance: CTI 600

Flammability class: UL 94-V0

(also see master catalog section **facts & DATA**)

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

Note:

The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

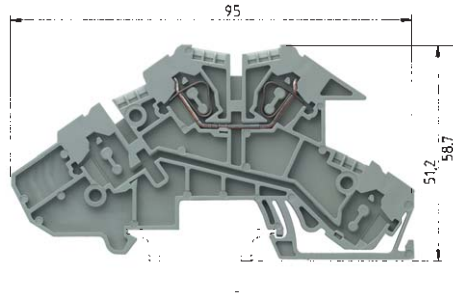
A detailed description of technical data, the standards' requirements, and the application conditions can be found in part catalog section **facts & DATA**: "Technical information".



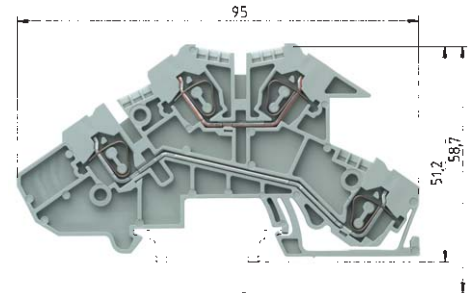
Terminal blocks for electrical installations, type WKIF

fasis BIT

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Upper tier equipped only!
D – line feedthrough, upper tier



D – line feedthrough
D – line feedthrough

WKIF 2.5 D

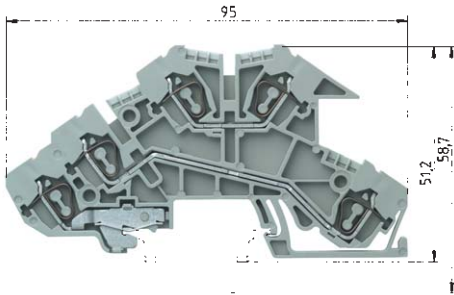
fine stranded solid V A
0.13 – 2.5 mm² 0.13 – 4 mm² 400 V/6 kV/3 24
UL
No. 22-12 AWG 300 V 20
5 mm 11 mm

WKIF 2.5 D-D

fine stranded solid V A
0.13 – 2.5 mm² 0.13 – 4 mm² 400 V/6 kV/3 24
UL
No. 22-12 AWG 300 V 20
5 mm 11 mm

EN 60947-7-1/DIN VDE 0611 T1
UL ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

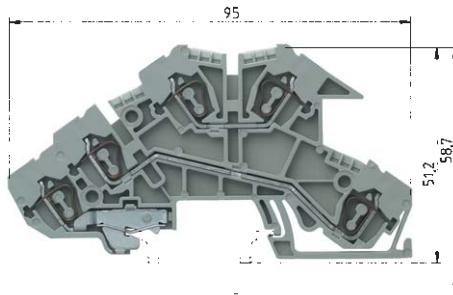
Installation block	Color: gray	Type	Part no.	Std. pack	Type	Part no.	Std. pack
		WKIF 2,5 D	56.703.9653.0	50	WKIF 2,5 D-D	56.703.9753.0	50
Accessories							
1. Mounting rail TS 35, DIN rail 7.5mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp for TS 35, without screws	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	1.5 mm wide	APIF 2,5	07.311.8353.0	10	APIF 2,5	07.311.8353.0	10
4. Cross connector, insulated jumper bar	2pole	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 2,5-2	Z7.280.6227.0	10
	3pole	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 2,5-3	Z7.280.6327.0	10
	4pole	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 2,5-4	Z7.280.6427.0	10
	5pole	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 2,5-5	Z7.280.6527.0	10
	6pole	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 2,5-6	Z7.280.6627.0	10
	7pole	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 2,5-7	Z7.280.6727.0	20
	8pole	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 2,5-8	Z7.280.6827.0	20
	9pole	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 2,5-9	Z7.280.6927.0	20
	10pole*	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 2,5-10	Z7.280.7027.0	20
5. Wire entry guide	0.13 – 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100
	0.25 – 0.5 mm ²	LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100
	0.75 – 1.0 mm ²	LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100
6. Cover with warning symbol over 4 blocks		ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10
7. Busbar, E-Cu 10 x 3 mm, tin-plated	L = 1 m	9813 M Sn	98.290.1000.0	1	9813 M Sn	98.290.1000.0	1
8. Connector clamp for busbar							
	16 mm ² 8.5 mm wide	WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100
	35 mm ² 17 mm wide	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
9. Busbar support	2 mm wide	WKIF/SH/35	01.108.7653.0	10	WKIF/SH/35	01.108.7653.0	10
Busbar support, as end clamp	8 mm wide	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
10. Screwdriver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
Marking accessories see page 48/49 and page 90/91		*Available up to 20 poles					



D – line feedthrough
D – line feedthrough
SL – ground

WKIF 2.5 D-D-SL

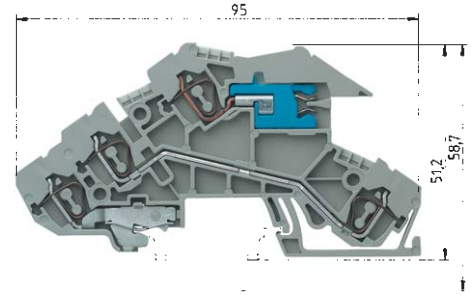
fine stranded	solid	V	A
0.13 – 2.5 mm ²	0.13 – 4 mm ²	400V/250V/4 kV/3	24
UL			
No. 22-12 AWG		300 V	20
5 mm			11 mm



D – line feedthrough
N – line feedthrough
SL – ground

WKIF 2.5 N-D-SL

fine stranded	solid	V	A
0.13 – 2.5 mm ²	0.13 – 4 mm ²	400V/250V/4 kV/3	24
UL			
No. 22-12 AWG		300 V	20
5 mm			11 mm



D – line feedthrough
NT – neutral feedthrough, disconnectable
SL – ground

WKIF 2.5 NT-D-SL

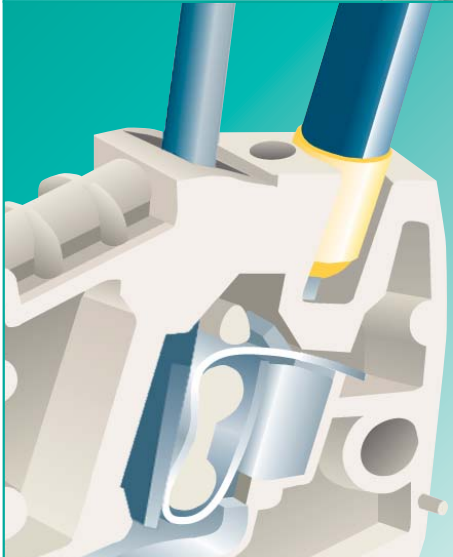
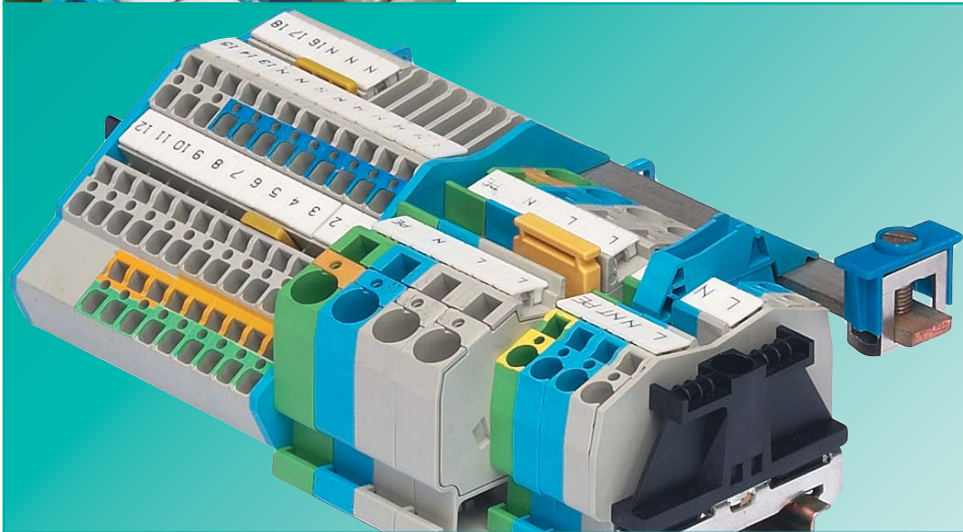
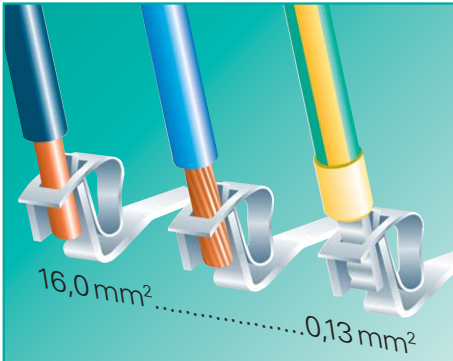
fine stranded	solid	V	A
0.13 – 2.5 mm ²	0.13 – 4 mm ²	400V/250V/6 kV/3	20
UL			
No. 22-12 AWG		300 V	20
5 mm			11 mm

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKIF 2,5 D-D-SL	56.703.9853.0	50	WKIF 2,5 N-D-SL	56.703.9453.0	50	WKIF 2,5 NT-D-SL	56.703.9553.0	50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
APIF 2,5	07.311.8353.0	10	APIF 2,5	07.311.8353.0	10	APIF 2,5	07.311.8353.0	10
IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 2,5-2	Z7.280.6227.0	10
IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 2,5-3	Z7.280.6327.0	10
IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 2,5-4	Z7.280.6427.0	10
IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 2,5-5	Z7.280.6527.0	10
IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 2,5-6	Z7.280.6627.0	10
IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 2,5-7	Z7.280.6727.0	20
IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 2,5-8	Z7.280.6827.0	20
IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 2,5-9	Z7.280.6927.0	20
IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 2,5-10	Z7.280.7027.0	20
LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100
LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100
LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100
ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10
9813 M Sn	98.290.1000.0	1	9813 M Sn	98.290.1000.0	1	9813 M Sn	98.290.1000.0	1
WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100
WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
WKIF/SH/35	01.108.7653.0	10	WKIF/SH/35	01.108.7653.0	10	WKIF/SH/35	01.108.7653.0	10
WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5

DIN rail terminal blocks with spring connection, type **WKF**

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

fasis BIT



WKF provides ...

- Spring connection technology – screwless connection**
Separation of electrical and mechanical functions
- TOP connection**
Wire entry and operation in same plane
- Testing capabilities**
- Neutral conductor disconnect function**
- Economic system**

Connection capabilities

The clamping bodies of the WKFseries can take in any copper conductor types without ferrules
Due to the construction of the funnelled wire entry, stripped wires can be connected without causing wire splitting, provided that they are used in the proper way

Tool

For an optimal operation of our terminal blocks with spring connection we recommend to use the following DIN 5264 screwdrivers
i.e. cylinder-shaped screwdrivers with wedge-shaped blades

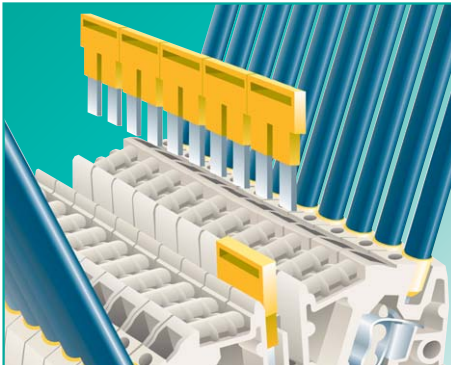
Application advantages

- **Dynamic terminal connection**
Balances the cold flow properties of the connection
- **Personnel cannot influence the clamping force** (no torque specs)
The clamping force required to connect a certain conductor, is determined by the spring element at the clamp
- **Secure and maintenance-free electrical connection**
according to EN 60947-7-1
- **Clear wiring in difficult and confined wiring applications**
- **Testing is possible on all** termination points by means of test plugs of up to 2.3 mm in diameter without having to disconnect the wires
- **Screwless disconnect unit**
Easy and safe disconnection of the neutral circuit with visual display of the circuit state
- **Time-saving due to pluggable accessories**

- fasis** BIT is designed to meet the wiring and connection requirements of distribution systems in commercial and institutional buildings (such as hospitals, schools, shopping malls, theaters, office buildings, airports) according to IEC 60364
- The neutral disconnect blocks of the WKIF/WKF series enable the required circuit isolation test without disconnecting the neutral conductor
- fasis** BIT is suited for small junction boxes with cover according to DIN 43871

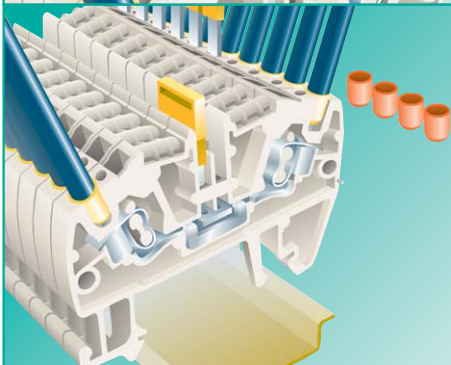
- Both solid and stranded wires with and without ferrules can be connected to the WKF terminal blocks

→	Rated cross section	Blade dimensions of the screwdrivers
12 AWG	2.5 mm ²	0.6 x 3.5 mm
10 AWG	4 mm ²	0.6 x 3.5 mm
6 AWG	10 mm ²	0.8 x 4.0 mm
	16 mm ²	1.0 x 5.5 mm



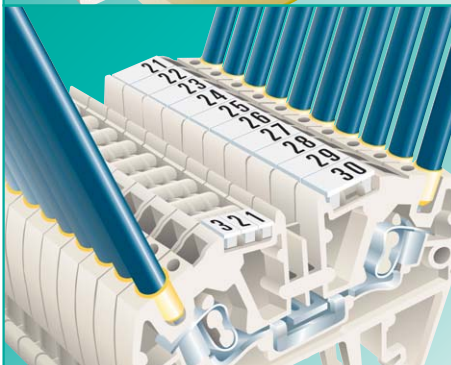
Cross connection

- The insulated jumper bars **IVB** WKF... are completely touchproof
- Partition plates are therefore not required between adjacent jumper bars of different potentials
- The insulated jumper bars **IVB** WKF... carry the same rated current as the corresponding feed through terminal block



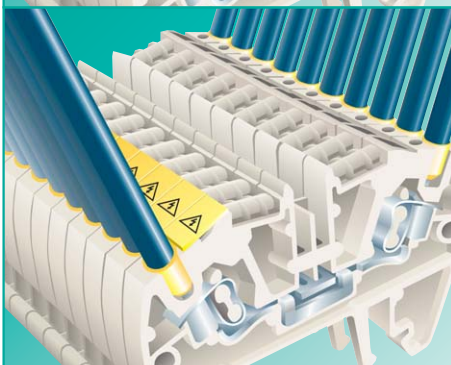
Wire entry guides

- Wire entry guides **LEL** are recommended when connecting wires with cross sections below 1 mm² or 18 AWG
- Wire entry guides **LEL** keep the wires from being inserted too far and therefore guarantee safe connection



Marking facilities

- Marking facility is down the center so that the marking tag is not covered by the conductor
- Individual marking tag in 5mm spacing
- Snap-on marking strips (10 individual marking tags) for terminal block assemblies
- Tear-off marking strips for 3-digit marking facilities per block
- Custom marking upon request



Cover with warning symbol

- Cover with warning symbol **ADC** to snap on to blocks which remain live when the main switch is disconnected (VDE 0113)
- The cover can only be removed with a screwdriver

DQS certificates for all companydivisions

- Quality standard as per DIN ISO 9001 in development, production and assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

Metal parts

Special alloys enable a low contact resistance and provide a gas-tight contact area

Clamping spring: stainless CrNi steel

Current carrying bar: tin-plated copper

Insulation material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housings: Polyamide 66/6

Tracking current resistance: CTI 600

Flammability class:

WKF 4...	UL 94-V0
WKF 10...	UL 94-V0
WKIF 16...	UL 94-V2

(also see master catalog section **facts & DATA**)

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

Note:

The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

Ferrules are not required for safe connection!

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to, **For this purpose, Wieland** offers a large selection of appropriate accessories.

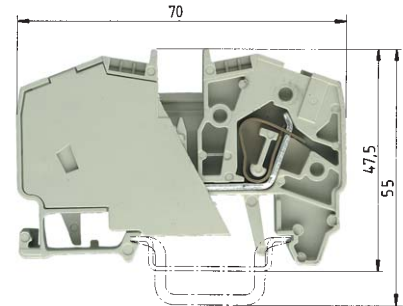
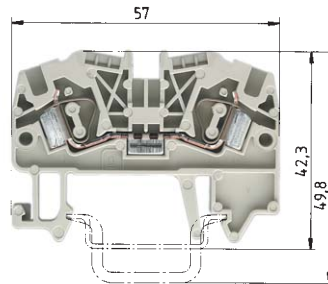
If the ground blocks of the WKF series are not used in block assemblies, but are mounted to the rail as single terminal blocks, end brackets have to be used.

A detailed description of technical data, the standards' requirements, and the application conditions can be found in part catalog section **facts & DATA**: "Technical information".



Feed-through blocks with spring connection for junction boxes, type WKF/WKIF

fasis BIT



EN 60 947-7-1/DIN VDE 0611 T1
 UL ratings field/factory wiring
 CSA ratings
 Width Wire strip length
 Approvals

WKF 4/35

fine stranded solid V A
 0.13 – 4 mm² 0.13 – 6 mm² 800 V/8 kV/3 32
 No. 22-10 AWG 600 V 20/30
 No. 22-10 AWG 600 V 35
 6 mm 11 mm



WKF 10/35

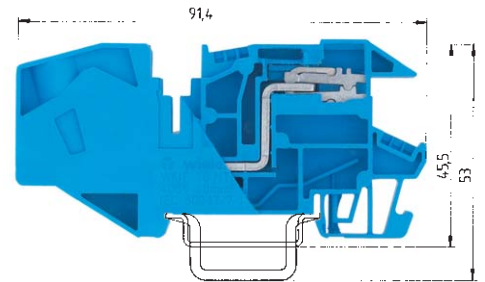
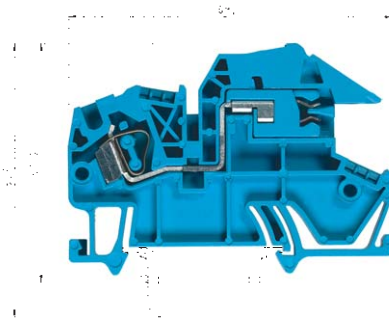
fine stranded solid V A
 2.5 – 10 mm² 2.5 – 10 mm² 800 V/8 kV/3 57
 No. 14-6 AWG 600 V 55
 No. 14-6 AWG 600 V 65
 10 mm 13 mm



	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed-through block Color: gray	WKF 4/35	56.704.0053.0	100	WKF 10/35	56.710.0053.0	50
Feed-through block Color: blue	WKF 4/35 BLAU	56.704.0053.6	100	WKF 10/35 BLAU	56.710.0053.6	50
Neutral disconnect block Color: blue						
Ground block Color: green/yellow						
Accessories						
1. Mounting rail TS 35, DIN rail 7.5 mm high L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, without screw 8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate Color: gray	APF 2,5 – 4	07.312.2153.0	10			
Color: blue	APF 2,5 – 4 BLAU	07.312.2153.6	10			
4. Partition plate Color: gray	TWF 2,5 – 4	07.312.2253.0	10			
Color: blue	TWF 2,5 – 4 BLAU	07.312.2253.6	10			
5. Cross connector insulated (jumper bar) 2pole	IVB WKF 4 – 2	Z7.261.1227.0	10	IVB WKF 10 – 2	Z7.283.8227.0	10
3pole	IVB WKF 4 – 3	Z7.261.1327.0	10			
4pole	IVB WKF 4 – 4	Z7.261.1427.0	10			
5pole	IVB WKF 4 – 5	Z7.261.1527.0	10			
6pole	IVB WKF 4 – 6	Z7.261.1627.0	10			
7pole	IVB WKF 4 – 7	Z7.261.1727.0	20			
8pole	IVB WKF 4 – 8	Z7.261.1827.0	20			
9pole	IVB WKF 4 – 9	Z7.261.1927.0	20			
10pole	IVB WKF 4 – 10	Z7.261.2027.0	20			
6. Wire entry guide 0.13 – 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100			
0.25 – 0.5 mm ²	LEL 4/2 GRAU	05.561.8653.0	100			
0.75 – 1.0 mm ²	LEL 4/3 SCHWARZ	05.561.8753.0	100			
7. Cover with warning symbol 4 blocks	ADF 4/4 GELB	04.343.6153.8	10	ADF 10/4 GELB	04.343.6453.8	10
8. Busbar, E-Cu 10x3 mm, tin-plated L = 1 m						
9. Connector clamp for busbar 8.5 mm wide						
17 mm wide						
10. Busbar support, as end clamp 8 mm wide						
11. Screwdriver, uninsulated	DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,8x4	06.502.4100.0	5
Marking accessories see page 48/49 and page 90/91						

Neutral disconnect blocks with spring connection for junction boxes, type WKF/WKIF

fasis BIT



EN 60 947-7-1; 1991/DIN VDE 0611 T1/08.92

UL ratings

CSA ratings

Width

Approvals

Wire strip length

WKF 4 NT/35

fine stranded	solid	V	A
0.13 – 4 mm ²	0.13 – 6 mm ²	400 V/6 kV/3	30
		600 V	20
No. 22-10 AWG		600 V	25
6 mm		11 mm	



WKIF 16 NT/35

fine stranded	stranded	V	A
4 – 16 mm ²	4 – 16 mm ²	400 V/6 kV/3	68
12 mm			16 mm

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed-through block	Color: gray						
Feed-through block	Color: blue						
Neutral disconnect block	Color: blue	WKF 4 NT/35	56.704.8153.0	100	WKIF 16 NT/35	56.716.8153.0	50
Ground block	Color: green/yellow						
Accessories							
1. Mounting rail TS 35, DIN rail 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, without screw	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray						
	Color: blue	APF 4 NT	07.312.5653.0	10			
	Color: green						
4. Partition plate							
5. Cross connector insulated	2pole	IVB WKF 4 – 2	Z7.261.1227.0	10	IVB WKIF 16 – 2	Z7.284.6227.0	10
(jumper bar)	3pole	IVB WKF 4 – 3	Z7.261.1327.0	10			
	4pole	IVB WKF 4 – 4	Z7.261.1427.0	10			
	5pole	IVB WKF 4 – 5	Z7.261.1527.0	10			
	6pole	IVB WKF 4 – 6	Z7.261.1627.0	10			
	7pole	IVB WKF 4 – 7	Z7.261.1727.0	20			
	8pole	IVB WKF 4 – 8	Z7.261.1827.0	20			
	9pole	IVB WKF 4 – 9	Z7.261.1927.0	20			
	10pole	IVB WKF 4 – 10	Z7.261.2027.0	20			
6. Wire entry guide	0.13 – 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100			
	0.25 – 0.5 mm ²	LEL 4/2 GRAU	05.561.8653.0	100			
	0.75 – 1.0 mm ²	LEL 4/3 SCHWARZ	05.561.8753.0	100			
7. Cover with warning symbols over 4 blocks		ADF 4/4 GELB	04.343.6153.8	10			
8. Busbar, E-Cu 10x3 mm, tin-plated	L = 1 m	9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1
9. Connector clamp for busbar	8.5 mm wide	WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100
	17 mm wide	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
10. Busbar support as, end clamp	8 mm wide	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
11. Screwdriver, uninsulated		DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 1x5	06.502.4200.0	5
Marking accessories see page 48/49 and page 90/91							

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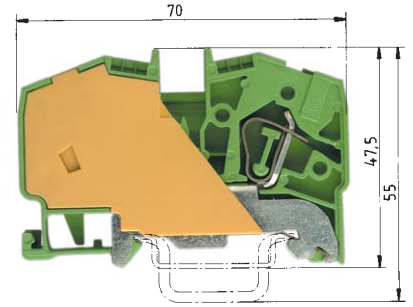
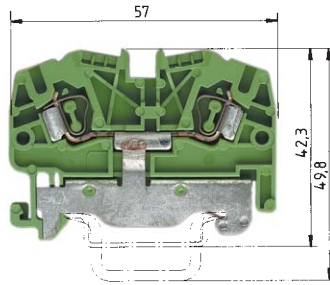
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Ground blocks with spring connection for junction boxes, type WKF/WKIF

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Ratings for adjacent feed-through blocks of same series and size
Current carrying capabilities of the mounting rails see catalog section **facts & DATA**

WKF 4 SL/35

fine stranded	solid	V	A
0.13 – 4 mm ²	0.13 – 6 mm ²	800 V/8 kV/3	32
No. 22-10 AWG		600 V	
No. 22-10 AWG		600 V	
6 mm			11 mm



Ratings for adjacent feed-through blocks of same series and size
Current carrying capabilities of the mounting rails see catalog section **facts & DATA**

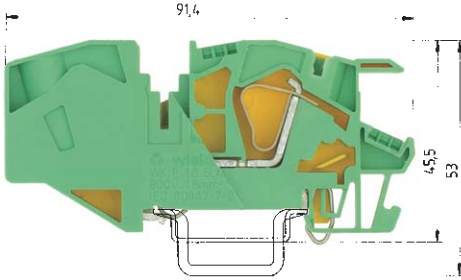
WKF 10 SL/35

fine stranded	solid	V	A
2.5 – 10 mm ²	2.5 – 10 mm ²	800 V/8 kV/3	57
No. 14-6 AWG		600 V	
No. 14-6 AWG		600 V	
10 mm			13 mm



EN 60 947-7-2/DIN VDE 0611 T3
UL ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed-through block Color: gray						
Feed-through block Color: blue						
Neutral disconnect block Color: blue						
Ground block Color: green/yellow	WKF 4 SL/35	56.704.9053.0	100	WKF 10 SL/35	56.710.9053.0	50
Accessories						
1. Mounting rail TS 35, DIN rail 7.5mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp for TS 35, without screws 8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate Color: gray						
Color: blue						
Color: green	APF 2,5-4 GRÜN	07.312.2153.7	10			
4. Partition plate Color: gray						
Color: blue						
5. Cross connector insulated 2pole						
(jumper bar) 3pole						
4pole						
5pole						
6pole						
7pole						
8pole						
9pole						
10pole						
6. Wire entry guide 0.13 – 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100			
0.25 – 0.5 mm ²	LEL 4/2 GRAU	05.561.8653.0	100			
0.75 – 1.0 mm ²	LEL 4/3 SCHWARZ	05.561.8753.0	100			
7. Cover with warning symbol over 4 blocks	ADF 4/4 GELB	04.343.6153.8	10	ADF 10/4 GELB	04.343.6453.8	10
8. Busbar, E-Cu 10 x 3 mm, tin-plated L = 1 m						
9. Connector clamp for busbar 8.5 mm wide						
	17 mm wide					
10. Busbar support, as end clamp 8 mm wide						
11. Screwdriver, uninsulated	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,8 x 4	06.502.4100.0	5
Marking accessories see page 48/49 and page 90/91						



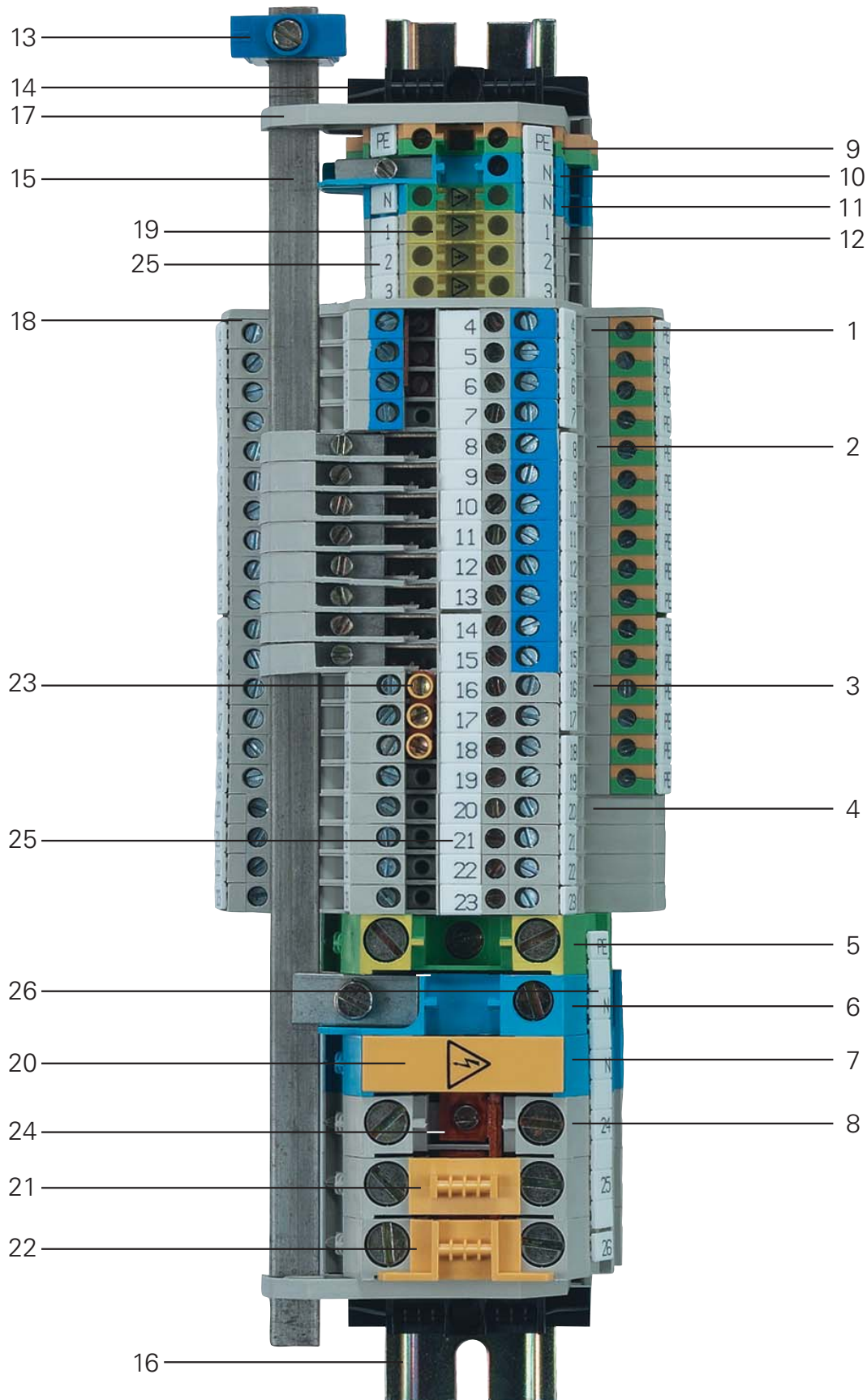
WKIF 16 SL/35

fine stranded stranded V A
4 – 16 mm² 4 – 16 mm² 800 V/8 kV/3 76
UL pending
No. 12-4 AWG 600 V
12 mm 16 mm

Type	Part no.	Std. pack
WKIF 16 SL/35	56.716.9153.0	50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100
WEF 1/35***)	Z5.523.9353.0	100
DIN 5264 B 1x5	06.502.4200.0	5

Terminal blocks for electrical installations
with screw connection, type WKI

selos BIT



selos

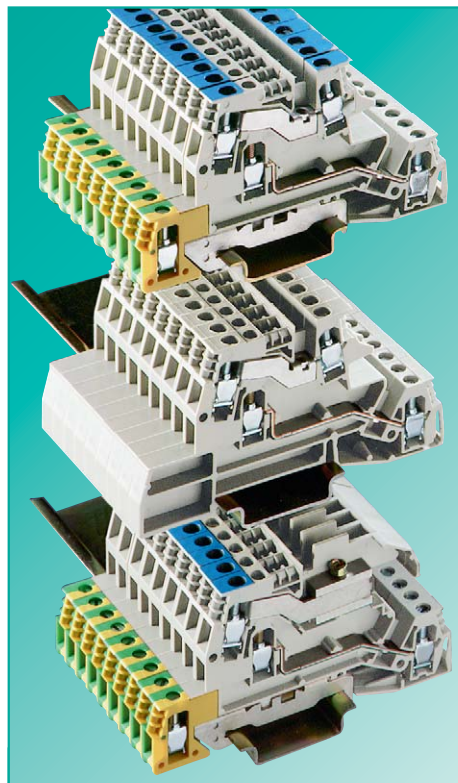
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selos BIT

Item Description	Type	Part number
1 Installation blocks	WKI 4 N-D-SL	56.404.9455.0
2 Installation blocks	WKI 4 NT-D-SL	56.404.9555.0
3 Installation blocks	WKI 4 D-D-SL	56.404.9855.0
4 Installation block	WKI 4 D-D	56.404.9755.0
5 Ground block	WKI 16 SL/35	56.516.9255.0
6 Neutral disconnect block	WKI 16 ETK/U	57.516.8255.0
7 Feed through block	WKI 16 /U BLAU	57.516.1155.6
8 Feed through block	WKI 16 /U	57.516.1155.0
9 Ground block	WK 4 SL/U	57.504.9055.0
10 Neutral disconnect block	WKN 4 ETK/U	57.504.8155.0
11 Feed through block	WK 4 /U BLAU	57.504.0055.6
12 Feed through block	WK 4 /U	57.504.0055.0
13 Connector clamp	WAK 16/2 BLAU	30.494.3021.6
14 End clamp	9708/2 S35	Z5.522.8553.0
15 Busbar 10x3	9813 M Sn	98.290.1000.0
16 Mounting rail	35x27x7.5	98.300.0000.0
17 Busbar support	WKI SH/U	01.108.3255.0
18 End plate	API 4/2	07.311.6555.0
19 Cover with warning symbol	AD 4/4 GELB	04.343.4856.8
20 Cover with warning symbol	ADI 16/1 GELB	04.325.8553.8
21 Cover with marking facility	AD VB 16 GELB	04.326.2453.8
22 Partition plate with marking facility	TS 16 GELB	07.311.2453.8
23 Cross connector, insulated (12pole)	IVB WKI 4-12	Z7.271.5227.0
24 Cross connector, uninsulated	VB WKI 16-3	Z7.289.0327.0
25 Marking strip	9705 A/6/10 B	04.842.6053.0
26 Marking strip	9705 A/6/10/5 B	04.842.6553.0

Terminal blocks for electrical installations with screw connection, type WKI

selos BIT

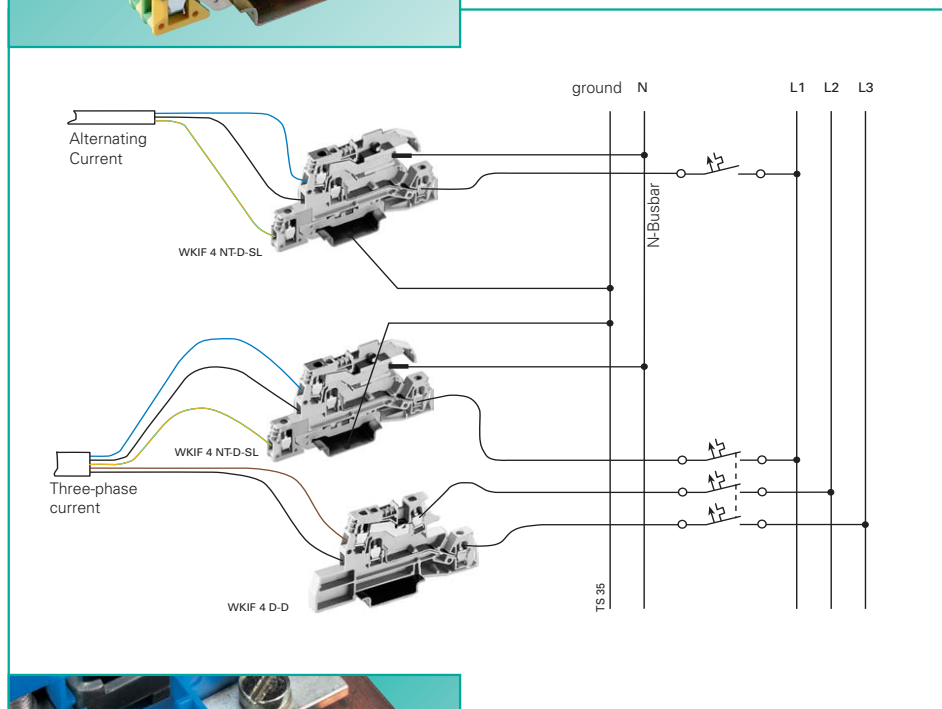


WKI provides ...

- Clear circuit identification
- Small dimensions in three-tier design
- Neutral conductor disconnect function
- All wire entry points in the same plane
- Mounting for TS 35 DIN rail
- Circuit protection via fuse
- Ground connection directly to the DIN rail

Application advantages

- Multiple circuits with color coding in one terminal block
- Best suited for small junction boxes with cover according to DIN 43871
- Fast and safe disconnection of the neutral conductor with WKI 4 NT-D-SL
- Easy wiring
- Sliding disconnect shows the state of the neutral circuit (open or closed)

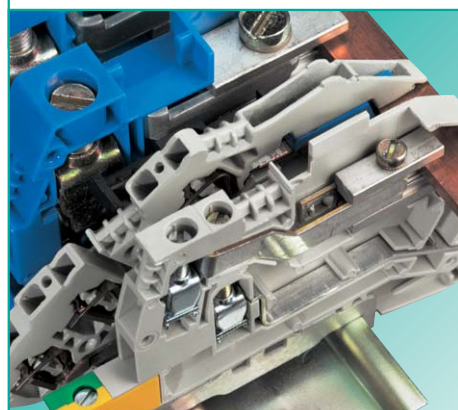


selos BIT is designed to meet the wiring and installation requirements of distribution systems in commercial and institutional buildings (such as hospitals, schools, shopping malls, theaters, office buildings, institutes, airports) according to IEC 60364 and standard control requirements

- WKI 4 NT-D-SL enables the required circuit isolation test without disconnecting the neutral conductor
- WKI provides installation blocks in 5 versions:
 WKI 4 DU
 WKI 4 D-D
 WKI 4 D-D-SL
 WKI 4 N-D-SL
 WKI 4 NT-D-SL

3 special variants:
 WKI 4 NT-D-SL-GL
 WKI 4 NTN-D-SL
 WKI 4 TKG-D-SL

Other applications include control wiring. For example WKI 4 TKG-D-SL signal in one terminal with fusing of the (+) circuit

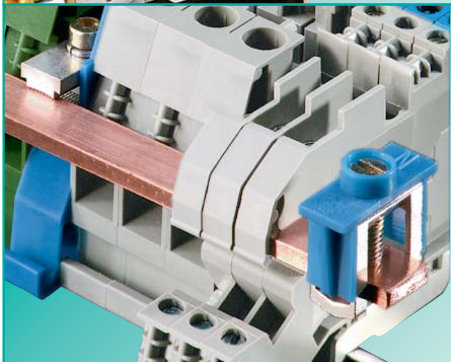
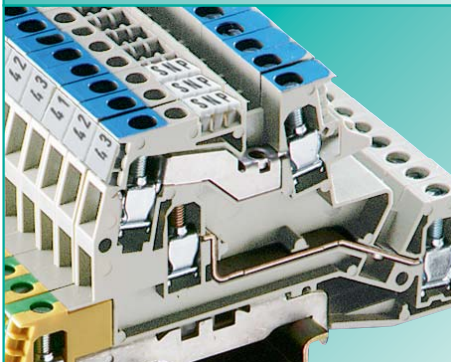
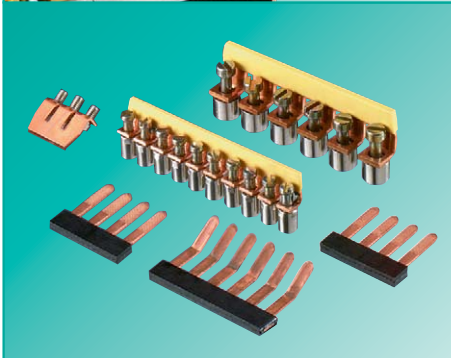
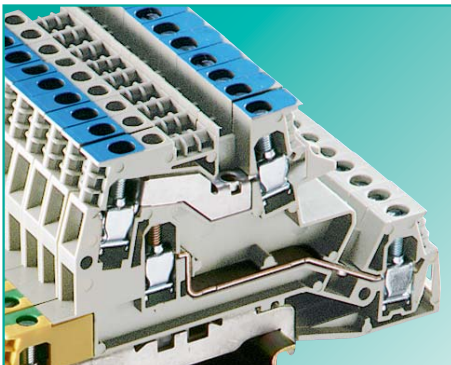


- Connection slot on the terminal block for the neutral busbar
- Captive hardware and vibration design

The terminal blocks for electrical installations of the WKI series in the NT version can be combined with ...

the terminal blocks of the WKIF series (spring connection technology)

the neutral disconnect blocks (ETK) of the WKN series (screw connection technology)



Jumpering with cross connectors

- Jumpering with insulated and uninsulated cross connectors (jumperbars)
- Cross connectors do not take up clamping space
- Uninsulated cross connectors can be cut to length
- When using cross connectors, end plates or partitions are required to maintain max. voltage rating
- Cross connectors come pre-assembled

Jumpering with jumper combs

- Jumpering with insulated jumper combs
- Jumper comb and conductor are inserted in the clamping body and clamped

Marking facilities

- Marking facility for each termination point
- Tear-off marking strips for 3-digit marking facilities per block
- Single marking tags in 5 mm spacing
- Marking strips (10 individual marking tags) to snap on to 10 terminal blocks
- Custom marking upon request

Connector clamps

- Connector clamps for busbar 10x3 mm (E-Cu, tin-plated)
- WAK 16/2... 0.75–16 mm²
- WAK 35/2... 16–35 mm²
- Clear identification of the circuit task when the external neutral conductor is connected to the busbar

DQS certificates for all company divisions

- Quality standard as per DIN ISO 9001 in Development, Production and Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

Metal parts

Special alloys enable a low contact resistance and provide a gas-tight contact area:

Clamping body/clamping screws: Steel, zinc-plated and dichromated

Current carrying bar: tin-plated copper

Insulation material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housings: Polyamide 66/6

Tracking current resistance: CTI 600

Flammability class: UL 94-V0

(also see master catalog section **facts & DATA**: Technical information)

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

Note:

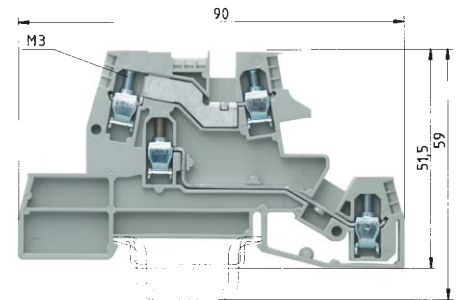
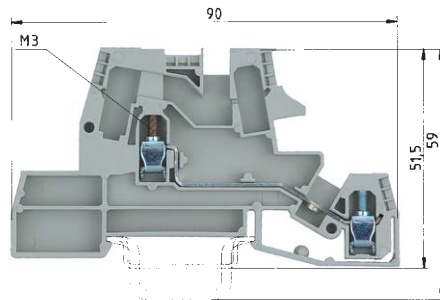
The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

A detailed description of technical data, the standards' requirements, and the application conditions can be found in part catalog section **facts & DATA**: "Technical information".

Terminal blocks for electrical installations with screw connection, type **WKI 4**

selos BIT



Grounding:

*1) For the current carrying capability of the mounting rail see catalog **facts & DATA**

DU – line feed through block:
lower contact equipped only

D – line feed through block
D – line feed through block

EN 60947-7-1/DIN VDE 0611 T1

EN 60947-7-2

UL ratings

CSA ratings

Width

Wire strip length

Approvals

WKI 4 DU

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	400 V/6 kV/3	26
No. 22-10 AWG		300 V	24
No. 22-10 AWG		300 V	25
6 mm			7 mm



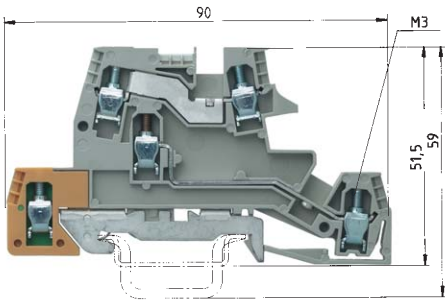
WKI 4 D-D

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	400 V/6 kV/3	26
No. 22-10 AWG		300 V	24
No. 22-10 AWG		300 V	25
6 mm			7 mm

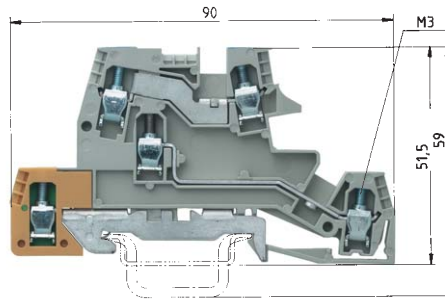


Installation block	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Color: gray				WKI 4 D-D	56.404.9755.0	50
Lower tier of installation block equipped only	WKI 4 DU	56.404.9655.0	50			
Installation block with indicator lamp (110 – 200 V)						
Accessories						
1. Mounting rail TS 35, DIN rail 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp, screwless 8 mm thick	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate 2 mm thick	API 4/2	07.311.6555.0	10	API 4/2	07.311.6555.0	10
4. Partition plate	TWI 4	07.311.6955.0	10	TWI 4	07.311.6955.0	10
5. Cross connector with screws, E-Cu						
uninsulated 2pole	9703/6-2	Z7.211.0227.0	50	9703/6-2	Z7.211.0227.0	50
to 6pole	9703/6-6	Z7.211.0627.0	50	9703/6-6	Z7.211.0627.0	50
insulated 12pole	IVB WKI 4-12	Z7.271.5227.0	10	IVB WKI 4-12	Z7.271.5227.0	10
Field divisible strip – uninsulated, 70pole	9703/6 M-70	Z7.211.0027.0	10	9703/6 M-70	Z7.211.0027.0	10
6. Busbar, E-Cu 10 x 3 mm, I _N = 140 A L = 1 m	9813 M	98.290.0000.0	1	9813 M	98.290.0000.0	1
Busbar, tin-plated, I _N = 140 A L = 1 m	9813 M Sn	98.290.1000.0	1	9813 M Sn	98.290.1000.0	1
7. Busbar support 4 mm wide	WKI/SH/U	01.108.3255.0	10	WKI/SH/U	01.108.3255.0	10
Busbar support 8 mm wide	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
8. Connector clamp for busbar						
16 mm ² 8.5 mm wide	WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100
35 mm ² 17 mm wide	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
9. Screwdriver, uninsulated	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
Marking accessories see page 48/49 and page 90/91						

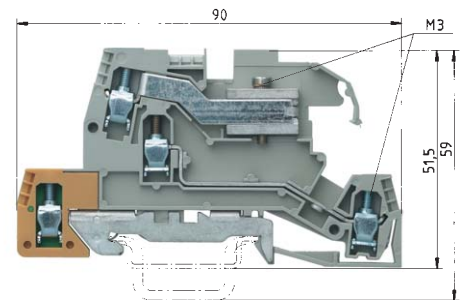
selos



D - line feed through block
D - line feed through block
SL - ground



N - neutral feed-through block
D - line feed through block
SL - ground



N - disconnect block
D - line feed through block
SL - ground
GL - indicator lamp

WKI 4 D-D-SL

fine stranded solid V A
0.5 - 4 mm² 0.5 - 6 mm² 400 V/6 kV/3 26*)
No. 22-10 AWG 300 V 24
No. 22-10 AWG 300 V 25
6 mm 7 mm



WKI 4 N-D-SL

fine stranded solid V A
0.5 - 4 mm² 0.5 - 6 mm² 400 V/6 kV/3 26*)
No. 22-10 AWG 300 V 24
No. 22-10 AWG 300 V 25
6 mm 7 mm



WKI 4 NT-D-SL (-GL)

fine stranded solid V A
0.5 - 4 mm² 0.5 - 6 mm² 400 V/6 kV/3 26*)
No. 22-10 AWG 300 V 24
No. 22-10 AWG 300 V 25
6 mm 7 mm



Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKI 4 D-D-SL	56.404.9855.0	50	WKI 4 N-D-SL	56.404.9455.0	50	WKI 4 NT-D-SL	56.404.9555.0	50
						WKI 4 NT-D-SL-GL	56.404.9255.0	50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
API 4/2	07.311.6555.0	10	API 4/2	07.311.6555.0	10	API 4/2	07.311.6555.0	10
TWI 4	07.311.6955.0	10	TWI 4	07.311.6955.0	10			
9703/6-2	Z7.211.0227.0	50	9703/6-2	Z7.211.0227.0	50	9703/6-2	Z7.211.0227.0	50
9703/6-6	Z7.211.0627.0	50	9703/6-6	Z7.211.0627.0	50	9703/6-6	Z7.211.0627.0	50
IVB WKI 4-12	Z7.271.5227.0	10	IVB WKI 4-12	Z7.271.5227.0	10	IVB WKI 4-12	Z7.271.5227.0	10
9703/6 M-70	Z7.211.0027.0	10	9703/6 M-70	Z7.211.0027.0	10	9703/6 M-70	Z7.211.0027.0	10
9813 M	98.290.0000.0	1	9813 M	98.290.0000.0	1	9813 M	98.290.0000.0	1
9813 M Sn	98.290.1000.0	1	9813 M Sn	98.290.1000.0	1	9813 M Sn	98.290.1000.0	1
WKI/SH/U	01.108.3255.0	10	WKI/SH/U	01.108.3255.0	10	WKI/SH/U	01.108.3255.0	10
WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100
WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5

*CL I, ZN1, AExe II

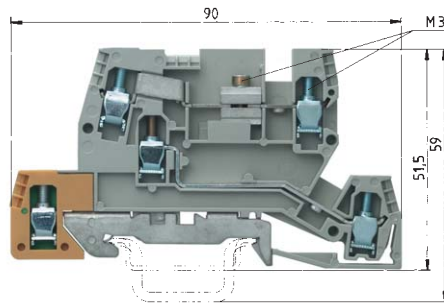
Terminal blocks for electrical installations with screw connection, type WKI 4

selos BIT

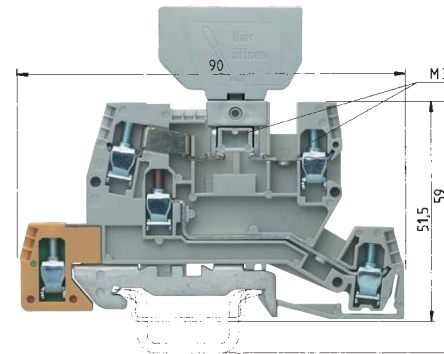
Fuse application:
Nominal current accord to VDE 0820 T2/EN 60 127-2 when using 1.6 W
– 6.3 A for single blocks
– 4 A for blocks mounted directly adjacent to each other
Voltage and current are determined by the LED and the fuse used in the end application

Ground application:
*) For the current carrying capability of the mounting rail see catalog **facts & DATA**

Busbar application:
Position these terminals at the beginning or end of the assembly when incorporating the busbar system



NTN – disconnect block
D – line feed through block:
SL – ground



TKG – fuse plug for 5 x 20 fuse
D – line feed through block:
SL – ground block

EN 60 947-7-1, EN 60 947-7-2

UL ratings

CSA ratings

Width

Wire strip length

Approvals

WKI 4 NTN-D-SL

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	400 V/6 kV/3	26*)
No. 22-10 AWG		300 V	24
No. 22-10 AWG		300 V	25
6 mm			7 mm

WKI 4 TKG-D-SL

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	400 V/6 kV/3	26*)
No. 22-10 AWG		300 V	12
No. 22-10 AWG		300 V	25
6 mm			7 mm

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Installation block	Color: gray	WKI 4 NTN-D-SL	56.404.9155.0 50	WKI 4 TKG-D-SL	56.404.8855.0 50	
Fuse holder for 5 x 20 fuse	Color: gray			Si ST	Z1.299.4055.0 10	
Fuse holder with indicator (24 V)	Color: gray			Si ST LED	Z1.299.4155.0 10	
Fuse holder with indicator (110 – 220 V)	Color: gray			Si ST GL	Z1.299.4255.0 10	
(G fuse-links DIN 41571, 250 V/6.3 A, 5 x 20 mm)						
Accessories						
1. Mounting rail TS 35, DIN rail 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp, screwless 8 mm thick	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate 2 mm thick	API 4/3	07.311.6855.0	10	API 4/3	07.311.6855.0	10
4. Partition plate						
5. Cross connector with screws, (jumper bar)						
uninsulated 2pole	9703/6-2	Z7.211.0227.0	50	9703/6-2	Z7.211.0227.0	50
to 6pole	9703/6-6	Z7.211.0627.0	50	9703/6-6	Z7.211.0627.0	50
insulated 12pole	IVB WKI 4-12	Z7.271.5227.0	10	IVB WKI 4-12	Z7.271.5227.0	10
Field-divisible strip – 70pole	9703/6 M-70	Z7.211.0027.0	10	9703/6 M-70	Z7.211.0027.0	10
6. Busbar, E-Cu 10 x 3 mm, I _N = 140 A L = 1 m						
Busbar, tin-plated, I _N = 140 A L = 1 m						
7. Busbar support 4 mm wide						
Busbar support 8 mm wide						
8. Connector clamp for busbar						
16 mm ² 8.5 mm wide						
35 mm ² 17 mm wide						
9. Screwdriver, uninsulated	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
Marking accessories see page 48/49 and page 90/91						

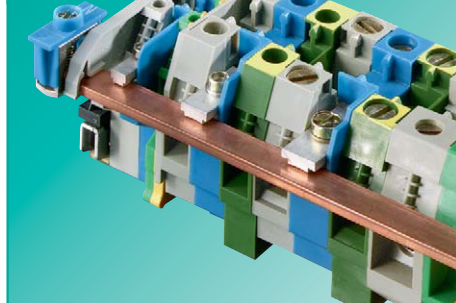
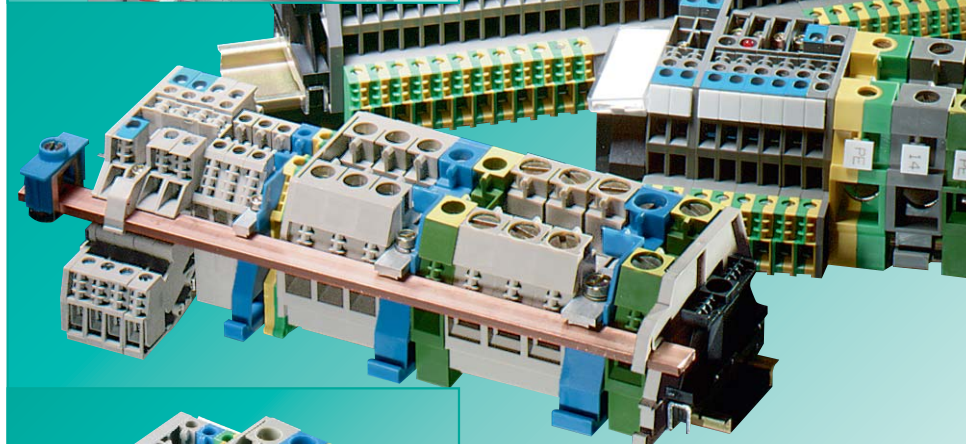
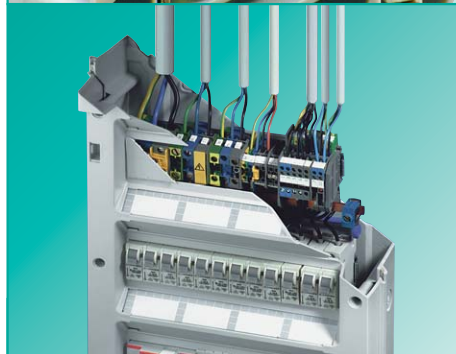
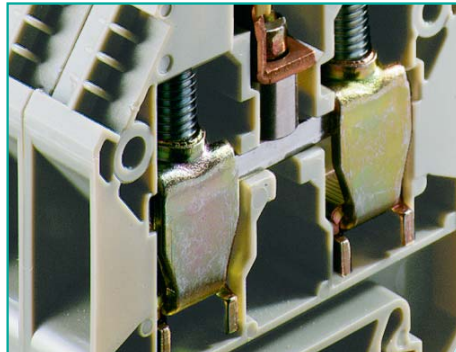
selos

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

selos BIT

Terminal blocks with screw connection for junction boxes, type WKI

selos BIT



WKI provides ...

- Screw connection technology**
in rising cage clamp system with one-piece threaded collar
- Convenient handling**
- Neutral conductor disconnect**

Application advantages

- **High connection range**
Connection of solid, fine stranded and stranded conductors in the rated wire gauge with and without ferrules
- **High clamping force, low contact resistance**
High tightening torques (master catalog, section 8) create high clamping forces for large contact areas resulting in low contact resistance and a gas tight connection
- **Clamping body**
Delivered in open position, ready to wire
- **Sliding disconnect**
clearly shows state (open or closed) of the circuit and allows quick and easy disconnect from the busbar

- selos BIT** is designed to meet the wiring and installation requirements of distribution systems in commercial and institutional buildings (such as hospitals, schools, shopping malls, theaters, office buildings, airports) according to IEC 60364
- The neutral disconnect blocks of the WKI series enable the required insulation test without disconnecting the neutral conductor

Height

Due to their height, the terminal blocks of the **selos BIT** family are suited for small junction boxes with cover according to DIN 43871.

- Connection slot on the terminal block for the neutral busbar
- Ground directly to the DIN rail
- Captive hardware and vibration resistant design

The WKI series provides

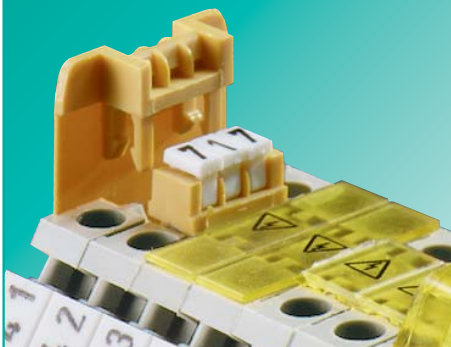
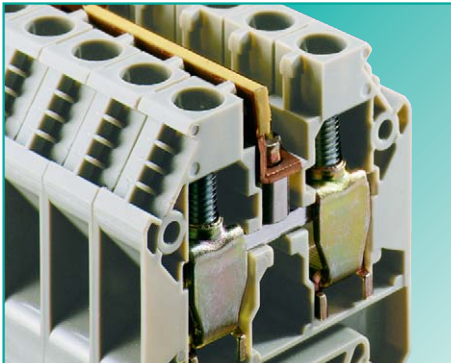
Feed-through blocks	4–35 mm ² 10-2 AWG
Neutral disconnect blocks	4–16 mm ² 10-4 AWG
Ground blocks	4–35 mm ² 10-2 AWG
PEN assembly blocks	10–35 mm ² 6-2 AWG

- Neutral disconnect blocks (ETK) of the WKI series can be combined with ...

the installation blocks of the WKI series (screw connection technology)

Installation blocks of the WKIF series (spring connection technology)

Neutral disconnect blocks (ETK) of the WKN series (screw connection technology)



Cross connection

- Jumpering with insulated or uninsulated cross connectors (jumper bars)
- Insulated cross connectors are touch-safe according to regulation VBG 4
- Cross connectors come preassembled
- Available in 2–12pole configurations or as a field-divisible strip – up to 70 poles
- When used with an end plate or partition the cross connector is rated for the same voltage as the terminal block

Partition plates

- Provides electrical and visual separation for adjacent terminal block groups
- Pre and post assembly versions
- Can only be removed with a screwdriver
- Post assembly version offers marking tag facility and cover
- 4-digit marking strip for additional marking

Marking facilities

- Marking facility at every termination point
- Tear-off marking strips for 3-digit marking facilities per block
- Single marking tags in 5 mm spacing
- Marking strips (10 individual marking tags) to snap on to 10 terminal blocks
- Custom marking upon request

Cover

- Cover with warning symbol to snap on to blocks which remain live when the main switch is disconnected (VDE 0113)
- Cover for uninsulated cross connectors to prevent electrical shock
- Can only be removed with a screwdriver
- Extended covers available to prevent tampering with terminal block

DQS certificates for all company divisions

- Quality standard as per DIN ISO 9001 in development, production and assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

Metal parts

Special alloys enable a low contact resistance and provide a gas-tight contact area

Clamping body/clamping screws: steel, zinc-plated and dichromated

Current carrying bar: tin-plated copper

Insulation material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housings: Polyamide 66/6

Tracking current resistance: CTI 600

Flammability class: UL 94-V0

(also see master catalog section **facts & DATA**: Technical information)

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

Note:

The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

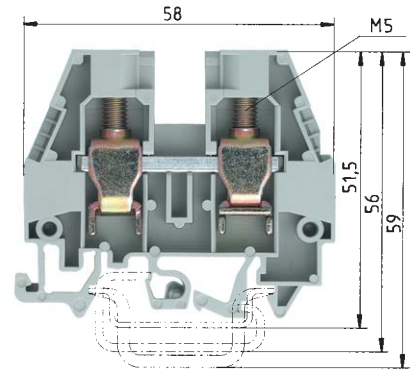
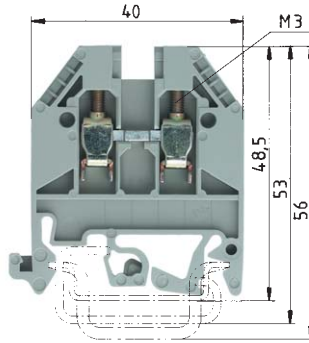
The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

A detailed description of technical data, the standards' requirements, and the application conditions can be found in part catalog section **facts & DATA**: "Technical information".

Terminal blocks with screw connection for junction boxes, type WKI

selos BIT

Additional colors available on request:
Contact Factory



WK 4/U

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3	32
No. 22-10 AWG		600 V	30/35
No. 20-10 AWG		600 V	40
6 mm			9 mm



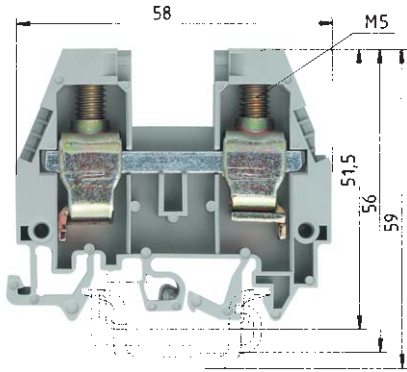
WKI 10/U

fine stranded	stranded	V	A
1–10 mm ²	10–16 mm ²	400 V/6 kV/3	57
No. 16-6 AWG		600 V	65/65
No. 16-6 AWG		600 V	70
10 mm			18 mm



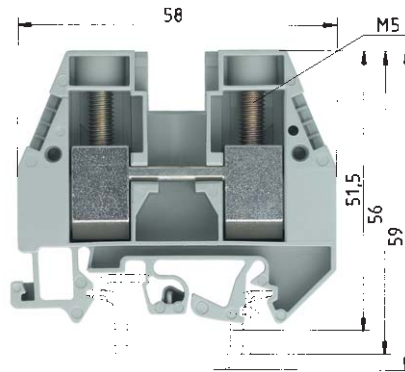
EN 60 947-7-1/DIN VDE 0611 T1	
UL ratings	field-factory
wiring	
CSA ratings	
Width	Wire strip length
Approvals	

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed through block	Color: gray	WK 4/U	57.504.0055.0 100	WKI 10/U	57.510.1155.0 50	
Feed through block	Color: blue	WK 4/U BLAU	57.504.0055.6 100	WKI 10/U BLAU	57.510.1155.6 50	
Accessories						
1. Mounting rail TS 35, DIN rail 7.5mm high L = 2 m		35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	
Mounting rail TS 35, DIN rail 15mm high L = 2 m		35 x 27 x 15 EN 60715	98.360.0000.0 1	35 x 27 x 15 EN 60715	98.360.0000.0 1	
2. End clamp for TS 35, with screw 8 mm wide		9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100	
End clamp for TS 35, without screws 8 mm wide		WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100	
3. End plate 1.5 mm thick Color: gray		AP 2,5-4	07.311.0155.0 10			
1.5 mm thick Color: blue		AP 2,5-4 BLAU	07.311.0155.6 10			
1.5 mm thick Color: green						
End plate 2 mm thick Color: gray				API 10-16	07.311.9455.0 10	
2 mm thick Color: blue				API 10-16 BLAU	07.311.9455.6 10	
2 mm thick Color: green						
4. Partition plate Color: gray		TW 2,5-4	07.311.1155.0 10			
Color: blue		TW 2,5-4 BLAU	07.311.1155.6 10			
5. Cross connector with screws (jumper bar) 2pole		IVB WK 4-2	Z7.281.1227.0 10	IVB WKN 10-2	Z7.283.2227.0 10	
insulated 3pole		IVB WK 4-3	Z7.281.1327.0 10	IVB WKN 10-3	Z7.283.2327.0 10	
4pole		IVB WK 4-4	Z7.281.1427.0 10	IVB WKN 10-4	Z7.283.2427.0 10	
5pole		IVB WK 4-5	Z7.281.1527.0 10	IVB WKN 10-5	Z7.283.2527.0 10	
6pole		IVB WK 4-6	Z7.281.1627.0 10	IVB WKN 10-6	Z7.283.2627.0 10	
6. Partition plate with marking facility Color: yellow		TS 4 GELB	07.311.2153.8 10	TS 10 GELB	07.311.2353.8 10	
7. Cover with marking facility Color: yellow		AD VB 4 GELB	04.326.2153.8 10	AD VB 10 GELB	04.342.1056.8 10	
8. Cover with warning symbol over 4 blocks Color: yellow		AD 4/4 GELB	04.343.4856.8 10			
Cover with warning symbol for 1 block Color: yellow				ADI 10/1 GELB	04.325.8553.8 10	
9. Busbar						
E-Cu 10 x 3 mm, tin-plated, I _N = 140 L = 1 m						
E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m						
10. Connector clamp for busbar						
16 mm ² 8.5 mm wide						
35 mm ² 17 mm wide						
11. Busbar support 4 mm wide						
Busbar support 8 mm wide						
Marking accessories see page 48/49 and page 90/91						



WKI 16/U

fine stranded	stranded	V	A
1-16 mm ²	10-25 mm ²	400 V/6 kV/3	76
No. 12-4 AWG		600 V	65/90
No. 14-4 AWG		600 V	95
12 mm		16 mm	



WKI 35/U

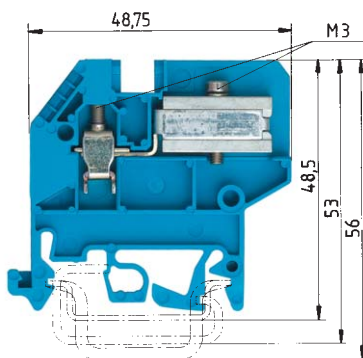
fine stranded	stranded	V	A
16-35 mm ²	16-50 mm ²	400 V/6 kV/3	125
No. 10-2 AWG		600 V	95/95
No. 10-2 AWG		600 V	110
16 mm		13 mm	



Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKI 16/U	57.516.1155.0	50	WKI 35/U	57.535.1155.0	20
WKI 16/U BLAU	57.516.1155.6	50	WKI 35/U BLAU	57.535.1155.6	20
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
API 10-16	07.311.9455.0	10	API 35	07.311.8855.0	10
API 10-16 BLAU	07.311.9455.6	10	API 35 BLAU	07.311.8855.6	10
IVB WKI 16-2	Z7.284.9227.0		IVB WKI 35-2	Z7.285.4227.0	5
IVB WKI 16-3	Z7.284.9327.0		IVB WKI 35-3	Z7.285.4327.0	5
IVB WKI 16-4	Z7.284.9427.0		IVB WKI 35-4	Z7.285.4427.0	5
IVB WKI 16-5	Z7.284.9527.0		IVB WKI 35-5	Z7.285.4527.0	5
IVB WKI 16-6	Z7.284.9627.0		IVB WKI 35-6	Z7.285.4627.0	5
TS 16 GELB	07.311.2453.8	10	TS 35 GELB	07.311.8653.8	10
AD VB 16 GELB	04.326.2453.8	10			
ADI 16/1 GELB	04.325.8653.8	10	ADI 35/1 GELB	04.325.8753.8	

Neutral disconnect blocks with screw connection for junction boxes, type WKI

selos BIT

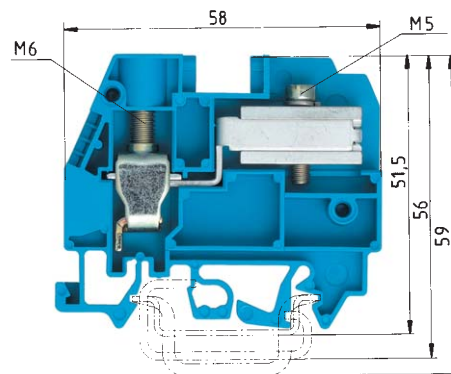


Current carrying capability:
fine stranded: 4 mm² 25 A
solid: 6 mm² 30 A

WKN 4 ETK/U

fine stranded solid V A
0.5 – 4 mm² 0.5 – 6 mm² 400 V/6 kV/3**)

UL pending
No. 20-10 AWG 600 V 25
6 mm 9 mm



Current carrying capability:
fine stranded: 10 mm² 45 A
stranded: 16 mm² 50 A

WKI 10 ETK/U

fine stranded stranded V A
1 – 10 mm² 10 – 16 mm² 400 V/6 kV/3**)

No. 16-6 AWG 600 V 45
10 mm 13 mm



EN 60 947-7-1/DIN VDE 0611 T1

UL ratings

CSA ratings

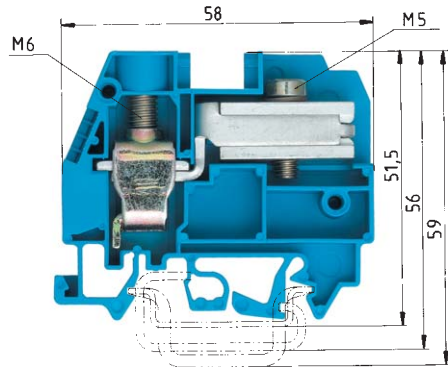
Width

Wire strip length

Approvals

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Neutral-disconnect block Color: blue	WKN 4 ETK/U	57.504.8155.0	100	WKI 10 ETK/U	57.510.8255.0	50
Connector clamp for Cu busbar Color: blue						
Color: unplated						
Accessories						
1. Mounting rail TS 35, DIN rail 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high L = 2 m	35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp for TS 35, without screws 8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate 1.5 mm thick Color: gray						
1.5 mm thick Color: blue	APN 4 ETK	07.311.1155.0	10	API 10-16 ETK/1	07.312.1955.0	10
1.5 mm thick Color: green						
End plate 2 mm thick Color: gray						
2 mm thick Color: blue						
2 mm thick Color: green						
4. Partition plate Color: gray						
Color: blue						
5. Cross connector with screws (jumper bar) 2pole						
insulated 3pole						
4pole						
5pole						
6pole						
6. Partition plate with marking facility Color: yellow						
7. Cover with marking facility Color: yellow						
8. Cover with warning symbol over 4 blocks Color: yellow						
Cover with warning symbol for 1 block Color: yellow						
9. Busbar						
E-Cu 10 x 3 mm, tin-plated, I _N = 140 A L = 1 m	9813 M	98.290.0000.0	1	9813 M	98.290.0000.0	1
E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m	9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1
10. Connector clamp for busbar						
16 mm ² 8.5 mm wide	WAK 16/2 BLAU	30.494.3021.0		WAK 16/2 BLAU	30.494.3021.0	
35 mm ² 17 mm wide	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
11. Busbar support 4 mm wide	WKI SH/U	01.108.3255.0	10	WKI SH/U	01.108.3255.0	10
Busbar support 8 mm wide	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
Marking accessories see page 48/49 and page 90/91						

Connector clamp for Cu busbar (10 x 3 mm), type WAK



Current carrying capability:

fine stranded: 16 mm² 62 A
stranded: 25 mm² 67 A

WKI 16 ETK/U

fine stranded 1 – 16 mm² stranded 10 – 25 mm² V 400 V/6 kV/3***) A 65

No. 14-4 AWG 12 mm 600 V 15 mm



EN 60 998-2-1 CCA/CH

WAK 16/2

fine stranded 1.5 – 16 mm² stranded 10 – 16 mm² V 76 A

8.4 mm 16 mm



EN 60 998-2-1 CCA/CH

WAK 35/2

fine stranded 16 – 35 mm² stranded 16 – 35 mm² V 125 A

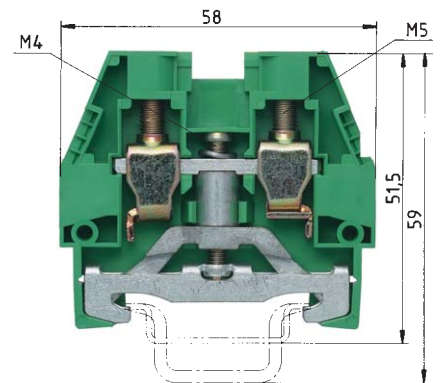
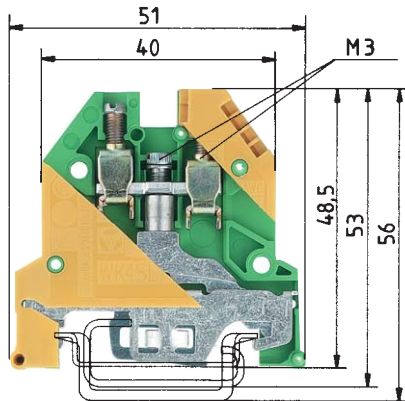
17 mm 14 mm



Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKI 16 ETK/U	57.516.8255.0	50	WAK 16/2 BLAU	30.494.3021.6	100	WAK 35/2 BLAU	30.494.4121.6	
						WAK 35/2	30.494.4121.0	50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1						
35 x 27 x 15 EN 60715	98.360.0000.0	1						
9708/2 S35	Z5.522.8553.0	100						
API 10-16 ETK/1	07.312.1955.0	10						
9813 M	98.290.0000.0	1	9813 M	98.290.0000.0	1	9813 M	98.290.0000.0	1
9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1
WAK 16/2 BLAU	30.494.3021.0							
WAK 35/2	30.494.4121.0	50						
WKI SH/U	01.108.3255.0	10	WKI SH/U	01.108.3255.0	10	WKI SH/U	01.108.3255.0	10
WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10

Ground blocks with screw connection for junction boxes, type WKI SL

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*) Ratings of adjacent feed-through block same series and size

EN 60 947-7-2/DIN VDE 0611 T3

UL ratings

CSA ratings

Width

Approvals

Wire strip length

enclosed design

WK 4 SL/U

fine stranded solid V A
 0.5 – 4 mm² 0.5 – 6 mm² 800 V/8 kV/3*)
 No. 22-10 AWG 600 V
 No. 22-10 AWG
 6 mm 9 mm

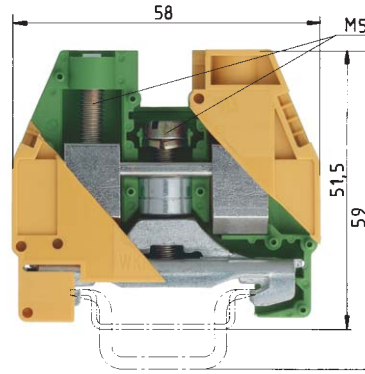
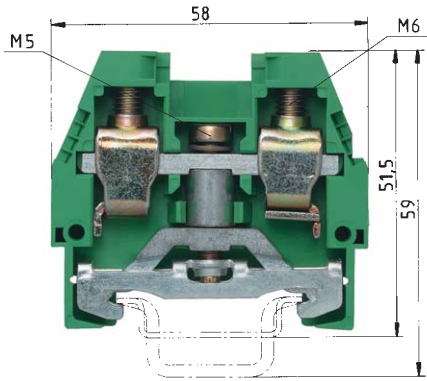


WKI 10/35

fine stranded solid/stranded V A
 1 – 10 mm² 1.5 – 16 mm² 800 V/8 kV/3*)
 No. 16-6 AWG 600 V
 No. 16-6 AWG
 10 mm 18 mm




Ground block	Color: green/yellow	Type	Part no.	Std. pack	Type	Part no.	Std. pack
		WK 4 SL/U	57.504.9055.0	100	WKI 10 SL/35	56.510.9255.0	50
Accessories							
1. Mounting rail TS 35, DIN rail 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high	L = 2 m	35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp for TS 35, without screws	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	1.5 mm thick	Color: gray					
	1.5 mm thick	Color: blue					
	1.5 mm thick	Color: green			API 10-16 SL	07.311.9555.0	10
End plate	2 mm thick	Color: gray					
	2 mm thick	Color: blue					
	2 mm thick	Color: green					
4. Partition plate	Color: gray						
	Color: blue						
5. Cross connector with screws (jumper bar)	2pole						
insulated	3pole						
	4pole						
	5pole						
	6pole						
6. Partition plate with marking facility	Color: yellow						
7. Cover with marking facility	Color: yellow	AD VB4 GELB	04.326.2153.8	10	AD VB 10 GELB	04.326.2353.8	10
8. Cover with warning symbol over 4 blocks	Color: yellow	AD 4/4 GELB	04.343.5856.8				
Cover with warning symbol for 1 block	Color: yellow				AD 10/1 GELB	04.325.8553.8	10
9. Busbar							
	E-Cu 10 x 3 mm, tin-plated, I _N = 140 A	L = 1 m					
	E-Cu 10 x 3 mm, unplated, I _N = 140 A	L = 1 m					
10. Connector clamp for busbar							
	16 mm ²	8.5 mm wide					
	35 mm ²	17 mm wide					
11. Busbar support	4 mm wide						
Busbar support	8 mm wide						
Marking accessories see page 48/49 and page 90/91							




enclosed design

WKI 16 SL/35

fine stranded solid/stranded V A
 1 – 16 mm² 1.5 – 25 mm² 400 V/6 kV/3*)
 No. 12-4 AWG 600 V
 No. 14-4 AWG
 12 mm 16 mm


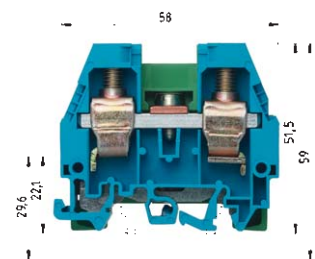
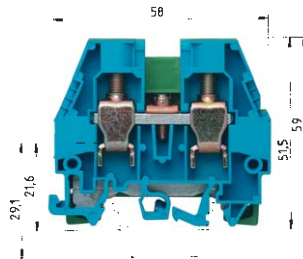
WKI 35 SL/35

fine stranded stranded V A
 16 – 35 mm² 16 – 50 mm² 400 V/6 kV/3*)
 UL pending
 No. 10-2 AWG
 16 mm 13 mm


Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKI 16 SL/35	56.516.9255.0	50	WKI 35 SL/35	56.535.9255.0	20
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
API 10-16 SL	07.311.9555.0	10			
AD VB 16 GELB	04.326.2453.8	10	AD VB 10 GELB	04.326.2353.8	10
AD 16/1 GELB	04.325.8653.8	10	AD 35/1 GELB	04.325.8753.8	

PEN assembly block with screw connection for junction boxes, type WKI...

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WKI 10 PEN/35

fine stranded	solid/stranded	V	A
1 – 10 mm ²	1.5 – 16 mm ²	400 V/6 kV/3	57
No. 16-6 AWG		600 V	65/65
No. 16-6 AWG		600 V	70
Width	Wire strip length	20 mm	18 mm

WKI 16 PEN/35

fine stranded	solid/stranded	V	A
1 – 16 mm ²	1.5 – 25 mm ²	400 V/6 kV/3	76
No. 12-4 AWG		600 V	65/65
No. 14-4 AWG		600 V	95
Width	Wire strip length	24 mm	16 mm

EN 60 947-7-1, EN 60 947-7-2

UL ratings

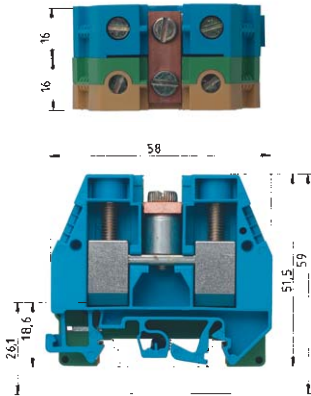
CSA ratings

Width

Approvals

Wire strip length

PEN assembly block	Color: green/yellow – blue	Type	Part no.	Std. pack	Type	Part no.	Std. pack
		WKI 10 PEN/35	56.510.9455.0	20	WKI 16 PEN/35	56.516.9455.0	20
Accessories							
1. Mounting rail TS 35, DIN rail 7.5mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm high	L = 2 m	35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp for TS 35, without screws	8 mm wide	WEF 1/35	Z5.523.9353.0	100			
3. End plate	1.5 mm thick	Color: gray					
	1.5 mm thick	Color: blue	API 10-16 BLAU	07.311.9455.6	10	API 10-16 BLAU	07.311.9455.6
	1.5 mm thick	Color: green					
End plate	2 mm thick	Color: gray					
	2 mm thick	Color: blue					
	2 mm thick	Color: green					
4. Partition plate	Color: gray						
	Color: blue						
5. Cross connector with screws (jumper bar)	2pole						
insulated	3pole						
	4pole						
	5pole						
	6pole						
6. Partition plate TS with marking facility	Color: yellow	TS 10 GELB	07.311.2353.8	10	TS 16 GELB	07.311.2453.8	10
7. Cover with marking facility	Color: yellow	AD VB 10 GELB	04.326.2353.8	10	AD VB 16 GELB	04.326.2453.8	10
8. Cover with warning symbol over 4 blocks	Color: yellow						
Cover with warning symbol for 1 block	Color: yellow	ADI 10/1 GELB	04.325.8553.8	10	AD 16/1 GELB	04.325.8653.8	10
9. Busbar							
	E-Cu 10 x 3 mm, tin-plated, I _N = 140 A	L = 1 m					
	E-Cu 10 x 3 mm, unplated, I _N = 140 A	L = 1 m					
10. Connector clamp for busbar							
	16 mm ²	8.5 mm wide					
	35 mm ²	17 mm wide					
11. Busbar support	4 mm wide						
Busbar support	8 mm wide						
Marking accessories see page 48/49 and page 90/91							



WKI 35 PEN/35

fine stranded	stranded	V	A
16 – 35 mm ²	16 – 50 mm ²	400 V/6 kV/3	125
No. 10-2 AWG		600 V	95/95
No. 10-2 AWG		600 V	110
32 mm			13 mm

Type	Part no.	Std. pack
WKI 35 PEN/35	56.535.9455.0	10
35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 27 x 15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100
API 35 BLAU	07.311.8855.6	10
TS 35 GELB	07.311.8653.8	10
AD 35/1 GELB	04.325.8753.8	

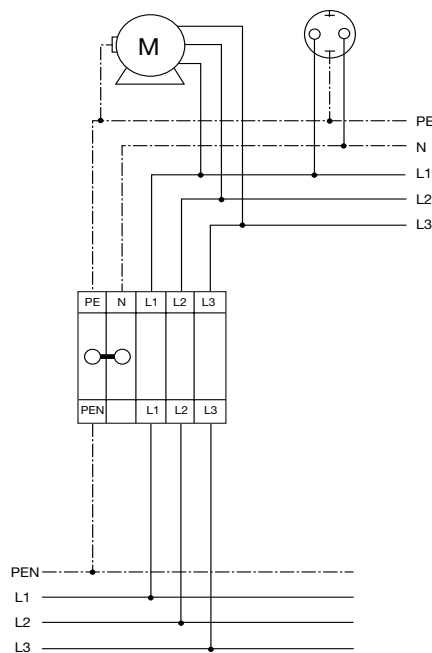
PEN assembly block for junction box IEC 947-7-2 EN 60947-7-2

Electrical power is often supplied to the plant in a 4 conductor three phase system (L1, L2, L3, and Ground). However, the electrical equipment in the plant may require a 5 conductor three phase system (L1, L2, L3, N, and Ground). Therefore, it is important to have a connection system to accommodate both possibilities.

The Wieland WKI ... PEN/35 system accomplishes this task. The PEN assembly terminal block consists of a ground terminal which is grounded to the DIN rail and a neutral terminal (color coded blue) which is electrically isolated from the DIN rail. The two terminals are commoned via a cross connector (jumper bar) thereby, tying the neutral terminal to ground.

When using the PEN assembly terminal block system, the DIN mounting rail only acts as a grounding bus. Therefore, copper mounting rail is not required and standard zinc plated steel DIN can be used for grounding purposes.

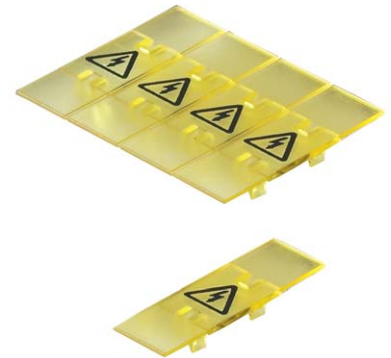
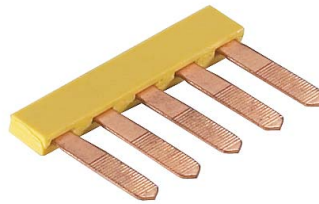
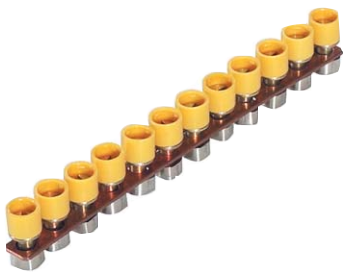
These assemblies have the same symmetry as the corresponding feed through terminals of the WKI series and fit the height required for junction boxes per DIN 43871 when using DIN rail size 35 x 27 x 7.5.



Accessories for DIN rail Terminal blocks with screw connection for junction boxes

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Cross connectors (jumper bars) for installation blocks

Insulated jumper combs for installation blocks

Cover with warning symbol

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
for terminal blocks type			for terminal blocks type			for terminal blocks type		
WKI 4 D-D			WKI 4 D-D			Cover with warning symbol over 4 blocks		
WKI 4 DU			WKI 4 DU			WK 4		
WKI 4 N-D-SL			WKI 4 N-D-SL			AD 4/4 GELB	04.343.5856.6	10
WKI 4 NT-D-SL... (and variants)			WKI 4 NT-D-SL... (and variants)					
WKI 4 NTN-D-SL			WKI 4 NTN-D-SL					
WKI 4 TKG-D-SL			WKI 4 TKG-D-SL					
WKI 4 D-D-SL			WKI 4 D-D-SL			Cover with warning symbol for 1 block		
Cross connectors, uninsulated (jumper bars)			0.5 mm thick, 6 mm spacing Color: yellow			WKI 10		
2pole 9703/6-2	Z7.211.0227.0	50	2pole IVB 0,5 WK 4..-2	Z7.255.0227.0	10	AD 10/1 GELB	04.325.8553.8	10
3pole 9703/6-3	Z7.211.0327.0	50	3pole IVB 0,5 WK 4..-3	Z7.255.0327.0	10			
4pole 9703/6-4	Z7.211.0427.0	50	4pole IVB 0,5 WK 4..-4	Z7.255.0427.0	10			
5pole 9703/6-5	Z7.211.0527.0	50	5pole IVB 0,5 WK 4..-5	Z7.255.0527.0	10			
6pole 9703/6-6	Z7.211.0627.0	50	6pole IVB 0,5 WK 4..-6	Z7.255.0627.0	10	WKI 16		
70pole 9703/6 M-70	Z7.211.0027.0	10	7pole IVB 0,5 WK 4..-7	Z7.255.0727.0	10	AD 16/1 GELB	04.325.8653.8	10
			8pole IVB 0,5 WK 4..-8	Z7.255.0827.0	10			
			9pole IVB 0,5 WK 4..-9	Z7.255.0927.0	10			
			10pole IVB 0,5 WK 4..-10	Z7.255.1027.0	10	WKI 35		
			11pole IVB 0,5 WK 4..-11	Z7.255.1127.0	10	AD 35/1 GELB	04.325.8753.0	10
			12pole IVB 0,5 WK 4..-12	Z7.255.1227.0	10			
			1 mm thick, 6 mm spacing Color: yellow					
			2pole IVB 1 WK 4..-2	Z7.255.4227.0	10			
			3pole IVB 1 WK 4..-3	Z7.255.4327.0	10			
			4pole IVB 1 WK 4..-4	Z7.255.4427.0	10			
			5pole IVB 1 WK 4..-5	Z7.255.4527.0	10			
			6pole IVB 1 WK 4..-6	Z7.255.4627.0	10			
			7pole IVB 1 WK 4..-7	Z7.255.4727.0	10			
			8pole IVB 1 WK 4..-8	Z7.255.4827.0	10			
			9pole IVB 1 WK 4..-9	Z7.255.4927.0	10			
			10pole IVB 1 WK 4..-10	Z7.255.5027.0	10			
			11pole IVB 1 WK 4..-11	Z7.255.5127.0	10			
			12pole IVB 1 WK 4..-12	Z7.255.5227.0	10			



Uninsulated cross connectors (jumper bars) for feed-through blocks

Partition plates with marking facility Cover with marking facility

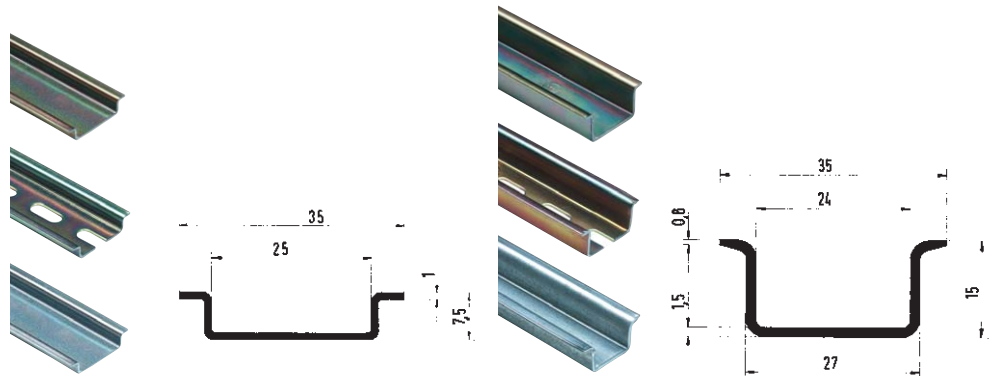
Insulated cross connectors (jumper bars) for feed-through blocks

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
for terminal blocks type			Partition plate with marking facility			for terminal blocks type		
			Color: yellow			WK 4/U		
WK 4/U			for terminal blocks type			2pole IVB WK 4-2 Z7.281.1227.0 10		
2pole VB WK 4-2	Z7.281.0227.0	10				3pole IVB WK 4-3 Z7.281.1327.0 10		
3pole VB WK 4-3	Z7.281.0327.0	10	WK 4/U			4pole IVB WK 4-4 Z7.281.1427.0 10		
4pole VB WK 4-4	Z7.281.0427.0	10	TS 4 YELLOW			5pole IVB WK 4-5 Z7.281.1527.0 10		
5pole VB WK 4-5	Z7.281.0527.0	10	WKI 10			6pole IVB WK 4-6 Z7.281.1627.0 10		
6pole VB WK 4-6	Z7.281.0627.0	10	TS 10 YELLOW			7pole IVB WK 4-7 Z7.281.1727.0 10		
70pole VB WK 4 M-70	Z7.281.0027.0	10				8pole IVB WK 4-8 Z7.281.1827.0 10		
			WKI 16			9pole IVB WK 4-9 Z7.281.1927.0 10		
WKI 10/U			TS 16 YELLOW			10pole IVB WK 4-10 Z7.281.2027.0 10		
2pole VB WKI 10-2	Z7.288.0227.0	10				11pole IVB WK 4-11 Z7.281.2127.0 10		
3pole VB WKI 10-3	Z7.288.0327.0	10	WKI 35			12pole IVB WK 4-12 Z7.281.2227.0 10		
4pole VB WKI 10-4	Z7.288.0427.0	10	TS 35 YELLOW					
5pole VB WKI 10-5	Z7.288.0527.0	10	Cover with marking facility			WKI 10/U		
6pole VB WKI 10-6	Z7.288.0627.0	10	for cross connector			2pole IVB WKN 10-2 Z7.283.2227.0 10		
40pole VB WKI 10 M-40	Z7.288.0027.0	10	for terminal blocks type			3pole IVB WKN 10-3 Z7.283.2327.0 10		
			WK 4			4pole IVB WKN 10-4 Z7.283.2427.0 10		
WKI 16/U			AD VB 4 YELLOW			5pole IVB WKN 10-5 Z7.283.2527.0 10		
2pole VB WKI 16-2	Z7.289.0227.0	10				6pole IVB WKN 10-6 Z7.283.2627.0 10		
3pole VB WKI 16-3	Z7.289.0327.0	10	WKI 10					
4pole VB WKI 16-4	Z7.289.0427.0	10	AD VB 10 YELLOW			WKI 16/U		
5pole VB WKI 16-5	Z7.289.0527.0	10				2pole IVB WKI 16-2 Z7.284.9227.0 10		
6pole VB WKI 16-6	Z7.289.0627.0	10	WKI 16			3pole IVB WKI 16-3 Z7.284.9327.0 10		
20pole VB WKI 16 M-20	Z7.289.0027.0	10	AD VB 16 YELLOW			4pole IVB WKI 16-4 Z7.284.9427.0 10		
						5pole IVB WKI 16-5 Z7.284.9527.0 10		
						6pole IVB WKI 16-6 Z7.284.9627.0 10		
						WKI 35/U		
						2pole IVB WKI 35-2 Z7.285.4227.0 5		
						3pole IVB WKI 35-3 Z7.285.4327.0 5		
						4pole IVB WKI 35-4 Z7.285.4427.0 5		
						5pole IVB WKI 35-5 Z7.285.4527.0 5		
						6pole IVB WKI 35-6 Z7.285.4627.0 5		

Accessories for DIN rail terminal blocks for junction boxes

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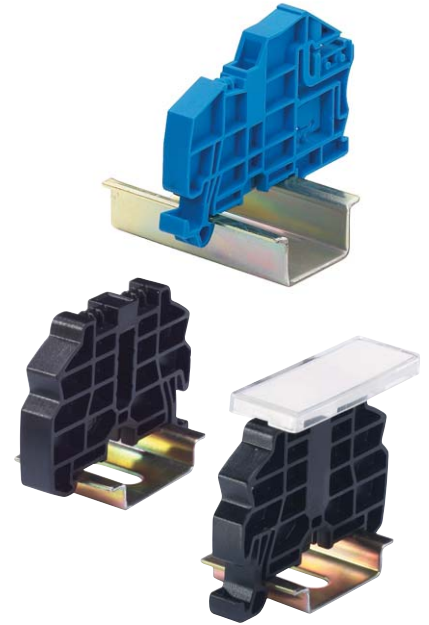
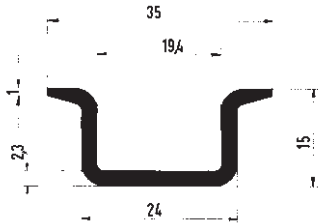
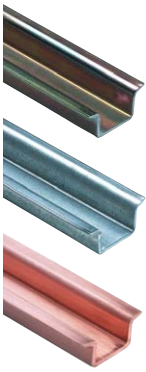
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Mounting rail 35 x 7.5
accord. to DIN EN 60715

Mounting rail 35 x 15
accord. to DIN EN 60715

Mounting rail	Type	Part no.	Std. pack	Type	Part no.	Std. pack
1. Steel, galv. zinc-plated and dichromated, unslotted L = 2 m	35 x 27 x 7.5 EN 60715	98.300.0000.0	1	35 x 27 x 15 EN 60715	98.370.0000.0	1
Steel, galv. zinc-plated and dichromated, slotted L = 2 m	35 x 27 x 7.5 EN 60715 slotted	98.300.1000.0	1	35 x 27 x 15 EN 60715	98.370.1000.0	1
2. Steel, unplated unslotted L = 2 m	35 x 27 x 7.5 EN 60715 unplated	98.300.0010.0	1			
Steel, unplated slotted L = 2 m						
3. Steel, hot-galvanized unslotted L = 2 m						
Steel, hot-galvanized slotted L = 2 m						
4. E copper unslotted L = 2 m						
E copper slotted L = 2 m						
5. Aluminium unslotted L = 2 m		98.750.0000.0	1 *			
slotted L = 1 m		98.800.1000.0	1 *			
6. Stainless steel unslotted L = 2 m		98.330.0000.0	1 *			
	*available in North America only					
End clamp						
5. End clamp for TS 35, with screw 8 mm wide						
6. End clamp for TS 35, with screw with marking facility for block assemblies 8/17.5 mm wide						
7. End clamp for TS 35, screwless 8 mm wide						
8. End clamp for TS 35, screwless with marking facility for block assemblies 8/17.5 mm wide						
9. Marking card in perforated sheets (1 sheet = 100 single tags)						



Mounting rail 35 x 15
accord. to DIN EN 60715

End clamp for TS 35
fixed with screw

End clamp for TS 35
fixed without screw

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
35 x 27 x 15 EN 60715	98.360.0000.0	1						
35 x 27 x 15 EN 60715 ZN	98.360.0004.0	1						
35 x 27 x 15 EN 60715 CU	98.380.0000.0	10						
			9708/2 S 35	Z5.522.8553.0	100			
			9708/2 BS/35	69.920.0553.0	100			
						WEF 1/35	Z5.523.9353.0	100
						WEF 1 BS/35	69.920.1053.0	100
						WKIF SH/E/35	Z1.108.8453.0	10
						BS/R	Z4.243.8453.0	
				04.019.0289.0	10			
							04.019.0289.0	10

Marking accessories for DIN rail terminal blocks for junction boxes

fasis BIT

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Material:
Polyamide 66/6
Color: black figures on white background

DIN rail terminal blocks, type WKF, can take in marking tags on both sides on top of the block in a 3-chamber slot. It can be either 3 single number tags from the tear-off marking strip, or single tags, or marking strips.

- Marking strips** marked and unmarked, made from Polyamide 66/6, suitable for 10 blocks in a row.

Marking 1-10, 11-20 etc. up to 991-999.

Type 9705 A/5/10 (5 mm spacing)

for terminal blocks type WKIF 2.5...

Type 9705 A/6/10 (6 mm spacing)

for terminal blocks type WK/WKF 4...

Type 9705 A/5/10/5 B (10 mm spacing)

for terminal blocks type WKI/WKF 10...

Type 9705 A/6/10/5 B (12 mm spacing)

for terminal blocks type WKI/WKF 16...

Type 9705 A/8/10/5 B (16 mm spacing)

for terminal blocks type WKI 35...

- Tear-off marking strip** with 10 marking tags, made from Polyamide 66/6, white, marked and unmarked.

This marking system considerably reduces the time required for marking terminal block rows. For numerical marking of terminal block rows only 11 stock positions are required. As the time used for picking and attaching the tags is reduced, and as stockkeeping is low and the prices extremely favorable, enormous cost savings are the result from using these tear-off marking strips.

Type 9704 A...
(see page 180)

- Single marking tag** made from white Polyamide 66/6, marked and unmarked.
Type 9705 A...

Marking computer in system kit

Type	Part no.	Std. pack
Marking computer for marking cards		
marcom 2	95.502.0000.0	1
Description		
<p>wieland marcom 2 is a freely programmable marking computer for marking tags of DIN rail terminal blocks, pluggable connectors, cables and switching devices. The program technology with flexible menu control produces excellent results requiring only few input. Entry of a sequence of figures is automatically limited by the parameters of the selected marking tags, making wrong print-out impossible. Repeated operations can be saved as so-called JOBs and are therefore immediately available for print-out without further entries. The computer disposes of a large number of fonts, with numerical, alphanumerical (small/capital letters) and symbolic characters.</p> <p>marcom 2 is powered by an attached power supply. For a mains-independent operation, the marcom 2 Power Pack is available.</p>		
Marking tag plates for marcom 2		
9705 A/5/10/11 marcom	Z4.242.5053.0	10
9705 AL/5/10/6 marcom	Z4.242.5153.0	10
9705 A/6/10/11 marcom	Z4.242.6053.0	10
9705 AL/6/10/6 marcom	Z4.242.6353.0	10
9705 A/8/10/7 marcom	Z4.242.8053.0	10

All terminal block widths

Type	Part no.	Std. pack
Single marking tag, unmarked		
9705 A	04.242.0850.0	500
Single marking tag, marked		
9705 AB*	04.842.0850.0	500
Single marking tag, unmarked with enlarged marking area		
9705 AL	04.242.1553.0	500
Single marking tag, marked for enlarged marking area		
9705 ALB	04.842.1553.0	500
*Custom marking upon request		



2,5 mm²/5 mm Width



4 mm²/6 mm Width



10 mm²/10 mm Width

16 mm²/12 mm Width

35 mm²/16 mm Width

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Marking strips, unmarked			Marking strips, unmarked			10 mm²/10 mm Width		
9705 A/5/10	04.242.5053.0	25	9705 A/6/10	04.242.6053.0	25	marked for 5 blocks (every 2nd tag) *		
Marking strips, marked			Marking strips, marked			9705 A/5/10/5 B 04.842.5553.0 25		
9705 A/5/9 B 1 - 9	04.842.4953.0	25	9705 A/6/9 B 1 - 9	04.842.5953.0	25	16 mm²/12 mm Width		
9705 A/5/10 B* 1 - 10	04.842.5053.0	25	9705 A/6/10 B* 1 - 10	04.842.6053.0	25	marked for 5 blocks (every 2nd tag) *		
9705 A/5/10 B 11 - 20	04.845.0153.0	25	9705 A/6/10 B 11 - 20	04.846.0153.0	25	9705 A/6/10/5 B 04.842.6553.0 25		
21 - 30	04.845.0253.0	25	21 - 30	04.846.0253.0	25	35 mm²/16 mm Width		
31 - 40	04.845.0353.0	25	31 - 40	04.846.0353.0	25	marked for 5 blocks (every 2nd tag) *		
41 - 50	04.845.0453.0	25	41 - 50	04.846.0453.0	25	9705 A/8/10/5 B 04.842.8553.0 25		
51 - 60	04.845.0553.0	25	51 - 60	04.846.0553.0	25			
61 - 70	04.845.0653.0	25	61 - 70	04.846.0653.0	25			
71 - 80	04.845.0753.0	25	71 - 80	04.846.0753.0	25			
81 - 90	04.845.0853.0	25	81 - 90	04.846.0853.0	25			
91 - 100	04.845.0953.0	25	91 - 100	04.846.0953.0	25			
⊕ (10 x)	04.855.0053.0	25	⊕ (10 x)	04.856.0053.0	25			
± (10 x)	04.855.0153.0	25	± (10 x)	04.856.0153.0	25			
+ (10 x)	04.855.0253.0	25	+ (10 x)	04.856.0253.0	25			
- (10 x)	04.855.0353.0	25	- (10 x)	04.856.0353.0	25			
L1 (10 x)	04.855.0453.0	25	L1 (10 x)	04.856.0453.0	25			
L2 (10 x)	04.855.0553.0	25	L2 (10 x)	04.856.0553.0	25			
L3 (10 x)	04.855.0653.0	25	L3 (10 x)	04.856.0653.0	25			
PE (10 x)	04.855.0753.0	25	PE (10 x)	04.856.0753.0	25			
SL (10 x)	04.855.3153.0	25	SL (10 x)	04.856.3153.0	25			
N (10 x)	04.855.3253.0	25	N (10 x)	04.856.3253.0	25			
F1 (10 x)	04.855.0953.0	25	F1 (10 x)	04.856.0953.0	25			
F2 (10 x)	04.855.1053.0	25	F2 (10 x)	04.856.1053.0	25			
L1, L2, L3, N, PE (2 x)	04.855.0853.0	25	L1, L2, L3, N, PE (2 x)	04.856.0853.0	25			
with enlarged marking area			with enlarged marking area					
9705 AL/5/10	04.242.5153.0	25	9705 AL/6/10	04.242.6353.0	25			
*Custom marking upon request			*Custom marking upon request			* indicate required marking with part no.		

DIN rail terminal blocks with screw connection, type WKN

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Rising cage clamp connection up to 150 mm²

Standard DIN rail terminal blocks

Fuse blocks

Disconnect blocks

Duo feed through blocks /
multi-tier blocks

Initiator /
actuator blocks

Micro modular feed through blocks for TS 35

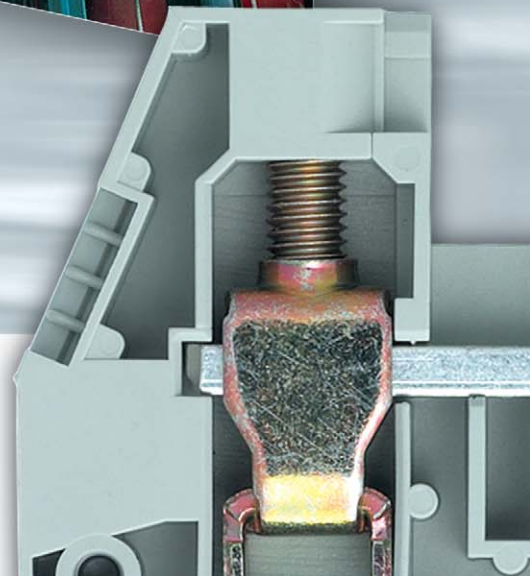
selos accord. to US standard UL 94 V-0

- Elastic clamping body
- Rated cross section: 2.5 to 150 mm²
- Connection range: 0.5 to 185 mm²
- Universal foot

All Wieland Components which require CE general certification are CE certified, and identified with the CE logo.

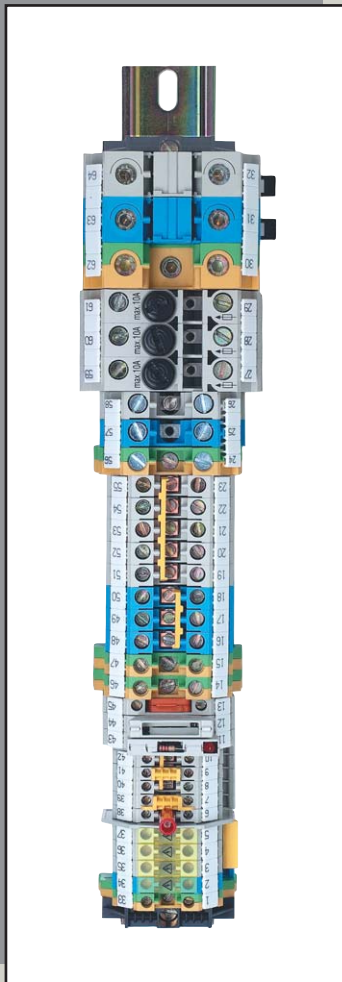


DIN Rail Terminal Blocks Screw Connection, Type *WKN*



DIN rail terminal blocks with screw connection, type *WKN*

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	2.5 mm ² (12 AWG)	4 mm ² (10 AWG)	6 mm ² (8 AWG)	10 mm ² (6 AWG)	16 mm ² (4 AWG)
Feed-through blocks 2,5-150mm ² 12 AWG – 350 MCM					
2,5-150mm ² 12 AWG – 350 MCM					
Neutral disconnect blocks					
Ground blocks					

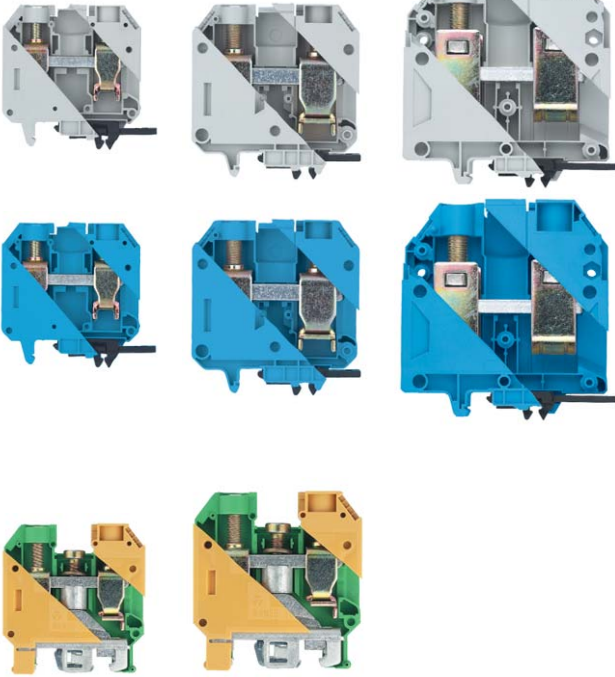
Standard DIN rail terminal blocks with rising

Disconnect lever fuse block		Disconnect block with diode plug	
Fuseblock		Disconnect-block with fuse holder	
with indicator		Knife edge disconnect block	
Feed-through block		Invertible plug disconnect block	
		Feed-through block	
Fuse blocks		Disconnect blocks	

35 mm²
(2 AWG)

70 mm²
(2/0 AWG)

150 mm²
(350 MCM)



cage clamp

Connector clamps for busbars



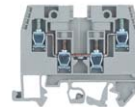
4 mm²
(10 AWG)

4 mm²
(10 AWG)

D1/2



D2/2



D/E



D2/2SL



E



E/V B



E/SL



Duo feed-through blocks

Multi-tier blocks

Feed-through block with solder connection



Feed-through block



Groundblock

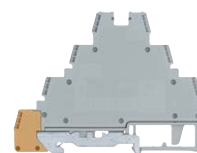
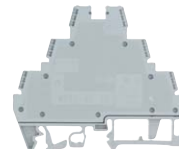


Micro modular feed through blocks TS15

Three-tier feed-through block



Four-tier feed-through blocks

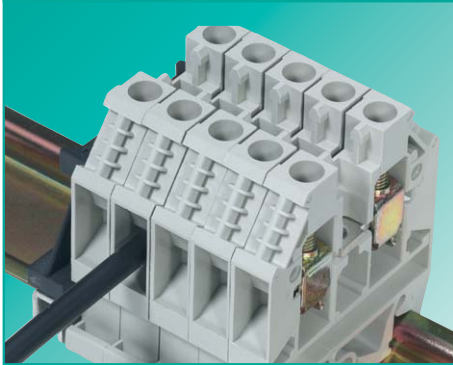
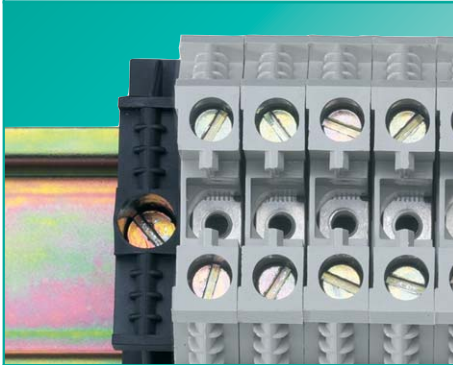
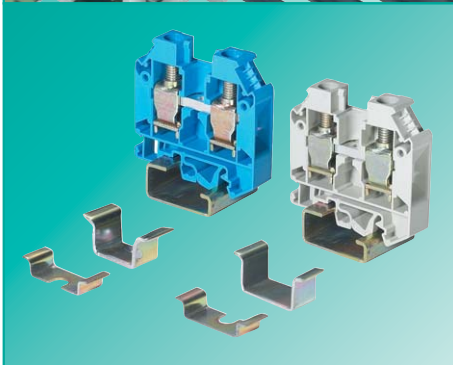
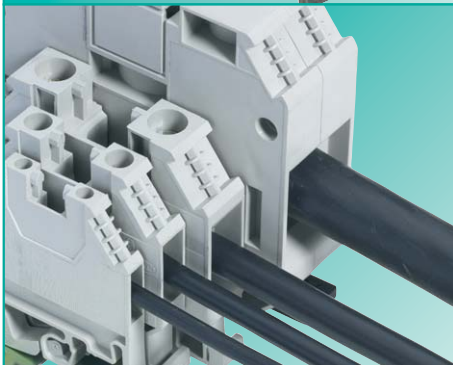
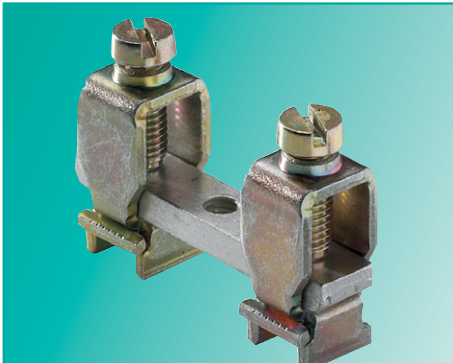


Initiator and actuator blocks

DIN rail terminal blocks with screw connection, type **WKN**

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WKN provides ...

Rising cage clamp technology

Elastic clamping body

One piece threaded collar

Rated cross section
2.5 – 150 mm²
12 AWG – 350 MCM

Connection range
0.5 – 185 mm²
24 AWG – 350 MCM

Universal foot for
– TS35 accord. to DIN 60715
– TS32 accord. to DIN 60715
 Terminal is centered on the rail.

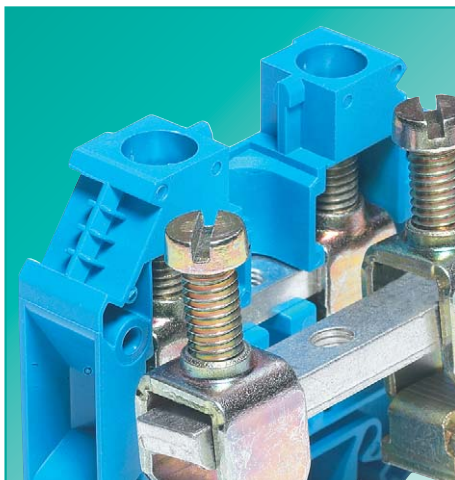
Guided screwdriver access

4-sided **Funneled wire entry**

The terminal blocks are delivered the **clamping body** in the open position

Application advantages

- Low contact resistance due to large surface area
- High and stable contact force
- **Vibration proof contact** – low maintenance
- **Guaranteed functionality**, even after repeated tightening and loosening of the screws
- Solid, fine stranded and stranded wires can be connected to the WKN terminal blocks **without the use of ferrules**
- If ferrules are used, the rated cross section does not have to be reduced
- One terminal for all common mounting rails
- Error free mounting foot provides clear identification of terminals mounted incorrectly
- **Mounting safety**
- When pneumatic or electric screwdrivers are used, the screwdriver guide prevents the blade from slipping of the screw head.
- **Safe and rapid installation of the wire**
- Stranded and fine stranded wires can easily be inserted in the terminal block even without ferrules
- Reduces installation time



Captive hardware

- The clamping screws are securely **held** within the insulating housing.
- Tapered plastic fins in the screw turret grip the screw head to ensure a secure connection
- The screw design prevents the screw from coming out of the clamping body. Turning the screwdriver counter clockwise will cause the screw to spin in the idle position. This guarantees safe installation when using pneumatic or electric screwdrivers.

Material

- Special alloys and surface treatment
- Low contact resistance
- High resistance to corrosion

Metal parts:

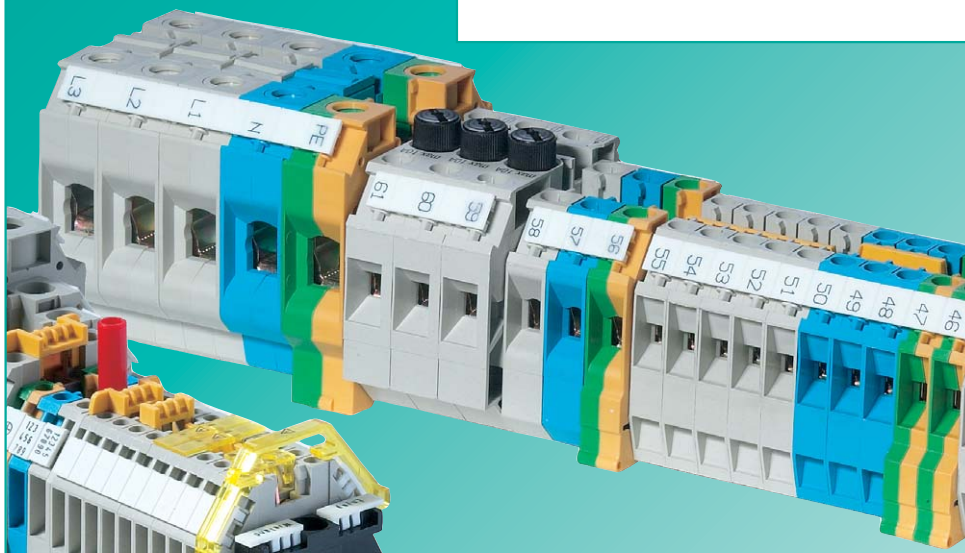
- Current carrying bar: tin plated; brass or copper
- Clamping body and clamping screws: steel, zinc-plated and dichromated

Insulating housing:

- Use of Polyamide 66/6 for its excellent chemical and mechanical properties (for more information see section **facts** & DATA)
- Material accord. to US standard UL 94-V0

Accessories:

- Stamped components: bright copper
- Test bolts and switchable connecting links: galvanized copper alloy



DQS certificates for all product families

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Various German and international approvals are available for feed-through terminal blocks. They are indicated in detail on the corresponding product pages. The feed-through blocks of series WK/WKN are approved for the increased-safety type of protection Eex "e" accord. to DIN EN 50019/VDE 0170/0171 part 6 where indicated. No type test is required for the Eex "i" type of protection.

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

Note:

The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

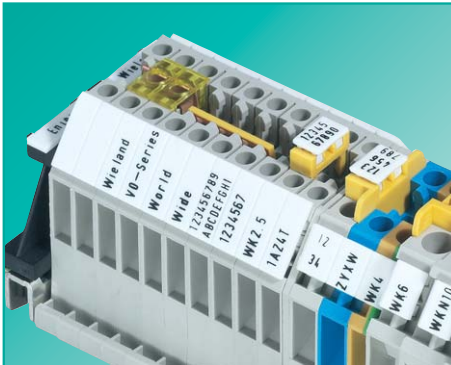
A detailed description of technical data, the standards' requirements, and the application conditions can be found in part **facts** & DATA.



DIN rail terminal blocks with screw connection, type **WKN**

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Marking accessories

- Single marking tags to match the terminal block spacing
- Snap-on marking strips (10 individual marking tags per strip) for rapid marking
- Tear-off marking strips marking up to 3-digits per terminal block

- Custom marking upon request



Cross connection (jumping)

- Potential commoning can be achieved by means of cross connectors (jumpers) or jumper bars
- Insulated and uninsulated cross connectors are available in 2-12 pole configuration. Uninsulated versions are also available in larger pole configurations which can be cut to order.

- Cross connectors** (jumpers) are mounted in the center thread of the current carrying bar
- They are preassembled for easy installation and the screws are secured against accidental loosening.
- In order to keep the rated voltage, end plates partitions or partition plates must be used



Jumper combs

- Number of poles: 2 to 12; with cut-to-order strips higher pole configurations can be achieved

- Terminal blocks of different potentials must be mounted in staggering order
- When using **jumper combs** you must insert the comb and the wire together in the clamping body
- AWG must be reduced to the next size when using jumper combs
- All insulated cross connectors IVB WK... and insulated jumper combs IVK WK... are protected against accidental contact accord. to VBG 4



Cover with warning symbol

- Cover with warning symbol to snap on to blocks which remain live when the main switch is disconnected (VDE 0113)

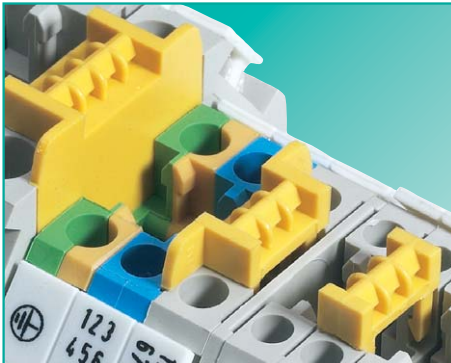
- The cover can only be removed with a screwdriver



Partition plates

- Full rated voltage is maintained when using partition plate with cross connectors (jumpers).

- Can be installed post assembly
- The partition plates can only be removed with a screwdriver
- The cross connector covers protect the user against accidental contact
- Various marking options are available with the standard Wieland marking system



Protection against accidental contact for cross connectors

In addition to the partition plates you can use covers to protect the uninsulated cross connectors against accidental contact. They snap on tight and can be marked with the Wieland marking accessories.



Switchable connecting links

- Shorts two terminals together and provides a separable connection
- Mounted to the center thread of the current carrying bar on the terminal blocks



Test sockets

Test plugs

Shorting plug

- Stud bolts for test plugs and cross connector plugs are mounted on the center thread of the current carrying bar on the terminal blocks
- Test plugs with locking levers can be snapped together in any pole configuration



Partition plates

End plates

- Partition plates optically separate different terminal block groups, and are required to keep the air and creepage distances when cross connectors of different potentials are mounted adjacent to each other
- For safety reasons the partitions are constructed in a way that they can only be removed together with the neighboring terminal block

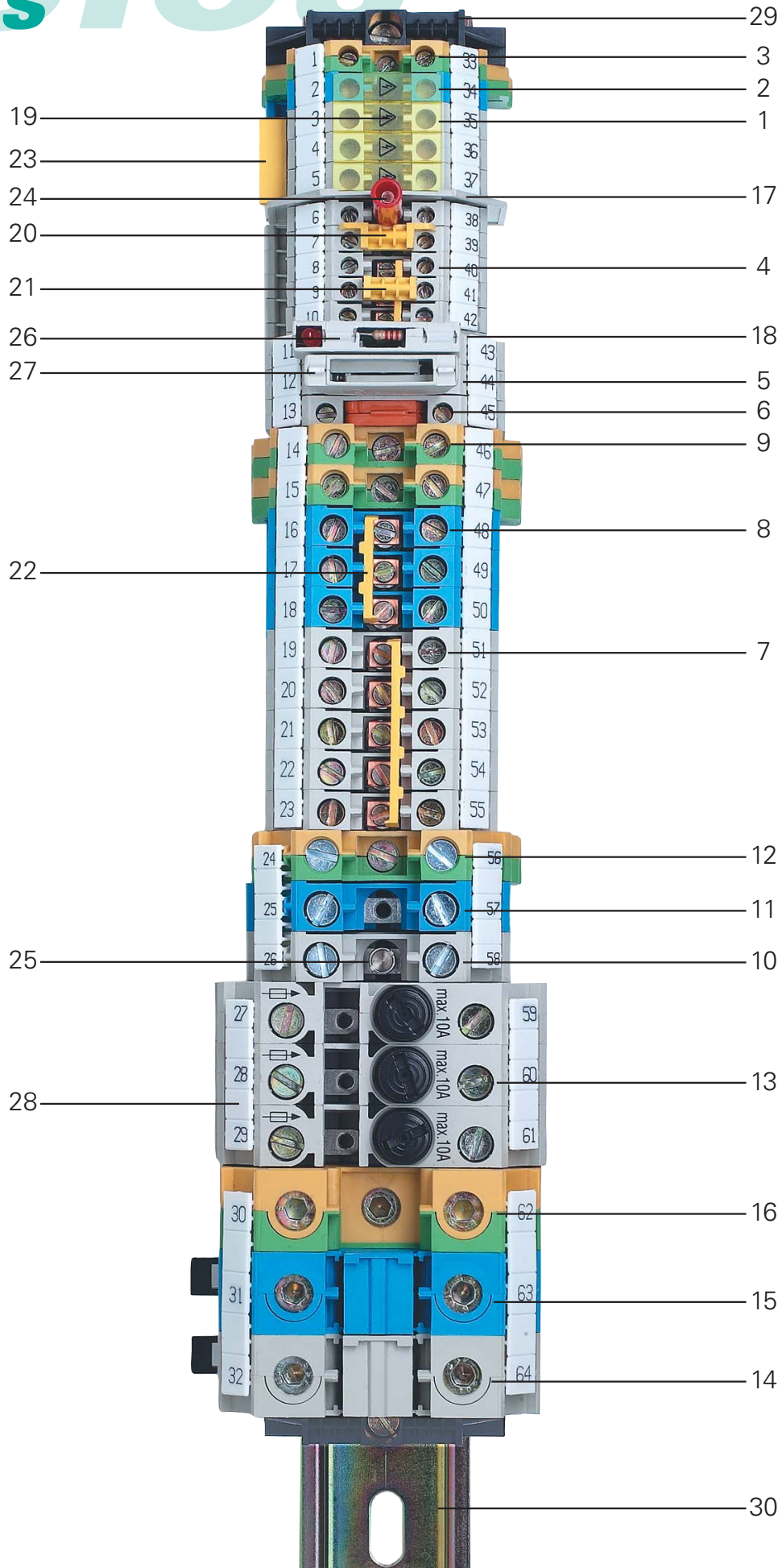


You can use our **wieplan** software to design your own terminal block assemblies (see page 10/11).

DIN rail terminal blocks with screw connection, type WKN

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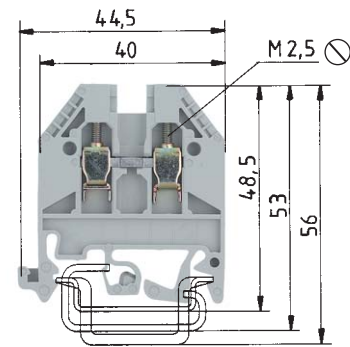


Item	Description	Type	Part number
1	Feed through block	WK 4/U	57.504.0055.0
2	Feed-through block, blue	WK 4/U BLAU	57.504.0055.6
3	Ground block	WK 4 SL/U	57.504.9055.0
4	Feed through block	WK 2,5/U	57.503.0055.0
5	Disconnect block	WK 4 TKG/U	57.504.4055.0
6	Knife edge disconnect block	WK 4 TKM/U	57.504.2055.0
7	Feed through block	WK 6/U	57.506.0055.0
8	Feed-through block, blue	WK 6/U BLAU	57.506.0055.6
9	Ground block	WK 6 SL/U	57.506.9055.0
10	Feed through block	WKN 10/U	57.510.0155.0
11	Feed-through block, blue	WKN 10/U BLAU	57.510.0155.6
12	Ground block	WKN 10 SL/U	57.510.9055.0
13	Fuse block	WK 10 SI/U 5x20	57.910.5055.0
14	Feed through block	WKN 35/U	57.535.0155.0
15	Feed-through block, blue	WKN 35/U BLAU	57.535.0155.6
16	Ground block	WKN 35/U	57.535.9055.0
17	Partition	TW 2,5-4	07.311.1155.0
18	End plate	AP 2,5-4	07.311.0155.0
19	Cover strip with warning symbol	AD VB 6/4 GELB	04.343.4856.8
20	over 4 blocks Partition plate, yellow	TS 2,5 GELB	07.311.2053.8
21	Single cover for cross conn. with mark. facil.	AD VB 2,5 GELB	04.326.2053.8
22	Cross connector with screws, insulated	IVB WK 6-3	Z7.282.2327.0
23	Jumper comb, insulated	IVB 0,5 WK 4-3	Z7.255.0327.0
24	Test plug	ST 2/2,3	Z5.553.2921.0
25	Stud bolt for test plug	9011B	05.508.3221.0
26	Fuse holder with indicator	SIST LED	Z1.299.4155.0
27	Diode plug, without contacts	DIST	Z1.299.3155.0
28	Marking strip	9705 A/8/10 B	04.842.0153.0
29	End clamp with U-foot	WE 1/U	Z5.523.5753.0
30	Mounting rail	35 x 27 x 7,5 slotted	98.300.0000.0

Feed-through blocks type WK/WKN

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WK 2,5/U

fine stranded solid V A
0.5 – 2.5 mm² 0.5 – 4 mm² 800 V/8 kV/3 24
No. 22-12 AWG 600 V 20/30
No. 24-12 AWG 600 V 25
5 mm 9 mm



EN 60 947-7-1/DIN VDE 0611T1
UL-ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

Mounting instructions for EEx e applications

- If feed-through blocks are mounted directly adjacent to feed-through blocks of a different size, or directly adjacent to ground blocks, the open side of a group of the same type of blocks has to be covered by an end plate or partition.
- If neighboring terminal blocks are jumpered by a cross connector, the required isolation distances have to be maintained by inserting either a snap-in partition plate (without increasing pitch), an end plate, or a partition between the different block groups, in front of or behind the cross-connected terminal block group.

	Type	Part no.	Std. pack
Feed through block Color: gray	WK 2,5/U	57.503.0055.0	100
Feed-through block EEx i Color: blue	WK 2,5/U BLAU	57.503.0055.6	100
Feed-through block EEx e¹⁾ Color: gray	WK 2,5/U ²⁾	57.503.0055.0	100
Accessories			
1. Mounting rail TS 35, DIN rail 7.5mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail, 15mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm wide	9708	Z5.522.7053.0	100
3. End plate, 1.5 mm thick Color: gray	AP 2,5 - 4	07.311.0155.0	10
Color: blue	AP 2,5 - 4 BLAU	07.311.0155.6	10
End plate, 2 mm thick Color: gray			
Color: blue			
4. Partition, 1.5 mm thick Color: gray	TW 2,5 - 4	07.311.1155.0	10
Color: blue	TW 2,5 - 4 BLAU	07.311.1155.6	10
Partition, 2 mm thick Color: gray			
Color: blue			
Partition, 3 mm thick Color: gray			
Color: blue			
5. Cross connector with screws, E-Cu insulated (jumper) 2pole	IVB WK 2,5 - 2	Z7.280.2227.0	10
3pole	IVB WK 2,5 - 3	Z7.280.2327.0	10
to 12pole	IVB WK 2,5 - 12	Z7.280.3227.0	10
6. Single cover f. cross conn. with mark.facility	AD VB 2,5 GELB	04.326.2053.8	10
7. Snap-In partition	TS 2,5 GELB	07.311.2053.8	10
8. Cover strip f. cross conn. over 10 blocks with test hole	AD VB 5/10 P GELB	04.342.3556.8	10
Cover strip with warning symbol over 4 blocks	AD VB 5/4 GELB	04.343.4756.8	10
For more accessories see pages 160-177			
For marking systems see pages 178-179 and 200-202			

¹⁾ EEx e terminal blocks are subject to certification. The relevant indications in the certificate apply (e.g. 660V)

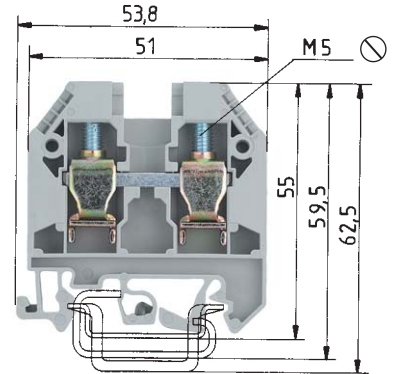
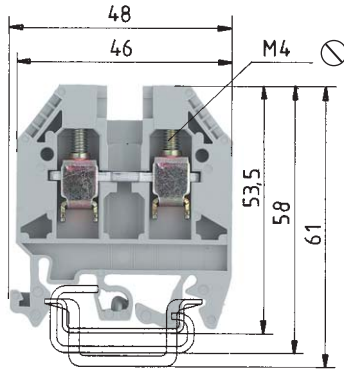
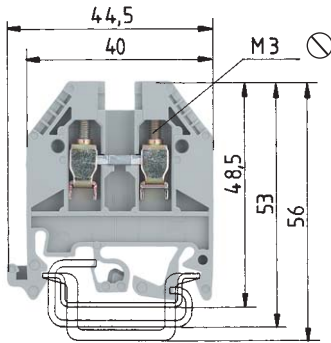
²⁾ Part certificates for EEx e approval: EEx e I/II L CIE 89.B0013 U; EEx e II A5EV 91.1 B11638U

UL wire connection variants

³⁾ or 2x no. 14 sol/str AWG
or 2x no. 16 sol/str AWG
or 2x no. 18 sol/str AWG
or 3x no. 20 sol/str AWG or 3x no. 22 sol/str AWG

⁴⁾ or 2x no. 12 sol/str AWG
or 2x no. 16 sol/str AWG
or 3x no. 18 sol/str AWG or 3x no. 22 sol/str AWG

⁵⁾ or 2x no. 12 sol/str AWG
or 2x no. 14 sol/str AWG
or 3x no. 16 sol/str AWG



WK 4/U

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3	32
No. 22-10 AWG ³⁾		600 V	30/35
No. 20-10 AWG		600 V	40
6 mm			9 mm



WK 6/U

fine stranded	solid	V	A
0.5 – 6 mm ²	2.5 – 10 mm ²	800 V/8 kV/3	41
No. 22-8 AWG ⁴⁾		600 V	50/50
No. 20-8 AWG		600 V	45
8 mm			11 mm



WKN 10/U

fine stranded	solid/stranded	V	A
2.5 – 10 mm ²	1.5 – 16 mm ²	800 V/8 kV/3	57
No. 16-6 AWG ⁵⁾		600 V	65/65
No. 16-6 AWG		600 V	70
10 mm			13 mm

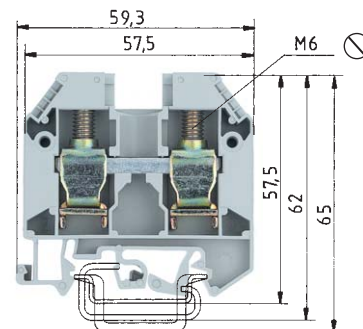


Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 4/U	57.504.0055.0	100	WK 6/U	57.506.0055.0	100	WKN 10/U	57.510.0155.0	50
WK 4/U BLAU	57.504.0055.6	100	WK 6/U BLAU	57.506.0055.6	100	WKN 10/U BLAU	57.510.0155.6	50
WK 4/U ²⁾	57.504.0055.0	100	WK 6/U ²⁾	57.506.0055.0	100	WKN 10/U	57.510.0155.0	50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
AP 2,5 - 4	07.311.0155.0	10	AP 6	07.311.0255.0	10	APN 10	07.311.6655.0	10
AP 2,5 - 4 BLAU	07.311.0155.6	10	AP 6 BLAU	07.311.0255.6	10	APN 10 BLAU	07.311.6655.6	10
TW 2,5 - 4	07.311.1155.0	10	TW 6	07.311.1255.0	10	TWN 10	07.311.7655.0	10
TW 2,5 - 4 BLAU	07.311.1155.6	10	TW 6 BLAU	07.311.1255.6	10	TWN 10 BLAU	07.311.7655.6	10
IVB WK 4 - 2	Z7.281.1227.0	10	IVB WK 6 - 2	Z7.282.2227.0	10	IVB WKN 10 - 2	Z7.283.2227.0	10
IVB WK 4 - 3	Z7.281.1327.0	10	IVB WK 6 - 3	Z7.282.2327.0	10	IVB WKN 10 - 3	Z7.283.2327.0	10
IVB WK 4 - 12	Z7.281.2227.0	10	IVB WK 6 - 12	Z7.282.3227.0	10	IVB WKN 10 - 12	Z7.283.3227.0	10
AD VB 4 GELB	04.326.2153.8	10	AD VB 6 GELB	04.326.2253.8	10	AD VB 10 GELB	04.326.2353.8	10
TS 4 GELB	07.311.2153.8	10	TS 6 GELB	07.311.2253.8	10	TS 10 GELB	07.311.2353.8	10
AD VB 6/10 P GELB	04.342.3656.8	10	AD VB 8/10 P GELB	04.342.3856.8	10	AD VB 10/10 P GELB	04.342.4056.8	10
AD VB 6/4 GELB	04.343.4856.8	10	AD VB 8/4 GELB	04.343.4956.8	10	AD VB 10/4 GELB	04.343.5056.8	10

* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending

* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending

* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending



WKN 16/U

fine stranded	solid/stranded	V	A
4 – 16 mm ²	1.5 – 25 mm ²	800 V/8 kV/3	76
No. 12-4 AWG		600 V	85/90
No. 14-4 AWG		600 V	95
12 mm			15 mm

EN 60 947-7-1/DIN VDE 0611 T1
UL-ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals



Mounting instructions for EEx e applications

- If feed-through blocks are mounted directly adjacent to feed-through blocks of a different size, or directly adjacent to ground blocks, the open side of a group of the same type of blocks has to be covered by an end plate or partition.
- If neighboring terminal blocks are jumpered by a cross connector, the required isolation distances have to be maintained by inserting either a snap-in partition plate (without increased pitch), an end plate, or a partition between the different block groups, in front of or behind the cross-connected terminal block group.

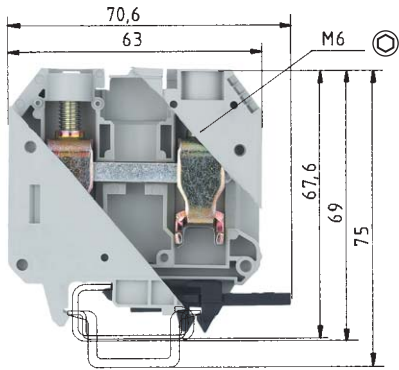
	Type	Part no.	Std. pack
Feed through block Color: gray	WKN 16/U	57.516.0155.0	50
Feed-through block EEx i Color: blue	WKN 16/U BLAU	57.516.0155.6	50
Feed-through block EEx e*¹⁾ Color: gray	WKN 16/U ²⁾	57.516.0155.0	50
Accessories			
1. Mounting rail TS 35, DIN rail 7.5mm high L = 2 m	35 x 27 x 7.5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail, 15mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm wide	9708	Z5.522.7053.0	100
3. End plate, 1.5 mm thick Color: gray			
Color: blue			
End plate, 2 mm thick Color: gray	APN 16	07.311.6755.0	10
Color: blue	APN 16 BLAU	07.311.6755.6	10
Partition, 1.5 mm thick Color: gray			
Color: blue			
Partition, 2 mm thick Color: gray	TWN 16	07.311.7755.0	10
Color: blue	TWN 16 BLAU	07.311.7755.6	10
Partition, 3 mm thick Color: gray			
Color: blue			
5. Cross connector with screws, E-Cu insulated (jumper) 2pole	IVB WKN 16 - 2	Z7.284.2227.0	10
3pole	IVB WKN 16 - 3	Z7.284.2327.0	10
to 12pole	IVB WKN 16 - 12	Z7.284.3227.0	10
6. Single cover f. cross conn. with mark.facility			
7. Partition plate with marking facility	TSN 16 GELB	07.311.8453.8	10
Partition plate with cover	TSN AD 16 GELB	07.311.8553.8	10
8. Cover strip for cross conn. over 10 blocks			
Cover strip with warn. symb. over 4 blocks	AD VB 12/4 GELB	04.343.5156.8	10
For more accessories see pages 160-177			
For marking systems see pages 178-179 and 200-202			

³⁾ with CCA certificate

¹⁾ EEx e terminal blocks are subject to certification. The relevant indications in the certificate apply (e.g. 660V)

²⁾ Part certificates for EEx e approval: EEx e II ASEV 91.1 B11638U

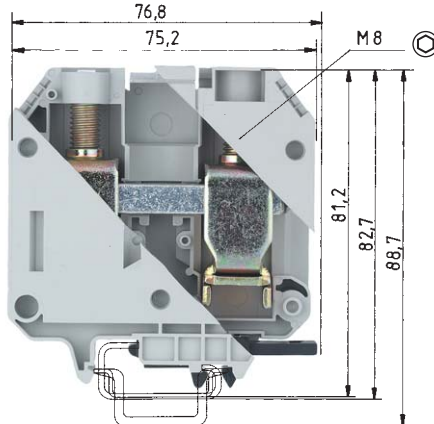
* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending



enclosed design

WKN 35/U

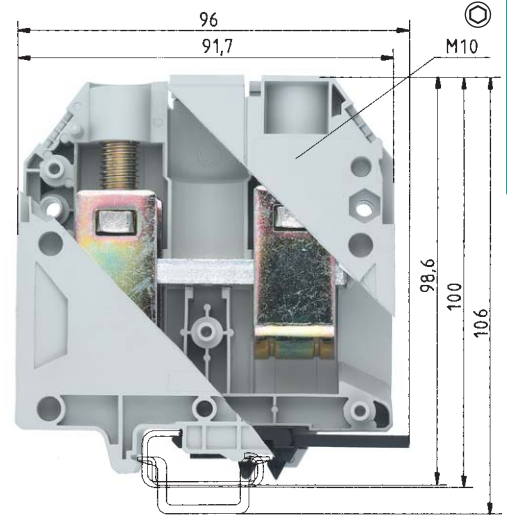
fine stranded	stranded	V	A
10–35 mm ²	10–50 mm ²	800 V/8 kV/3	125
No. 10-2 AWG		600 V	95/95
No. 10-2 AWG		600 V	110
16 mm			18 mm



enclosed design

WKN 70/U

fine stranded	stranded	V	A
10–70 mm ²	16–95 mm ²	800 V/8 kV/3	192
No. 6-2/0 AWG		600 V	175/175
No. 6-2/0 AWG		600 V	170
24 mm			24 mm



enclosed design

WKN 150/U

fine stranded	stranded	V	A
35–150 mm ²	35–185 mm ²	1000 V/8 kV/3	309
No. 2/0 AWG - 350 kcmil		600 V	335/335
No. 2/0 AWG - 350 MCM		1000 V	365
28 mm			30 mm



Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKN 35/U	57.535.0155.0	20	WKN 70/U	57.570.0155.0	20	WKN 150/U	57.597.0155.0	10
WKN 35/U BLAU	57.535.0155.6	20	WKN 70/U BLAU	57.570.0155.6	20	WKN 150/U BLAU	57.597.0155.6	10
WKN 35/U ²⁾	57.535.0155.0	20	WKN 70/U ²⁾	57.570.0155.0	20	WKN 150/U ²⁾	57.597.0155.0	10
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
TWN 35	07.311.7855.0	10	TWN 70	07.311.7955.0	10			
TWN 35 BLAU	07.311.7855.6	10	TWN 70 BLAU	07.311.7955.6	10			
			jumper bars uninsulated see page 165			jumper bars uninsulated see page 165		
IVB WKN 35 - 2	Z7.285.2227.0	5						
IVB WKN 35 - 3	Z7.285.2327.0	5						
IVB WKN 35 - 12	Z7.285.3227.0	5						
AD VB 35 GELB	04.326.2553.8	10	AD VB 70 GELB	04.326.2653.8	10			
AD VB 16/4 GELB	04.343.5256.8	10	AD VB 24/4 GELB	04.343.5356.8	10	AD VB 28/4 GELB	04.343.5456.8	10

* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending

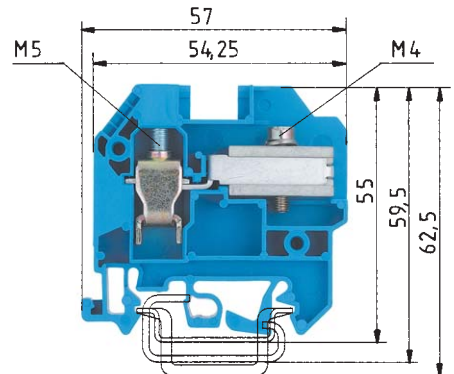
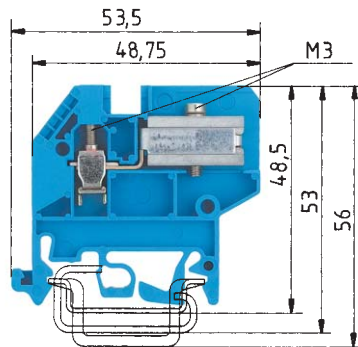
^{1) 2)} CL I, ZN1, AExe II, Exe II pending

^{1) 2)} CL I, ZN1, AExe II, Exe II pending

Neutral disconnect blocks for installation with U-foot, type WKN

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Current carrying capability:
fine stranded: 4 mm² 25 A
solid: 6 mm² 30 A

Current carrying capability:
fine stranded: 10 mm² 45 A
stranded: 16 mm² 50 A

WKN 4 ETK/U

fine stranded solid V A
0.5 – 4 mm² 0.5 – 6 mm² 400 V/6 kV/3*)
CSA No. 20-10 AWG 600V 25
6 mm 9 mm



WKN 10 ETK/U

fine stranded solid/stranded V A
1 – 10 mm² 1 – 16 mm² 400 V/6 kV/3*)
CSA No. 16-6 AWG 600V 45
10 mm 13 mm

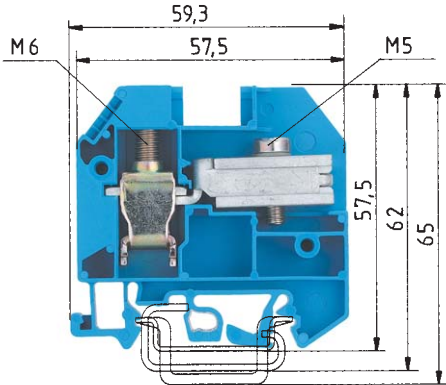


EN 60 947-7-1/DIN VDE 0611 T1
UL-ratings/CSA ratings field/factory wiring
Width Wire strip length
Approvals

Neutral disconnect block		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Color: blue		WKN 4 ETK/U	57.504.8155.0	100	WKN 10 ETK/U	57.510.8155.0	50
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS 32, with screw	7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate	1,5 mm thick						
	Color: gray						
	Color: blue	APN 4 ETK	07.312.1155.0	10	APN 10 ETK	07.312.0955.0	10
End plate	2 mm thick						
	Color: gray						
	Color: blue						
4. Partition, 1.5 mm thick	Color: gray						
	Color: blue						
Partition, 2 mm thick	Color: gray						
	Color: blue						
Partition, 3 mm thick	Color: gray						
	Color: blue						
5. Busbar support 10 x 3	4 mm wide	WKI SH/U	01.108.3255.0	10	WKI SH/U	01.108.3255.0	10
6. Busbar E-Cu, 10 x 3	L = 1 m	9813 M	98.290.0000.0	1	9813 M	98.290.0000.0	1
Busbar, tin-plated, 10 x 3	L = 1 m	9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1
7. Connector clamps for busbar	Farbe: blue						
Connector clamps for busbar	Color: unplated						
8. Single cover f. cross conn. with marking facility		AD VB 4 GELB	04.326.2153.8	10	AD VB 10 GELB	04.326.2353.8	10
9. Partition plate with marking facility							
10. Cover strip for cross conn. over 10 blocks							
Cover strip with warn. symb. over 4 blocks							
For more accessories see pages 160-177							
For marking systems see pages 178-179 and 200-202							
*) For use in grounded networks 690/400 V							

Connector clamps for Cu busbar (10 x 3 mm), type WAK

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Current carrying capability:

fine stranded: 16 mm² 62 A
stranded: 25 mm² 67 A

EN 60 998-2-1 CCA/CH

EN 60 998-2-1 CCA/CH

WKN 16 ETK/U

fine stranded solid/stranded V A
1 – 16 mm² 1 – 25 mm² 400 V/6 kV/3*)
CSA No. 14-4 AWG 600V 65
12 mm 15 mm



WAK 16/2

fine stranded stranded V A
1,5 – 16 mm² 10 – 16 mm² 76
8,4 mm 16 mm



WAK 35/2

fine stranded stranded V A
16 – 35 mm² 16 – 35 mm² 125
17 mm 14 mm

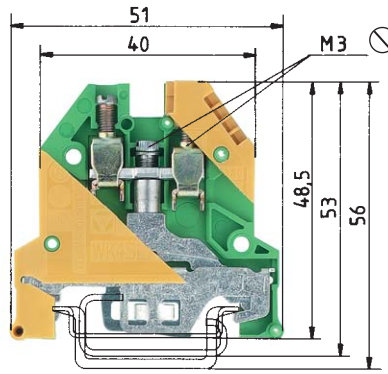


Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKN 16 ETK/U	57.516.8155.0	50						
35 x 27 x 7,5 EN 60715	98.300.0000.0	1						
35 x 24 x 15 EN 60715	98.360.0000.0	1						
9006 EN 60715 G-32	98.190.0000.0	1						
WE 1/U	Z5.523.5753.0	100						
9708/2 S35	Z5.522.8553.0	100						
9708	Z5.522.7053.0	100						
APN 16 ETK	07.312.0855.0	10						
WKI SH/U	01.108.3255.0	10						
9813 M	98.290.0000.0	1						
9813 M SN	98.290.1000.0	1						
			WAK 16/2 BLAU	30.494.3021.6	100	WAK 35/2 BLAU	30.494.4021.6	
						WAK 35/2	30.494.4121.0	50
AD VB 16 GELB	04.326.2453.8	10						

Ground blocks type WK/WKN... SL/U

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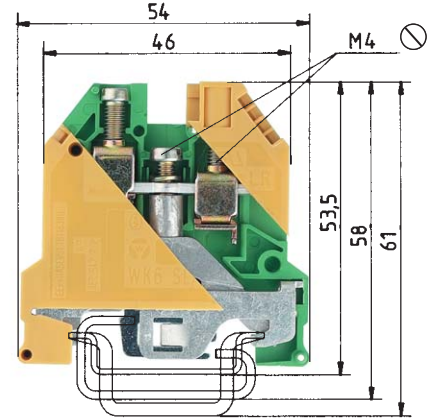
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enclosed design

WK 4 SL/U

fine stranded solid V A
0.5 – 4 mm² 0.5 – 6 mm² 800 V/8 kV/3^{*)} **)
No. 22-10 AWG
No. 20-10 AWG
6 mm 9 mm
EPM SEV-EEX AEN N NV FI KECH CECS S LR RU * CE **
BKI-EEx B



enclosed design

WK 6 SL/U

fine stranded solid V A
0.5 – 6 mm² 0.5 – 10 mm² 800 V/8 kV/3^{*)} **)
No. 22-8 AWG
No. 20-8 AWG
8 mm 12 mm
EPM SEV-EEX AEN N NV FI KECH CECS S LR RU * CE **
BKI-EEx B

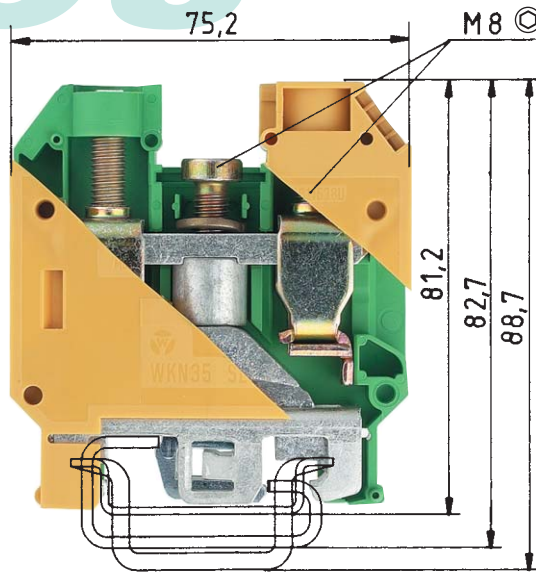
EN 60 947-7-2/DIN VDE 0611 T3
UL-ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

Ground block with U-foot	Color: yellow/green	Type	Part no.	Std. pack	Type	Part no.	Std. pack
EEx e ground block with U-foot¹⁾		WK 4 SL/U	57.504.9055.0	100	WK 6 SL/U	57.506.9055.0	100
		WK 4 SL/U ²⁾	57.504.9055.0	100	WK 6 SL/U ²⁾	57.506.9055.0	100
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail, 15mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide						
End clamp TS 35, with screw	8 mm wide						
End clamp TS 32, with screw	7.5 mm wide						
3. End plate, 1.5 mm thick	Color: gray						
	Color: blue						
End plate, 2 mm thick	Color: gray						
	Color: blue						
4. Partition, 1.5 mm thick	Color: gray						
	Color: blue						
Partition, 2 mm thick	Color: gray						
	Color: blue						
Partition, 3 mm thick	Color: gray						
	Color: blue						
5. Cross connector with screws, E-Cu insulated (jumper)	2pole						
	3pole						
	to 12pole						
6. Single cover f. cross conn. with marking facility							
7. Snap-in partition plate with marking facility							
8. Cover strip for cross conn. over 10 blocks							
Cover strip with warn. symb. over 4 blocks							
For more accessories see pages 160-177							
For marking systems see pages 178-179 and 200-202		* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending					
^{*)} Ratings to adjacent feed-through blocks of the same series and size ^{**)} For the current carrying capability of the mounting rail see section facts & DATA ¹⁾ EEx e terminal blocks are subject to certification. The relevant indications in the certificate apply (e.g. 660V) ²⁾ Part certificates for EEx e approval: EEx e II ASEV 91.1 B11638U							
						* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending	

Ground blocks with screw connection, type **WKN**

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For ground blocks of 70 mm² or more only mounting rails from E-copper must be used because of the current carrying capability.



enclosed design available from October 2001

WKN 70 SL/U

fine stranded stranded V A
10 – 70 mm² 16 – 95 mm² 800 V/8 kV/3 **)

CSA No. 6-2/0 AWG Pending
24 mm



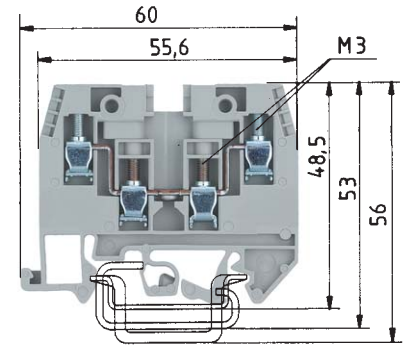
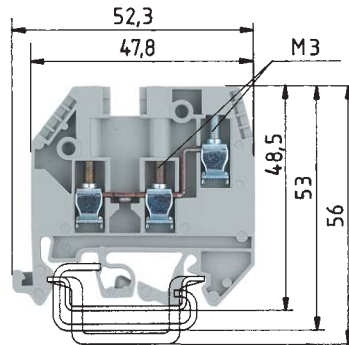
DIN VDE 0611 Teil 3/11.89, DIN VDE 0110/01.89
UL-ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

	Type	Part no.	Std. pack
Ground block with U-foot Color: yellow/green	WKN 70 SL/U	57.570.9055.0	
Ground block for TS 35 EN60715 Color: yellow/green			
Accessories			
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m			
Mounting rail TS 35, DIN rail, 15mm high L = 2 m	35 x 24 x 15 EN 60715 CU	98.380.0000.0	10
Mounting rail TS 32, G rail L = 2 m	9006 EN 60715 G-32 E-CU	98.220.0000.0	10
2. End clamp with U-foot 10 mm wide			
End clamp TS 35, with screw 8 mm wide			
End clamp TS 32, with screw 7.5 mm wide			
3. End plate, 1.5 mm thick Color: gray			
Color: blue			
End plate, 2 mm thick Color: gray			
Color: blue			
4. Partition, 1.5 mm thick Color: gray			
Color: blue			
Partition, 2 mm thick Color: gray			
Color: blue			
Partition, 3 mm thick Color: gray			
Color: blue			
5. Cross connector (jumper) with screws, E-Cu			
insulated 2pole			
3pole			
to 12pole			
6. Single cover f. cross conn. with marking facility			
7. Partition plate with marking facility			
8. Cover strip for cross conn. over 10 blocks			
Cover strip with warn. symb. over 4 blocks			
For more accessories see pages 160-177			
For marking systems see pages 178-179 and 200-202	* CL I, ZN1, AExe II / Exe II pending		
**1) For the current carrying capability of the mounting rail see section facts & DATA			

Duo feed through blocks, type WK 4/D...

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EN 60 947-7-1/DIN VDE 0611 T1
EN 60 947-7-2/DIN VDE 0611 T3
UL-ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

WK 4/D 1/2 /U

fine stranded solid V A
0.5 – 4 mm² 0.5 – 6 mm² 500 V/6 kV/3 32
No. 22-10 AWG 600 V 30
No. 20-10 AWG 600 V 30
6 mm 9 mm

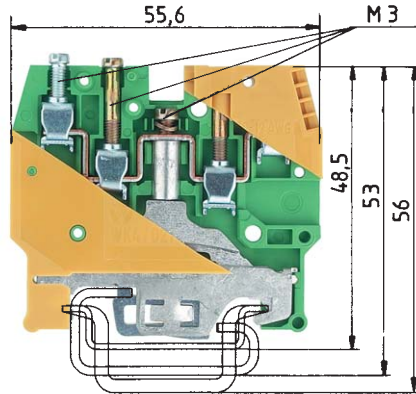
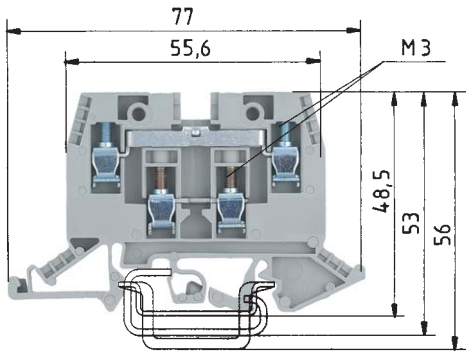


WK 4/D 2/2 /U

fine stranded solid V A
0.5 – 4 mm² 0.5 – 6 mm² 500 V/6 kV/3 32
No. 22-10 AWG 600 V 30
No. 20-10 AWG 600 V 30
6 mm 9 mm



	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Duo feed-through block 1/2	Color: gray	WK 4/D 1/2 /U	57.504.5055.0 100			
	Color: blue	WK 4/D 1/2 /U BLAU	57.504.5055.6 100			
Duo feed-through block 2/2	Color: gray			WK 4/D 2/2 /U	57.504.5155.0 100	
	Color: blue			WK 4/D 2/2 /U BLAU	57.504.5155.6 100	
Duo multi-tier block	Color: gray					
Duo ground block 2/2	Color: green/yellow					
Accessories						
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m		35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	
Mounting rail TS 35, DIN rail 15 mm high L = 2 m		35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1	
Mounting rail TS 32, G rail L = 2 m		9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1	
2. End clamp with U-foot 10 mm wide		WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100	
End clamp TS 35, with screw 8 mm wide		9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100	
End clamp TS 32 with screw 7.5 mm wide		9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100	
3. End plate, 1.5 mm thick	Color: gray	AP 4/D 1/2	07.311.6455.0 10	AP 4/D..	07.311.6355.0 10	
	Color: blue	AP 4/D 1/2 BLAU	07.311.6455.6	AP 4/D.. BLAU	07.311.6355.6 10	
4. Partition, 1.5 mm thick	Color: gray					
5. Cross connector with screws, E-Cu insulated (jumper)	2pole	IVB WK 4 D...-2	Z7.281.7227.0 10	IVB WK 4 D...-2	Z7.281.7227.0 10	
	3pole	IVB WK 4 D...-3	Z7.281.7327.0 10	IVB WK 4 D...-3	Z7.281.7327.0 10	
	to 12pole	IVB WK 4 D...-12	Z7.281.8227.0 10	IVB WK 4 D...-12	Z7.281.8227.0 10	
6. Jumper comb for lower tier blocks						
insulated	2pole	IVK WK 4/D...-2	Z7.256.2227.0 10	IVK WK 4/D...-2	Z7.256.2227.0 10	
	to 6pole	IVK WK 4/D...-6	Z7.256.2627.0 10	IVK WK 4/D...-6	Z7.256.2627.0 10	
Jumper comb, straight, 1mm thick	2pole					
	to 6pole					
7. Single cover f. cross conn. with marking facility		AD VB 4 GELB	04.326.2153.8 10	AD VB 4 GELB	04.326.2153.8 10	
8. Partition plate with marking facility		TS 4/15 GELB	07.311.2953.8 10	TS 4/15 GELB	07.311.2953.8 10	
9. Cover strip for cross conn. over 10 blocks		AD VB 6/10 GELB	04.342.0656.8 10	AD VB 6/10 GELB	04.342.0656.8 10	
Cover strip with warn. symb. over 4 blocks						
10. Cover with warning symbol						
For more accessories see pages 160-177						
For marking systems see pages 178-179 and 200-202						
		* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending			* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending	



*) 500 V/6 kV/3 with partition plate 07.311.2953.8 between two adjacent blocks
 **) with partition plate 07.311.2953.8 between two adjacent blocks

enclosed design

*) For the ratings to adjacent feed-through blocks of the same series and size and the current carrying capability of the mounting rail see section **facts & DATA**

WK 4/D EU

	V	A
0.5 – 4 mm ² 0.5 – 6 mm ² 320 V/4 kV/3*)		26
No. 22-10 AWG	300 V**)	30
No. 20-10 AWG	600 V**)	30
6 mm		9 mm



WK 4/D 2/2 SL U

	V	A
0.5 – 4 mm ² 0.5 – 6 mm ² 500 V/6 kV/3*)		
No. 22-10 AWG		
No. 20-10 AWG		
6 mm		9 mm

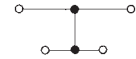
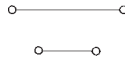
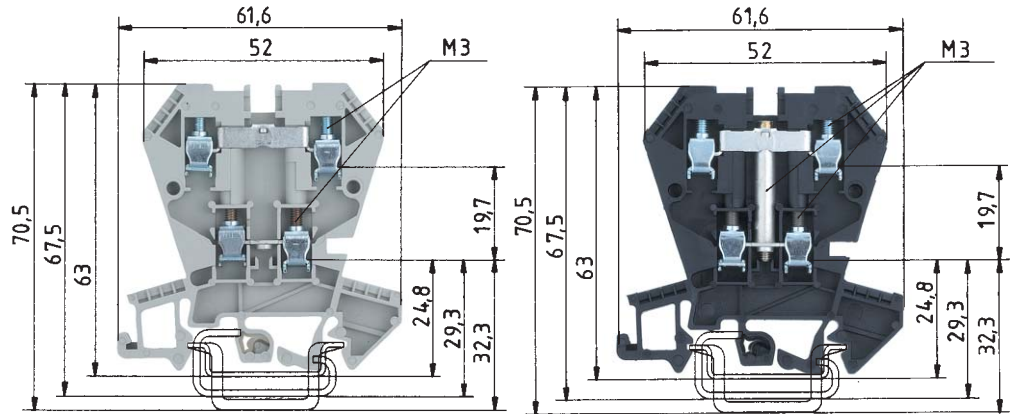


Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 4/D EU	57.504.5255.0	100	WK 4/D 2/2 SL U	57.504.9155.0	100
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
WE 1/U	Z5.523.5753.0	100			
9708/2 S 35	Z5.522.8553.0	100			
9708	Z5.522.7053.0	100			
AP 4/D...	07.311.6355.0	10			
AP 4/D.. BLAU	07.311.6355.6	10			
IVB WK 4/DEU-2	Z7.271.0227.0	10			
IVB WK 4 /DEU-3	Z7.271.0327.0	10			
IVB WK 4/DEU-12	Z7.271.1227.0	10			
IVK WK 4/D...-2	Z7.256.2227.0	10			
IVK WK 4/D...-6	Z7.256.2627.0	10			
AD VB 4 GELB	04.326.2153.8	10			
TS 4/15 GELB	07.311.2953.8	10			
AD VB 6/10 GELB	04.342.0656.8	10			
* CL I, ZN1, AExe II / **CL I, ZN1, Exe II			* CL I, ZN1, AExe II / **CL I, ZN1, Exe II		

Multi-tier blocks type WK 4 E...

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EN 60 947-7-1/DIN VDE 0611 T1
EN 60 947-7-2/DIN VDE 0611 T3
UL-ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

WK 4 E/U

fine stranded solid V A
0.5 – 4 mm² 0.5 – 4 mm² 400 V/6 kV/3¹⁾ 32
No. 22-10 AWG 300 V 20
No. 20-12 AWG 300 V 10
6 mm 9 mm



WK 4 E/U /VB

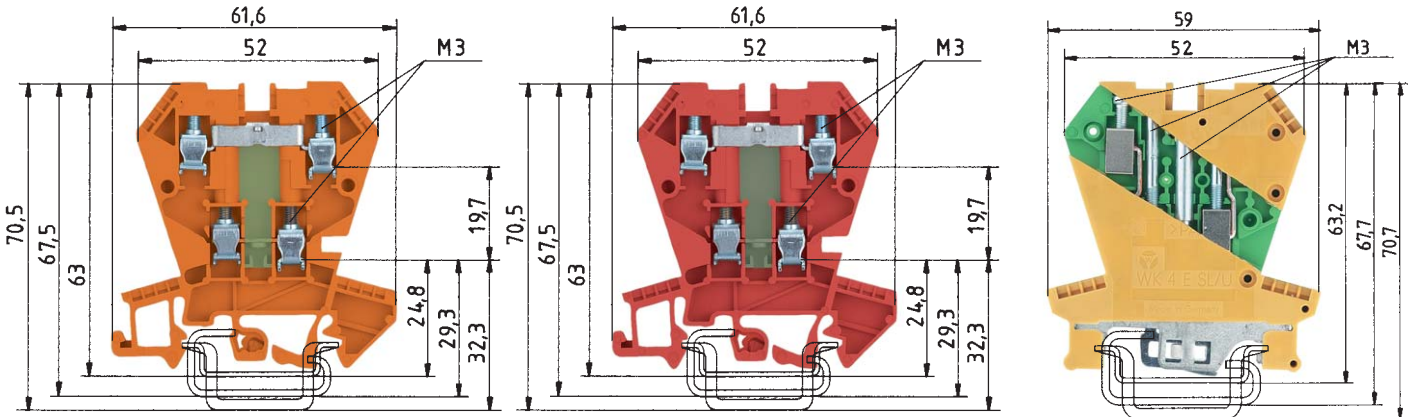
fine stranded solid V A
0.5 – 4 mm² 0.5 – 4 mm² 400 V/6 kV/3 32
No. 22-10 AWG 300 V 20
No. 20-12 AWG 300 V 10
6 mm 9 mm



	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Multi-tier block Color: gray	WK 4 E/U	57.404.7055.0	100			
Multi-tier block Color: black				WK 4 E/U/VB SCHWARZ	57.404.6955.1	100
Multi-tier block with inverted diode Color: orange						
Multi-tier block Color: red						
Ground block Color: green/yellow						
Accessories						
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32 with screw 7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate, 1.5 mm thick Color: gray	AP 4 E	07.311.4055.0	10	AP 4 E	07.311.4055.0	10
Partition, 1.5 mm thick Color: gray	TW 4 E	07.311.5055.0	10	TW 4 E	07.311.5055.0	10
5. Cross connector with screws, E-Cu						
uninsulated for top tier 2pole	9215-2	Z7.210.3227.0	50		Z7.210.3227.0	50
3pole	9215-3	Z7.210.3327.0	50		Z7.210.3327.0	50
to 6pole	9215-6	Z7.210.3627.0	50		Z7.210.3627.0	50
6. Jumper comb for lower tier block						
angled, 1 mm thick insulation 2pole	IVBS WK 4 E-2	Z7.256.4227.0	10	IVBS WK 4 E-2	Z7.256.4227.0	10
to 6pole	IVBS WK 4 E-6	Z7.256.4627.0	10	IVBS WK 4 E-6	Z7.256.4627.0	10
Jumper comb for lower tier block						
straight, 1mm thick insulated 2pole	IVB WK 4 E-2Z7.255.2227.0	10		IVB WK 4 E-2	Z7.255.2227.0	10
to 6pole				IVB WK 4 E-6	Z7.255.2627.0	10
7. Single cover f. cross conn. with marking facility	IVB WK 4 E-6	Z7.255.2627.0	10			
8. Snap-in partition plate with marking facility	AD VB 4/15 GELB	04.326.2953.8	10			
9. Cover strip for cross conn. over 10 blocks				AD VB 6/10 E GELB	04.342.2656.8	10
Cover strip with warning symbol over 4 blocks	AD VB 6/10 E GELB	04.342.2656.8	10			
For more accessories see pages 160-177						
For marking systems see pages 178-179 and 200-202						
¹⁾ With end plates 500 V/6 kV/3						

* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending

Ground block Type WK 4 E SL/U



Diode versions: 300 V max. LED version 24 V DC max.

enclosed design
*) Rating to the adjacent feed-through block of the same series and size. For the current carrying capability of the mounting rail see section **facts & DATA**

WK 4 E/U...

fine stranded solid V A
0.5–4 mm² 0.5–4 mm²
No. 22-10 AWG
No. 20-12 AWG
6 mm 9 mm
UL N VW P S LR UL CE GS B

WK 4 E/U...

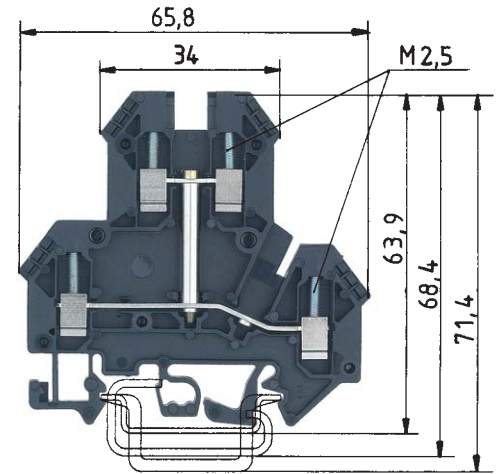
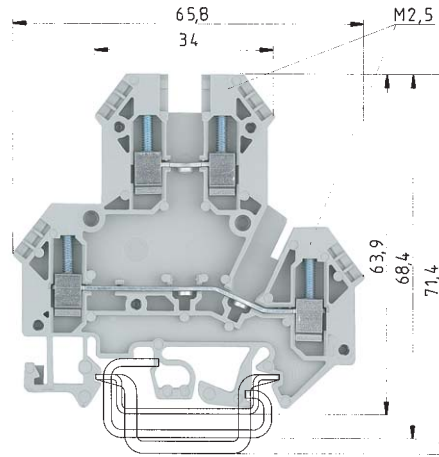
fine stranded solid V A
0.5–4 mm² 0.5–4 mm²
No. 22-10 AWG
No. 20-12 AWG
6 mm 9 mm
UL N VW P S LR UL CE GS B

WK 4 E SL/U

fine stranded solid V A
0.5–4 mm² 0.5–6 mm² 500 V/6 kV/3*)
No. 22-12 AWG
No. 22-10 AWG
6.2 mm 9 mm
UL * CE GS B

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 4 E/U...	57.404.XX55.9		57.404.8355.5			WK 4 E SL/U	57.504.9255.0	100
WK 4 E/U...	57.404.XX55.5		57.404.8055.9		1 A/1000 V			
			57.404.8255.5		1 A/1000 V			
			57.404.8155.9		1 A/1000 V			
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	57.404.7255.5 LED red		R = 2.2 K 0.35 W	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	57.404.8755.5 LED green		R = 2.2 K 0.35 W	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	57.404.7455.9 LED red		R = 2.2 K 0.35 W	9006 EN 60715 G-32	98.190.0000.0	1
WE 1/U	Z5.523.5753.0	100				WE 1/U	Z5.523.5753.0	100
9708/2 S 35	Z5.522.8553.0	100				9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100				9708	Z5.522.7053.0	100
AP 4 E	07.311.4055.0	10						
TW 4 E	07.311.5055.0	10						
			57.404.7955.5					
			57.404.8855.9		1 A/1000 V			
			57.404.8455.5		1 A/1000 V R = 6.8 K 0.6 W			
IVBS WK 4 E-2	Z7.256.4227.0	10						
IVBS WK 4 E-6	Z7.256.4627.0	10						
IVB WK 4 E-2	Z7.255.2227.0	10						
IVB WK 4 E-6	Z7.255.2627.0	10						
			57.404.6255.9		1 A/1000 V R = 2.2 K 0.35 W			

* CL I, ZN1, AExe II



EN 60 947-7-1/DIN VDE 0611 T1
 UL-ratings field/factory wiring
 CSA ratings
 Width Wire strip length
 Approvals

WKN 2,5 E/U

fine stranded solid V A
 0.5 – 2.5 mm² 0.5 – 4 mm² 500 V/6 kV/3 24
 No. 22-12 AWG 600 V 20/25
 No. 24-12 AWG 600 V 25
 5 mm 8 mm

WKN 2,5 E/U/VB

fine stranded solid V A
 0.5 – 2.5 mm² 0.5 – 4 mm² 500 V/6 kV/3 24
 No. 22-12 AWG 600 V 20/25
 No. 24-12 AWG 600 V 25
 5 mm 8 mm

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Multi-tier feed-through block	Color: gray	WKN 2,5 E/U	57.403.7055.0 100			
uper and lower feed-through tier connected	Color: black			WKN 2,5 E/U/VB	57.403.6955.1 100	
Accessories						
1. Mounting rail TS 35, DIN rail 7.5mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate 1.5 mm thick	APN 2,5 E	07.312.1755.0	10	APN 2,5 E	07.312.1755.0	10
4. Partition 1.5 mm thick	TWN 2,5 E	07.312.1855.0	10	TWN 2,5 E	07.312.1855.0	10
5. Cross connector with screws for upper and lower feed-through tier, insulated	2pole	IVB WK 2,5 - 2	Z7.280.2227.0 10	IVB WK 2,5 - 2	Z7.280.2227.0 10	
	3pole	IVB WK 2,5 - 3	Z7.280.2327.0 10	IVB WK 2,5 - 3	Z7.280.2327.0 10	
	to 12pole	IVB WK 2,5 - 12	Z7.280.3227.0 10	IVB WK 2,5 - 12	Z7.280.3227.0 10	
6. Single cover f. cross conn. with marking facility	AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	10
7. Cover strip for cross conn. over 10 blocks	AD VB 5/10 GELB	04.342.0556.8	10	AD VB 5/10 GELB	04.342.0556.8	10
8. Cover strip with warning symbol over 4 blocks		04.343.4756.8	10		04.343.4756.8	10
9. Sanp-in partition plate	TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10
For marking systems see pages178-183						
			* CL I, ZN1, AExe II pending			

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Sensor/actuator blocks 250 V onlinecomponents.com with LED for 24 V

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- Compact design for sensor/actuator wiring
- Insulated jumpers eliminate redundant wiring
- The blocks are also available with integrated LED for NPN or PNP sensors
- The use of cross connectors (jumper combs), requires partitions in order to maintain the air and creepage distances.

Indicator: R = 2.2 K; 0.35 W
Lamp color: green: 24 V DC

*) 24 V_{DC} with LED

EN 60 947-7-1/DIN VDE 0611 T1

UL-ratings field/factory wiring

CSA ratings

Width Wire strip length

Approvals

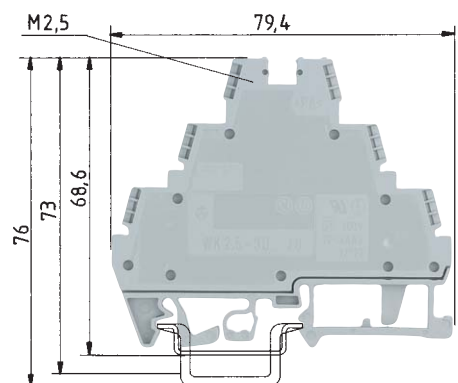
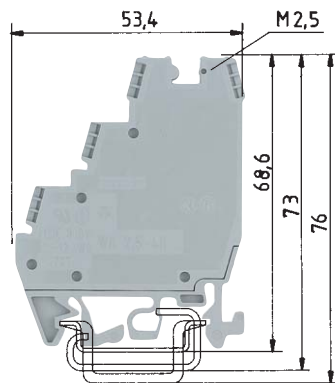
WK 2,5-4 KI/U

fine stranded solid V A
0.5 – 2.5 mm² 0.5 – 4 mm² 250 V/4 kV/3*) 24
No. 22-12 AWG 300 V*) 25
No. 22-12 AWG 300 V*) 25
6 mm 7 mm

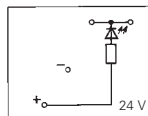


WK 2,5-3 D/U

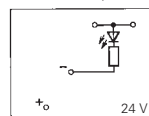
fine stranded solid V A
0.5 – 2.5 mm² 0.5 – 4 mm² 400 V/6 kV/3*) 24
No. 22-12 AWG 300 V*) 25
No. 22-12 AWG 300 V*) 25
6 mm 7 mm



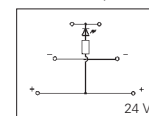
WK 2,5 - 4 KI/U-NGN



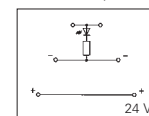
WK 2,5 - 4 KI/U-PGN



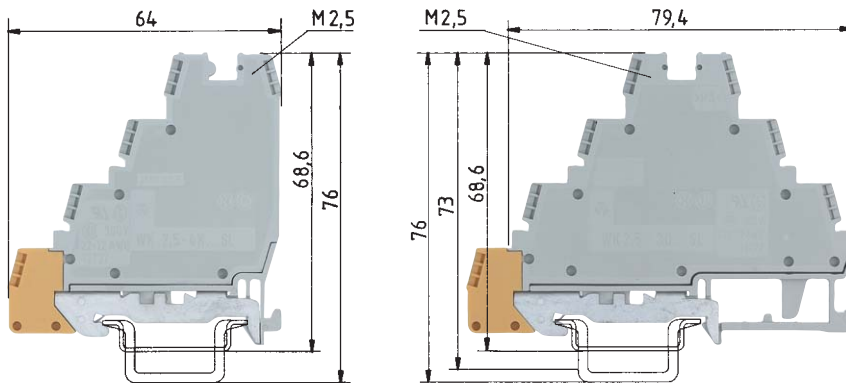
WK 2,5 - 3 D/U-NGN



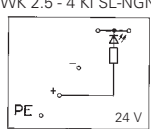
WK 2,5 - 3 D/U-PGN



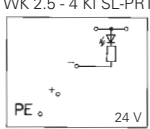
		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Sensor/actuator block	Color: gray	WK 2,5 - 4 KI/U	57.503.7855.0	100			
	with LED (green) for NPN	WK 2,5 - 4 KI/U-NGN	57.503.7955.0	100			
	with LED (green) for PNP	WK 2,5 - 4 KI/U-PGN	57.503.8055.0	100			
	with LED (red) for PNP						
Three-tier feed through block	Color: gray				WK 2,5 - 3 D/U	57.503.8855.0	50
	with LED for NPN				WK 2,5 - 3 D/U-NGN	57.503.8955.0	50
	with LED for PNP				WK 2,5 - 3 D/U-PGN	57.503.9055.0	50
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m		35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high L = 2 m		35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail L = 2 m		9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide		WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
End clamp TS 35, with screw 8 mm wide		9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm wide		9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. Partition, 2 mm thick Color: gray		TW 2,5 - 3 K/U	07.312.0555.0	10	TW 2,5 - 3 D/U	07.312.1255.0	50
4. Cross connector with screws, E-Cu insulated (jumpers) 2pole, yellow					IVB WK/3D-02	Z7.270.0227.0	10
3pole, yellow					IVB WK/3D-03	Z7.270.0327.0	10
to 12pole, yellow					IVB WK/3D-12	Z7.270.1227.0	10
5. Jumper comb, angled (middle & lower tier) insulated		IVB WK 2,5-K-2 ROT	Z7.267.0227.5	10	IVB WK 2,5-K-2 ROT	Z7.267.0227.5	10
to 12pole, red		IVB WK 2,5-K-12 ROT	Z7.267.1227.5	10	IVB WK 2,5-K-12 ROT	Z7.267.1227.5	10
insulated		IVB WK 2,5-K-2 BLAU	Z7.267.0227.6	10	IVB WK 2,5-K-2 BLAU	Z7.267.0227.6	10
to 12pole blue		IVB WK 2,5-K-12 BLAU	Z7.267.1227.6	10	IVB WK 2,5-K-12 BLAU	Z7.267.1227.6	10
For more accessories see pages 160-177							
For marking systems see pages 178-179 and 200-202							



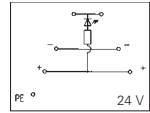
WK 2,5 - 4 KI SL-NGN



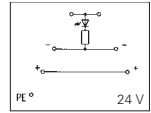
WK 2,5 - 4 KI SL-PGN
WK 2,5 - 4 KI SL-PRT



WK 2,5 - 3 D SL-NGN



WK 2,5 - 3 D SL-PGN



- The four tier terminals (signal, plus, minus, and shield/ground) are fully enclosed, clam shell with the ground connection snapped on the lower tier.
- These versions are designed only for TS 35 mounting rails due to the integrated ground foot.
- The rated voltage for the adjacent terminal also apply to the ground terminal.

Indicator: R = 2.2 K; 0.35 W
Lamp color: green: 24 V DC
red: 24 V DC

WK 2,5-4 KI/SL

	V	A
fine stranded solid		
0.5 – 2.5 mm ² 0.5 – 4 mm ²	250 V/4 kV/3*)	24
No. 22-12 AWG	300 V*)	25
No. 22-12 AWG	300 V*)	25
6 mm		7 mm



WK 2,5-3 D/SL

	V	A
fine stranded solid		
0.5 – 2.5 mm ² 0.5 – 4 mm ²	400 V/6 kV/3*)	24
No. 22-12 AWG	300 V*)	25
No. 22-12 AWG	300 V*)	25
6 mm		7 mm

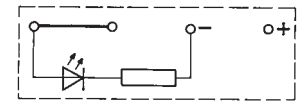
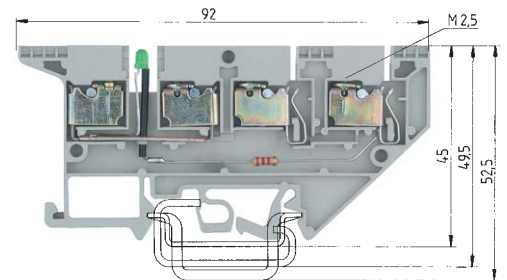
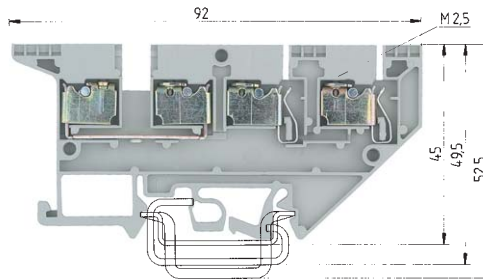


Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 2,5 - 4 KI SL	56.503.7355.0	100			
WK 2,5 - 4 KI SL-NGN	56.503.7455.0	100			
WK 2,5 - 4 KI SL-PGN	56.503.7555.0	100			
WK 2,5 - 4 KI SL-PRT	56.503.7655.0	100			
			WK 2,5 - 3 D SL	56.503.8355.0	50
			WK 2,5 - 3 D SL-NGN	56.503.8455.0	50
			WK 2,5 - 3 D SL-PGN	56.503.8555.0	50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
TW 2,5 - 3 K/U	07.312.0555.0	10	TW 2,5 - 3 D/U	07.312.1255.0	50
			IVB WK/3D-02	Z7.270.0227.0	10
			IVB WK/3D-03	Z7.270.0327.0	10
			IVB WK/3D-12	Z7.270.1227.0	10
IVB WK 2,5-K-2 ROT	Z7.267.0227.5	10	IVB WK 2,5-K-2 ROT	Z7.267.0227.5	10
IVB WK 2,5-K-12 ROT	Z7.267.1227.5	10	IVB WK 2,5-K-12 ROT	Z7.267.1227.5	10
IVB WK 2,5-K-2 BLAU	Z7.267.0227.6	10	IVB WK 2,5-K-2 BLAU	Z7.267.0227.6	10
IVB WK 2,5-K-12 BLAU	Z7.267.1227.6	10	IVB WK 2,5-K-12 BLAU	Z7.267.1227.6	10

Sensor/actuator terminals with top entry system

selos

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Indicator: R = 2.2 K; 0.35 W
Lamp color: green

EN 60 947-7-1/DIN VDE 0611 T1
UL-ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

WK 2,5-4 KOI/U

fine stranded solid V A
0.5 - 2.5 mm² 0.5 - 4 mm² 400 V/6 kV/3 16*)
No. 22-12 AWG 300 V 20/30
No. 22-12 AWG 300 V 25
5 mm 10 mm



WK 2,5-4 KOI/U-NGN

fine stranded solid V A
0.5 - 2.5 mm² 0.5 - 4 mm² 24 DC 16*)
No. 22-12 AWG 24 V 20/30
No. 22-12 AWG 24 V 25
5 mm 10 mm



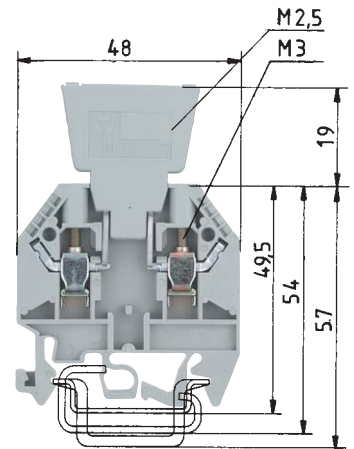
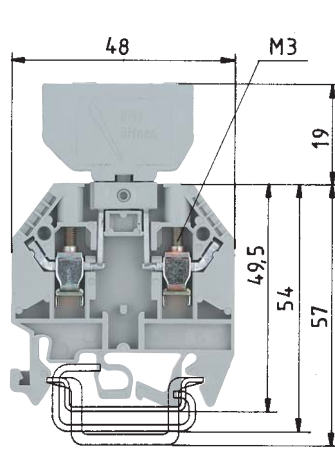
	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Sensor/actuator terminal Color: gray	WK 2,5-4 KOI/U	57.503.7055.0	50			
Sensor/actuator terminal W/ LED (NPN) Color: gray				WK 2,5-4 KOI/U-NGN	57.503.7155.0	50
Accessories						
1. Mounting rail TS 35, DIN rail 7.5mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate 1.5 mm thick	AP 2,5-4 KO	07.310.9355.0	50	AP 2,5-4 KO	07.310.9355.0	50
4. Partition plate 1.5 mm thick	TW 2,5-4 KO	07.310.9455.0	50	TW 2,5-4 KO	07.310.9455.0	50
5. Cross connector for voltage supply						
uninsulated 2pole	VB WK 2,5 KO-2	07.257.0227.0	100	VB WK 2,5 KO-2	07.257.0227.0	100
3pole	VB WK 2,5 KO-3	07.257.0327.0	100	VB WK 2,5 KO-3	07.257.0327.0	100
to 20pole	VB WK 2,5 KO-20	07.257.2027.0	50	VB WK 2,5 KO-20	07.257.2027.0	50
6. Jumper bar for signal,						
uninsulated 2pole	VB WK 2,5-2	Z7.280.0227.0	10	VB WK 2,5-2	Z7.280.0227.0	10
3pole	VB WK 2,5-3	Z7.280.0327.0	10	VB WK 2,5-3	Z7.280.0327.0	10
to 6pole	VB WK 2,5-6	Z7.280.0627.0	10	VB WK 2,5-6	Z7.280.0627.0	10
7. Single cover f. cross conn. with marking facility	AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	10
8. Cover strip with test hole over 10 blocks	AD VB 5/10 P GELB	04.342.3556.8	10	AD VB 5/10 P GELB	04.342.3556.8	10
9. Cover strip for cross connectors over 10 blocks	AD VB 5/10	04.342.0556.0	10	AD VB 5/10	04.342.0556.0	10
10. Partition plate	TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10
11. Tear-off marking strip, red, marked "+"	9705 A/5/10 B + ROT	04.855.0253.5	25	9705 A/5/10 B + ROT	04.855.0253.5	25
12. Tear-off marking strip, blue, marked "-"	9705 A/5/10 B - BLAU	04.855.0353.6	25	9705 A/5/10 B - BLAU	04.855.0353.6	25
For marking systems see pages 178-179 and 200-202						
*) feed-through 16 A						

Disconnect blocks with U-foot, type WK

selos

Fuse plug:
Nominal voltage: 250 V ~
Nominal current accord. to: VDE 0820 T2/IEC 257 at a power loss of 1.5 W.
– 6.3 A for single blocks
– 4 A for blocks mounted adjacent to each other

Indicator (24 V): Lamp color: red
Current consumed 10.3 mA
Indicator (110-220 V): Lamp color: red
Current input: 0.3 mA



*) Voltage and current are determined by the built-in LED and the fuse inserted into the fuse holder

The current carrying load depends on the built-in component.
Temporary peak voltage 1000 V.
Pole assignment of the diode: Anode Cathode Cathode¹⁾ Anode²⁾

EN 60 947-7-1/DIN VDE 0611 Teil 1

EN 60 127-6/DIN VDE 0820 T6

UL-ratings field/factory wiring

CSA ratings

Width Wire strip length

Approvals

WK 4 TKG... SIST

fine stranded solid V A
0.5 – 4 mm² 0.5 – 6 mm² 800 V/8 kV/3^{*)} 6.3^{*)}
No. 22-10 AWG 300 V^{*)} 10
No. 20-10 AWG 250 V^{*)} 6.3
6 mm 9 mm

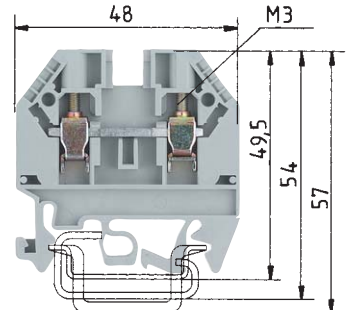
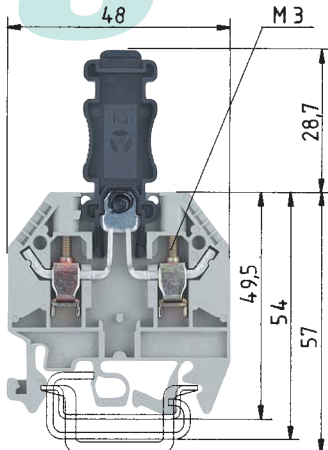
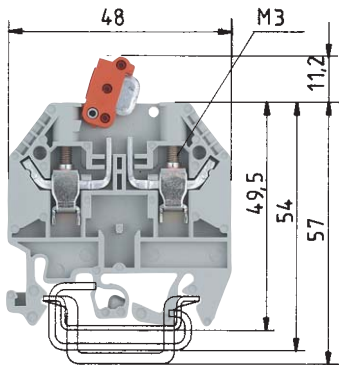


WK 4 TKG... DIST

fine stranded solid V A
0.5 – 4 mm² 0.5 – 6 mm² 800 V/8 kV/3
No. 22-10 AWG 300 V 10
No. 20-10 AWG 250 V 6.3
6 mm 9 mm



	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Disconnect block	Color: gray	WK 4 TKG/U	57.504.4055.0 100	WK 4 TKG/U	57.504.4055.0 100	
Fuse holder for 5 x 20 fuse	Color: blue	Si ST	Z1.299.4055.0 10			
Fuse holder with indicator (24 V)	Color: gray	Si ST LED	Z1.299.4155.0 10			
Fuse holder with indicator (110-220 V)	Color: gray	Si ST GL	Z1.299.4255.0 10			
Diode plug, without contacts	$J_{max} = 10$ A Color: gray			DIST ...	Z1.299.3055.0 10	
Diode plug - diode	$J_{max} = 11$ A Color: gray			DIST-1 N 4007-1 ¹⁾	Z1.299.3155.0 10	
Diode plug - diode	$J_{max} = 11$ A Color: gray			DIST-1 N 4007-2 ²⁾	Z1.299.3355.0 10	
Diode plug with jumper	$J_{max} = 10$ A Color: gray			DIST-D	Z1.299.3255.0 10	
Knife edge disconnect block	Color: gray					
	Color: blue					
– with 2 test bolts	Color: gray					
Invertible plug disconnect block						
m. Inver. plug w/o test bolt	Color: gray					
– with test bolts left and right	Color: gray					
Feed through block	Color: gray					
Accessories						
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m		35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	
Mounting rail TS 35, DIN rail 15 mm high L = 2 m		35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1	
Mounting rail TS 32, G rail L = 2 m		9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1	
2. End clamp with U-foot 10 mm wide		WE 2/U	Z5.523.5653.0 100	WE 2/U	Z5.523.5653.0 100	
End clamp TS 35, with screw 8 mm wide		9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100	
End clamp TS 32, with screw 7.5 mm wide		9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100	
3. End plate, 1.5 mm thick	Color: gray	AP 4 TK	07.311.6155.0 10	AP 4 TK	07.311.6155.0 10	
	Color: blue					
4. Partition, 1.5 mm thick	Color: gray	TW 4 TK	07.311.8155.0 10	TW 4 TK	07.311.8155.0 10	
	Color: blue					
5. Jumper comb	insulated 2pole	IVB 1 WK 4..-2	Z7.255.4227.0 10	IVB 1 WK 4..-2	Z7.255.4227.0 10	
	to 6pole	IVB 1 WK 4..-6	Z7.255.4627.0 10	IVB 1 WK 4..-6	Z7.255.4627.0 10	
6. Cover f. cross conn. with marking facility						
7. Snap-in partition plate with marking facility						
For marking systems see pages 178-179 and 200-202						



The disconnecting knife in these WK versions swing in and out on a pivot point. The distinctive color of the disconnecting lever signals the open state. The terminals can be connected with the lever open or closed. Designs with a different number and arrangement of test sockets permit safe measurements using the test plug.

The plug in disconnect terminal has the same profile as the modular terminal WK4. The isolating connector is detachable and can be fitted as a dummy plug. This signals the open state. Designs with different numbers of test sockets permit safe measurements using the test plug.

same dimensions as types
WK 4 TKG/U and WK 4/TKM/U
for symmetry across the rail

WK 4/TKM

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3*)	20
No. 22-10 AWG		600 V	20
No. 22-10 AWG		600 V*)	20
6 mm			9 mm



WK 4 TKG-TRST/U

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3*)	20
No. 22-10 AWG		300 V	10
No. 22-10 AWG		600 V*)	20
6 mm			9 mm



WK 4 TKS D/U

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3	32
No. 22-10 AWG		300 V	25
No. 20-10 AWG		600 V	20
6 mm			9 mm



Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 4/TKM/U	57.504.2055.0	100						
WK 4/TKM/U BLAU	57.504.2055.6	100						
WK 4/TKM/P3/U	57.504.2355.0	100						
			WK 4 TKG-TRST/U	57.504.4555.0	100			
			WK 4 TKG-TRST P3/U	57.504.4855.0	100			
						WK 4 TKS D/U	57.504.4455.0	100
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
AP 4 TK	07.311.6155.0	10	AP 4 TK	07.311.6155.0	10	AP 4 TK	07.311.6155.0	10
AP 4 TK BLAU	07.311.6155.6	10						
TW 4 TK	07.311.8155.0	10	TW 4 TK	07.311.8155.0	10	TW 4 TK	07.311.8155.0	10
TW 4 TK BLAU	07.311.8155.6							
IVB 1 WK 4..-2	Z7.255.4227.0	10	IVB 1 WK 4..-2	Z7.255.4227.0	10	IVB 1 WK 4..-2	Z7.255.4227.0	10
IVB 1 WK 4..-6	Z7.255.4627.0	10	IVB 1 WK 4..-6	Z7.255.4627.0	10	IVB 1 WK 4..-6	Z7.255.4627.0	10
						AD VB 4 GELB	04.326.2153.8	10
						TS 4 GELB	07.311.2153.8	10
*) Version with test bolt: CSA: 300 V EN 60 947-7-1/DIN VDE 0611 T1 – 690 V/6 kV/3 Test bolt can be loaded with 1 A			*) Version with test bolt: CSA: 300 V EN 60 947-7-1/DIN VDE 0611 T1 – 690 V/6 kV/3 Test bolt can be loaded with 1 A					

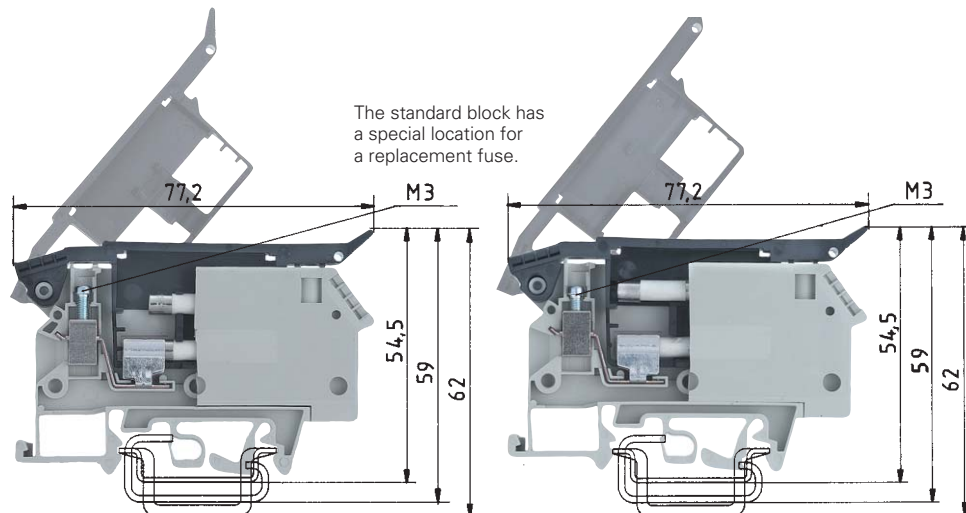
Fuse blocks with U-foot, type WK selos

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Fuse terminals of this type have a hinged fuse carrier. This takes the mini 5 x 20, 5 x 25, and 5 x 30 mm (width of terminal 8mm) or 6.3 x 32 mm (width 10 mm). The swivel carrier has locking points both when open and closed and can be sealed. All terminals are available in two versions – with or without red LED indicator

Rated current in accordance with VDE 0820 T2/IEC 257

- ¹⁾ up to a power loss of 1.5 W
- ²⁾ up to a power loss of 2.5 W
- ^{*}) Voltage and current are determined by the LED installed and fuse used.



for 5 mm fuses

for 1/4 x 1 1/4 fuses

WK 4 THSI 5... /U

	fine stranded	solid	V	A
	0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3 [*])	6,3 ¹⁾
	No. 22-10 AWG		600 V [*])	15
	No. 22-10 AWG		600 V [*])	6,3
	8 mm			8 mm



WK 4 THSI 6,3... /U

	fine stranded	solid	V	A
	0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3 [*])	10 ²⁾
	No. 22-10 AWG		600 V [*])	15
	No. 22-10 AWG		600 V [*])	10
	10 mm			8 mm



EN 60 947-7-1, EN 60 127-6

UL-ratings

CSA ratings

Width

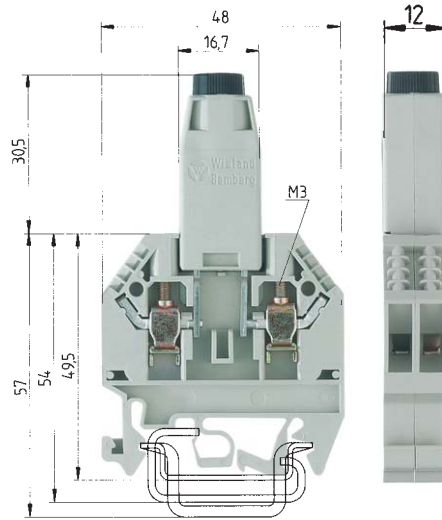
Approvals

Wire strip length

Fuse block		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Color: gray		WK 4/THSI 5 ... U	57.904.5355.0	50	WK 4/THSI 6,3 ... U	57.904.6355.0	50
- with LED	5 - 12 V ~/- current consumed. 2.3-7 mA	WK 4/THSI 5 LED 12 U	57.904.5455.0	50	WK 4/THSI 6,3 LED 12 U	57.904.6455.0	50
- with LED	12 - 24 V ~/- current consumed. 2.8-6.2 mA	WK 4/THSI 5 LED 24 U	57.904.5555.0	50	WK 4/THSI 6,3 LED 24 U	57.904.6555.0	50
- with LED	24 - 60 V ~/- current consumed. 1.5-4 mA	WK 4/THSI 5 LED 60 U	57.904.5655.0	50	WK 4/THSI 6,3 LED 60 U	57.904.6655.0	50
- with lamp	110 -250 V ~/- current consumed. 0.13 – 0.55 mA	WK 4/THSI 5 GL 250 U	57.904.5755.0	50	WK 4/THSI 6,3 GL 250 U	57.904.6755.0	50
- with lamp	380 -500 V ~/- current consumed. 0.2-0.3 mA	WK 4/THSI 5 GL 500 U	57.904.5855.0	50	WK 4/THSI 6,3 GL 500 U	57.904.6855.0	50
Fuse block Color: gray							
- with screw cap A DIN 41674 for G-fuses DIN 41571, 250 V, 5 x 20 mm							
- with screw cap B DIN 41674 for G fuses DIN 41576, 250 V, 5 x 25 mm							
- with screw cap A DIN 41674 for G-fuses , 500 V, 5 x 30 mm							
- with screw cap for G-fuses, 500 V, 1/4 x 1 1/4" (6.3 x 32 mm)							
Feed-through block, same dimensions as fuse block Color: gray							
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm high	L = 2 m	35 x 24 x15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw	7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate, 1.5 mm thick	Color: gray						
4. Cross connector with screws, E-Cu					Jumper combs available on request		
	2pole						
	3pole						
	to 6pole						
5. Transparent cover (for 1 block)							
6. Connecting strip for ganging levers together	red	VST WK4 THSI	05.563.8053.0	50	VST WK4 THSI	05.563.8053.0	50
For marking systems see pages 178-179 and 200-202					Jumper combs available upon request		

Fuse blocks with U-foot, type WK

selos



*) Voltage and current are determined by the fuse used.

Rated current in accordance to VDE 0820 T2/EN 60 127-2, up to a power loss of 1.6 W

EN 60 947-7-1, EN 60 127-6

UL-ratings

CSA ratings

Width

Approvals

Wire strip length

WK 4/Si-D/U 5 x 25

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3*)	6.3*)

No. 20-10	AWG	250 V	10
12 mm			9 mm



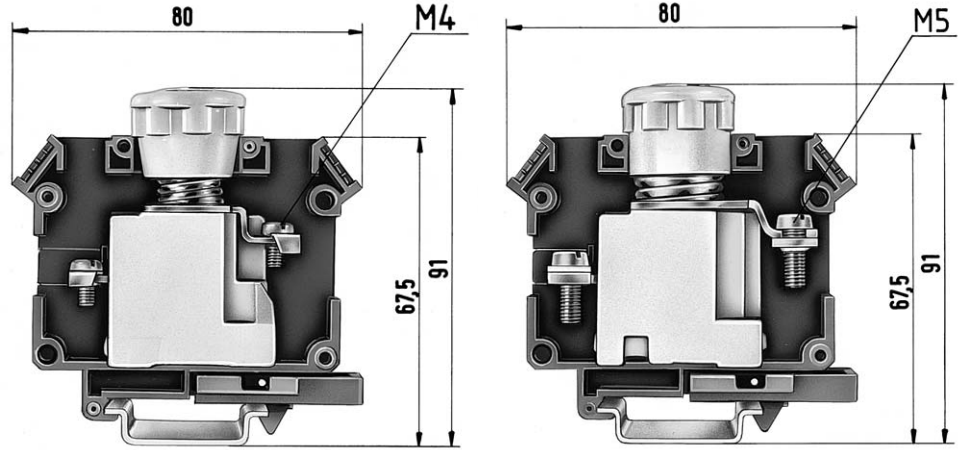
Fuse block		Type	Part no.	Std. pack
Color: gray				
– Fused feed through terminal block				
(G-screw cap B DIN 41674, 5 x 25 mm – 250 V/6.3 A)		WK 4/Si-D/U 5 x 25	57.504.1655.0	50
– Fused feed through terminal block				
(G-screw cap A DIN 41674, 5 x 20 mm – 250 V/6.3 A)		WK 4/Si-D/U 5 x 20	57.504.1755.0	50
Accessories				
1. Mounting rail TS 35, DIN rail, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail		9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw	7.5 mm wide	9780	Z5.522.7053.0	100
3. End plate	1.5 mm wide	AP 4 TK	07.311.6155.0	10
For marking systems see pages 178-179 and 200-202				

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Fuse block for NEOZED® mounting on TS 35 and TS 32 rail

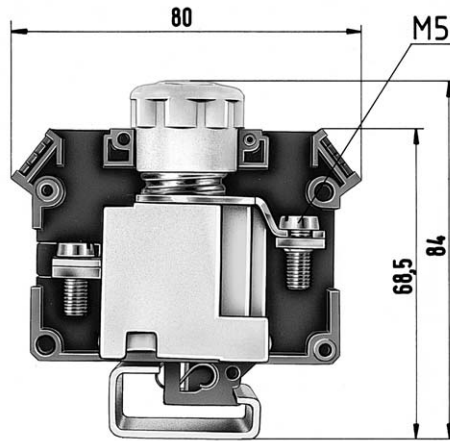
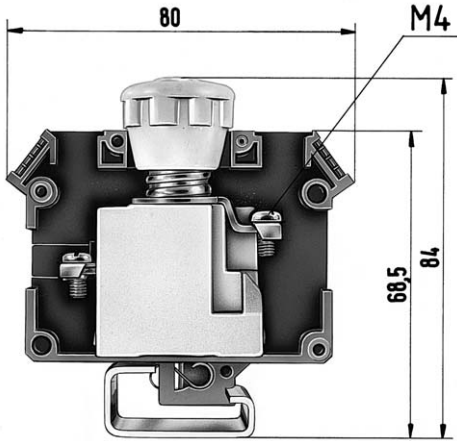


*) Current and voltage are determined by the fuse

DIN VDE 0636
UL-ratings
CSA ratings
Width
Approvals

	9700 B/30 Si E 14/S 35	2-16 A	9700 B/30 Si E 18/S 35	2-63 A
Wire strip length	30 mm	10 mm	30 mm	12 mm
Approvals				

Fuse block	Type	Part no.	Std. pack	Type	Part no.	Std. pack
complete with closed insulating housing	9700 B/30 Si E 14/S 35	56.904.4055.0	20	9700 B/30 Si E 18/S 35	56.925.4055.0	20
Accessories						
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail						
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm wide						
3. NEOZED® adapter sleeve						
2 A – pink		05.595.9200.0	50		05.595.5900.0	50
4 A – brown		05.595.9300.0	50		05.595.6000.0	50
6 A – green		05.595.9400.0	50		05.595.6100.0	50
10 A – red		05.595.9500.0	50		05.595.6200.0	50
16 A – gray					05.595.6300.0	50
20 A – blue					05.595.6400.0	50
25 A – yellow					05.595.6500.0	50
35 A – black					05.595.6600.0	50
50 A – white					05.595.6700.0	50
4. Cover cap		04.326.1053.0	100		04.326.1053.0	100
5. Jumper comb						
6pole					07.250.3027.0	25
uninsulated10pole					07.250.3127.0	10
6. Special retaining clip					05.549.0500.0	
For marking systems see pages 178-179 and 200-202						
NEOZED® = registered trademark of Siemens AG						



9700 B/30 Si E 14/S 32

2-16 A

fine stranded solid V A
1.5-4 mm² 1.5-4 mm² 400 V ~*) 16*)

9700 B/30 Si E 18/S 32

2-63 A

fine stranded solid/stranded V A
1.5-25 mm² 1.5-25 mm² 400 V ~*) 63*)

30 mm



10 mm

30 mm



12 mm

Type	Part no.	Std. pack	Type	Part no.	Std. pack
9700 B/30 Si E 14/S 35	54.904.4055.0	20	9700 B/30 Si E 18/S 32	54.925.4055.0	20
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.360.0000.0	1
WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
9780	Z5.522.7053.0	100	9780	Z5.522.7053.0	100
	05.595.9200.0	50		05.595.5900.0	50
	05.595.9300.0	50		05.595.6000.0	50
	05.595.9400.0	50		05.595.6100.0	50
	05.595.9500.0	50		05.595.6200.0	50
				05.595.6300.0	50
				05.595.6400.0	50
				05.595.6500.0	50
				05.595.6600.0	50
				05.595.6700.0	50
	04.326.1053.0	100		04.326.1053.0	100
				07.250.3027.0	25
				07.250.3127.0	10
				05.549.0500.0	

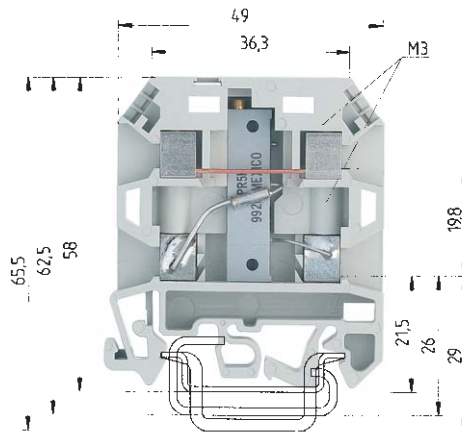
Compensating terminals with **onlinecomponents.com** trimming potentiometer and as a potential divider / U-foot

selos

The compensating terminal is available from 10 to 50 Ohms. The 12 mm width has two clamping points for connecting the adjustable resistance and two clamping points for connecting the return conductor. A marking facility is provided for each clamping point. Switch symbols on the insulating housing identify the connections and the direction of rotation for the adjustable resistance. The device operates with a linear characteristic. The fine spread of the main spindle enables the desired resistance value to be set accurately. Insulating housing with snap on end section.

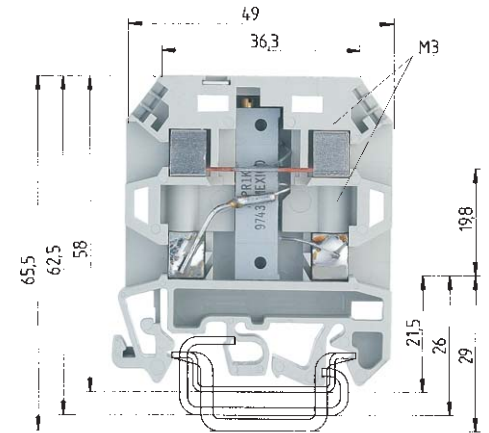
Electrical specifications for the compensating terminal.

Resistor range: 0.25 Ω to 100 Ω
 Resistor tolerance: ± 10%
 Resistor range: 100 Ω to 50 kΩ
 Resistor tolerance: ± 20%
 Limited continuous resistance value: 0.75 W to 70 °C
 Max. load: 100 mA
 Temperature coefficient: 0 to +500 ppm/°C
 Max. operating voltage: 300 V



9785 U/...

fine stranded solid V A
 0.5 – 2.5 mm² 0.5 – 2.5 mm² see the description



as voltage divider

9785 U/... - SPT

fine stranded solid V A
 0.5 – 2.5 mm² 0.5 – 2.5 mm² see the description

EN 60 947-7-1/DIN VDE 0611 T1

UL ratings

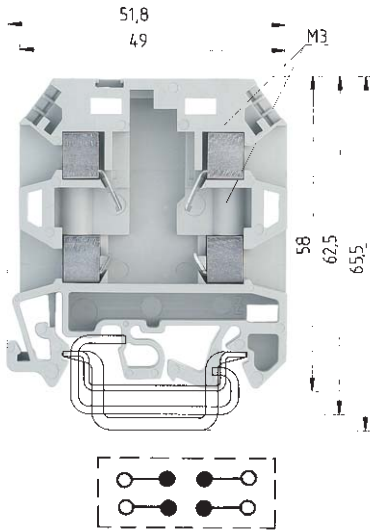
CSA ratings

Width Wire strip length 12 mm 9 mm 12 mm 9 mm

Approvals

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Compensating terminal with potentiometer	Color: gray 10 Ω	9785 U/10 Ω	57.904.0055.0	50	9785 U/10 Ω-SPT	57.904.3955.0	50
	20 Ω	9785 U/20 Ω	57.904.0155.0	50	9785 U/20 Ω-SPT	57.904.4155.0	50
	50 Ω	9785 U/50 Ω	57.904.0255.0	50	9785 U/50 Ω-SPT	57.904.4255.0	50
	100 Ω	9785 U/100 Ω	57.904.0355.0	50	9785 U/100 Ω-SPT	57.904.4355.0	50
	200 Ω	9785 U/200 Ω	57.904.0455.0	50	9785 U/200 Ω-SPT	57.904.4455.0	50
	510 Ω	9785 U/500 Ω	57.904.0555.0	50	9785 U/500 Ω-SPT	57.904.4555.0	50
	1 kΩ	9785 U/1 kΩ	57.904.0655.0	50	9785 U/1 kΩ-SPT	57.904.4655.0	50
	2 kΩ	9785 U/2 kΩ	57.904.0755.0	50	9785 U/2 kΩ-SPT	57.904.4755.0	50
	5 kΩ	9785 U/5 kΩ	57.904.0855.0	50	9785 U/5 kΩ-SPT	57.904.4855.0	50
	10 kΩ	9785 U/10 kΩ	57.904.0955.0	50	9785 U/10 kΩ-SPT	57.904.4955.0	50
20 kΩ	9785 U/20 kΩ	57.904.1055.0	50	9785 U/20 kΩ-SPT	57.904.5055.0	50	
50 kΩ	9785 U/50 kΩ	57.904.1155.0	50	9785 U/50 kΩ-SPT	57.904.5155.0	50	
Diode terminal							
Accessories							
1. Mounting rail TS 35, DIN rail 7.5mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32	G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw	7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. Jumper comb							
uninsulated	2pole	VB 9786-2	07.253.0227.0	50	VB 9786-2	07.253.0227.0	50
	3pole	VB 9786-3	07.253.0327.0	50	VB 9786-3	07.253.0327.0	50
	to 6pole	VB 9786-6	07.253.0627.0	50	VB 9786-6	07.253.0627.0	50
For more accessories see pages 160-177							
For marking systems see pages 178-179 and 200-202							

Diode block



The diode terminal consists of an insulating housing with snap-on end section. It has four screw terminals with four marking points. Solder tabs inside the screw terminals are available to connect diodes or other components.

¹⁾ Current and voltage are determined by the electronic component.

Material:
Insulating housing: Polyamide 66/6, tracking resistant
Clamping body and screws: Nickel-plated copper alloy

9786 U/12

fine stranded solid V A
0.5-2.5 mm² 0.5-2.5 mm² 800 V/8 kV/3^{*}) 24^{**}

No. 22-14 AWG 300 V 6
12 mm 9 mm

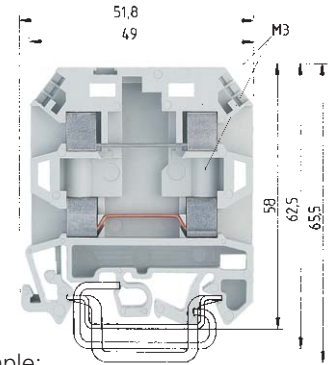
Type	Part no.	Std. pack
9786 U/12	57.904.2055.0	50
VB 9786-2	07.253.0227.0	50
VB 9786-3	07.253.0327.0	50
VB 9786-6	07.253.0627.0	50



Field of application:

In thermocouple measurement circuits, thermocouples are extended using compensating lines. Compensating lines are made of materials which have the same thermal emf values as the thermocouples up to 200 °C. In the thermocouple terminals, the combined metals are made up of the same materials as the compensating lines in accordance with DIN 43713 and DIN 43714 in order to ensure that no corrupting thermal electromotive forces are produced and the basic values in accordance with DIN IED 584 are maintained at the compensating line.

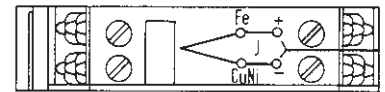
The thermocouple terminal consists of an insulating housing and a snap-in end section.



Example:

Fe/constantan

Fe/CuNi 44



fully enclosed design

*) to the adjacent terminal block type 9786 U/...

9786 U/TSK...

fine stranded solid V A
0.5 - 2,5 mm² 0.5 - 2.5 mm² 800 V/8 kV/3*)

EN 60 947-7-1/DIN VDE 0611 T1

UL-ratings

CSA ratings

Width

Wire strip length

12 mm

9 mm

Approvals

	Type	Part no.	Std. pack
Thermocouple terminal Typ T-Cu/CuNi 44	9786 U/TSK Cu-CuNi	57.904.7355.0	50
Thermocouple terminal Typ E-NiCr/CuNi 44	9786 U/TSK NiCr-CuNi	57.904.7055.0	50
Thermocouple terminal Typ J-Fe/CuNi 44	9786 U/TSK Fe-CuNi	57.904.7155.0	50
Thermocouple terminal Typ K-NiCr/Ni	9786 U/TSK NiCr-Ni	57.904.7255.0	50
Thermocouple terminal Typ R-PtRh 13/Pt	9786 U/TSK E-Cu-A-Cu	57.904.7455.0	50
Earth disconnect 24 - 48 V ≈ with LED Typ S-PtRh 10/Pt			
Earth disconnect 110 - 220 V ≈ with indicator lamp			
Accessories			
1. Mounting rail TS 35, DIN rail 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm wide	9708	Z5.522.7053.0	100
For more accessories see pages 160-177			
For marking systems see pages 178-179 and 200-202			

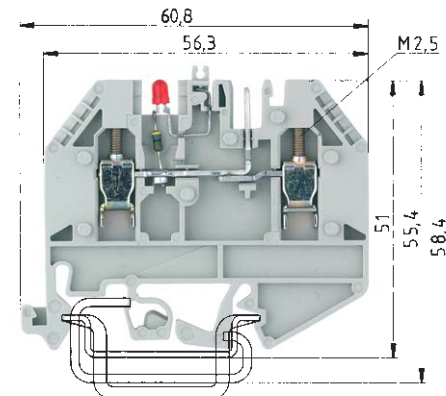
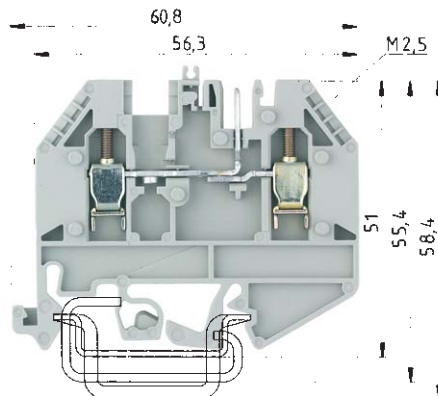
Modular terminal block with socket components.com

for PCB pluggable connector

selos PLUG S

for PC board terminal type:

Type 8113 B
 Type 8313 B
 Type 8113 B/VL
 Type 8113 B/VR
 Type 8113 B/Top



Indicator: R = 4.7 K; 0.5 W
 Lamp color: red

¹⁾ voltage rating determined by lamp / LED

WK 2,5 U/D/8113 S/V

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22-12 AWG		300 V ¹⁾	15
No. 24-12 AWG		300 V ¹⁾	15
Width	Wire strip length	5 mm	9 mm



WK 2,5 U/D/8113 S/V/LED 25

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	¹⁾	12
No. 22-12 AWG		300 V ¹⁾	15
No. 24-12 AWG		25 V due to LED/300 V ¹⁾	15
Width	Wire strip length	5 mm	9 mm



EN 60 947-7-1/DIN VDE 0611 T1

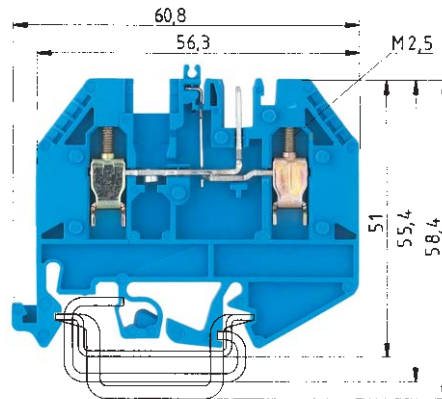
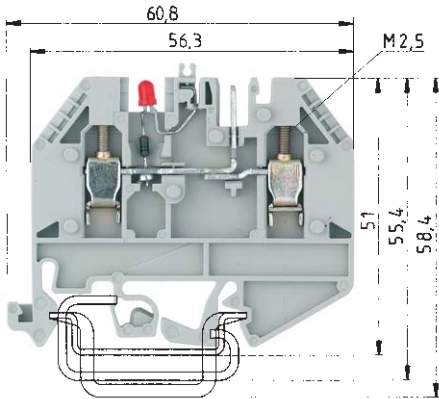
UL-ratings field/factory wiring

CSA ratings

Width Wire strip length

Approvals

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Pluggable terminal Color: gray	WK 2,5 U/D/8113 S/V/...	57.503.2155.0	50			
Pluggable terminal with LED 25 V¹⁾ Color: gray				WK 2,5 U/D/8113 S/V/LED 25	57.503.2255.0	50
Pluggable terminal with LED 50 V¹⁾ Color: gray						
Supply terminal Color: blue						
PCB Pluggable connector type 8113 (in wiecon section)						
Accessories						
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 35, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
End clamp TS 35 with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32 with screw 7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate 2.5 mm thick Color: gray	AP 2,5 U/D/8113 S/V	07.311.9055.0	10	AP 2,5 U/D/8113 S/V	07.311.9055.0	10
End plate 2.5 mm thick Color: blue						
4. Spacer 2.5 mm thick Color: gray	ZP 2,5 U/D/8113 S/V	07.311.9155.0	10	ZP 2,5 U/D/8113 S/V	07.311.9155.0	10
Spacer 2.5 mm thick Color: blue						
use for 7.5 mm pitch pluggable connectors						
5. Cross connector with screws, 2pole	IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10
E-Cu, insulated 3pole	IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10
12pole	IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10
6. LED bus bar, tin-plated brass L = 0.4 m					05.561.4125.0	1
7. Cover strip for LED (transparent)	AD VB 5/10 P	04.342.3556.8	10	AD VB 5/10 P	04.342.3556.8	10
8. Single cover f. cross conn. with mark.facility	AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	10
9. Cover strip for PCB terminal 24pole		04.343.9056.8	10		04.343.9056.8	10
with warning symbol 24pole		04.343.9156.8	10		04.343.9156.8	10
10. Snap-in partition	TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10
11. Coding strip		05.561.0053.0	100		05.561.0053.0	100
12. Locking piece 10pole						
For marking systems see pages 178-179 and 200-202						



Indicator: R = 10 K; 0.5 W
Lamp color: red

¹⁾ voltage rating determined by lamp / LED

WK 2,5 U/D/8113 S/V/LED 50

	V	A
fine stranded solid		
0.5 – 2.5 mm ² 0.5 – 4 mm ²	¹⁾	12
No. 22-12 AWG	300 V ¹⁾	15
No. 24-12 AWG	50 V due to LED/300 V ¹⁾	15
5 mm		9 mm



WK 2,5 U/D/8113 S/V/VK

	V	A
fine stranded solid		
0.5 – 2.5 mm ² 0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22-12 AWG	300 V	15
No. 24-12 AWG	300 V	15
5 mm		9 mm

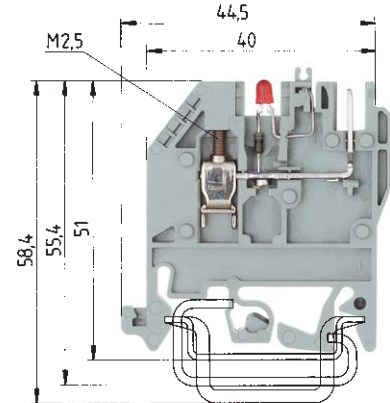
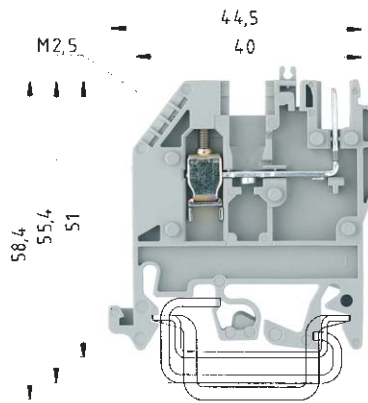


Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 2,5 U/D/8113 S/V/LED 50	57.503.2355.0	50	WK 2,5 U/D/8113 S/V/VK	57.503.2555.6	50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
AP 2,5 U/D/8113 S/V	07.311.9055.0	10	AP 2,5 U/D/8113 S/V	07.311.9055.0	10
ZP 2,5 U/D/8113 S/V	07.311.9155.0	10	ZP 2,5 U/D/8113 S/V	07.311.9155.0	10
IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10
IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10
IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10
	05.561.4125.0	1		05.561.4125.0	1
AD VB 5/10 P	04.342.3556.8	10	AD VB 5/10 P	04.342.3556.8	10
AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	10
	04.343.9056.8	10		04.343.9056.8	10
	04.343.9156.8	10		04.343.9156.8	10
TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10
	05.561.0053.0	100		05.561.0053.0	100

Modular terminal block with socket components.com

for PCB pluggable connector

selos PLUG S



for PCB terminal types:

- Type 8113 B
- Type 8313 B
- Type 8113 B/VL
- Type 8113 B/VR
- Type 8113 B/Top

DIN VDE 0110
UL-ratings
CSA ratings
Width
Approvals

field/factory wiring
Wire strip length

WK 2,5 U/8113 S/V

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22-12 AWG		300 V	15
No. 24-12 AWG		300 V	15
5 mm			9 mm



Indicator: R = 4.7 K; 0.5 W
Lamp color: red

¹⁾ voltage rating determined by lamp / LED

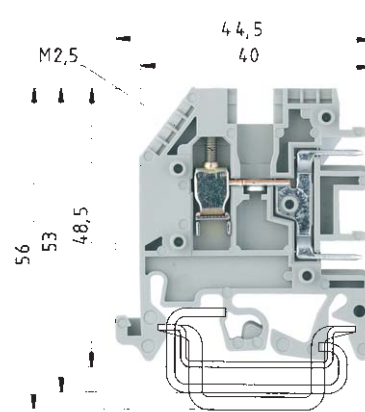
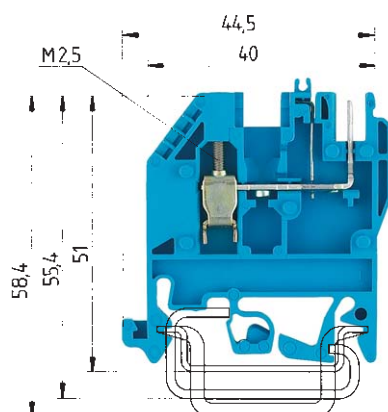
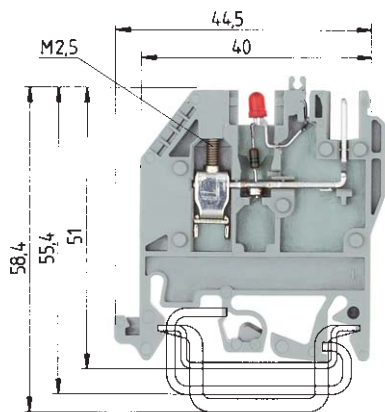
WK 2,5 U/8113 S/V/LED 25

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	¹⁾	12
No. 22-12 AWG		300 V ¹⁾	15
No. 24-12 AWG		25 V due to LED/300 V ¹⁾	15
5 mm			9 mm



	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Pluggable terminal Color: gray	WK 2,5 U/8113 S/V...	57.503.2655.0	50			
Pluggable terminal with LED 25 V¹⁾ Color: gray				WK 2,5 U/8113 S/V/LED 25	57.503.2755.0	50
Pluggable terminal with LED 50 V¹⁾ Color: gray						
Supply terminal Color: blue						
Pluggable terminal with pluggable connection for PCB						
PCB Pluggable connector type 8113						
(in wiecon section)						
Accessories						
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 35, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
End clamp TS 35 with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32 with screw 7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate for right side, 2.5 mm thick Color: gray	AP 2,5 U/8113 S/V	07.312.1555.0	10	AP 2,5 U/8113 S/V	07.312.1555.0	10
End plate for left side, 2.5 mm thick Color: gray	AP 2,5 U/8113	07.312.4655.0	10	AP 2,5 U/8113	07.312.4655.0	10
End plate 2.5 mm thick Color: blue						
4. Spacer, right side, 2.5 mm thick Color: gray	ZP 2,5 U/8113 S/V	07.312.1655.0	10	ZP 2,5 U/8113 S/V	07.312.1655.0	10
Spacer 2.5 mm thick Color: blue						
use for 7.5 mm pitch pluggable connectors						
5. Cross connector with screws, 2pole	IVB WK 2,5-2	Z7.280.2227.0	10			
E-Cu, insulated 3pole	IVB WK 2,5-3	Z7.280.2327.0	10			
12pole	IVB WK 2,5-12	Z7.280.3227.0	10			
6. LED bus bar, tin-plated brass L = 0.4 m					05.561.4125.0	1
7. Cover strip for LED (transparent)						
8. Single cover f. cross conn. with marking facility	AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	10
9. Cover strip for PCB terminal 24pole		04.343.9056.8	10		04.343.9056.8	10
with warning symbol 24pole		04.343.9156.8	10		04.343.9156.8	10
10. Snap-in partition plate	TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10
11. Coding strip		05.561.0053.0	100		05.561.0053.0	100
12. Locking piece 10pole						
For marking systems see pages 178-179 and 200-202						

selos



Indicator: R = 10 K; 0.5 W
Lamp color: red

¹⁾ voltage rating determined by lamp / LED

WK 2,5 U/8113 S/V/LED 50

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	¹⁾	12
No. 22-12 AWG		300 V ¹⁾	15
No. 24-12 AWG		50 V due to LED/300 V ¹⁾	15
5 mm			9 mm



WK 2,5 U/8113 S/V/VK

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22-12 AWG		300 V	15
No. 24-12 AWG		300 V	15
5 mm			9 mm



WK 2,5 U/D/8113 S/V/VK

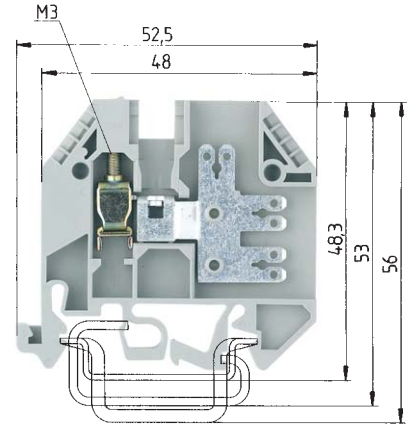
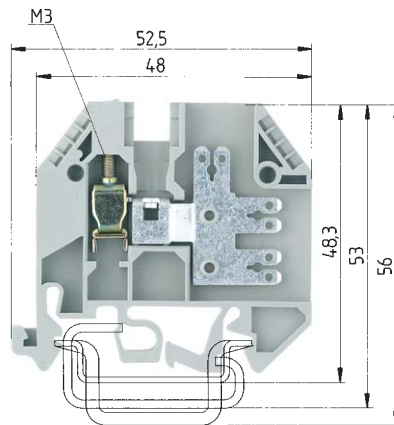
fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22-12 AWG		300 V	20
No. 24-12 AWG		300 V	15
5 mm			9 mm



Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 2,5 U/8113 S/V/LED 50	57.503.2855.0	50	WK 2,5 U/8113 S/V/VK	57.503.3055.6	50	WK 2,5 U/8113 S/H	57.503.2055.0	100
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
AP 2,5 U/8113 S/V	07.312.1555.0	10	AP 2,5 U/8113	07.312.4655.0	10	AP 2,5 U/8113 S/H****)	07.311.9853.0	
AP 2,5 U/8113	07.312.4655.0	10	AP 2,5 U/8113 S/V BL	07.312.1555.6	10			
ZP 2,5 U/8113 S/V	07.312.1655.0	10	ZP 2,5 U/8113 S/V	07.312.1655.0	10			
			ZP 2,5 U/8113 S/V BL	07.312.1655.6	10			
			IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10
			IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10
			IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10
	05.561.4125.0	1						
AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	10
	04.343.9056.8	10		04.343.9056.8	10			
	04.343.9156.8	10		04.343.9156.8	10			
TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10
	05.561.0053.0	100		05.561.0053.0	100		05.584.0053.0	100
							05.576.5853.0	25

Feed-through terminal blocks **onlinecomponents.com** with screw/push-on connection

selos PLUG



Push-on connectors 2.8 x 0.8 accord. to DIN 46247
Push-on connectors 6.3 x 0.8 accord. to DIN 46247

Push-on connectors 2.8 x 0.8 accord. to DIN 46247

Nominal data when using insulating housing
EN 60 947-7-1, EN 61 210
UL-ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

WK 4 3-6 S 1 K/U

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3	20* ¹
No. 22-12 AWG		300 V	10
No. 22-12 AWG		300 V	10
6 mm			9 mm

® ⑤ ⑥ ⑦ ⑧

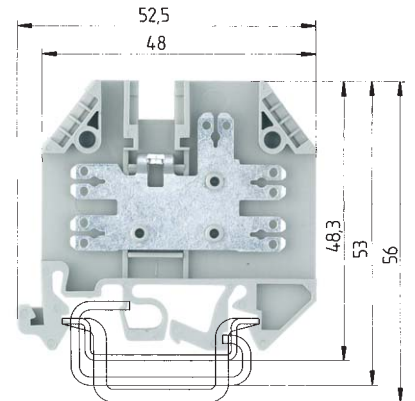
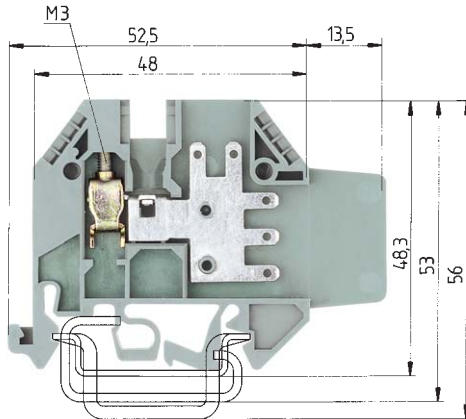
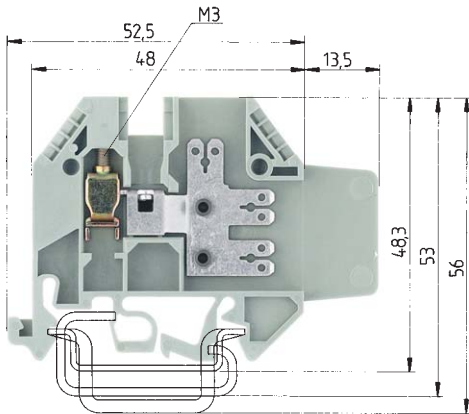
WK 4 5 S 2,8 1 K/U

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3	20* ¹
No. 22-12 AWG		300 V	10
No. 22-12 AWG		300 V	10
6 mm			9 mm

® ⑤ ⑥ ⑦ ⑧

	Type	Part no.	Std. pack	Type	Part no.	Std. pack	
Terminal block with screw and push-on connectors Color: gray							
Push-on with 6 connectors 2.8 x 0.8	WK 4 3-6 S 1 K/U	57.504.3755.0	100				
Push-on with 5 connectors 2.8 x 0.8				WK 4 5 S 2,8 1 K/U	57.504.3855.0	100	
Distribution terminal Color: gray							
Push-on with 10 connectors							
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
Mounting rail TS 35, DIN rail 15mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	
Mounting rail TS 35, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1	
2. End clamp with U-foot 10 mm wide	2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100	
End clamp TS 35 with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	
End clamp TS 32 with screw 7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100	
3. End plate, 1.5 mm thick Color: gray	AP4 3 S 1 K	07.311.3855.0	10	AP4 3 S 1 K	07.311.3855.0	10	
Color: blue							
4. Insulating housing for push-on connector yellow							
for H0. V-K 1.5 mm ²		05.592.7553.0	2000		05.592.7553.0	2000	
for H0. V-K 2.5 mm ²		05.592.7653.0	2000		05.592.7653.0	2000	
5. Cross connector with screws, E-Cu, insulated	2pole	IVB WK 4-2	Z7.281.1227.0	10	IVB WK 4-2	Z7.281.1227.0	10
	3pole	IVB WK 4-3	Z7.281.1327.0	10	IVB WK 4-3	Z7.281.1327.0	10
	to 12pole	IVB WK 4-12	Z7.281.2227.0	10	IVB WK 4-12	Z7.281.2227.0	10
6. Jumper rail, tin-plated brass L = 0.4 m							
7. Cover strip for LED (transparent)							
8. Single cover f. cross conn. with marking facility	AD VB 4 GELB	04.326.2153.8	10	AD VB 4 GELB	04.326.2153.8	10	
9. Cover strip for cross conn. over 10 blocks	AD VB 6/10 GELB	04.342.0656.8	10	AD VB 6/10 GELB	04.342.0656.8	10	
10. Partition plate	TS 4 GELB	07.311.2153.8	10	TS 4 GELB	07.311.2153.8	10	
11. Coding strip							
For marking systems see pages 178-179 and 200-202							

*¹) Current carrying capability accord. to DIN 46249



Push-on connectors 2.8 x 0.8 accord. to DIN 46247
Push-on connectors 6.3 x 0.8 accord. to DIN 46247

Push-on connectors 2.8 x 0.8 accord. to DIN 46247

Push-on connectors 2.8 x 0.8 accord. to DIN 46247
Push-on connectors 6.3 x 0.8 accord. to DIN 46247

WK 4-3-6 S 1 K/IW/U

fine stranded solid	V	A
0.5 – 4 mm ² 0.5 – 6 mm ²	800 V/8 kV/3	20*)
No. 22-12 AWG	600 V	10
No. 22-12 AWG	300 V	10
6 mm		9 mm



WK 4-5 S 2,8 1 K/IW/U

fine stranded solid	V	A
0.5 – 4 mm ² 0.5 – 6 mm ²	800 V/8 kV/3	20*)
No. 22-12 AWG	600 V	10
No. 22-12 AWG	300 V	10
6 mm		9 mm



WK/5-10 S/U

fine stranded solid	V	A
	800 V/8 kV/3	20*)
No. 22-12 AWG	300 V	10
6 mm		9 mm

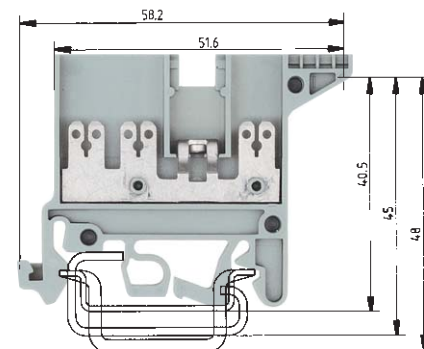
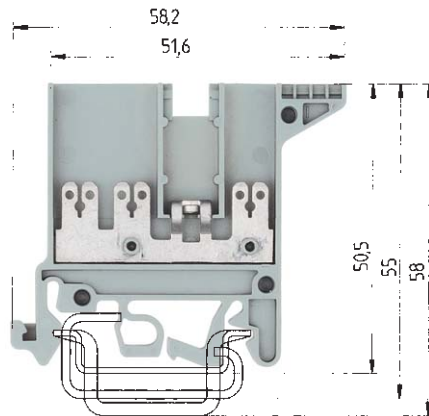


Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 4-3-6 S 1 K/IW/U	57.504.2755.0	100	WK 4-5 S 2,8 1 K/IW/U	57.504.2855.0	100	WK/5-10 S/U	57.504.3655.0	100
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
AP4 3 S 1 K	07.311.3855.0	10	AP4 3 S 1 K	07.311.3855.0	10	AP 5 S	07.311.4655.0	10
	05.592.7553.0	2000		05.592.7553.0	2000		05.592.7553.0	2000
	05.592.7653.0	2000		05.592.7653.0	2000		05.592.7653.0	2000
IVB WK 4-2	Z7.281.1227.0	10	IVB WK 4-2	Z7.281.1227.0	10	IVB WKI 4-2	Z7.271.4227.0	10
IVB WK 4-3	Z7.281.1327.0	10	IVB WK 4-3	Z7.281.1327.0	10	IVB WKI 4-3	Z7.271.4327.0	10
IVB WK 4-12	Z7.281.2227.0	10	IVB WK 4-12	Z7.281.2227.0	10	IVB WKI 4-12	Z7.271.5227.0	10
AD VB 4 GELB	04.326.2153.8	10	AD VB 4 GELB	04.326.2153.8	10	AD VB 4 GELB	04.326.2153.8	10
AD VB 6/10 GELB	04.342.0656.8	10	AD VB 6/10 GELB	04.342.0656.8	10	AD VB 6/10 GELB	04.342.0656.8	10
TS 4 GELB	07.311.2153.8	10	TS 4 GELB	07.311.2153.8	10	TS 4 GELB	07.311.2153.8	10

Distribution terminals for push-on connectors

selos PLUG S

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS



Current carrying capability in accordance with
DIN 46249

Push-on connector	2.8	10 A
	6.3	20 A

Current carrying capability in accordance with
EN 60 947-7-1, EN 61 210

UL-ratings	field/factory wiring
CSA ratings	
Width	Wire strip length
Approvals	

Push-on connectors 2.8 x 0.8 accord. to DIN 46247
Push-on connectors 6.3 x 0.8 accord. to DIN 46247

Push-on connectors 2.8 x 0.8 accord. to DIN 46247
Push-on connectors 6.3 x 0.8 accord. to DIN 46247

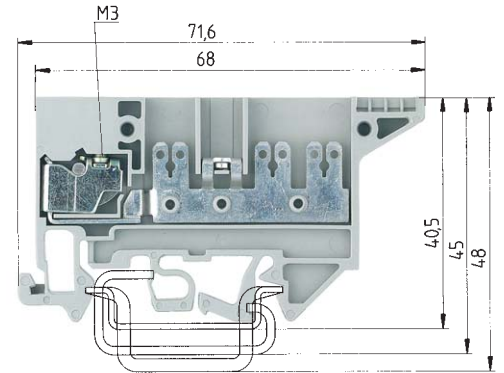
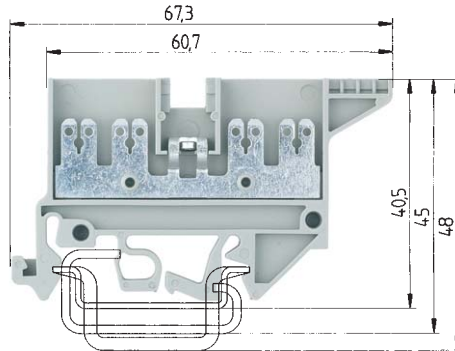
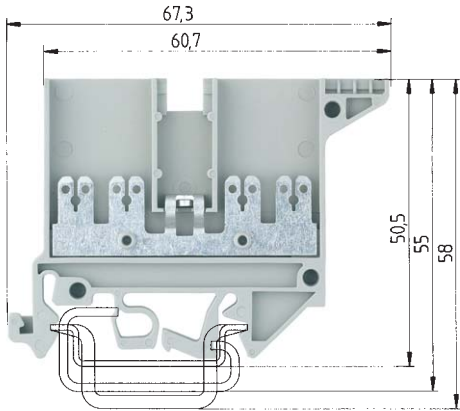
WK/3-6 S/IW/U

fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	800 V/8 kV/3	20
		600 V	10
No. 22-12 AWG		300 V	10
6 mm			

WK/3-6 S/U

fine stranded	solid	V	A
		800 V/8 kV/3	20
		300 V	10
No. 24-12 AWG		300 V	10
6 mm			

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Distribution terminals						
with 6 push-on connectors 2.8 x 0.8 Color: gray	WK/3-6 S/IW/U	57.504.6755.0	100	WK/3-6 S/U	57.504.6655.0	100
Rapid mounting feed-through block						
Accessories						
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 35, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
End clamp TS 35 with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32 with screw 7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate, 2.5 mm thick Color: gray	AP 3 S/IW	07.311.4555.0	50	AP 3 S	07.311.4455.0	50
End plate 2.5 mm thick Color: blue						
4. Insulating sleeve for tab connector yellow						
for H0. V-K 1.5 mm ²		05.592.7553.0	2000		05.592.7553.0	2000
for H0. V-K 2.5 mm ²		05.592.7653.0	2000		05.592.7653.0	2000
5. Cross connector with screws, E-Cu, uninsulated 2pole	VB WK/...S/IW/U-2	Z7.281.3227.0	10	9703/6-2	Z7.211.0227.0	50
3pole	VB WK/...S/IW/U-3	Z7.281.3327.0	10	9703/6-3	Z7.211.0327.0	50
to 6pole	VB WK/...S/IW/U-6	Z7.281.3627.0	10	9703/6-6	Z7.211.0627.0	50
6. Jumper rail, tin-plated brass L = 0.4 m						
7. Cover strip for LED (transparent)						
8. Single cover f. cross conn. with marking facility	AD VB 4 GELB	04.326.2153.8	10	AD VB 4 GELB	04.326.2153.8	10
9. Cover strip for cross conn. over 10 blocks	AD VB 6-10 GELB	04.342.0653.8		AD VB 6-10 GELB	04.342.0653.8	
Cover strip with warning symbol over 4 blocks						
10. Snap-on partition plate	TS 4 GELB	07.311.2153.8	10	TS 4 GELB	07.311.2153.8	10
11. Coding piece						
For marking systems see pages 178-179 and 200-202						



Push-on connectors 2.8 x 0.8 accord. to DIN 46247
Push-on connectors 6.3 x 0.8 accord. to DIN 46247

Push-on connectors 2.8 x 0.8 accord. to DIN 46247
Push-on connectors 6.3 x 0.8 accord. to DIN 46247

Push-on connectors 2.8 x 0.8 accord. to DIN 46247
Push-on connectors 6.3 x 0.8 accord. to DIN 46247

WK/4-8 S/IW/U

fine stranded solid	V	A
	800 V/8 kV/3	20
	600 V	10
No. 22-12 AWG	300 V	10
6 mm		

WK/4-8 S/U

fine stranded solid	V	A
	800 V/8 kV/3	20
	300 V	10
No. 22-12 AWG		
6 mm		

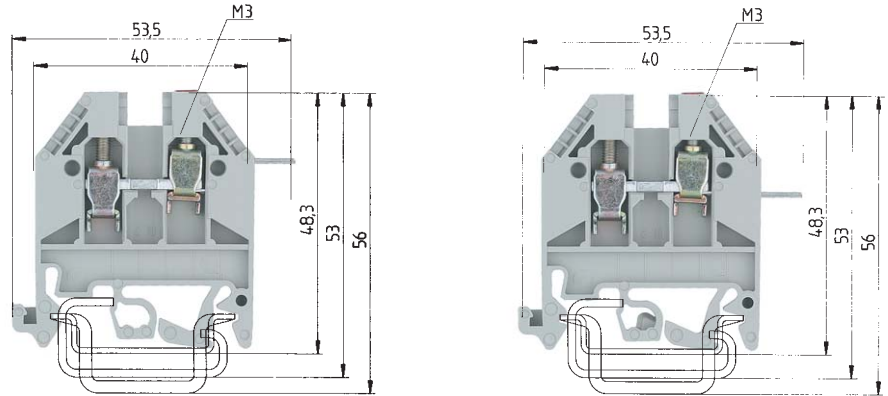
WK/3-6 S KO/U

fine stranded solid	V	A
0.5 - 4 mm ²	690 V/8 kV/3	20
No. 22-12 AWG	300 V	10
No. 22-12 AWG	300 V	10
6 mm		9 mm

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK/4-8 S/IW/U	57.504.6355.0	100	WK/4-8 S/U	57.504.6255.0	100	WK/3-6 S KO/U	57.504.7355.0	
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
AP 4 S/IW	07.311.4355.0	50	AP 4 S	07.311.4255.0	10	9701 A/6 1 S KO TP 2	07.310.5855.0	50
	05.592.7553.0	2000		05.592.7553.0	2000		05.592.7553.0	2000
	05.592.7653.0	2000		05.592.7653.0	2000		05.592.7653.0	2000
VB WK/...S/IW/U-2	Z7.281.3227.0	10	9703/6-2	Z7.211.0227.0	50	2072/2	Z7.220.0227.0	50
VB WK/...S/IW/U-3	Z7.281.3327.0	10	9703/6-3	Z7.211.0327.0	50	2072/2	Z7.220.0227.0	50
VB WK/...S/IW/U-6	Z7.281.3627.0	10	9703/6-6	Z7.211.0627.0	50	2072/6	Z7.220.0627.0	50
AD VB 4 GELB	04.326.2153.8	10	AD VB 4 GELB	04.326.2153.8	10			
AD VB 6-10 GELB	04.342.0653.8		AD VB 6-10 GELB	04.342.0653.8				
TS 4 GELB	07.311.2153.8	10	TS 4 GELB	07.311.2153.8	10			

Feed-through blocks with solder connection

selos



terminals WK 4/UF1 and WK 4/UF2 should be mounted alternately in order to observe the creepages and clearances required for the specific rated voltages.

EN 60 947-7-1/DIN VDE 0611 T1

UL-ratings

CSA ratings

Width

Approvals

Wire strip length

WK 4/U F1

fine stranded solid	V	A
0.5 - 4 mm ² 0.5 - 6 mm ²	400 V/6 kV/3	32
No. 22-10 AWG	300 V	30
No. 22-10 AWG	300 V	20
6 mm		9 mm



WK 4/U F2

fine stranded solid	V	A
0.5 - 4 mm ² 0.5 - 6 mm ²	400 V/6 kV/3	32
No. 22-10 AWG	300 V	30
No. 22-10 AWG	300 V	20
6 mm		9 mm



	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed through terminal	WK 4/U F1	57.504.1055.0	100	WK 4/U F2	57.504.1155.0	100
Color: gray						
same dimensions as WK4						
Accessories	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
1. Mounting rail TS 35, DIN rail 7.5mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
Mounting rail TS 32 G rail L = 2 m	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
2. End clamp with U-foot 10 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 35, with screw 8 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
End clamp TS 32, with screw 7.5 mm wide	AP 2,5-4	07.311.0155.0	10	AP 2,5-4	07.311.0155.0	10
3. End plate, 1.5 mm thick Color: gray						
	TW 2,5-4	07.311.1155.0	10	TW 2,5-4	07.311.1155.0	10
4. Partition, 1.5 mm thick						
5. Cross connector with screws, E-Cu insulated	IVB WK 4-2	Z7.281.1227.0	10	IVB WK 4-2	Z7.281.1227.0	10
	IVB WK 4-3	Z7.281.1327.0	10	IVB WK 4-3	Z7.281.1327.0	10
	IVB WK 4-12	Z7.281.2227.0	10	IVB WK 4-12	Z7.281.2227.0	10
6. Cover for jumper bar with marking capability	AD VB 4 GELB	04.326.2153.8	10	AD VB 4 GELB	04.326.2153.8	10
7. Partition plate	TS 4 GELB	07.311.2153.8	10	TS 4 GELB	07.311.2153.8	10
For marking systems see pages 178-179 and 200-202						

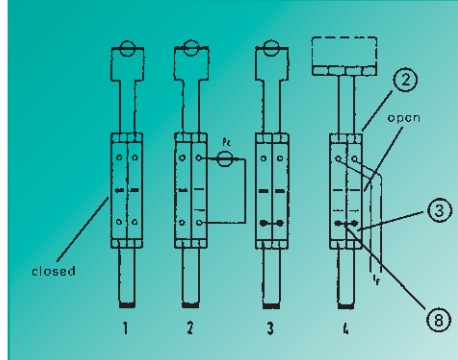
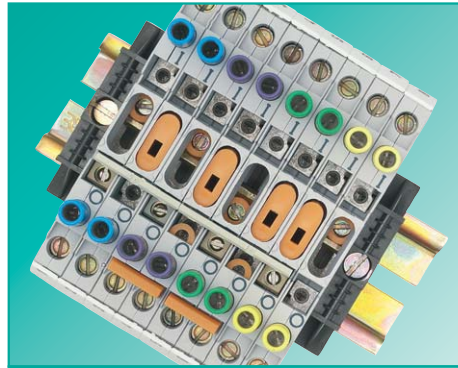
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Current transformer disconnect terminals

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Current transformer circuits must always have a closed secondary circuit. This rule applies even when changing measuring instruments or electric meters and when carrying out reference measurements with external measuring instruments.

❑ The WKT-Terminal Block Series meets all circuit applications with the addition of a few accessories. → This modular concept reduces inventory and component costs.

❑ All components including the terminal block and accessories are insulated. → Test points are touch safe to the standard VGB4
→ Sliding link and jumper bars are touch safe.

❑ **Compact design:**
→ Easy to operate Sliding-Link → The insulated housing on the Sliding-Link provides a guide for the screwdriver blade. This prevents the blade from accidentally slipping off the screw head. The insulated housing also provides visual indication of the circuit status (open or closed).
→ Jumper Bars → Sliding Shorting Bars → Accessories are easily installed with a screwdriver, even the test plugs.
→ Test plug socket

❑ Safe operation of the sliding shorting bar: → The sliding shorting bar is designed such that the test plug socket remains available for testing.
The sliding shorting bar is touch safe.



Insulated Jumpering System

Distribution of the K - potential is possible due to the open slots for both the sliding shorting bar and the stationary jumper bar. Commoning every other terminal is possible by removing every other pole from the stationary jumper bar (see drawing on page 149).



Insulated Test sockets

The test sockets accept Wieland standard plugs or commercially available safety plugs with a diameter of 4mm.

This allows current tests without shut-down.



The sliding disconnect locking device prevents tampering of the disconnect screw. The locking device can lock the screw in open or closed position. This device is easily installed into the top of the terminal block. Removing the locking device requires a standard screwdriver.



Marking capability with the standard Wieland marking system.

- Single marking tags in the same pitch as the terminal block
- Snap-on marking strips (10 individual marking tags per strip) for rapid marking
- Tear-off marking strips for marking up to 3-digits per terminal block

DQS certificates for all product families

- Quality standard as per DIN ISO 9001
- in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Ajb-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

- Special alloys and surface treatments
- Low contact resistance
- High corrosion Resistance

Metal parts

Clamping body/clamping screws: steel, zinc-plated and dichromated

Current carrying bar: Tin plated copper alloy

Insulation material

Polyamide 66/6 for its excellent electrical, chemical and mechanical characteristics (see section **facts & DATA**)
Material accord. to US standard UL 94-V0

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

Note:

The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

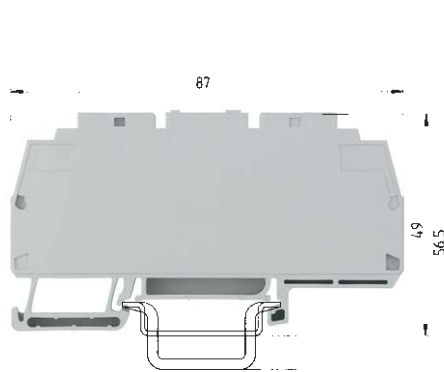
A detailed description of technical data, the standards' requirements, and the application conditions can be found in part **facts & DATA**.



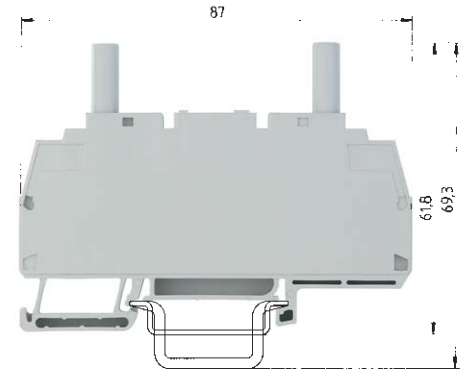
Current transformer disconnect terminal block

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available from 02/02



available from 02/02

EN 60 947-7-1/DIN VDE 0611 T1
 UL-ratings field/factory wiring
 CSA ratings
 Width Wire strip length
 Approvals

WK6 TK/35

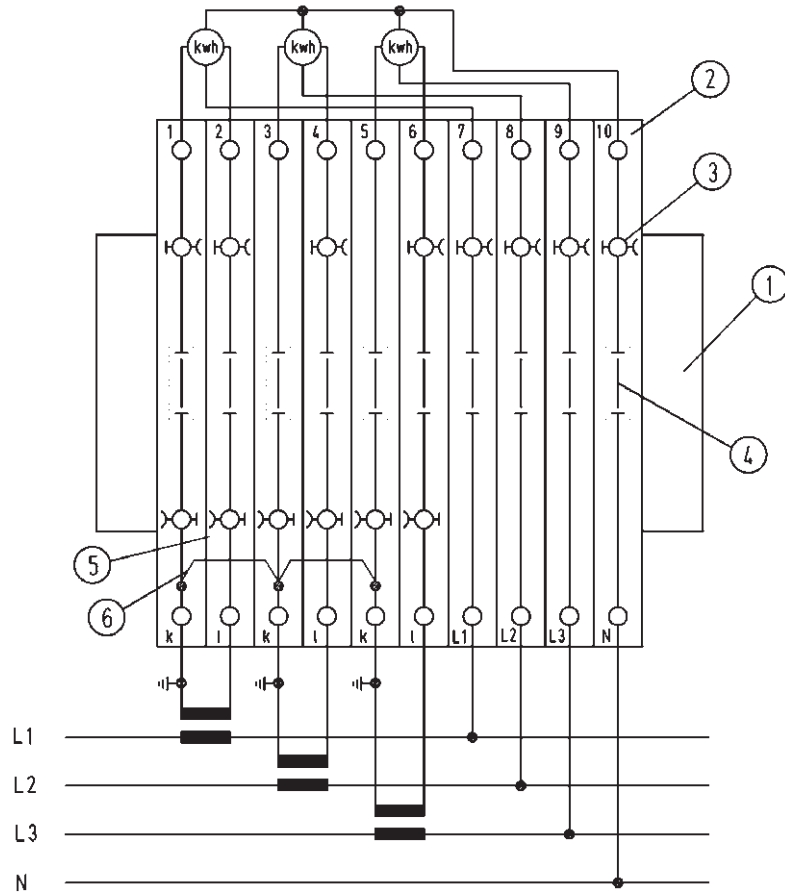
fine stranded solid V A
 0.5 – 6 mm² 0.5 – 10 mm² 400 V/6 kV/3 32
 No. 20-8 AWG 600 V 45
 No. 20-8 AWG 300 V 45
 8 mm
 pending

WK6 TK P3/35

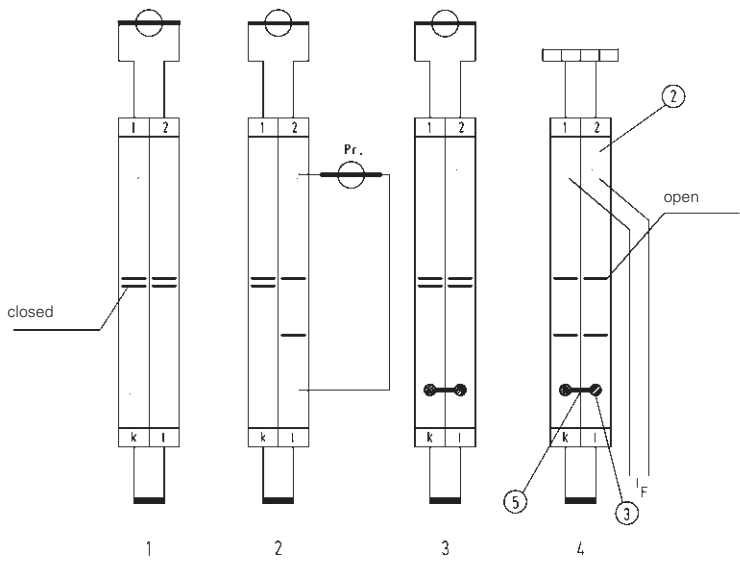
fine stranded solid V A
 0.5 – 6 mm² 0.5 – 10 mm² 400 V/6 kV/3 32
 No. 20-8 AWG 600 V 45
 No. 20-8 AWG 300 V 45
 8 mm
 pending

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Current transformer disconnect terminal	WK6 TK/35	56.106.0553.0		WK6 TK P3/35	56.106.0653.0	
Accessories						
1. Mounting rail TS 35, DIN rail 7.5mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail, 15mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail L = 2 m						
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35 with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS32 with screw 7.5 mm wide						
3. Disconnect locking device	SP WK6 TK	05.563.5453.0		SP WK6 TK	05.563.5453.0	
4. Sliding short-circuit slide						
insulated 2pole	IVS WK6 TK-2	Z7.212.2227.0		IVS WK6 TK-2	Z7.212.2227.0	
3pole	IVS WK6 TK-3	Z7.212.2327.0		IVS WK6 TK-3	Z7.212.2327.0	
4pole	IVS WK6 TK-4	Z7.212.2427.0		IVS WK6 TK-4	Z7.212.2427.0	
5. Jumper bar with screws, E-Cu						
insulated 2pole	IVB WK6 TK-2	Z7.212.1227.0		IVB WK6 TK-2	Z7.212.1227.0	
3pole	IVB WK6 TK-3	Z7.212.1327.0		IVB WK6 TK-3	Z7.212.1327.0	
4pole	IVB WK6 TK-4	Z7.212.1427.0		IVB WK6 TK-4	Z7.212.1427.0	
5pole	IVB WK6 TK-5	Z7.212.1527.0		IVB WK6 TK-5	Z7.212.1527.0	
10pole	IVB WK6 TK-10	Z7.212.2027.0		IVB WK6 TK-10	Z7.212.2027.0	
6. Test socket Color: gray	SB 4 GRAU	05.511.2953.0		SB 4 GRAU	05.511.2953.0	
Color: violet	SB 4 VIOLETT	05.511.2953.9		SB 4 VIOLETT	05.511.2953.9	
Color: green	SB 4 GRÜN	05.511.2953.7		SB 4 GRÜN	05.511.2953.7	
Color: yellow	SB 4 GELB	05.511.2953.8		SB 4 GELB	05.511.2953.8	
For more accessories see pages 160-177						
For marking systems see pages 178-179 and 200-202						

Application example:

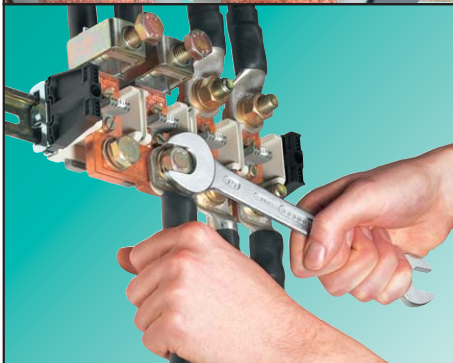
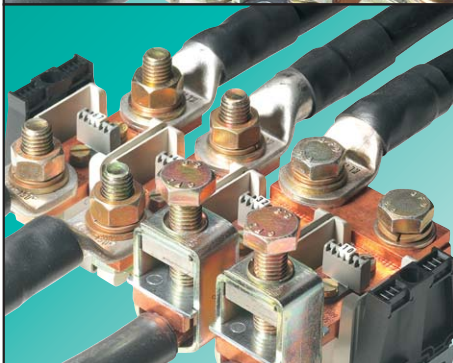
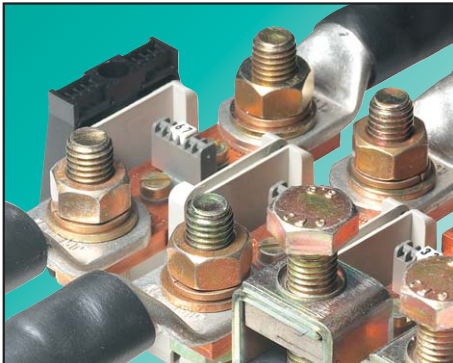


Pos.	Type	Part no.	Std. pack
1.	WE 1/4	Z5.523.5753.0	100
2.	WK6 TK/35	56.106.0053.0	
3.	SB 4 GRAU	Z5.523.5753.0	100
4.	SB WK6 TK	05.563.5453.0	
5.	IVS WK6 TK-2	Z7.212.2227.0	
for a common K-potential			
6.	IVB WK6 TK-5	Z7.212.1527.0	



Simple current transformer circuits
 1 = normal operation 3 = transformer short circuit
 2 = measured value testing 4 = relay testing

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RFK offers ...

❑ Rising Cage Connection Technology

❑ Rising Cage and Ring Terminal Connection

- ❑ **Ring Terminal** connections in two styles:
 - Screw (bolt) with nut
 - Screw (bolt) with threaded current bar

❑ **Rated cross section:** 95 – 240 mm²

❑ **Connection Range:** 2/0 AWG - 500 MCM

❑ **Material:**

- Insulating housing, partition, cover: Polyamide 66/6
- Current carrying bar and jumper rail: E-Cu
- Screws, nuts, washers, clamping bodies: galvanically zinc-plated steel

❑ **Touch Safe Covers**

❑ **Partition Plates** with marking capability

❑ **Jumper bar:**

Available in 2, 3, or 4 pole versions.

Application advantages

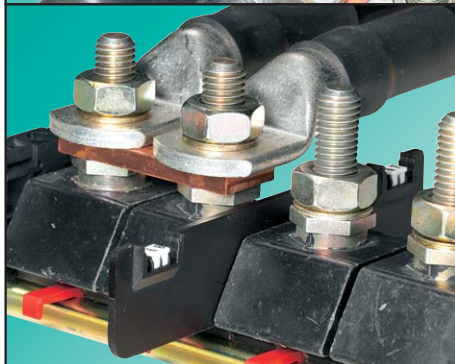
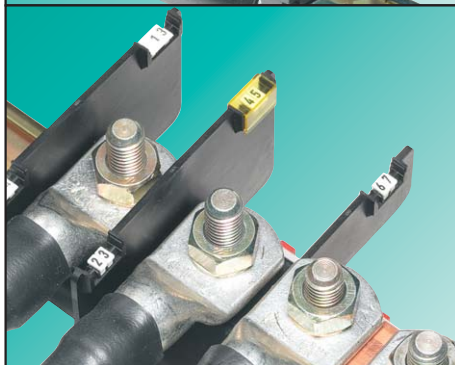
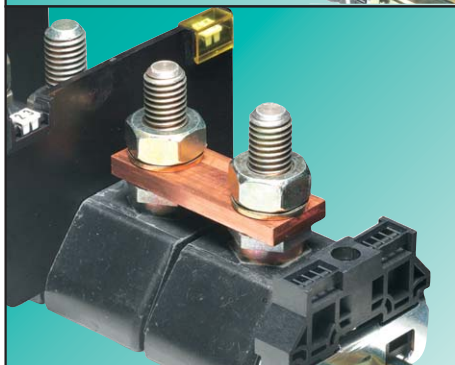
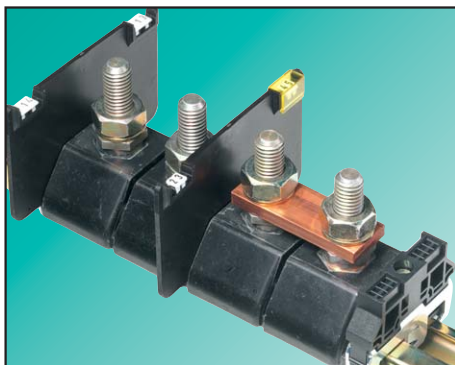
- A stripped wire can be connected without ferules/unprepared
- Secure connection due to the elastic design of the clamping body
- Connection requires ring lug terminal
- Secure connection with use of lock washers
- Due to its excellent electrical, chemical and mechanical properties
- Low contact resistance
- Touch safe covers can be installed after connections have been made and do not increase the pitch of the assembly.
- Partition plates provide both visual and electrical separation of adjacent terminals. They do not increase the pitch of the assembly and can be marked with the Wieland standard marking system.
- Jumper bars are used to common the potential of RFK terminals with ring connection.

Installation instructions:

When tightening the terminal screw, it is recommended that you hold it against the conductor in order to prevent deformation of the mounting rail and to keep the foot of the terminal free from torsional forces.

The threaded hole in the foot of the terminal type RFK 1/...PA enables the terminals to be screwed to the mounting rail. Perforated rails are available for the purpose and the mounting rail is pre-drill accordingly on site or at the factory.

Caution: Make sure that the recommended stripped length for the conductor of 27 mm is observed!



BK offers ...

- Stud bolt connection
 - Torque values to stud bolt diameter standard up to 10 Nm
- Connection range per stud bolt diameter standard
DIN 46 234 from 2.5 to 240 mm**

- Material:**
 - Insulated housing: epoxy resin
 - Stud Bolt, nut and lock washer: galvanized steel, zinc plated
 - Jumper Bar: E-Cu
 - Locking slide, marking tag, and marking tag holder: Polyamide

- End plates / partition plate** with marking capability

- Marking tag cover**

- Jumper bar:**
Available in 2, 3, 4 pole versions
- Locking slides**
allows the BK series to be locked onto the DIN rail

DQS certificates for all company divisions

- Quality standard as per DIN ISO 9001
- in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Ajb-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Application advantages

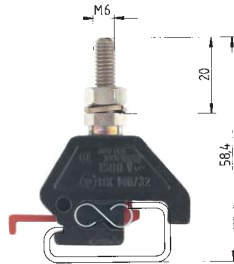
- No loose wires
- High contact force ensures a secure connection with the use of a lock washer
- Constant operating temperature; 150 °C
- Nuts, washer, lock washer are included but are packaged separately
- End plates/partition plates provide both visual and electrical separation of adjacent terminals. They do not increase the pitch of the assembly and can be marked with the Wieland standard marking system.
- The marking tag cover is a translucent yellow material which protects the marking tag against dust and other industrial elements.
- With the BK terminal series for tinning connection, it is possible to common the potential of adjacent terminals with a jumper bar.
- The locking slide ensures secure mounting of the BK terminal on the DIN rail. This is important due to larger conductor sizes and higher torque values of the BK series.

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

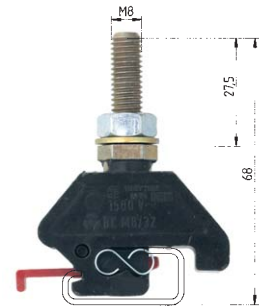
A detailed description of technical data, the standards' requirements, and the application conditions can be found in part **facts & DATA**.

Stud bolt terminal for 32 mm DIN rail

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The wire size is dependent on the hole diameter of the ring terminal of 6.5 mm and the max. ring terminal width of 15 mm



The wire size is dependent on the hole diameter of the ring terminal of 6.5 mm and the max. ring terminal width of 15 mm

DIN VDE 0110
UL-ratings
CSA ratings
Width
Approvals

field/factory wiring
Wire strip length

BK M 6/32

1500 V~	1800 V ∞	V	A
2 AWG		Gr. C	
18 mm		600 V	115

SEV, CE, UL

BK M 8/32

1500 V~	1800 V ∞	V	A
3/0 AWG		Gr. C	
26 mm		1000 V	200

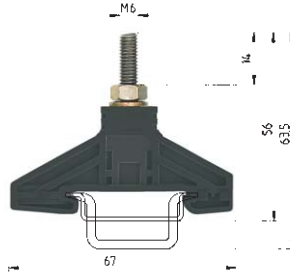
SEV, CE, UL

Stud bolt terminal	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	BK M 6/32	32.630.0042.0	50	BK M 8/32	32.640.0042.0	50
Accessories						
1. Mounting rail TS 35, DIN rail, 7.5 mm high	L = 2 m					
Mounting rail TS 35, DIN rail 15 mm high	L = 2 m					
Mounting rail TS 35, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1	
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100	
End clamp TS32 with screw	8 mm wide					
End clamp TS32 with screw	7.5 mm wide	9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100	
3. End plate with marking capability			07.340.4153.0 50		07.340.4153.0 50	
				or	07.340.4353.0 *) 50	
4. Partition with marking capability			07.340.1153.0 50		07.340.1153.0 50	
				or	07.340.1353.0 *) 50	
5. Jumper bar	from E-Cu					
	for 2 blocks					
	for 3 blocks					
	for 4 blocks					
6. Marking tag cover (see page 151)	Color: yellow		04.326.0056.0 100		04.326.0056.0 100	
7. Marking plate			07.340.2153.0 50		07.340.2153.0 50	
				or	07.340.2353.0 *) 50	
For marking systems see pages 178-179 and 200-202				*) When selecting the partition you have to consider the air and creepage distances.		

Stud bolt terminal for TS 35 mm DIN rail

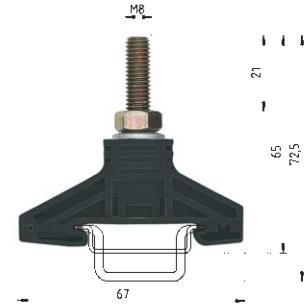
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BK M 6/35

V
250 V/4 kV/6¹⁾ A



BK M 8/35

V
250 V/4 kV/6¹⁾ A

DIN VDE 0110
UL-ratings
CSA ratings
Width
Approvals

field/factory wiring

19.6 mm

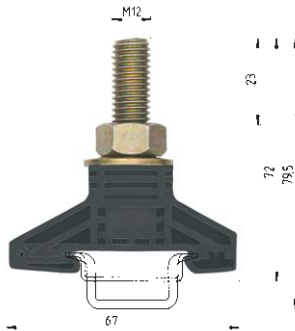
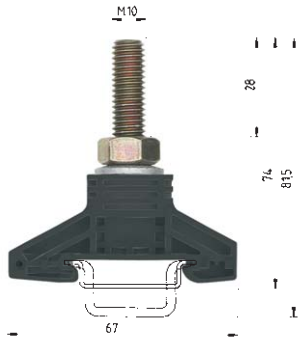
24.6 mm

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Stud bolt terminal	BK M 6/35	32.530.0053.0		BK M 8/35	32.540.0053.0	
Accessories						
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 35, G rail L = 2 m						
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS35 with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS32 with screw 7.5 mm wide						
3. Partition plate	TW BK M 6/35	07.340.3553.0		TW BK M 8/35	07.340.3653.0	
4. Jumper bar:						
from E-Cu						
for 2 pole	VB BK M 6/35-2	07.205.5227.0		VB BK M 8/35-2	07.205.7227.0	
for 3 pole	VB BK M 6/35-3	07.205.5327.0		VB BK M 8/35-3	07.205.7327.0	
6. Marking tag						
For marking systems see pages 178-179 and 200-202	available for delivery from 04/2002			available for delivery from 04/2002		

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BK M 10/35

V A
250 V/4 kV/6¹⁾

35.6 mm

BK M 12/35

V A
250 V/4 kV/6¹⁾

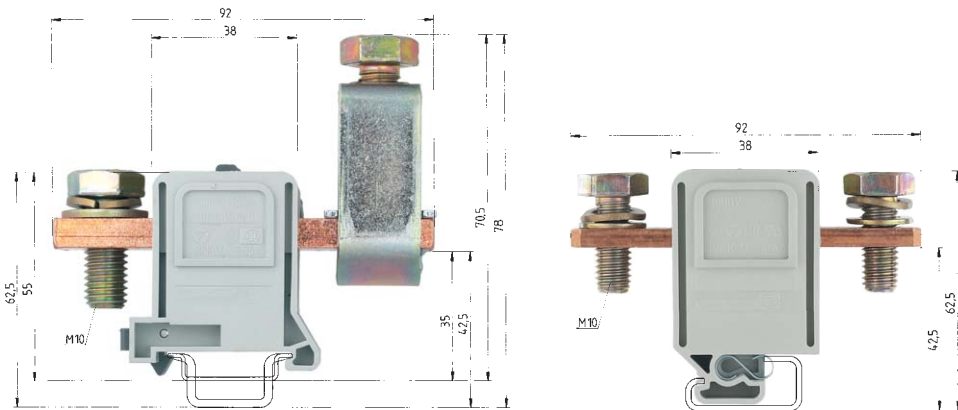
35.6 mm

¹⁾ Without partition plate
800V / 8K V/3 with partion plate TWBK

Type	Part no.	Std. pack	Type	Part no.	Std. pack
BK M 10/35	32.550.0053.0		BK M 12/35	32.560.0053.0	
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
TW BK M 10-12/35	07.340.3753.0		TW BK M 10-12/35	07.340.3753.0	
VB BK M 10/35-2	07.205.8227.0		VB BK M 10/35-2	07.205.9227.0	
VB BK M 10/35-3	07.205.8327.0		VB BK M 10/35-3	07.205.9327.0	
available for delivery from 04/2002			available for delivery from 04/2002		

Terminal blocks for up to 240 mm² (900 MCM)

selos POWER LINE



DIN VDE 0611 Teil 1/EN 60947-7-1

UL-ratings field/factory wiring

CSA ratings

Width Wire strip length

Approvals

RFK 1/95... S35

fine stranded

16-95 mm²

6-3/0 AWG

6-3/0 AWG

32 mm



V

1000 V

A

250

600 V

200

600 V

27 mm

RFK 1/95... PA

fine stranded

16-95 mm²

6-3/0 AWG

6-3/0 AWG

32 mm



V

1000 V

A

250

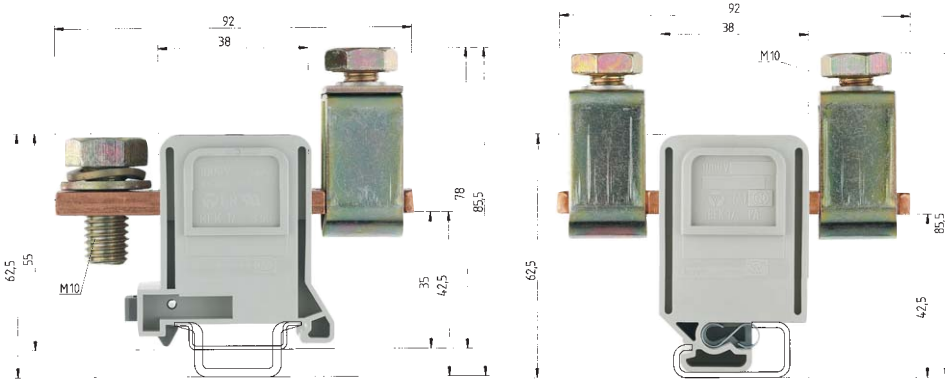
600 V

200

600 V

27 mm

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Configurations	Color: gray F	RFK 1/95 F S 35	56.395.0055.0	10	RFK 1/95 F PA	59.195.0055.0	10
	Color: gray K	RFK 1/95 K S 35	56.395.0155.0	10	RFK 1/95 K PA	59.195.0155.0	10
	Color: gray FK	RFK 1/95 FK S 35	56.395.0255.0	10	RFK 1/95 FK PA	59.195.0255.0	10
	Color: gray FM	RFK 1/95 FM S 35	56.395.1055.0	10	RFK 1/95 FM PA	59.195.1055.0	10
	Color: gray FMK	RFK 1/95 FMK S 35	56.395.1255.0	10	RFK 1/95 FMK PA	59.195.1255.0	10
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m		35 x 27 x 7,5 EN 60715	98.300.0000.0	1			
Mounting rail TS 35, DIN rail 15 mm high L = 2 m		35 x 24 x 15 EN 60715	98.360.0000.0	1			
Mounting rail TS 35, G rail L = 2 m					9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide		WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
End clamp TS35 with screw 8 mm wide		9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS32 with screw 7.5 mm wide		9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. Cover for RFK 1/...	Color: yellow		Z7.409.5753.0	10		Z7.409.5753.0	10
4. Partition/end plate PA 66/6 2.8 mm thick		TE/RFK 1/95	07.340.0353.0	50	TE/RFK 1/95	07.340.0353.0	50
5. Screws for fixation on the mounting rail					AM 5 x 12 DIN 933	06.065.0021.0	100
6. Jumper bar for tab connection blocks from E-Cu							
	for 2 blocks	VB RFK 1/95/2/32	07.205.1227.0	20	VB RFK 1/95/2/32	07.205.1227.0	20
	for 3 blocks	VB RFK 1/95/3/32	07.205.1327.0	10	VB RFK 1/95/3/32	07.205.1327.0	10
	for 4 blocks	VB RFK 1/95/4/32	07.205.1427.0	10	VB RFK 1/95/4/32	07.205.1427.0	10
For marking systems see pages 178-179 and 200-202							



RFK 1/150... S35

fine stranded	V	A
70-240 mm ² 70-240 mm ²	1000 V	335
0 AWG - 300 MCM	600 V	275
0 AWG - 300 MCM	600 V	300
42 mm		27 mm



RFK 1/150... PA

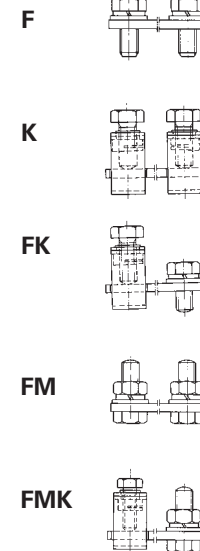
fine stranded	V	A
70-240 mm ² 70-240 mm ²	1000 V	335
0 AWG - 300 MCM	600 V	275
0 AWG - 300 MCM	600 V	300
42 mm		27 mm



mm ²	Type	a x b	M I	M II	H	L	F	E
95	F, K, FK, FM, FMK	5 x 18	M 10	M 8	78	180	92	46
150	K, FK, FMK	6 x 26	M 12	M 10	85.5	200	92	46

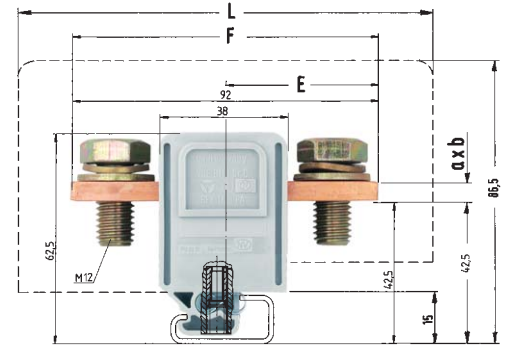
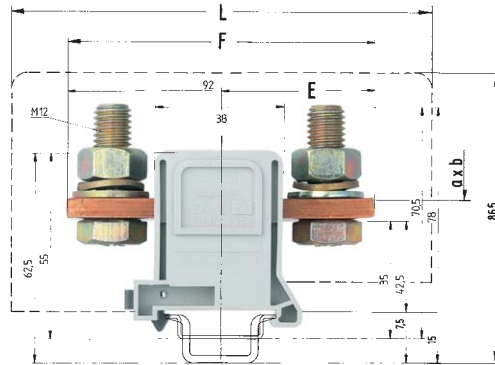
Type	Part no.	Std. pack	Type	Part no.	Std. pack
RFK 1/150 K S35	56.397.0155.0		RFK 1/150 K PA	59.197.0155.0	10
RFK 1/150 FK S35	56.397.0255.0		RFK 1/150 FK PA	59.197.0255.0	10
RFK 1/150 FMK S35	56.397.1255.0		RFK 1/150 FMK PA	59.197.1255.0	10
35 x 27 x 7,5 EN 60715	98.300.0000.0	1			
35 x 24 x 15 EN 60715	98.360.0000.0	1			
			9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
	Z7.409.5753.0	10		Z7.409.5753.0	10
TE/RFK 1/150 - 240 PA	07.340.1053.0	50	TE/RFK 1/150 - 240 PA	07.340.1053.0	50
			AM 5 x 12 DIN 933	06.065.0021.0	100
VB RFK 1/185/2	07.201.4227.0	10	VB RFK 1/185/2	07.201.4227.0	10
VB RFK 1/185/3	07.201.4327.0	10	VB RFK 1/185/3	07.201.4327.0	10
VB RFK 1/185/4	07.201.4427.0	10	VB RFK 1/185/4	07.201.4427.0	10

Configurations:



Terminal blocks for up to 240 V (300 MCM)

selos POWER LINE



RFK 1/185... S35

EN 60 947-7-1/DIN VDE 0611 T1
 UL-ratings field/factory wiring
 CSA ratings
 Width Wire strip length
 Approvals

0 AWG - 400 kcmil
 0 AWG - 400 MCM
 42 mm

V A
 1000 V/8 kV/3 353
 600 V 375
 600 V 375
 27 mm



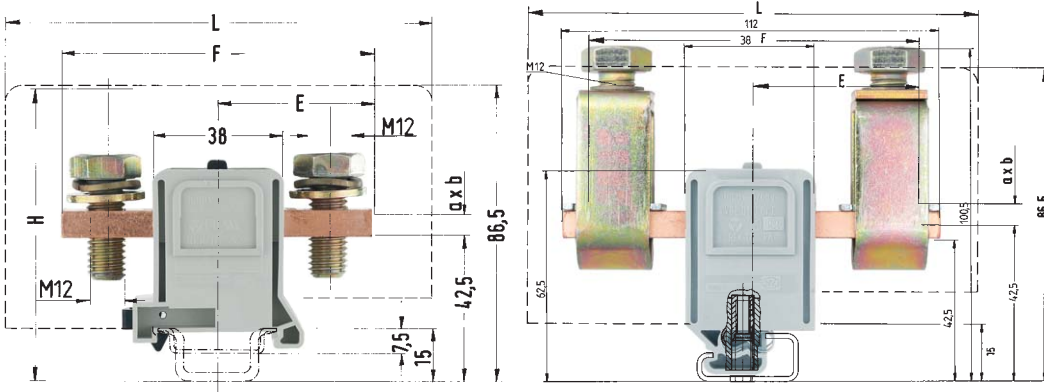
RFK 1/185... PA

0 AWG - 400 kcmil
 0 AWG - 400 MCM
 42 mm

V A
 1000 V/8 kV/3 353
 600 V 375
 600 V 375
 27 mm



Configuration		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Color: gray	F	RFK 1/185 F S 35	56.398.0055.0	10	RFK 1/185 F PA	59.198.0055.0	10
Color: gray	K						
Color: gray	FK						
Color: gray	FM	RFK 1/185 FM S 35	56.398.1055.0	10	RFK 1/185 FM PA	59.198.1055.0	10
Color: gray	FMK						
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1			
Mounting rail TS 35, DIN rail 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1			
Mounting rail TS 35, G rail	L = 2 m				9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
End clamp TS32 with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100			
End clamp TS32 with screw	7.5 mm wide				9708	Z5.522.7053.0	100
3. Cover for RFK 1/...	Color: yellow		Z7.409.5853.0	10		Z7.409.5853.0	10
4. Partition/end plate PA 66/6	2.8 mm thick	TE/RFK 1/150 - 240 PA	07.340.1053.0	50	TE/RFK 1/150 - 240 PA	07.340.1053.0	50
5. Screws for fixation on the mounting rail					AM 5 x 12 DIN 933	06.065.0021.0	100
6. Jumper bar for tab connection blocks	from E-Cu						
	for 2 blocks	VB RFK 1/185/2	07.201.4227.0	10	VB RFK 1/185/2	07.201.4227.0	10
	for 3 blocks	VB RFK 1/185/3	07.201.4327.0	10	VB RFK 1/185/3	07.201.4327.0	10
	for 4 blocks	VB RFK 1/185/4	07.201.4427.0	10	VB RFK 1/185/4	07.201.4427.0	10
For marking systems see pages 178-179 and 200-202							



RFK 1/240... S35

fine stranded	stranded	V	A
70-240 mm ²	70-240 mm ²	1000 V/8 kV/3	415
0 AWG - 500 kcmil		600 V	375
3/0 AWG - 500 MCM		600 V	425
42 mm			27 mm



RFK 1/240... PA

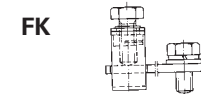
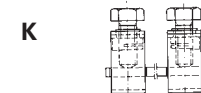
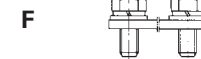
fine stranded	stranded	V	A
70-240 mm ²	70-240 mm ²	1000 V/8 kV/3	415
0 AWG - 500 kcmil		600 V	375
3/0 AWG - 500 MCM		600 V	425
42 mm			27 mm



mm ²	Type	a x b	M I	M II	H	L	F	E
185	F, FM	6 x 26	M 12	-	-	200	92	46
	F, FM	8 x 26	M 12	-	-	200	92	46
240	FK, FMK	8 x 26	M 12	M 12	100.5	200	102	46
	K	8 x 26	-	M 12	100.5	200	112	56

Type	Part no.	Std. pack	Type	Part no.	Std. pack
RFK 1/240 F S 35 ^{*)}	56.399.0055.0	10	RFK 1/240 F PA ^{*)}	59.199.0055.0	10
RFK 1/240 K S 35	56.399.0155.0	10	RFK 1/240 K PA	59.199.0155.0	10
RFK 1/240 FK S 35 ^{*)}	56.399.0255.0	10	RFK 1/240 FK PA ^{*)}	59.199.0255.0	10
RFK 1/240 FM S 35 ^{*)}	56.399.1055.0	10	RFK 1/240 FM PA ^{*)}	59.199.1055.0	10
RFK 1/240 FMK S 35 ^{*)}	56.399.1255.0	10	RFK 1/240 FMK PA ^{*)}	59.199.1255.0	10
35 x 27 x 7,5 EN 60715	98.300.0000.0	1			
35 x 24 x 15 EN 60715	98.360.0000.0	1			
			9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0	100			
	Z7.409.5853.0	10	9708	Z5.522.7053.0	100
TE/RFK 1/150 - 240 PA	07.340.1053.0	50	TE/RFK 1/150 - 240 PA	07.340.1053.0	50
			AM 5 x 12 DIN 933	06.065.0021.0	100
VB RFK 1/240/2	07.201.8227.0	10	VB RFK 1/240/2	07.201.8227.0	10
VB RFK 1/240/3	07.201.8327.0	10	VB RFK 1/240/3	07.201.8327.0	10
VB RFK 1/240/4	07.201.8427.0	10	VB RFK 1/240/4	07.201.8427.0	10

Configurations:

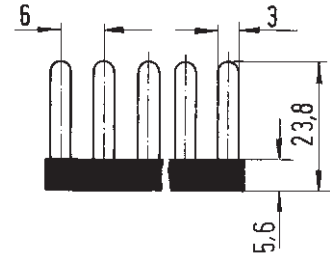
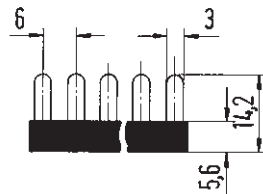
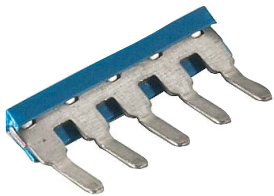
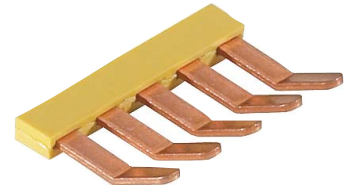
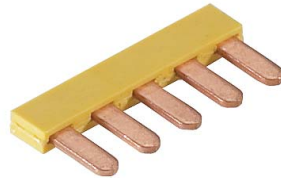


^{*)} Only use ring terminals accord. to DIN 46234

Accessories for DIN rail terminal blocks

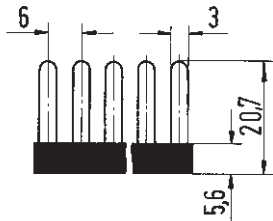
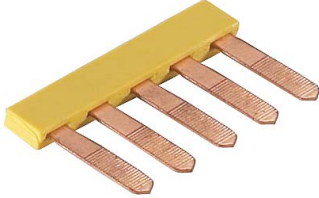
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Jumper comb, insulated

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
for terminal blocks type			WK 4 E/U			WK 4 E/U		
			1 mm thick			1 mm thick, angled		
WK 2,5-4 KI/U			2pole IVB WK 4 E-2	Z7.255.2227.0	10	2pole IVBS WK 4 E-2	Z7.256.4227.0	10
WK 2,5-4 KI/U-NGN			3pole IVB WK 4 E-3	Z7.255.2327.0	10	3pole IVBS WK 4 E-3	Z7.256.4327.0	10
WK 2,5-4 KI/U-PGN			4pole IVB WK 4 E-4	Z7.255.2427.0	10	4pole IVBS WK 4 E-4	Z7.256.4427.0	10
WK 2,5-4 KI SL			5pole IVB WK 4 E-5	Z7.255.2527.0	10	5pole IVBS WK 4 E-5	Z7.256.4527.0	10
WK 2,5-4 KI SL-NGN			6pole IVB WK 4 E-6	Z7.255.2627.0	10	6pole IVBS WK 4 E-6	Z7.256.4627.0	10
WK 2,5-4 KI SL-PGN			7pole IVB WK 4 E-7	Z7.255.2727.0	10	7pole IVBS WK 4 E-7	Z7.256.4727.0	10
WK 2,5-3 D/U			8pole IVB WK 4 E-8	Z7.255.2827.0	10	8pole IVBS WK 4 E-8	Z7.256.4827.0	10
WK 2,5-3 D/U-NGN			9pole IVB WK 4 E-9	Z7.255.2927.0	10	9pole IVBS WK 4 E-9	Z7.256.4927.0	10
WK 2,5-3 D/U-PGN			10pole IVB WK 4 E-10	Z7.255.3027.0	10	10pole IVBS WK 4 E-10	Z7.256.5027.0	10
WK 2,5-3 D SL			11pole IVB WK 4 E-11	Z7.255.3127.0	10	11pole IVBS WK 4 E-11	Z7.256.5127.0	10
WK 2,5-3 D SL-NGN			12pole IVB WK 4 E-12	Z7.255.3227.0	10	12pole IVBS WK 4 E-12	Z7.256.5227.0	10
WK 2,5-3 D SL-PGN								
0.8 mm thick, angled			for lower tier blocks only			for lower tier blocks only		
2pole VB WK 2,5-K-2	red	Z7.267.0227.5 10						
3pole IVB WK 2,5-K-3	red	Z7.267.0327.5 10						
4pole IVB WK 2,5-K-4	red	Z7.267.0427.5 10						
5pole IVB WK 2,5-K-5	red	Z7.267.0527.5 10						
6pole IVB WK 2,5-K-6	red	Z7.267.0627.5 10						
7pole IVB WK 2,5-K-7	red	Z7.267.0727.5 10						
8pole IVB WK 2,5-K-8	red	Z7.267.0827.5 10						
9pole IVB WK 2,5-K-9	red	Z7.267.0927.5 10						
10pole IVB WK 2,5-K-10	red	Z7.267.1027.5 10						
11pole IVB WK 2,5-K-11	red	Z7.267.1127.5 10						
12pole IVB WK 2,5-K-12	red	Z7.267.1227.5 10						
70pole IVB WK 2,5-K M-70	red	Z7.267.0027.5 10						
0.8 mm thick, angled								
2pole IVB WK 2,5-K-2	blue	Z7.267.0227.6 10						
3pole IVB WK 2,5-K-3	blue	Z7.267.0327.6 10						
4pole IVB WK 2,5-K-4	blue	Z7.267.0427.6 10						
5pole IVB WK 2,5-K-5	blue	Z7.267.0527.6 10						
6pole IVB WK 2,5-K-6	blue	Z7.267.0627.6 10						
7pole IVB WK 2,5-K-7	blue	Z7.267.0727.6 10						
8pole IVB WK 2,5-K-8	blue	Z7.267.0827.6 10						
9pole IVB WK 2,5-K-9	blue	Z7.267.0927.6 10						
10pole VB WK 2,5-K-10	blue	Z7.267.1027.6 10						
11pole IVB WK 2,5-K-11	blue	Z7.267.1127.6 10						
12pole IVB WK 2,5-K-12	blue	Z7.267.1227.6 10						
70pole VB WK 2,5-K M-70	blue	Z7.267.0027.6 10						



Switchable connecting link

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 4 TKG/U			for terminal block type					
WK 4 TKM/U								
WK 4/U								
WK 4 TKS D/U								
WK 4 TKG-TRST/U								
0.5 mm thick								
2pole IVB 0,5 WK 4.-2	Z7.255.0227.0	10						
3pole IVB 0,5 WK 4.-3	Z7.255.0327.0	10						
4pole IVB 0,5 WK 4.-4	Z7.255.0427.0	10	WK 2,5/U	Z7.269.4023.0	50			
5pole IVB 0,5 WK 4.-5	Z7.255.0527.0	10	WK 4/U	Z7.269.4123.0	50			
6pole IVB 0,5 WK 4.-6	Z7.255.0627.0	10						
7pole IVB 0,5 WK 4.-7	Z7.255.0727.0	10	WK 6/U	Z7.269.4223.0	50			
8pole IVB 0,5 WK 4.-8	Z7.255.0827.0	10						
9pole IVB 0,5 WK 4.-9	Z7.255.0927.0	10	WK 4 E/..	Z7.269.2923.0	50			
10pole IVB 0,5 WK 4.-10	Z7.255.1027.0	10						
11pole IVB 0,5 WK 4.-11	Z7.255.1127.0	10	WKM 2,5	Z7.269.3623.0	50			
12pole IVB 0,5 WK 4.-12	Z7.255.1227.0	10						
1 mm thick			WKM 4	Z7.269.0623.0	50			
2pole IVB 1 WK 4.-2	Z7.255.4227.0	10	Switchable connecting links reduce the nominal voltage to 380 V!					
3pole IVB 1 WK 4.-3	Z7.255.4327.0	10	Link:	nickel-plated brass				
4pole IVB 1 WK 4.-4	Z7.255.4427.0	10	Bolt:	nickel-plated brass				
5pole IVB 1 WK 4.-5	Z7.255.4527.0	10	Screw:	zinc-plated steel				
6pole IVB 1 WK 4.-6	Z7.255.4627.0	10						
7pole IVB 1 WK 4.-7	Z7.255.4727.0	10						
8pole IVB 1 WK 4.-8	Z7.255.4827.0	10						
9pole IVB 1 WK 4.-9	Z7.255.4927.0	10						
10pole IVB 1 WK 4.-10	Z7.255.5027.0	10						
11pole IVB 1 WK 4.-11	Z7.255.5127.0	10						
12pole IVB 1 WK 4.-12	Z7.255.5227.0	10						

Accessories for DIN rail terminal blocks

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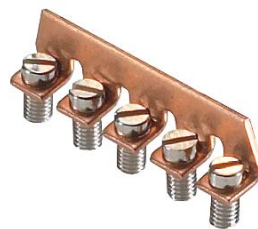
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Cross connectors (jumper bars), insulated

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
for terminal blocks type			WK 4 TKG/U	6 mm spacing Screw: M 3		WK 4 E/U	6 mm spacing Screw: M 3	
WK 2,5 U	5 mm spacing Screw: M 2.5		WK 4 TKM/U			WKM 4		
WK 2,5-4 KOI/U			WK 4/U			2pole IVB WK 4E/U-2	Z7.271.2227.0	10
WK 2,5 U/8113 S/H			WK 4 TKS D/U			3pole IVB WK 4E/U-3	Z7.271.2327.0	10
2pole IVB WK 2,5-2	Z7.280.2227.0	10	WK 4 TKG-TRST/U			4pole IVB WK 4E/U-4	Z7.271.2427.0	10
3pole IVB WK 2,5-3	Z7.280.2327.0	10	12pole IVB WKI 4-12	Z7.271.5227.0	10	5pole IVB WK 4E/U-5	Z7.271.2527.0	10
4pole IVB WK 2,5-4	Z7.280.2427.0	10				6pole IVB WK 4E/U-6	Z7.271.2627.0	10
5pole IVB WK 2,5-5	Z7.280.2527.0	10	WK 4/U	6 mm spacing Screw: M 3		7pole IVB WK 4E/U-7	Z7.271.2727.0	10
6pole IVB WK 2,5-6	Z7.280.2627.0	10	WK 4 TKS D/U			8pole IVB WK 4E/U-8	Z7.271.2827.0	10
7pole IVB WK 2,5-7	Z7.280.2727.0	10	WK 4 3 S 1 K/U			9pole IVB WK 4E/U-9	Z7.271.2927.0	10
8pole IVB WK 2,5-8	Z7.280.2827.0	10	WK 4 3-6 S 1 K/U			10pole IVB WK 4E/U-10	Z7.271.3027.0	10
9pole IVB WK 2,5-9	Z7.280.2927.0	10	WK 4 5 S 2,8 1 K/U			11pole IVB WK 4E/U-11	Z7.271.3127.0	10
10pole IVB WK 2,5-10	Z7.280.3027.0	10	WK 4 3 S 1 K/W/U			12pole IVB WK 4E/U-12	Z7.271.3227.0	10
11pole IVB WK 2,5-11	Z7.280.3127.0	10	WK 4 3-6 S 1 K/W/U					
12pole IVB WK 2,5-12	Z7.280.3227.0	10	WK 4/U F1			WK 4/D 1/2 U	6 mm spacing Screw: M 3	
			WK 4/U F2			WK 4/D 2/2 U		
WK 2,5-3 D/U	6 mm spacing Screw: M 2.5		2pole IVB WK 4-2	Z7.281.1227.0	10	2pole IVB WK 4/D..-2	Z7.281.7227.0	10
WK 2,5-3 D SL			3pole IVB WK 4-3	Z7.281.1327.0	10	3pole IVB WK 4/D..-3	Z7.281.7327.0	10
2pole IVB WK 2,5-3 D-2	Z7.270.0227.0	10	4pole IVB WK 4-4	Z7.281.1427.0	10	4pole IVB WK 4/D..-4	Z7.281.7427.0	10
3pole IVB WK 2,5-3 D-3	Z7.270.0327.0	10	5pole IVB WK 4-5	Z7.281.1527.0	10	5pole IVB WK 4/D..-5	Z7.281.7527.0	10
4pole IVB WK 2,5-3 D-4	Z7.270.0427.0	10	6pole IVB WK 4-6	Z7.281.1627.0	10	6pole IVB WK 4/D..-6	Z7.281.7627.0	10
5pole IVB WK 2,5-3 D-5	Z7.270.0527.0	10	7pole IVB WK 4-7	Z7.281.1727.0	10	7pole IVB WK 4/D..-7	Z7.281.7727.0	10
6pole IVB WK 2,5-3 D-6	Z7.270.0627.0	10	8pole IVB WK 4-8	Z7.281.1827.0	10	8pole IVB WK 4/D..-8	Z7.281.7827.0	10
7pole IVB WK 2,5-3 D-7	Z7.270.0727.0	10	9pole IVB WK 4-9	Z7.281.1927.0	10	9pole IVB WK 4/D..-9	Z7.281.7927.0	10
8pole IVB WK 2,5-3 D-8	Z7.270.0827.0	10	10pole IVB WK 4-10	Z7.281.2027.0	10	10pole IVB WK 4/D..-10	Z7.281.8027.0	10
9pole IVB WK 2,5-3 D-9	Z7.270.0927.0	10	11pole IVB WK 4-11	Z7.281.2127.0	10	11pole IVB WK 4/D..-11	Z7.281.8127.0	10
10pole IVB WK 2,5-3 D-10	Z7.270.1027.0	10	12pole IVB WK 4-12	Z7.281.2227.0	10	12pole IVB WK 4/D..-12	Z7.281.8227.0	10
11pole IVB WK 2,5-3 D-11	Z7.270.1127.0	10						
12pole IVB WK 2,5-3 D-12	Z7.270.1227.0	10				WK 4/DEU	6 mm spacing Screw: M 3	
70pole IVB WK 2,5-3 D M-70	Z7.270.0027.0	10				2pole IVB WK 4/DEU-2	Z7.271.0227.0	10
						3pole IVB WK 4/DEU-3	Z7.271.0327.0	10
						4pole IVB WK 4/DEU-4	Z7.271.0427.0	10
						5pole IVB WK 4/DEU-5	Z7.271.0527.0	10
						6pole IVB WK 4/DEU-6	Z7.271.0627.0	10
						7pole IVB WK 4/DEU-7	Z7.271.0727.0	10
						8pole IVB WK 4/DEU-8	Z7.271.0827.0	10
						9pole IVB WK 4/DEU-9	Z7.271.0927.0	10
						10pole IVB WK 4/DEU-10	Z7.271.1027.0	10
						11pole IVB WK 4/DEU-11	Z7.271.1127.0	10
						12pole IVB WK 4/DEU-12	Z7.271.1227.0	10

Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 6/U	8 mm spacing Screw: M 3		WKN 16/U	12 mm spacing Screw: M 4	
2pole IVB WK 6-2	Z7.282.2227.0	10	2pole IVB WKN 16-2	Z7.284.2227.0	10
3pole IVB WK 6-3	Z7.282.2327.0	10	3pole IVB WKN 16-3	Z7.284.2327.0	10
4pole IVB WK 6-4	Z7.282.2427.0	10	4pole IVB WKN 16-4	Z7.284.2427.0	10
5pole IVB WK 6-5	Z7.282.2527.0	10	5pole IVB WKN 16-5	Z7.284.2527.0	10
6pole IVB WK 6-6	Z7.282.2627.0	10	6pole IVB WKN 16-6	Z7.284.2627.0	10
7pole IVB WK 6-7	Z7.282.2727.0	10	7pole IVB WKN 16-7	Z7.284.2727.0	10
8pole IVB WK 6-8	Z7.282.2827.0	10	8pole IVB WKN 16-8	Z7.284.2827.0	10
9pole IVB WK 6-9	Z7.282.2927.0	10	9pole IVB WKN 16-9	Z7.284.2927.0	10
10pole IVB WK 6-10	Z7.282.3027.0	10	10pole IVB WKN 16-10	Z7.284.3027.0	10
11pole IVB WK 6-11	Z7.282.3127.0	10	11pole IVB WKN 16-11	Z7.284.3127.0	10
12pole IVB WK 6-12	Z7.282.3227.0	10	12pole IVB WKN 16-12	Z7.284.3227.0	10
			30pole IVB WKN 16 M-30	Z7.284.2027.0	10
WKN 10/U	10 mm spacing Screw: M 3.5		WKN 35/U	16 mm spacing Screw: M 5	
2pole IVB WKN 10-2	Z7.283.2227.0	10	2pole IVB WKN 35-2	Z7.285.2227.0	5
3pole IVB WKN 10-3	Z7.283.2327.0	10	3pole IVB WKN 35-3	Z7.285.2327.0	5
4pole IVB WKN 10-4	Z7.283.2427.0	10	4pole IVB WKN 35-4	Z7.285.2427.0	5
5pole IVB WKN 10-5	Z7.283.2527.0	10	5pole IVB WKN 35-5	Z7.285.2527.0	5
6pole IVB WKN 10-6	Z7.283.2627.0	10	6pole IVB WKN 35-6	Z7.285.2627.0	5
7pole IVB WKN 10-7	Z7.283.2727.0	10	7pole IVB WKN 35-7	Z7.285.2727.0	5
8pole IVB WKN 10-8	Z7.283.2827.0	10	8pole IVB WKN 35-8	Z7.285.2827.0	5
9pole IVB WKN 10-9	Z7.283.2927.0	10	9pole IVB WKN 35-9	Z7.285.2927.0	5
10pole IVB WKN 10-10	Z7.283.3027.0	10	10pole IVB WKN 35-10	Z7.285.3027.0	5
11pole IVB WKN 10-11	Z7.283.3127.0	10	11pole IVB WKN 35-11	Z7.285.3127.0	5
12pole IVB WKN 10-12	Z7.283.3227.0	10	12pole IVB WKN 35-12	Z7.285.3227.0	5
			20pole IVB WKN 35 M-20	Z7.285.2027.0	10



Cross connectors, (jumper bars) uninsulated

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
for terminal blocks type			WK 4/U		6 mm spacing Screw: M 3	WK 4/3-6 SKO		6 mm spacing Screw: M 3
WK 2,5/U	5 mm spacing Screw: M 2.5		WK 4TKS D/U			2pole 2072/2	Z7.220.0227.0	50
WK 2,5 - 4 KOI/U			WK 4 3 S 1 K/U			3pole 2072/3	Z7.220.0327.0	50
WK 2,5 U/8113 S/H			WK 4 3-6 S 1 K/U			4pole 2072/4	Z7.220.0427.0	50
WKN 2,5 E/U			WK 4 5 S 2,8 1 K/U			5pole 2072/5	Z7.220.0527.0	50
2pole VB WK 2,5-2	Z7.280.0227.0	10	WK 4 3 S 1 K/IW/U			6pole 2072/6	Z7.220.0627.0	50
3pole VB WK 2,5-3	Z7.280.0327.0	10	WK 4 3-6 S 1 K/IW/U			70pole 2072/M	Z7.210.1027.0	10
4pole VB WK 2,5-4	Z7.280.0427.0	10	WK 4/U F1					
5pole VB WK 2,5-5	Z7.280.0527.0	10	WK 4/U F2			WK/5 S/U		6 mm spacing Screw: M 3
6pole VB WK 2,5-6	Z7.280.0627.0	10	2pole VB WK 4-2	Z7.281.0227.0	10	WK/5-10 S/U		
80pole VB WK 2,5 M-80	Z7.280.0027.0	10	3pole VB WK 4-3	Z7.281.0327.0	10	WK/3-6 S/U		
			4pole VB WK 4-4	Z7.281.0427.0	10	WK/4 S/U		
			5pole VB WK 4-5	Z7.281.0527.0	10	WK/4-8 S/U		
			6pole VB WK 4-6	Z7.281.0627.0	10	2pole 9703/6-2	Z7.211.0227.0	50
			70pole VB WK 4 M-70	Z7.281.0027.0	10	3pole 9703/6-3	Z7.211.0327.0	50
						4pole 9703/6-4	Z7.211.0427.0	50
WKM 2,5/15	5 mm spacing Screw: M 2.5		WK 4/D 1/2 U		6 mm spacing Screw: M 3	5pole 9703/6-5	Z7.211.0527.0	50
WKM 2,5 F1/15			WK 4/D 2/2 U			6pole 9703/6-6	Z7.211.0627.0	50
WKM 2,5 F2/15			2pole VB WK 4 D..-2	Z7.281.6227.0	10	70pole 9703/6 M-70	Z7.211.0027.0	10
WKM 2,5/2 S 2,8 1 K/15			3pole VB WK 4 D..-3	Z7.281.6327.0	10			
WKM 2,5 TP1 O/15			4pole VB WK 4 D..-4	Z7.281.6427.0	10			
WKM 2,5 TP2 O/15			5pole VB WK 4 D..-5	Z7.281.6527.0	10			
2pole VB WKM 2,5/15-2	Z7.215.4227.0	50	6pole VB WK 4 D..-6	Z7.281.6627.0	10			
3pole VB WKM 2,5/15-3	Z7.215.4327.0	50	70pole VB WK 4 D.. M-70	Z7.281.6027.0	10			
4pole VB WKM 2,5/15-4	Z7.215.4427.0	50						
5pole VB WKM 2,5/15-5	Z7.215.4527.0	50	WKM 4/15		6 mm spacing Screw: M 3			
6pole VB WKM 2,5/15-6	Z7.215.4627.0	50	WK 4/D EU					
60pole VB WKM 2,5/15 M-60	Z7.215.4027.0	10	WK 4 E/U for upper tier block					
			WK 4 E/U GU ORANGE					
			WK 4 E/U GO					
			WK 4 E/U G2					
			WK 4 E/U G1 ORANGE					
			WK 4 E/U G-URL					
			WK 4 E/U G-ULR					
			WK 4 E/U VB SCHWARZ					
			2pole 9215 - 2	Z7.210.3227.0	50			
			3pole 9215 - 3	Z7.210.3327.0	50			
			4pole 9215 - 4	Z7.210.3427.0	50			
			5pole 9215 - 5	Z7.210.3527.0	50			
			6pole 9215 - 6	Z7.210.3627.0	50			
			70pole 9215 M-70	Z7.210.3027.0	10			
WK/3 S/IW/U	6 mm spacing Screw: M 3							
WK/3 - 6 S/IW/U								
WK/4 S/IW/U								
WK/4-8 S/IW/U								
2pole VB WK/...S/IW/U-2	Z7.281.3227.0	10						
3pole VB WK/...S/IW/U-3	Z7.281.3327.0	10						
4pole VB WK/...S/IW/U-4	Z7.281.3427.0	10						
5pole VB WK/...S/IW/U-5	Z7.281.3527.0	10						
6pole VB WK/...S/IW/U-6	Z7.281.3627.0	10						
20pole VB WK/...S/IW/U-20	Z7.281.3027.0	10						



Type	Part no.	Std. pack
WK 6/U	8 mm spacing Screw: M 3.5	
2pole VB WK 6-2	Z7.282.0227.0	10
3pole VB WK 6-3	Z7.282.0327.0	10
4pole VB WK 6-4	Z7.282.0427.0	10
5pole VB WK 6-5	Z7.282.0527.0	10
6pole VB WK 6-6	Z7.282.0627.0	10
40pole VB WK 6 M-40	Z7.282.0027.0	10
WK 10/Si U 5 x 20	Spacing: 8 mm Screw: M 3	
WK 10/Si U 5 x 25		
WK 10/Si U 5 x 30		
WK 10/Si U 6,3 x 32		
WK 10/Si UD		
2pole VB WK 10/Si-2	Z7.287.0227.0	10
3pole VB WK 10/Si-3	Z7.287.0327.0	10
4pole VB WK 10/Si-4	Z7.287.0427.0	10
5pole VB WK 10/Si-5	Z7.287.0527.0	10
6pole VB WK 10/Si-6	Z7.287.0627.0	10
30pole VB WK 10/Si M-30	Z7.287.0027.0	10
WKN 10/U	10 mm spacing Screw: M 3.5	
2pole VB WKN 10-2	Z7.283.6227.0	10
3pole VB WKN 10-3	Z7.283.6327.0	10
4pole VB WKN 10-4	Z7.283.6427.0	10
5pole VB WKN 10-5	Z7.283.6527.0	10
6pole VB WKN 10-6	Z7.283.6627.0	10
40pole VB WKN 10 M-40	Z7.283.6027.0	10
WKN 70/U	Spacing: 24 mm Screw: M 6	
2pole VB WKN 70-2	Z7.286.3227.0	5
3pole VB WKN 70-3	Z7.286.3327.0	5
4pole VB WKN 70-4	Z7.286.3427.0	5
5pole VB WKN 70-5	Z7.286.3527.0	5
6pole VB WKN 70-6	Z7.286.3627.0	5
WKN 150/U	28 mm spacing Screw: M 8	
2pole VB WKN 150-2	Z7.287.1227.0	5
3pole VB WKN 150-3	Z7.287.1327.0	5

Accessories for DIN rail terminal blocks

selos



Single cover

for cross connector (jumper bar)

Type	Part no.	Std. pack	Type	Part no.	Std. pack
for terminal block type			WK 4 E/U		
			WKM 4/15		
WK 2,5/U			AD VB 4/15 GELB	04.326.2953.8	10
WK 2,5-4 KOI/U					
WK 2,5 E/U			WK6/U		
AD VB 2,5 GELB	04.326.2053.8	10	WK 6 ETK/U		
			AD VB 6 GELB	04.326.2253.8	10
WKM 2,5 F..					
WKM 2,5/15			WKN 10/U		
AD VB 2,5/15 GELB	04.326.3053.8	10	WKN 10 ETK/35		
			AD VB 10 GELB	04.326.2353.8	10
WK/3 S/..					
WK 4/U			WK 10/Si U without marking facilities		
WK 4/U F..				04.312.2056.10	
WK 4 SL/35					
WK 4 ETK/U			WKN 35/U		
WK 4/D..			AD VB 35 GELB	04.326.2553.8	10
WK 4 TKS D/U					
WK/4 S/..			WKN 70/U		
WK 4 3..			AD VB 70 GELB	04.326.2653.8	10
WK 4 5..					
WK 5..					
AD VB 4 GELB	04.326.2153.8	10			



Partition plate

with marking facilities

Partition

with marking facilities

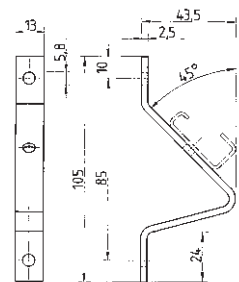
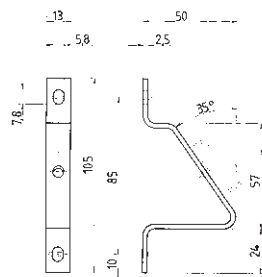
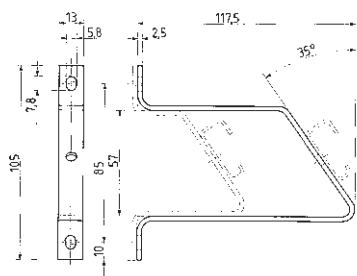
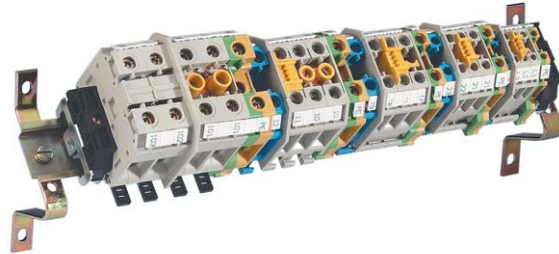
Type	Part no.	Std. pack	Type	Part no.	Std. pack
for terminal block type					
WK 2,5/U			for TS 32 + 35	Z7.311.1753.0	
TS 2,5 GELB	07.311.2053.8	10	for TS 15	Z7.311.2753.0	10
WK/3...					
WK 4/U					
WK 4/...					
WK 4 3 ...					
WK 4 5 S					
WK 5					
TS 4 GELB	07.311.2153.8	10			
WK 6/U					
TS 6 GELB	07.311.2253.8	10			
WKM 2,5 F...					
TSM 2,5/15	07.311.2853.8	10			
WKM 4/15					
TS 4/15 GELB	07.311.2953.8	10			
Partition plate with cover					
WKN 16/U					
TSN AD 16 GELB	07.311.8553.8	10			



Jumper combs, uninsulated

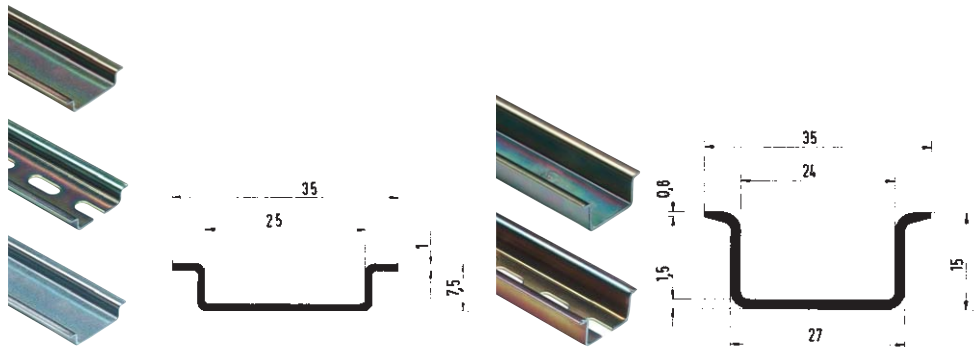
(for rated voltages of up to 50 V)

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
for terminal block type			WK 4 E/U			WK 4 TKM/U		
			1 mm thick			WK 4/U		
9785 U/10Ω bis 50 kΩ			2pole VB WK 4 E-2 07.255.2227.0 10			WK 4 TKS D/U		
9785 U/10Ω-SPT bis 50 kΩ-SPT			3pole VB WK 4 E-3 07.255.2327.0 10			0.5 mm thick		
9786 U/12			4pole VB WK 4 E-4 07.255.2427.0 10			2pole VB 0,5 WK 4.-2 07.255.0227.0 50		
9786 U/12 D			5pole VB WK 4 E-5 07.255.2527.0 10			3pole VB 0,5 WK 4.-3 07.255.0327.0 50		
9786 U/12 D-G1			6pole VB WK 4 E-6 07.255.2627.0 10			4pole VB 0,5 WK 4.-4 07.255.0427.0 50		
9786 U/12 G 2-4 K			7pole VB WK 4 E-7 07.255.2727.0 10			5pole VB 0,5 WK 4.-5 07.255.0527.0 10		
9786 U/12 G 2-3 K			8pole VB WK 4 E-8 07.255.2827.0 10			6pole VB 0,5 WK 4.-6 07.255.0627.0 10		
1 mm thick			9pole VB WK 4 E-9 07.255.2927.0 10			7pole VB 0,5 WK 4.-7 07.255.0727.0 50		
2pole VB 9786-2	07.253.0227.0	50	10pole VB WK 4 E-10 07.255.3027.0 10			8pole VB 0,5 WK 4.-8 07.255.0827.0 10		
3pole VB 9786-3	07.253.0327.0	50	11pole VB WK 4 E-11 07.255.3127.0 10			9pole VB 0,5 WK 4.-9 07.255.0927.0 50		
4pole VB 9786-4	07.253.0427.0	50	12pole VB WK 4 E-12 07.255.3227.0 10			10pole VB 0,5 WK 4.-10 07.255.1027.0 50		
			70pole VB WK 4 EM-70 07.255.2027.0 10			11pole VB 0,5 WK 4.-11 07.255.1127.0 50		
			1 mm thick, angled			12pole VB 0,5 WK 4.-12 07.255.1227.0 10		
			2pole VBS WK 4 E-2 07.256.4227.0 10			70pole VB 0,5 WK 4.-M-70 07.255.0027.0 10		
			3pole VBS WK 4 E-3 07.256.4327.0 10			1 mm thick		
			4pole VBS WK 4 E-4 07.256.4427.0 10			2pole VB 1 WK 4.-2 07.255.4227.0 10		
			5pole VBS WK 4 E-5 07.256.4527.0 10			3pole VB 1 WK 4.-3 07.255.4327.0 10		
			6pole VBS WK 4 E-6 07.256.4627.0 10			4pole VB 1 WK 4.-4 07.255.4427.0 10		
			7pole VBS WK 4 E-7 07.256.4727.0 10			5pole VB 1 WK 4.-5 07.255.4527.0 10		
			8pole VBS WK 4 E-8 07.256.4827.0 10			6pole VB 1 WK 4.-6 07.255.4627.0 10		
			9pole VBS WK 4 E-9 07.256.4927.0 10			7pole VB 1 WK 4.-7 07.255.4727.0 10		
			10pole VBS WK 4 E-10 07.256.5027.0 10			8pole VB 1 WK 4.-8 07.255.4827.0 10		
			11pole VBS WK 4 E-11 07.256.5127.0 10			9pole VB 1 WK 4.-9 07.255.4927.0 10		
			12pole VBS WK 4 E-12 07.256.5227.0 10			10pole VB 1 WK 4.-10 07.255.5027.0 10		
						11pole VB 1 WK 4.-11 07.255.5127.0 10		
						12pole VB 1 WK 4.-12 07.255.5227.0 10		
						70pole VB 1 WK 4.-M-70 07.255.4027.0 10		



Angled support bracket

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
9018 D	Z5.516.2511.0	50	9018 H	Z5.516.2711.0	50	9018 N	Z5.516.2811.0	50
<p>Included with these angled support brackets are oval head screws for panel mounting AM 5 x 8 DIN 85, nuts BM 5 DIN 439 and screws 5.3 DIN 433 for DIN rail mounting.</p> <p>Material: Brackets: flat steel, galvanically zinc-plated Screws, nuts and washers Steel, galvanically zinc-plated and dichromated</p>								

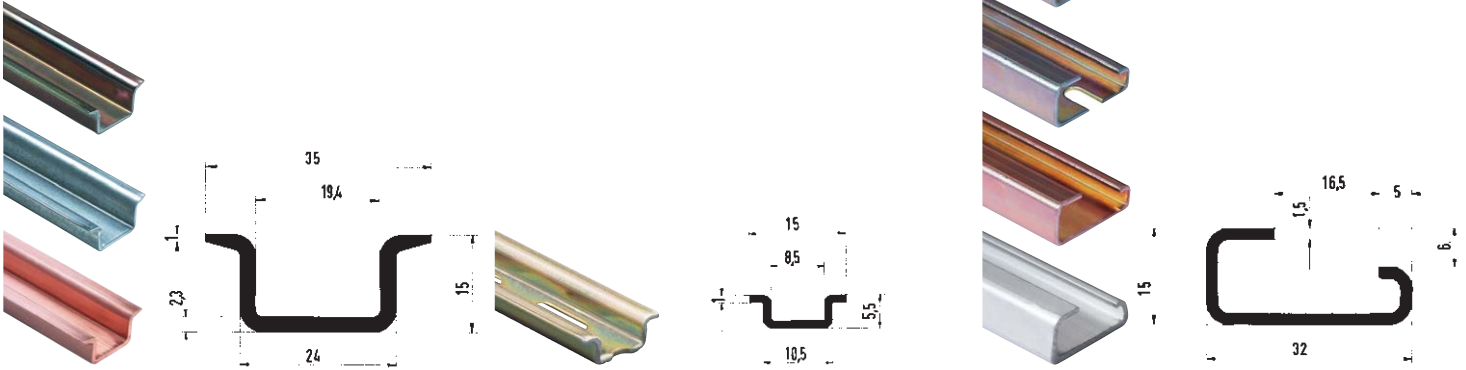


**Mounting rail 35 x 7.5
 accord. to DIN EN 60715**

**Mounting rail 35 x 15
 accord. to DIN EN 60715**

Mounting rail	Type	Part no.	Std. pack	Type	Part no.	Std. pack
1. Steel, galv. zinc-plated and dichromated, unslotted L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 15 EN 60715	98.370.0000.0	1
Steel, galv. zinc-plated and dichromated, slotted L = 2 m	35 x 27 x 7,5 EN 60715 slotted	98.300.1000.0	1	35 x 27 x 15 EN 60715	98.370.1000.0	1
Steel, galv. zinc-plated and dichromated, slotted L = 1 m	35 x 27 x 7,5 EN 60715 slotted	98.300.1000.0M		35 x 27 x 15 EN 60715	98.375.1000.0	1
Steel, galv. zinc-plated and dichromated, slotted L = 2 m	35 x 27 x 7,5 EN 60715 slotted	98.300.1000.0L				
2. Steel, unplated unslotted L = 2 m	35 x 27 x 7,5 EN 60715 unplated	98.300.0010.0				
Steel, unplated slotted L = 2 m						
3. Steel, hot-galvanized unslotted L = 2 m						
Steel, hot-galvanized slotted L = 2 m						
4. E copper unslotted L = 2 m						
E copper slotted L = 2 m						
5. Aluminum unslotted L = 2 m	35 x 27 x 7,5 EN 60715	98.750.0000.0				
Aluminum slotted L = 1 m	35 x 27 x 7,5 EN 60715	98.800.1000.0				
6. Stainless Steel unslotted L = 2 m	35 x 27 x 7,5 EN 60715	98.330.0000.0		35 x 27 x 15 EN 60715	98.370.1001.0	1

selos



Mounting rail 35 x 15
 accord. to DIN EN 60715

Mounting rail 15 x 5.5
 accord. to DIN EN 60715

Mounting rail TS 32
 accord. to DIN EN 60715

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
35 x 27 x 15 EN 60715	98.360.0000.0	1				9006 EN 60715 G-32	98.190.0000.0	1
						9006 EN 60715 G-32	98.190.1000.0	1
35 x 24 x 15 EN 60715 ZN	98.360.0004.0	1						
35 x 24 x 15 EN 60715 CU	98.380.0000.0	10				9006 E-CU	98.220.0000.0	10
			9021/15 x 5,5 EN 60715	98.090.0000.0	1			
			9021/15 x 5,5 EN 60715	98.090.0015.0	10	9006 AL	98.210.0000.0	1

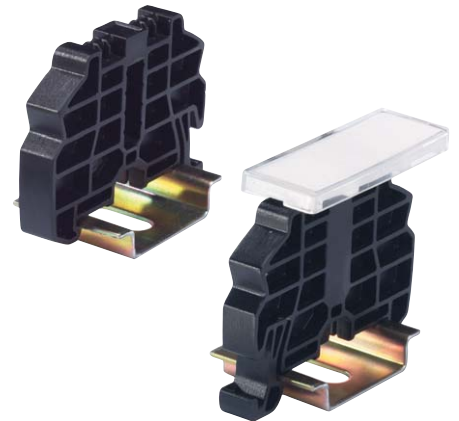
Accessories for DIN rail terminal blocks

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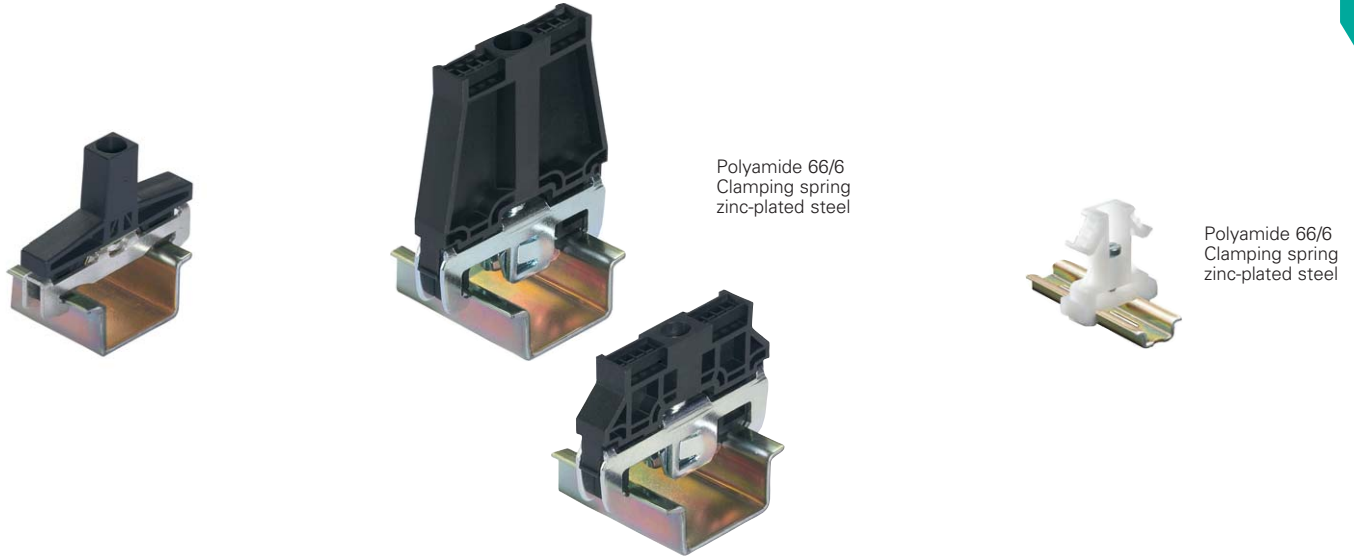
**End clamp for TS 35
fixation with screws**



**End clamp for TS 35
fixation without screws**

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
End clamp						
1. End clamp TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0			100
2. End clamp TS 35, with screw with marking facilities for block assemblies	8/17.5 mm wide	9708/2 BS/35	69.920.0553.0			100
3. End clamp for TS 35, screwless	8 mm wide			WEF 1/35	Z5.523.9353.0	100
4. End clamp for TS 35, screwless with marking facilities for terminal block assemblies	8/17.5 mm wide			WEF 1 BS/35	69.920.1053.0	100
5. End clamp TS 35	7.5 mm wide					
6. End clamp with U-foot	10 mm wide					

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End clamp for TS 35

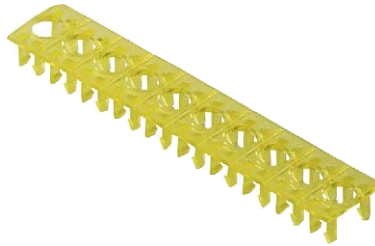
End clamp with U-foot

End clamp for TS 15

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
9708/3 S 35	Z5.523.5153.0	100						
						9208/S15	Z5.522.7553.0	100
			WE 2/U	Z5.523.5653.0	100			
			WE 1/U	Z5.523.5753.0	100			

Accessories for DIN rail terminal blocks

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Cover over 10 blocks

Cover over 10 blocks

Hole for test pin

Cover strip with warning symbol

over 4 blocks

				Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 2,5/U				WK 2,5/U			WK 2,5/U	04.343.4756.8	10
WK 2,5-4 KOI/U...				WK 2,5-4 KO I/4					
AD VB 5/10 E GELB	04.342.0556.8	10		AD VB 5/10 P GELB	04.342.3556.8	10			
							WK 4/U	04.343.4856.8	10
WK 4/U				WK 4			WK 6/U	04.343.4956.8	10
AD VB 6/10	04.342.0656.8	10		AD VB 6/10 P GELB	04.342.3656.8	10			
WK 10/U				WK 4 E/U			WKN 10/U	04.343.5056.8	10
AD VB 10/10 GELB	04.342.1056.8	10		AD VB 6/10 EP GELB	04.342.5656.8	10			
							WKN 16/U	04.343.5156.8	10
WK 4 E/U				WK 6/U			WKN 35/U	04.343.5256.8	10
AD VB 6/10 E GELB	04.342.2656.8	10		AD VB 8/10 P GELB	04.342.3856.8	10			
				WK 10/U			WKN 70/U	04.343.5356.8	10
				AD VB 10/10 P GELB	04.342.4056.8	10			
				WK 5... S/U			WKN 150/U	04.343.5456.8	10
				WK/3 S/..					
				WK/4 S/..					
				WK 4 3..					
				AD VB 6/10 P GELB	04.342.3656.8	10			



Cover
for terminals from 95 - 240 mm²

Rapid mounting tool
for terminals up to 6 mm²

Insulating housing for push-on connector
6.3 x 0.8 mm

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
for terminal block type			for terminal block type			Insulating housing for push-on connectors, color: yellow with marking field		
RFK 1/185	Z7.409.5853.0	10	WK 2,5	05.594.5853.0	10	for 1.5 mm ²	05.592.7553.0	2000
RFK 1/240	Z7.409.5853.0	10				for 2.5 mm ²	05.592.7653.0	2000
			WK 4	05.594.5953.0	10			
			WK 6	05.594.6053.0	10			
			WK 4 E/U	05.582.8153.0	10	Insulating housing for push-on connectors, color: yellow for 2.5 mm ² (can be inserted on the plug side)		
			Tool picks up and mounts 10 terminals at a time. Mount 100 terminals in 90 seconds.			unmarked	05.582.8653.0	1
						marked	05.582.8753.0	
						(please indicate the marking)		

Accessories for DIN rail terminal blocks

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Test plug stud bolt

Shorting plug

Test plug (tests off the current bar)

				Type	Part no.	Std. pack	Type	Part no.	Std. pack
Test socket				Shorting plug			snap-on with		
WK 2,5				WK 4 TKG-TRST P3/U			locking lever		
WKN 2,5 E/U				WK 4/TKM.../U			for terminal block type		
WK 2,5-3 D/U				WK 4 TKS D/U					
WK 4 TKMP 3/U				WK 4/U F1			WK 4	Z1.299.6153.0	10
WK 4 TKG-TRST P3/U				WK 4/U F2					
WK 4 TKS D/U				9290...	Z5.553.9400.0	100	WK 4 E/U	Z1.299.9053.0	10
WK 2,5 U/8113 S/H							Test plug without locking lever		
WK 4/U F1							snap-on		
WK 4/U F2							Z1.299.8153.0	10	
WK 4									
WK 4/D1/2 U									
WK 4/D2/2 U									
WK 4/DEU									
WK 4 E.../U									
9290...	ST 2/2,3	Z5.553.2921.0	10						
WK6	ST 2/4	Z5.553.3021.0	10						
Test socket									
WK 2,5									
WKN 2,5 E/U									
WK 2,5-3 D/U									
WK 2,5-3 D SL									
WK 2,5 U/8113 S/H		05.509.6021.0	10						
WK 4									
WK 4 TKS D/U									
WK 4/U F1									
WK 4/U F2		05.508.8921.0	10						
WK 4/D1/2 U									
WK 4/D2/2 U									
WK 4/DEU									
WK 4 E.../U		05.508.8821.0	10						

For marking systems see pages 178-179 and 200-202



Test plug (test off the screw)

for WK 4 terminal blocks

with locking device and strain relief I

$I_{min} = 10 \text{ mA}$

$I_{max} = 3,5 \text{ A}$

$U_{min} = 10 \text{ V}$

$U_{max} = 250 \text{ V} \sim 300 \text{ V}_{AC}$

Test plug with spring clamp connection

for WKF/WKC terminal blocks

PSWKC/F

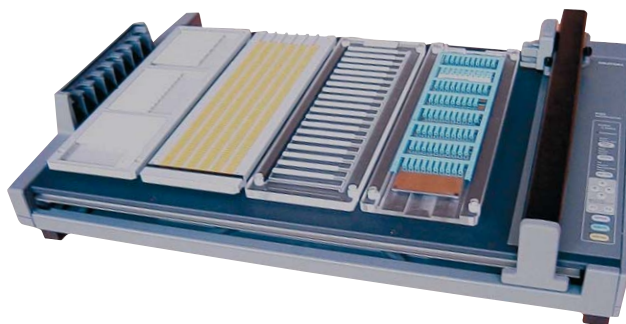
0,13 - 1,5 mm² 0,13 - 1,5 mm² V A
400 V 2,5

Type	Part no.	Std. pack	Type	Part no.	Std. pack
1pole			1pole		
without contact pin	Z1.299.9253.0	10	5mm pitch		
			PSWKC/F	Z1.299.9753.0	
1pole			Blank for staggering terminals		
without contact pin			blocks	01.299.9753.0	
snap-on	Z1.299.9453.0	10			
			End plate and		
			partition for 6 mm pitch		
10pole without contact pins			ZP/AP PS	07.312.6053.0	10
with locking device and strain relief					
marked 1 - 10			One end plate per module is required for 6 mm pitch		
PST 10 WK 4	Z1.299.9553.0	10			
Contact pin	05.549.1200.0	1			
			jumpered with		
			at RM5	Z7.280.6227.0	
			to		
				Z7.280.7027.0	..
			at RM6	Z7.261.1227.0	
			to		
				Z7.261.2027.0	
			Screwdriver,		
			uninsulated	06.502.4000.0	
For marking systems see pages 178-179 and 200-202					

Marking accessories for DIN rail terminal blocks

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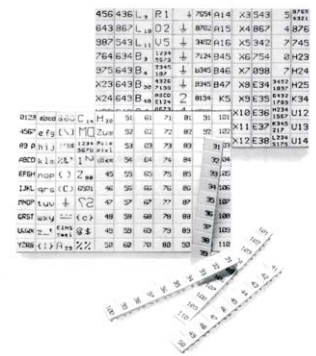


wiemarc

Type	Part no.	Std. pack
wiemarc CD	95.502.0501.0	
Description		
<p>wiemarc is a Windows® based plotter software (Windows 95/98/ME/NT/XP) that is able to drive the following plotter systems:</p> <ul style="list-style-type: none"> – wieplot MUT (Mutoh system) – Roland system <p>for custom printing on standard Wieland marking tags.</p> <p>wiemarc makes preparing data for custom printing easier and faster than ever. Intuitive handling allows printing of marking tag cards in single, multipole and series marking jobs. Import of marking data from Excel files, text files and CAD/CAE programs is possible. wiemarc data file management is user-friendly as printing data can be stored and found very easily in the file library. wiemarc knows several special characters for electrical marking. wiemarc is able to mark tags with upward or downward series, series steps can be chosen as well as leading or following characters. Multipole line printing is possible depending on tag size, number of digits and type size. Automatic adaptation of type size according to tag size and number of digits.</p> <p>Requirements: Pentium II PC or compatible, min. 200 MHz or higher, 64 MByte RAM, CD-ROM Drive, VGA Grafic Adaptor and Monitor</p> <p>wiemarc supports Windows 95®, Windows 98®, Windows 2000®, Windows NT®, Windows ME® and Windows XP® Professional.</p>		

wieplot MUT

Type	Part no.	Std. pack
wieplot MUT	95.502.0601.0	
Description		
<p>wieplot MUT is a plotter system that uses wiemarc to interface with a PC, allowing custom printing on standard Wieland marking tags. These standard marking tags provide circuit identification for Wieland DIN rail mount terminal blocks, rectangular multipole connectors and WEB/WEG electronic housings.</p> <p>Resolution: 0.025 mm</p> <p>Accuracy: +/- 0.1 mm</p> <p>Power supply: 50/60 Hz, 180 – 264 V, 90 – 132 V Automatic switch over from 110 V to 230 V</p> <p>Power rating: About 0.3 A for 220 V</p> <p>Approvals: UL-UL478 (REV .4) CSA-22.2 No. 220 and VDE EN 60 950</p> <p>Interference: FCC Class B FCC Part 15 and VDE Class B</p> <p>Dimensions: 620 mm x 425 mm x 106.5 mm</p> <p>Weight: 6.4 kg</p> <p>Interfaces: RS-232 C and parallel (Centronics)</p>		
Standard template	95.502.0621.0	for all Wieland tags



Accessories

Type	Part no.	Std. pack	Type	Part no.	Std. pack
Accessory kit consists of plotter pen 0.25 mm, Ink-cartridge, permanent plotter pen 0.3 mm and cleaning set.			Marker Cards:		
Accessory kit (pen basic equipment)	95.502.0602.0		110 tags per card		
			9075 A/5/10/11	Z4.242.5053.0	
Plotter pens for ROLAND and wieplot MUT systems:			60 tags per card		
Plotter pen 0.18 mm	95.502.0118.0		9075 AL/5/10/6	Z4.242.5153.0	
Plotter pen 0.25 mm	95.502.0125.0		110 tags per card		
Plotter pen 0.35 mm	95.502.0135.0		9075 A/6/10/11	Z4.242.6053.0	
Plotter pen 0.50 mm	95.502.0150.0		60 tags per card		
Plotter pen 0.70 mm	95.502.0170.0		9075 AL/6/10/6	Z4.242.6153.0	
Plotter pen 1.00 mm	95.502.0100.0		84 tags per card		
			9075 A/6.7/12/7	Z4.242.6753.0*	
			36 tags per card		
			9075 AL/6.7/12/7	Z4.242.6853.0*	
			* must use multi-card template		
Permanent Plotter pen			9075 A/8/10/7	Z4.242.8053.0*	
0.30 mm black	95.502.0230.0				
0.70 mm black	95.502.0270.0				
Permanent Plotter pen set					
consisting of black, red, blue, green pen.					
set 0.30 mm	95.502.0234.0				
set 0.70 mm	95.502.0274.0				
Hand pens					
Hand pen 0.25 mm	95.502.0425.0				
Hand pen 0.35 mm	95.502.0435.0				
Hand pen 0.50 mm	95.502.0450.0				
Hand pen 0.70 mm	95.502.0470.0				
Ink cartridge P1.0 5 x 1 ml	95.502.0199.0				
Cleaning set	95.502.0198.0				
Pen cleaner	95.502.0197.0				
wiemarc-Templates for Wieland cards:					
for updating existing plotter systems to wiemarc for marcom 2000 and Phoenix CMS-System	95.502.0621.0				
for Weidmueller M-Print (Mutoh IP 220)	95.502.0622.0				
for murrplastic ACS (Roland DXY1150A) set high	95.502.0623.0				
for Wago System and murrplastic ACS set low	95.502.0624.0				

	9075A/5/10/11	9075AL/5/10/6	9075A/6/10/11	9075AL/6/10/6	9075A/6.7/12/7	9075AL/6.7/12/7	9075A/8/10/7
fasis							
WKf 2.5 ...	X	X					
WKf 4 ...			X	X			
WKf 6 ...					X	X*	X
WKf 10 ...	X*	X*					
WKf 16 ...			X*	X*			
WKMF 2.5 ...	X	X					
taris							
WKC 1 ...	X	X					
WKC 2.5 ...			X	X			
selos							
WK 2.5 ...	X	X					
WK 4 ...			X	X			
WK 6 ...					X*	X*	X
WKN 10 ...	X*	X*					
WKN 16 ...			X*	X*			
WKN 35 ...					X*	X*	X*
WKN 70 ...					X*	X*	
WKM 2.5 ...	X	X					
WKM 4 ...			X	X			
9220 A/6			X	X			
9700 A/5	X	X					
9700 A/6			X	X			
9700 A/8					X*	X*	X
9700 A/10	X*	X*					
9700 A/12			X*	X*			
9700 A/16					X*	X*	

* 2 strips needed for 10 terminals
+ markers must be mounted individually
Note: the AL-markers are 69% longer than the A-markers
AL/6.7 is twice as long to allow more printing area



2.5 mm²/5 mm Width



4 mm²/6 mm Width



10 mm²/10 mm Width

16 mm²/12 mm Width

35 mm²/16 mm Width




Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Marking strips, unmarked			Marking strips, unmarked			10 mm²/10 mm Width		
9705 A/5/10	04.242.5053.0	25	9705 A/6/10	04.242.6053.0	25	marked for 5 blocks (every 2nd tag) *		
Marking strips, marked			Marking strips, marked			9705 A/5/10/5 B 04.842.5553.0 25		
9705 A/5/9 B 1 - 9	04.842.4953.0	25	9705 A/6/9 B 1 - 9	04.842.5953.0	25	16 mm²/12 mm Width		
9705 A/5/10 B*	04.842.5053.0	25	9705 A/6/10 B*	04.842.6053.0	25	marked for 5 blocks (every 2nd tag) *		
9705 A/5/10 B 1 - 10	04.845.0153.0	25	9705 A/6/10 B 1 - 10	04.846.0153.0	25	9705 A/6/10/5 B 04.842.6553.0 25		
11 - 20	04.845.0253.0	25	11 - 20	04.846.0253.0	25	35 mm²/16 mm Width		
21 - 30	04.845.0353.0	25	21 - 30	04.846.0353.0	25	marked for 5 blocks (every 2nd tag) *		
31 - 40	04.845.0453.0	25	31 - 40	04.846.0453.0	25	9705 A/8/10/5 B 04.842.8553.0 25		
41 - 50	04.845.0553.0	25	41 - 50	04.846.0553.0	25			
51 - 60	04.845.0653.0	25	51 - 60	04.846.0653.0	25			
61 - 70	04.845.0753.0	25	61 - 70	04.846.0753.0	25			
71 - 80	04.845.0853.0	25	71 - 80	04.846.0853.0	25			
81 - 90	04.845.0953.0	25	81 - 90	04.846.0953.0	25			
91 - 100	04.845.1053.0	25	91 - 100	04.846.1053.0	25			
⊕ (10 x)	04.855.0053.0	25	⊕ (10 x)	04.856.0053.0	25			
± (10 x)	04.855.0153.0	25	± (10 x)	04.856.0153.0	25			
+ (10 x)	04.855.0253.0	25	+ (10 x)	04.856.0253.0	25			
- (10 x)	04.855.0353.0	25	- (10 x)	04.856.0353.0	25			
L1 (10 x)	04.855.0453.0	25	L1 (10 x)	04.856.0453.0	25			
L2 (10 x)	04.855.0553.0	25	L2 (10 x)	04.856.0553.0	25			
L3 (10 x)	04.855.0653.0	25	L3 (10 x)	04.856.0653.0	25			
PE (10 x)	04.855.0753.0	25	PE (10 x)	04.856.0753.0	25			
SL (10 x)	04.855.3153.0	25	SL (10 x)	04.856.3153.0	25			
N (10 x)	04.855.3253.0	25	N (10 x)	04.856.3253.0	25			
F1 (10 x)	04.855.0953.0	25	F1 (10 x)	04.856.0953.0	25			
F2 (10 x)	04.855.1053.0	25	F2 (10 x)	04.856.1053.0	25			
L1, L2, L3, N, PE (2 x)	04.855.0853.0	25	L1, L2, L3, N, PE (2 x)	04.856.0853.0	25			
with enlarged marking area			with enlarged marking area					
9705 AL/5/10	04.242.5153.0	25	9705 AL/6/10	04.242.6353.0	25			
*Custom marking upon request			*Custom marking upon request			* indicate required marking with part no.		

Marking accessories for DIN rail terminal blocks

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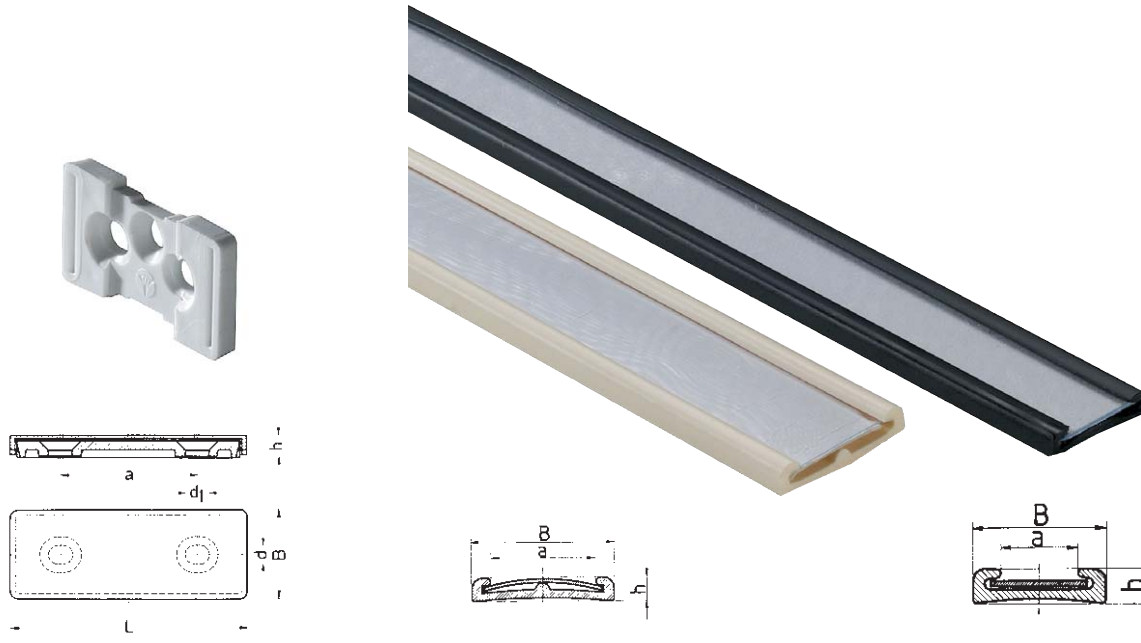
Tear-off marking strip with 10 marking tags

Material: Polyamide 66/6 white, marking in black	Marking per strip	Type	Part no.	Stand. pack
unmarked		9704 A	04.241.1150.0	25
marked with the same number		1 1 1 1 1 1 1 1 1 1	9704 A/1 B	04.841.1150.0 25
		2 2 2 2 2 2 2 2 2 2	9704 A/2 B	04.841.1250.0 25
		3 3 3 3 3 3 3 3 3 3	9704 A/3 B	04.841.1350.0 25
		4 4 4 4 4 4 4 4 4 4	9704 A/4 B	04.841.1450.0 25
		5 5 5 5 5 5 5 5 5 5	9704 A/5 B	04.841.1550.0 25
		6 6 6 6 6 6 6 6 6 6	9704 A/6 B	04.841.1650.0 25
		7 7 7 7 7 7 7 7 7 7	9704 A/7 B	04.841.1750.0 25
		8 8 8 8 8 8 8 8 8 8	9704 A/8 B	04.841.1850.0 25
		9 9 9 9 9 9 9 9 9 9	9704 A/9 B	04.841.1950.0 25
		0 0 0 0 0 0 0 0 0 0	9704 A/0 B	04.841.2050.0 25
marked with consecutive numbers		9704 A/1-0 B	04.841.2150.0	25
marked with the same symbols		+ + + + + + + + + +	9704 A/+ B	04.841.7450.0 25
		- - - - - - - - - -	9704 A/- B	04.841.7550.0 25
		/ / / / / / / / / /	9704 A// B	04.841.7650.0 25
		. . . . . . . . . .	9704 A/. B	04.841.7750.0 25
1 set of the same numbers = 10 x 25 strips = 2500 numbers	1 1 1 ... 0 0 0	A to Z (capital letters)	04.841.9050.0	1
1 set of capital letters = 26 x 25 strips = 6500 letters	A A A ... Z Z Z	a to z (small letters)	04.841.9150.0	1
1 set of small letters = 26 x 25 strips = 6500 letters	a a a ... z z z		04.841.9250.0	1

Marking Accessories for DIN rail terminal blocks

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Marking tags

The marking tags are delivered unassembled!

Marking strip

Marking strip

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack																			
Version N:			Available in Polyvinylchlorid (PVC) black and ivory,			Available in Polyvinylchloride,																					
Material:			1 m long			1 m long																					
special photostable plastic,			with marking card (white) and plastic foil cover			with marking card and plastic foil cover																					
transparent, marking card in white			or with plastic foil, one side roughened, white opaque																								
300 B	90.100.1154.0	100	319/13,5 K elf.	90.800.1055.8	10	315 GK	90.810.3055.0	10																			
300	90.100.0554.0	100	319/17,5 K elf.	90.800.2055.8	10	315 GC	90.811.3055.0	10																			
301	90.100.0754.0	100																									
303	90.100.0854.0	100																									
305	90.100.1054.0	100	319/13,5 K schwarz	90.800.1055.1	10																						
			319/17,5 K schwarz	90.800.2055.1	10																						
						End piece																					
						315 E	05.590.0052.0	100																			
Version K:																											
Marking cards in perforated																											
sheets for marking on the																											
type writer																											
300 BK	90.100.1354.0	100																									
300 K	90.100.1254.0	100																									
301 K	90.100.1454.0	100																									
303 K	90.100.1554.0	100																									
305 K	90.100.1654.0	100																									
L	B	h	a	e	d	d ₁	l	b	L	B	h	a	e	d	d ₁	l	b	L	B	h	a	e	d	d ₁	l	b	
30	17,5	4	11	3,6	4,6	27	14,5		1000	20	4	13,5						1000	16	4	9						
45	17,5	4	26	3,6	4,6	42	14,5		1000	24	4	17,5						1000	16	4	9						
60	30	7	36,5	3,6	4,6	54,5	24,5		1000	30,5	4	23,5															
90	40	8	55	3,6	4,6	84	34		1000	20	4	13,5															
140	55	8	100	3,6	4,6	134	49		1000	24	4	17,5															
									1000	30,5	4	23,5															

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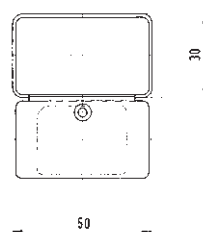
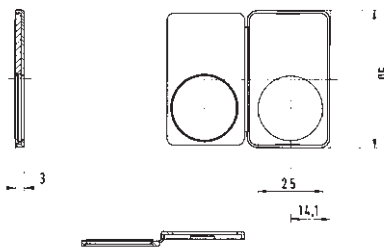
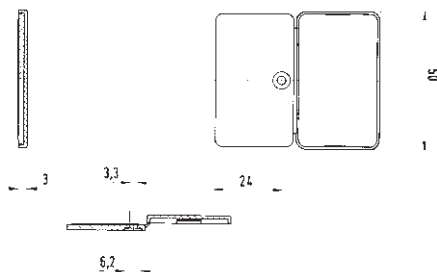
30



30



9



Marking tag

Marking tag

Marking tag

Design	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Marking tag with adhesive tape	Z4.210.0652.0	100	Push button tag	04.210.0752.0	100	Marking tag with carrier	Z4.210.1652.0	100
Marking tag without adhesive tape	04.210.0652.0	100						
Marking card white for marking tags (1 sheet = 30 single tags)	04.019.0889.0	1	Marking card white for marking tags (1 sheet = 30 single tags)	04.019.0889.0	1	Marking card white for marking tags (1 sheet = 30 single tags)	04.019.0889.0	1
Aluminum tag, self-adhesive	05.584.9489.0	1	Aluminum tag, self-adhesive	05.584.9489.0	1	Aluminum tag, self-adhesive	05.584.9489.0	1

DIN rail terminal blocks

with screw clamp technology, type 9700 A.. S35

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Standard terminal blocks

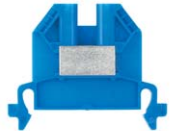
2.5 mm²
(12 AWG)



4 mm²
(10 AWG)



Feed-through blocks



Neutral disconnect blocks



Ground blocks



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10 mm²
(8 AWG)



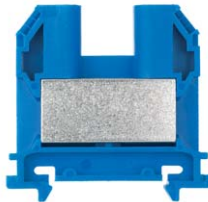
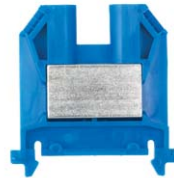
16 mm²
(6 AWG)



25 mm²
(4 AWG)



35 mm²
(2 AWG)



PEN assembly block

35 mm²

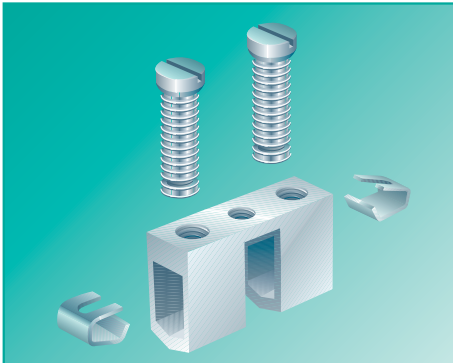


DIN rail terminal blocks

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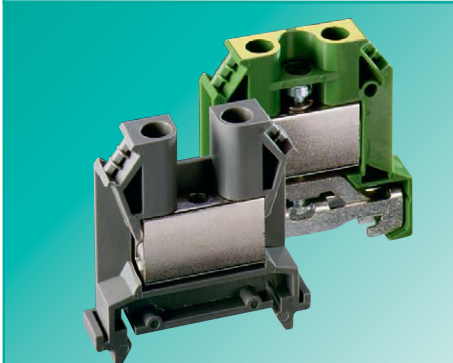
with screw clamp connection, type 9700 A.. S35

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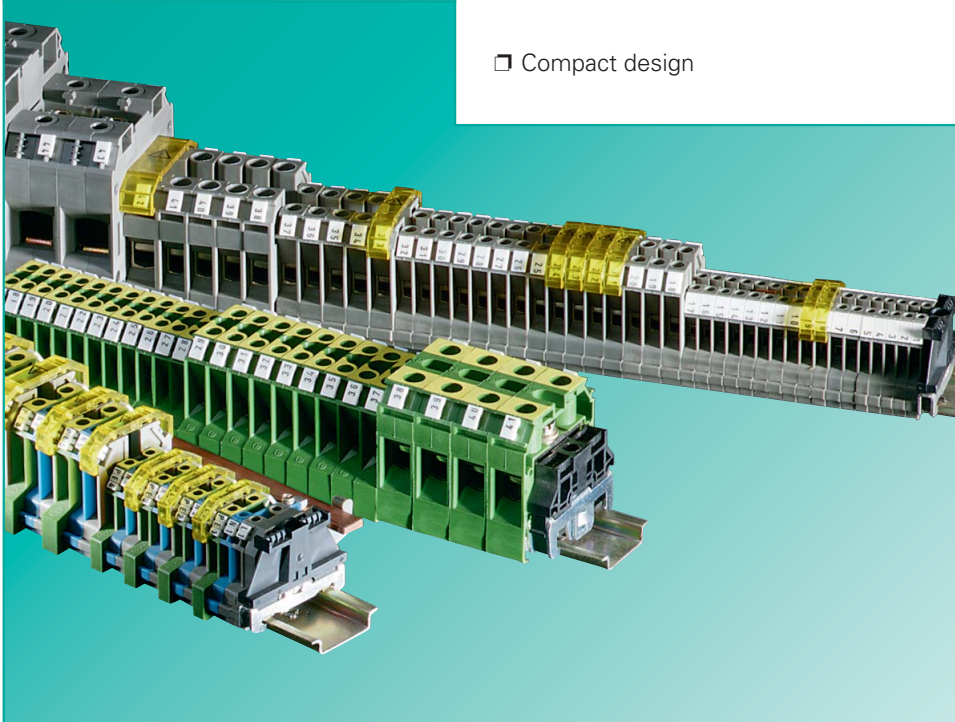


9700 A S35 offers...

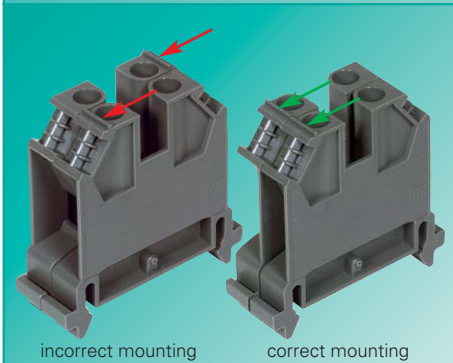
- ❑ **Screw clamp technology**
made from nickel-plated copper alloy



- ❑ **Connection range**
12-2 AWG



- ❑ **Compact design**



incorrect mounting

correct mounting

- ❑ **Function and Installation safety**

Application advantages

- Low contact resistance
 - Clamping body has similar physical and chemical characteristics as the conductor
 - One piece clamping body/current bar
- **Connection of Aluminum Conductors**
 - Clamping body is able to penetrate aluminium oxide
- **Steel free Clamping Body**
 - High corrosion resistance

- Wire gauge from 18-2 AWG solid, stranded and fine stranded conductors can be terminated without ferrules.

→ Save space on the rail

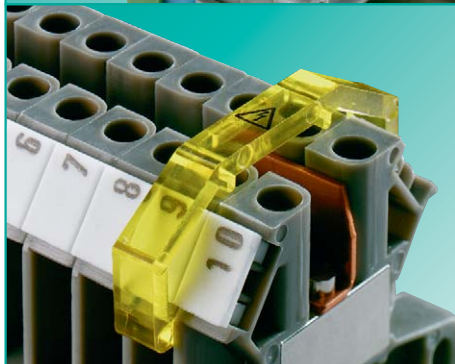
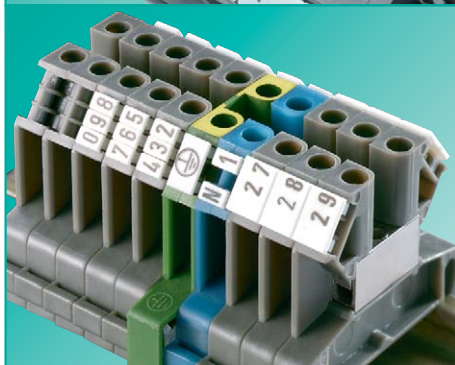
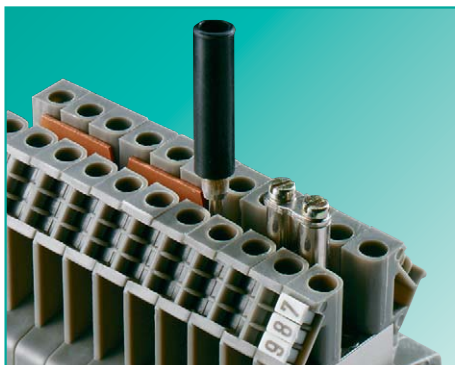
- **selos** Classic Line offers higher density due to the wire size and terminal block pitch.

Connection range	Pitch
12 AWG	5 mm
10 AWG	6 mm
8 AWG	8 mm
6 AWG	10 mm
4 AWG	12 mm
2 AWG	16 mm

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- Mounting on TS 35 DIN Rail (DIN 60 715)
- Product range:
 - Feed-through terminals
 - Ground terminals
 - Neutral Bus terminals
 - PEN terminals

- Incorrect mounting indicator on the top of terminal
 - terminals mounted incorrectly are easily identified and fixed.



Test plugs and shorting plugs

- Test sockets which accept the test plugs and the shorting plugs are installed in the threaded slot on the carrying bar.
- Modular test plugs are available to create test plug modules greater than two poles.

Switchable connecting links (SCL)

- For easy commoning and disconnecting two terminals

Jumper bar

- Allow easy commoning of potential
- Available in pre-cut 2-6 pole versions
- Available in cut to length version in 50, 70, or 90 pole versions depending on the terminal block
- End plates and partitions are required to maintain creepage distances.

Marking systems

- Single marking tags in 5, 6, or 8mm pitch
- Marking strips (10 tags) to snap on 10 terminals at the same time
- Tear-off marking strips for marking up to 3 digits per terminal block
- Custom marking available upon request

Cover with warning symbol

- For terminals that remain live after the mains have been switched off (VDE 0113)
- Can be removed with a screwdriver

DQS certificates for all company divisions

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

Metal components

Special alloys and surface treatments offer low contact resistance and a gas tight connection

Clamping body: nickel plated copper alloy
Screws: nickel plated copper alloy

Jumper bar: copper
Test socket: copper alloy, plated
SCL: copper alloy

Insulation housing

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housing: Polyamide 66/6
Tracking current resistance: CTI 600
Flammability class:: UL 94 V-2

(also see section **facts & DATA**)

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

Note:

The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to.

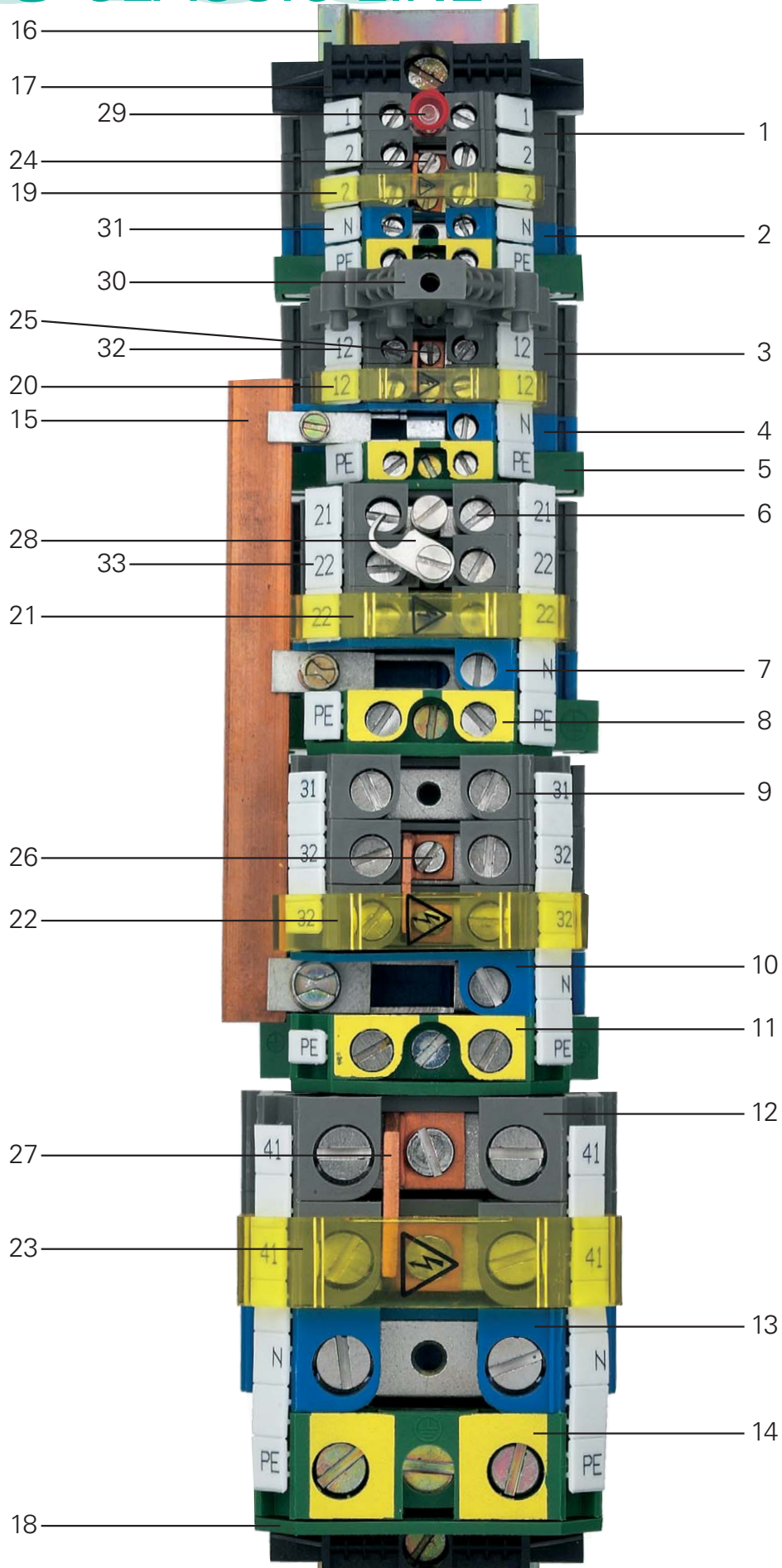
For this purpose, Wieland offers a large selection of appropriate accessories.

A detailed description of technical data, the standards' requirements, and the application conditions can be found in part **facts & DATA**.

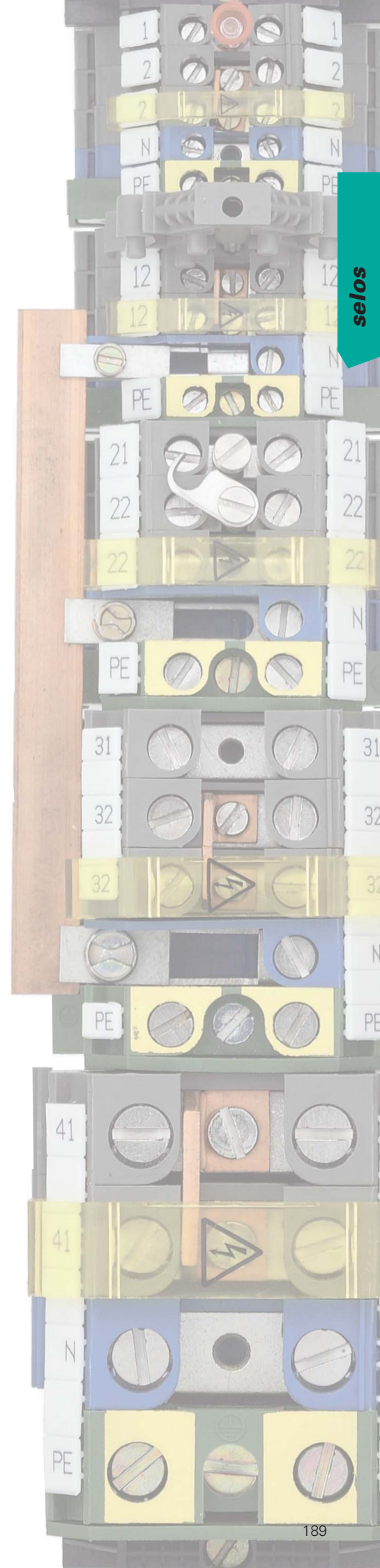
DIN rail terminal blocks
with screw technology, type 9700 A.. S35

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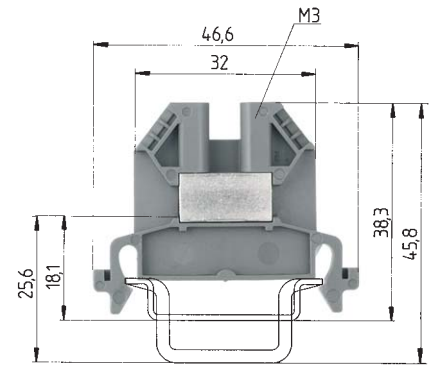
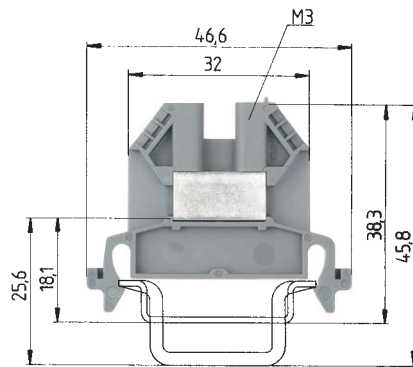
Item	Description	Type	Part number
1	Feed through block	9700 A/5 S35	54.003.7553.0
2	Feed-through block, BLUE	9700 A/5 S35 BLAU	54.003.7553.6
3	Feed through block	9700 A/6 S35	54.004.7553.0
4	Neutral disconnect block	9700 A/6 ETK S35	54.004.7753.0
5	Ground block	9700 A/6 SL2 S35	56.004.9053.0
6	Feed through block	9700 A/8 S35	54.010.7553.0
7	Neutral disconnect block	9700 A/8 ETK S35	54.010.7753.0
8	Ground block	9700 A/8 SL2 S35	56.010.9053.0
9	Feed through block	9700 A/10 S35	54.016.7553.0
10	Neutral disconnect block	9700 A/10 ETK S35	54.016.7753.0
11	Ground block	9700 A/10 SL2 S35	56.016.9053.0
12	Feed through block	9700 A/16 S35	54.035.7553.0
13	Feed-through block, BLUE	9700 A/16 S35 BLAU	54.035.7553.6
14	Ground block	9700 A/16 SL2 S35	56.035.9053.0
15	Busbar 10x3	9813 M Sn	98.290.1000.0
16	Mounting rail	35x27x7,5	98.300.0000.0
17	End clamp for TS 35 with screw	9708/2 S35	Z5.522.8553.0
18	End plate, GREEN	9701/16 SL	07.312.0353.0
19	Warning cover	2,5 mm ²	04.325.1656.0
20	Warning cover	4 mm ²	04.325.1056.0
21	Warning cover	10 mm ²	04.325.1156.0
22	Warning cover	16 mm ²	04.325.1256.0
23	Warning cover	35 mm ²	04.325.1456.0
24	Cross connector with screws, uninsulated	9703/5-2	Z7.215.0227.0
25	Cross connector with screws, uninsulated	9703/6-2	Z7.211.0227.0
26	Cross connector with screws, uninsulated	9703/10-2	Z7.214.0227.0
27	Cross connector with screws, uninsulated	9703/16-2	Z7.216.0227.0
28	Switchable connecting link, complete	10 mm ²	Z7.269.3023.0
29	Test plug with insulated handle, Ø 2.3 mm	ST 2/2,3	Z5.553.2921.0
	Stud bolt	2,5 mm ²	05.508.8921.0
30	Test plug with locking lever		Z1.299.7153.0
31	Marking tag	9705 A	04.842.0850.0
32	Marking strip	9705 A/6/10 B	04.842.6053.0
33	Marking strip	9705 A/8/10 B	04.842.8053.0



Feed-through blocks with screw connection, type 9700 A.. S35

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DIN VDE 0611 Teil 3/11.98

UL-ratings

CSA ratings

Width

Approvals

field/factory wiring

Wire strip length

9700 A/5 S35

fine stranded solid V A
0.5–2.5 mm² 0.5–4 mm² 800 V/8 kV/3 24
No. 18-12 AWG 600 V 20/30
No. 22-12 AWG 600 V 25
5 mm 9 mm



9700 A/6 S35

fine stranded solid V A
0.5–4 mm² 0.5–6 mm² 800 V/8 kV/3 32
No. 18-10 AWG 600 V 30/30
No. 22-10 AWG 600 V 35
6 mm 9 mm

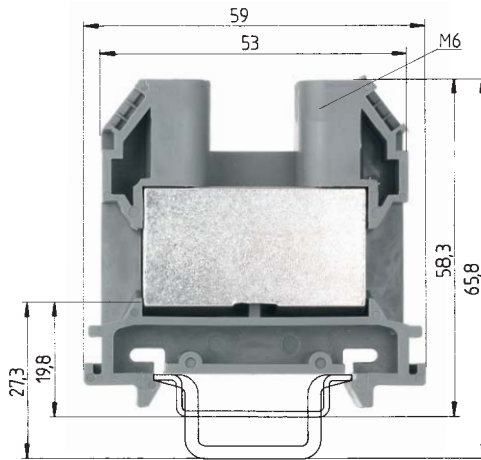


	Type	Part no.	Std. pack	Type	Part no.	Std. pack	
Feed-through terminal Color: gray	9700 A/5 S35	54.003.7553.0	100	9700 A/6 S35	54.004.7553.0	100	
Feed-through terminal, (Ex)i Color: blue	9700 A/5 S35 BLAU	54.003.7553.6	100	9700 A/6 S35 BLAU	54.004.7553.6	100	
Neutral disconnect block Color: blue							
Ground block Color: green-yellow							
PEN terminal Color: green/yellow - blue							
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
Mounting rail TS 35, DIN rail 15 mm high L = 2 m	35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1	
2. End clamp TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100	
3. End plate	Color: gray	9701/6	07.310.3153.0	10	9701/6	07.310.3153.0	10
	Color: blue	9701/6 BLAU	07.310.3153.6	10	9701/6 BLAU	07.310.3153.6	10
	Color: green						
4. Partition plate	Color: gray	9702/6	07.310.3453.0	10	9702/6	07.310.3453.0	10
	Color: blue	9702/6 BLAU	07.310.3453.6	10	9702/6 BLAU	07.310.3453.6	10
5. Jumper bar with screws, E-Cu, uninsulated	2pole	9703/5-2	Z7.215.0227.0	50	9703/6-2	Z7.211.0227.0	50
	3pole	9703/5-3	Z7.215.0327.0	50	9703/6-3	Z7.211.0327.0	50
	4pole	9703/5-4	Z7.215.0427.0	50	9703/6-4	Z7.211.0427.0	50
	5pole	9703/5-5	Z7.215.0527.0	50	9703/6-5	Z7.211.0527.0	50
	6pole	9703/5-6	Z7.215.0627.0	50	9703/6-6	Z7.211.0627.0	50
	Cut-to-order strip 0.6 m long	9703/5-M	Z7.215.0027.0	10	9703/5-M	Z7.211.0027.0	10
6. Switchable connecting link		Z7.269.3523.0	50		Z7.269.2923.0	50	
7. Stud bolt for test plug	9011 D	05.508.8921.0	10	9011 C	05.508.8821.0	10	
8. Test plug	ST 2/2,3	Z5.553.2921.0	10	ST 2/2,3	Z5.553.2921.0	10	
9. Cover with warn. symbol over 1 block Color: yellow		04.325.1656.0	10		04.325.1056.0	10	
10. Busbar							
E-Cu, 10 x 3 mm, tin-plated, I _N = 140 A L = 1 m							
E-Cu, 10 x 3 mm, unplated, I _N = 140 A L = 1 m							
11. Connector clamps for busbar							
25 mm ² 11.1 mm wide							
35 mm ² 14.3 mm wide							
12. Busbar support 6 mm wide							
13. Rapid mounting tool		05.593.5853.0	10		05.593.4153.0		
For marking accessories see pages 178-179 and 200/202	*CL I, ZN1, AExe II			*CL I, ZN1, AExe II			

Feed-through blocks with screw connection, type 9700 A.. S35

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9700 A/16 S35

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UL-ratings

CSA ratings

Width

Approvals

field/factory wiring

Wire strip length

fine stranded	solid/stranded	V	A
2.5–35 mm ²	2.5–50 mm ²	800 V/8 kV/3	125
No. 12-2 AWG		600 V	115/130
No. 12-2 AWG		600 V	125
16 mm			20 mm



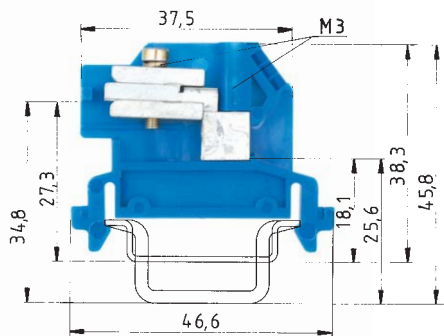
	Type	Part no.	Std. pack
Feed-through block Color: gray	9700 A/16 S 35	54.035.7553.0	50
Feed-through block, (Ex)i Color: blue	9700 A/16 S 35 BLAU	54.035.7553.6	50
Neutral disconnect block Color: blue			
Ground block Color: green-yellow			
PEN terminal Color: green/yellow - blue			
Accessories			
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100
3. End plate Color: gray	9701/12	07.310.3353.0	10
Color: blue	9701/12 BLAU	07.310.3353.6	10
Color: green			
4. Partition plate Color: gray	9702/12	07.310.3653.0	10
Color: blue	9702/12 BLAU	07.310.3653.6	10
5. Jumper bar with screws, 2pole	9703/16-2	Z7.216.0227.0	50
E-Cu, uninsulated 3pole	9703/16-3	Z7.216.0327.0	50
4pole	9703/16-4	Z7.216.0427.0	50
5pole	9703/16-5	Z7.216.0527.0	50
6pole	9703/16-6	Z7.216.0627.0	50
Cut-to-order strip 0.6 m long			
6. Switchable connecting link		Z7.269.3423.0	50
7. Stud bolt for test plug		05.508.6521.0	10
8. Test plug	ST 2/4	Z5.553.3021.0	10
9. Cover with warn. symbol over 1 block Color: yellow		04.325.1456.0	10
10. Busbar			
E-Cu, 10 x 3 mm, tin-plated, I _N = 140 A L = 1 m			
E-Cu, 10 x 3 mm, unplated, I _N = 140 A L = 1 m			
11. Connector clamps for busbar			
25 mm ² 11.1 mm wide			
35 mm ² 14.3 mm wide			
12. Busbar support 6 mm wide			
13. Rapid mounting tool			
For marking accessories see pages 178-179 and 200/202	*CL I, ZN1, AExe II		

Neutral disconnect blocks with screw terminal, type 9700 A.. S35

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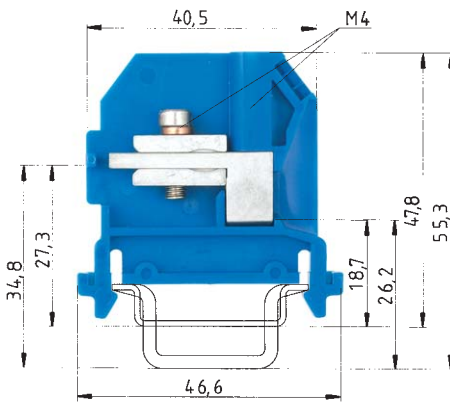
selos



*Install in grounded systems 690/400 V

9700 A/6 ETK S35

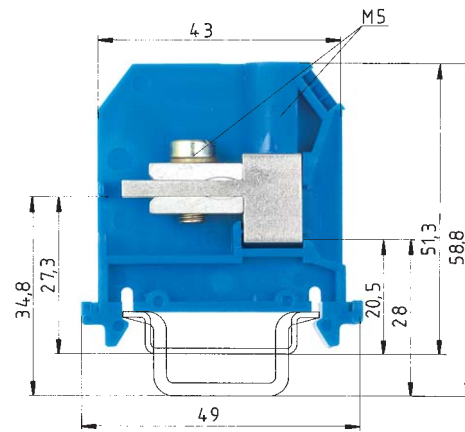
fine stranded	solid	V	A
0.5 – 4 mm ²	0.5 – 6 mm ²	400 V/6 kV/3*)	25



*Install in grounded systems 690/400 V

9700 A/8 ETK S35

fine stranded	solid/stranded	V	A
1 – 10 mm ²	1 – 10 mm ²	400 V/6 kV/3*)	40



*Install in grounded systems 690/400 V

9700 A/10 ETK S35

fine stranded	solid/stranded	V	A
1.5 – 16 mm ²	1.5 – 16 mm ²	400 V/6 kV/3*)	50

6 mm



9 mm

8 mm



12 mm

10 mm

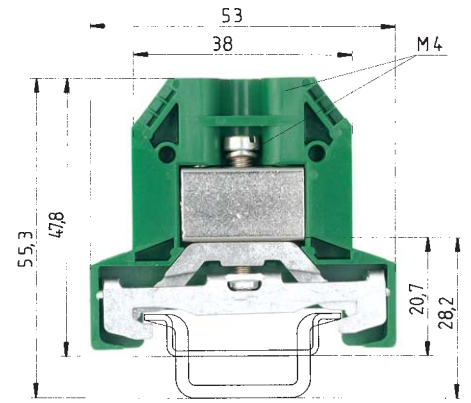
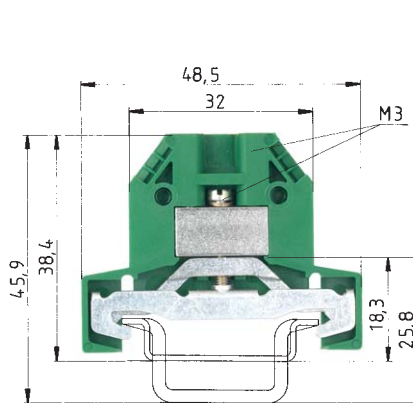
15 mm

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
9700 A/6 ETK S 35	54.004.7753.0	100	9700 A/8 ETK S 35	54.010.7753.0	100	9700 A/10 ETK S 35	54.016.7753.0	100
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.370.0000.0	1	35 x 24 x 15 EN 60715	98.370.0000.0	1	35 x 24 x 15 EN 60715	98.370.0000.0	1
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9701/6 ETKL	07.310.4553.0	10	9701 B/8 ETK	07.310.5253.0	50	9701 B/10 ETK	07.310.5353.0	50
9813 M	98.290.0000.0	1	9813 M	98.290.0000.0	1	9813 M	98.290.0000.0	1
9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1
	30.494.1110.6	100		30.494.1110.6	100		30.494.1110.6	100
	30.494.2510.6	100		30.494.2510.6	100		30.494.2510.6	100
9701 ASH S 35	01.112.1453.0	100	9701 ASH S 35	01.112.1453.0	100	9701 ASH S 35	01.112.1453.0	100

Ground blocks with screw technology, type 9700 A.. S35

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UL-ratings
CSA ratings
Width
Approvals

field/factory wiring
Wire strip length

9700 A/6 SL2 S35

fine stranded solid V A
0.5–4 mm² 0.5–6 mm² 800 V/8 kV/3*) **)
No. 18-10 AWG 600 V*)
No. 22-10 AWG 600 V*)
6 mm 9 mm

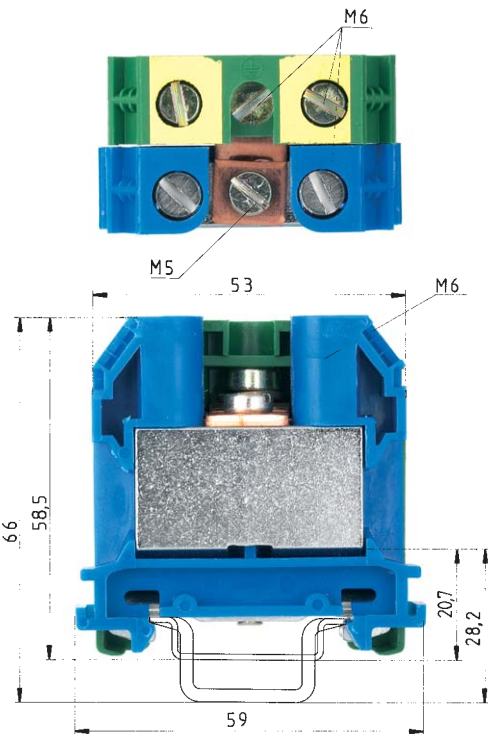
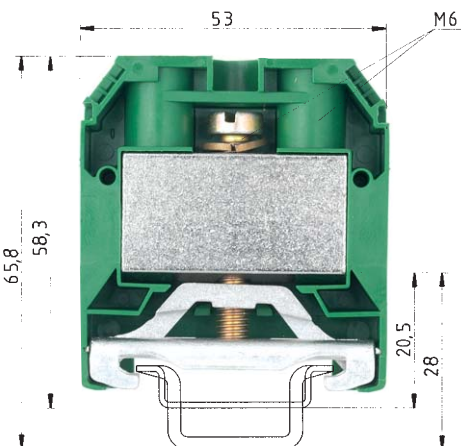
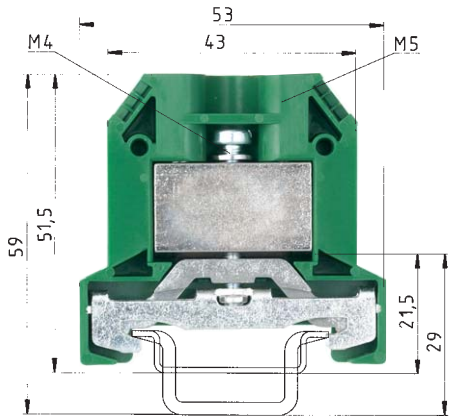
UL * CE B

9700 A/8 SL2 S35

fine stranded solid/stranded V A
0.5–10 mm² 0.5–10 mm² 800 V/8 kV/3*) **)
No. 18-8 AWG 600 V*)
No. 18-8 AWG 600 V*)
8 mm 11 mm

UL * CE B

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed-through terminal Color: gray						
Feed-through block, (Ex)i Color: blue						
Neutral disconnect block Color: blue						
Ground block Color: green-yellow	9700 A/6 SL 2 S 35	56.004.9053.0	100	9700 A/8 SL 2 S 35	56.010.9053.0	100
PEN terminal Color: green/yellow - blue						
Accessories						
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
3. End plate Color: gray	9701/6 SL	07.312.0053.0	10	9701/8 SL	07.312.0153.0	10
4. Partition plate Color: gray						
5. Jumper bar with screws, 2pole						
E-Cu, uninsulated 3pole						
Cut-to-order strip 0.6 m long						
6. Switchable connecting link						
7. Stud bolt for test plug						
8. Test plug						
9. Cover with warn. symbol over 1 block Color: yellow						
10. Busbar						
E-Cu, 10 x 3 mm, tin-plated, I _N = 140 A L = 1 m						
E-Cu, 10 x 3 mm, unplated, I _N = 140 A L = 1 m						
11. Connector clamps for busbar						
25 mm ² 11.1 mm wide						
35 mm ² 14.3 mm wide						
12. Busbar support 6 mm wide						
13. Rapid mounting tool						
For marking accessories see pages 178-179 and 200/202	*CL I, ZN1, AExe II			*CL I, ZN1, AExe II		



9700 A/10 SL2 S35

fine stranded solid/stranded V A
 1.5–16 mm² 1.5–16 mm² 800 V/8 kV/3^{*)} **)
 No. 18-6 AWG 600 V^{*)}
 No. 16-6 AWG 600 V^{*)}
 10 mm 16 mm

9700 A/16 SL2 S35

fine stranded solid/stranded V A
 2.5–35 mm² 2.5–50 mm² 800 V/8 kV/3^{*)} **)
 No. 12-2 AWG
 No. 12-2 AWG 600 V^{*)}
 16 mm 18 mm

9700 A/16 PEN 2 S35

fine stranded solid/stranded V A
 2.5–35 mm² 2.5–50 mm² 500 V/6 kV/3^{*)} **)
 32 mm 18 mm

**For the ratings to adjacent feed-through blocks of the same series and size

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
9700 A/10 SL 2 S 35	56.016.9053.0	50	9700 A/16 SL 2 S 35	56.035.9053.0	50	9700 A/16 PEN 2, S 35	56.035.9453.0	20
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.370.0000.0	1
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9701/10 SL	07.312.0253.0	10	9701/16 SL	07.312.0353.0	10	9701/12 BLAU	07.310.3353.6	10
						9702/12 BLAU	07.310.3653.6	10

*CL I, ZN1, AExe II

*CL I, ZN1, AExe II

Accessories for DIN rail mounted terminal blocks with screw technology, type 9700 A.. S35

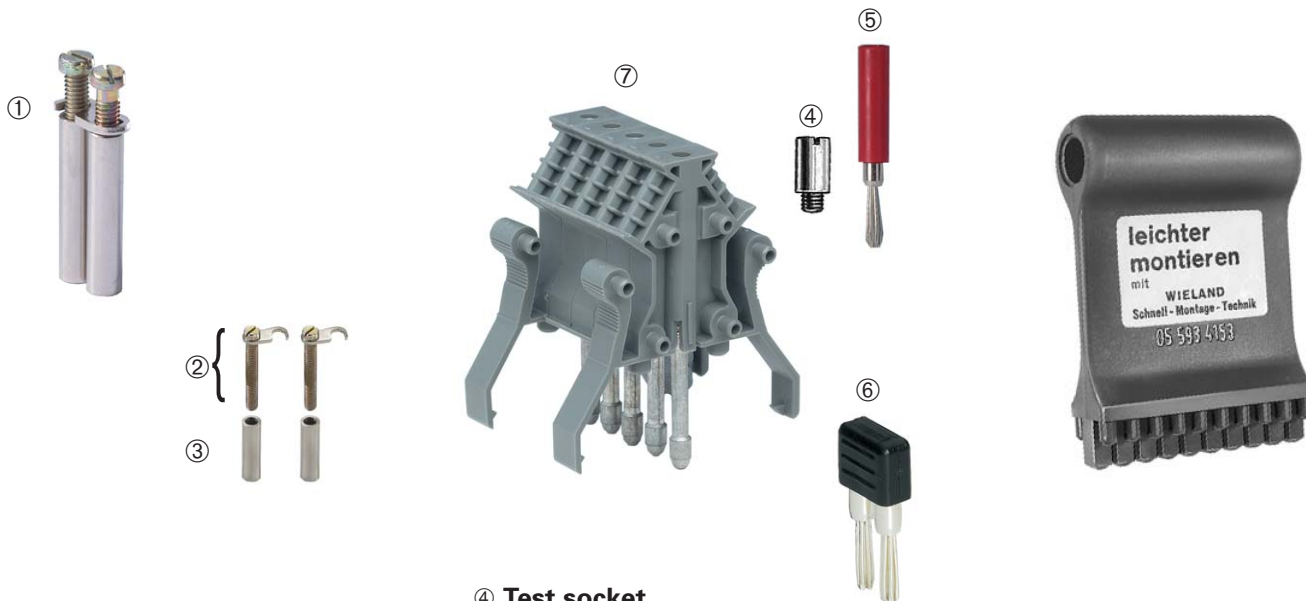
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Jumper bar with screws

Warning cover

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
2,5 mm ²			16 mm ²			for terminal block type 9700 A/.. S 35		
9700 A/5 S 35			9700 A/10 S 35					
2pole 9703/5-2	Z7.215.0227.0	50	2pole 9703/10-2	Z7.214.0227.0	50	2,5 mm ²	04.325.1656.0	10
3pole 9703/5-3	Z7.215.0327.0	50	3pole 9703/10-3	Z7.214.0327.0	50	4 mm ²	04.325.1056.0	10
4pole 9703/5-4	Z7.215.0427.0	50	4pole 9703/10-4	Z7.214.0427.0	50	10 mm ²	04.325.1156.0	10
5pole 9703/5-5	Z7.215.0527.0	50	5pole 9703/10-5	Z7.214.0527.0	50	16 mm ²	04.325.1256.0	10
6pole 9703/5-6	Z7.215.0627.0	50	6pole 9703/10-6	Z7.214.0627.0	50	25 mm ²	04.325.1356.0	10
90pole 9703/5 M-90	Z7.215.0027.0	10	40pole 9703/10 M-40	Z7.214.0027.0	10	35 mm ²	04.325.1456.0	10
4 mm²			25 mm²					
9700 A/6 S 35			9700 A/12 S 35					
2pole 9703/6-2	Z7.211.0227.0	50	2pole 9703/12-2	Z7.213.0227.0	50			
3pole 9703/6-3	Z7.211.0327.0	50	3pole 9703/12-3	Z7.213.0327.0	50			
4pole 9703/6-4	Z7.211.0427.0	50	4pole 9703/12-4	Z7.213.0427.0	50			
5pole 9703/6-5	Z7.211.0527.0	50	5pole 9703/12-5	Z7.213.0527.0	50			
6pole 9703/6-6	Z7.211.0627.0	50	6pole 9703/12-6	Z7.213.0627.0	50			
70pole 9703/6 M-70	Z7.211.0027.0	10	30pole 9703/12 M-30	Z7.213.0027.0	10			
10 mm²			35 mm²					
9700 A/8 S 35			9700 A/16 S 35					
2pole 9703/8-2	Z7.212.0227.0	50	2pole 9703/16-2	Z7.216.0227.0	50			
3pole 9703/8-3	Z7.212.0327.0	50	3pole 9703/16-3	Z7.216.0327.0	50			
4pole 9703/8-4	Z7.212.0427.0	50	4pole 9703/16-4	Z7.216.0427.0	50			
5pole 9703/8-5	Z7.212.0527.0	50	5pole 9703/16-5	Z7.216.0527.0	50			
6pole 9703/8-6	Z7.212.0627.0	50	6pole 9703/16-6	Z7.216.0627.0	50			
50pole 9703/8 M-50	Z7.212.0027.0	10	20pole 9703/16 M-20	Z7.216.0027.0	10			



- ① Switchable connecting link
- ② Screws with link
- ③ Screw spacer

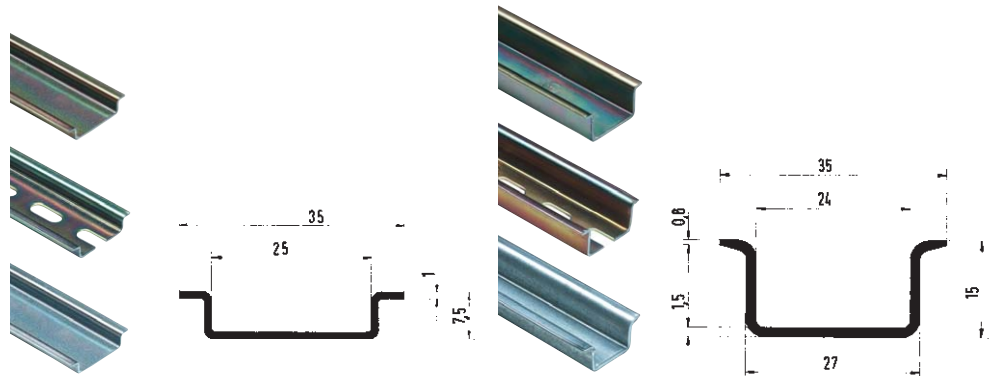
- ④ Test socket
- ⑤ Test plug with insulated handle
- ⑦ Shorting plug
- ⑥ Modular test plug

Rapid mounting tool

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
for terminal block type 9700 A/.. S 35			for terminal block type 9700 A/.. S 35			for terminal block type 9700 A/.. S 35		
Switchable connecting link			Test socket			Rapid mounting tool		
2,5 mm ²	Z7.269.3523.0	50	2,5 mm ²	05.508.8921.0	10	2,5 mm ²	05.593.5853.0	10
4 mm ²	Z7.269.2923.0	50	4 mm ²	05.508.8821.0	10	4 mm ²	05.593.4153.0	
10 mm ²	Z7.269.3023.0	50	10 mm ²	05.508.3221.0	10	10 mm ²	05.593.5953.0	10
16 mm ²	Z7.269.3123.0	50	16 mm ²	05.508.3121.0	10			
25 mm ²	Z7.269.3223.0	50	25 mm ²	05.508.6521.0	10			
35 mm ²	Z7.269.3423.0	50	35 mm ²	05.508.6521.0	10			
Switchable connecting link with screws			Test plug with insulated handle					
2,5 mm ²	Z7.269.2823.0	50	Ø 2,3 mm 2,5/4 mm ² red					
4 mm ²	Z7.269.0623.0	50	Ø 4 mm 10/16/25/35 mm ² black					
10 mm ²	Z7.269.0523.0	50	2,5 mm ²	Z5.553.2921.0	10			
16 mm ²	Z7.269.0723.0	50	4 mm ²	Z5.553.2921.0	10			
Threaded stud bolt (screw spacer)			10 mm ²	Z5.553.3021.0	10			
2,5 mm ²	05.508.8621.0	50	16 mm ²	Z5.553.3021.0	10			
4 mm ²	05.508.8621.0	50	25 mm ²	Z5.553.3021.0	10			
10 mm ²	05.508.8721.0	50	35 mm ²	Z5.553.3021.0	10			
16 mm ²	05.508.9721.0	50	Shorting plug					
				Z5.553.9400.0	100			
			For all 6 mm wide control cabinet terminal blocks, to be used together with stud bolts (part no. 05.508.8821)					
			Modular test plug					
			snap-on with locking lever for 9700 A 6/S 35					
				Z1.299.7153.0	10			
			Test plug					
			snap-on			Z1.299.8153.0	10	

Accessories for DIN rail terminal blocks
with screw connection

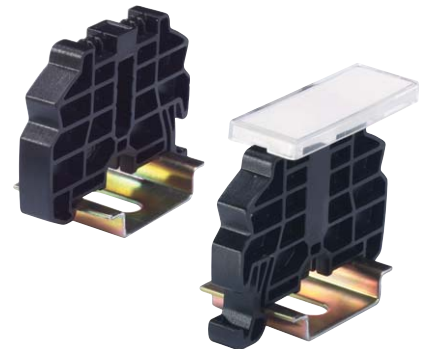
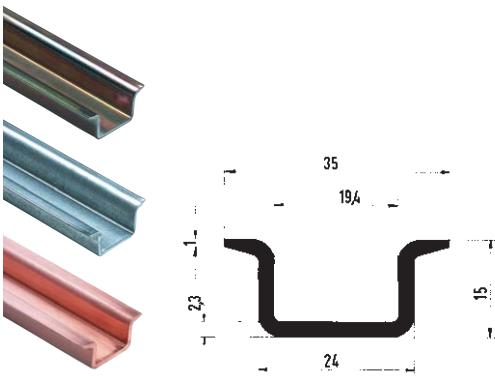
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Mounting rail 35 x 7.5
accord. to DIN EN 60715

Mounting rail 35 x 15
accord. to DIN EN 60715

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Mounting rail						
1. Steel, galv. zinc-plated and dichromated, unslotted L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 15 EN 60715	98.370.0000.0	1
Steel, galv. zinc-plated and dichromated, slotted L = 2 m	35 x 27 x 7,5 EN 60715 slotted	98.300.1000.0	1	35 x 27 x 15 EN 60715	98.370.1000.0	1
2. Steel, unplated unslotted L = 2 m	35 x 27 x 7,5 EN 60715 unplated	98.300.0010.0				
Steel, unplated slotted L = 2 m						
3. Steel, hot-galvanized unslotted L = 2 m						
Steel, hot-galvanized slotted L = 2 m						
4. E copper unslotted L = 2 m						
E copper slotted L = 2 m						
5. Aluminum unslotted L = 2m	35 x 27 x 7.5 EN 60715	98.750.0000.0				
slotted L = 1 m	35 x 27 x 7.5 EN 60715	98.800.1000.0				
6. Stainless steel unslotted L = 2m	35 x 27 x 7.5 EN 60715	98.330.0000.0				
End clamp						
7. End clamp with screw for 35 mm rail 8 mm wide						
8. End clamp with screw for 35 mm rail						
with marking plate 8/17.5 mm wide						
9. End clamp, screwless, for 35 mm rail 8 mm wide						
10. End clamp, screwless, for 35 mm rail						
with marking plate 8/17,5 mm wide						
for terminal rails						
11. Bus bar holder 8 mm wide						
Busbar support, with screw 8 mm						
12. Clamping screw for mounting rail						
13. Optional label carrier						
14. Paper Markers in perforated sheet form						
(1 sheet = 100 Marking tags)						



Mounting rail 35 x 15
accord. to DIN EN 60715

End clamp for TS 35
Screw Mounting

End clamp for TS 35
Screwless Mounting

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
35 x 27 x 15 EN 60715	98.360.0000.0	1						
35 x 27 x 15 EN 60715 ZN	98.360.0004.0	1						
35 x 27 x 15 EN 60715 CU	98.380.0000.0	10						
			9708/2 S 35	Z5.522.8553.0	100			
			9708/2 BS/35	69.920.0553.0	100			
						WEF 1/35	Z5.523.9353.0	100
						WEF 1 BS/35	69.920.1053.0	100
						WKIF SH/E/35	Z1.108.8453.0	10
							69.920.1153.0	
							05.091.0200.0	
						BSIR	Z4.243.8453.0	
							04.019.0289.0	10
			04.019.0289.0	10				

Marking accessories for DIN rail terminal blocks

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Material:
Polyamide 66/6
Color: black figures on white background

5 mm pitch

DIN rail terminal blocks with screw connection of series 97..., can take in marking tags on both sides on top of the block in a 3-chamber slot. It can be either 3 single number tags from the tear-off marking strip, or single tags, or marking strips.

- Marking strips** marked and unmarked, made from Polyamide 66/6, suitable for 10 blocks in a row.

Marking 1-10, 11-20 etc. up to 991-999.

Type 9705 A/5/10 (5 mm spacing)

for 5mm wide terminal blocks

Type 9705 A/6/10 (6 mm spacing)

for 6 mm wide terminal blocks

Type 9705 A/8/10 (8 mm spacing)

for 8 mm wide terminal blocks

Type 9705 A/5/10/5 B (10 mm spacing)

for 10 mm wide terminal blocks

Type 9705 A/6/10/5 B (12 mm spacing)

for 12 mm wide terminal blocks

Type 9705 A/8/10/5 B (16 mm spacing)

for 16 mm wide terminal blocks

- Tear-off marking strip** with 10 marking tags, made from Polyamide 66/6, white, marked and unmarked.

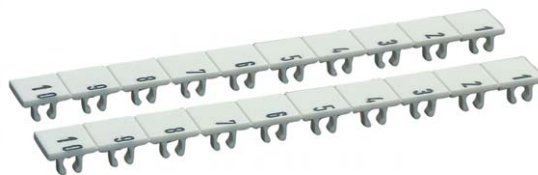
This marking system considerably reduces the time required for marking terminal block rows. For numerical marking of terminal block rows only 11 stock positions are required. As the time used for picking and attaching the tags is reduced, and as stockkeeping is low and the prices extremely favorable, enormous cost savings are the result from using these tear-off marking strips.

Type 9704 A...
(see page 180)

- Single marking tag** made from white Polyamide 66/6, marked and unmarked. Type 9705 A...

All terminal widths/pitch

Type	Part no.	Std. pack	Type	Part no.	Std. pack	
Single marking tag, unmarked			Marking strips, unmarked			
9705 A	04.242.0850.0	500	9705 A/5/10	04.242.5053.0	25	
Single marking tag, marked			Marking strips, marked			
9705 AB*	04.842.0850.0	500				
			9705 A/5/9 B	1 - 9	04.842.4953.0	25
			9705 A/5/10 B*		04.842.5053.0	25
			9705 A/5/10 B	1 - 10	04.845.0153.0	25
				11 - 20	04.845.0253.0	25
Single marking tag, unmarked				21 - 30	04.845.0353.0	25
with enlarged marking area				31 - 40	04.845.0453.0	25
9705 AL	04.242.1553.0	500		41 - 50	04.845.0553.0	25
				51 - 60	04.845.0653.0	25
Single marking tag, marked				61 - 70	04.845.0753.0	25
for enlarged marking area				71 - 80	04.845.0853.0	25
9705 ALB	04.842.1553.0	500		81 - 90	04.845.0953.0	25
				91 - 100	04.845.1053.0	25
			⊕ (10 x)	04.855.0053.0	25	
			⊖ (10 x)	04.855.0153.0	25	
			+	04.855.0253.0	25	
			-	04.855.0353.0	25	
			L1 (10 x)	04.855.0453.0	25	
			L2 (10 x)	04.855.0553.0	25	
			L3 (10 x)	04.855.0653.0	25	
			PE (10 x)	04.855.0753.0	25	
			SL (10 x)	04.855.3153.0	25	
			N (10 x)	04.855.3253.0	25	
			F1 (10 x)	04.855.0953.0	25	
			F2 (10 x)	04.855.1053.0	25	
			L1, L2, L3, N, PE (2 x)	04.855.0853.0	25	
			with enlarged marking area			
			9705 AL/5/10	04.242.5153.0	25	
*Custom marking upon request			* Custom marking upon request			



6 mm pitch

8 mm pitch

10 mm pitch

12 mm pitch

16 mm pitch




Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Marking strips, unmarked			Marking strips, unmarked			16 mm²/10 mm pitch		
9705 A/6/10	04.242.6053.0	25	9705 A/8/10	04.242.8053.0	25			
Marking strips, marked			Marking strips, marked			marked for 5 blocks (every 2nd tag) *		
9705 A/6/9 B 1 - 9	04.842.5953.0	25	9705 A/8/9 B 1 - 9	04.842.7953.0	25	9705 A/5/10/5 B	04.842.5553.0	25
9705 A/6/10 B*	04.842.6053.0	25	9705 A/8/10 B*	04.842.8053.0	25			
9705 A/6/10 B 1 - 10	04.846.0153.0	25	9705 A/8/10 B 1 - 10	04.848.0153.0	25			
11 - 20	04.846.0253.0	25	11 - 20	04.848.0253.0	25			
21 - 30	04.846.0353.0	25	21 - 30	04.848.0353.0	25			
31 - 40	04.846.0453.0	25	31 - 40	04.848.0453.0	25	25 mm²/12 mm pitch		
41 - 50	04.846.0553.0	25	41 - 50	04.848.0553.0	25	marked for 5 blocks (every 2nd tag) *		
51 - 60	04.846.0653.0	25	51 - 60	04.848.0653.0	25	9705 A/6/10/5 B	04.842.6553.0	25
61 - 70	04.846.0753.0	25	61 - 70	04.848.0753.0	25			
71 - 80	04.846.0853.0	25	71 - 80	04.848.0853.0	25			
81 - 90	04.846.0953.0	25	81 - 90	04.848.0953.0	25			
91 - 100	04.846.1053.0	25	91 - 100	04.848.1053.0	25			
						35 mm²/16 mm pitch		
⊕ (10 x)	04.856.0053.0	25	⊕ (10 x)	04.858.0053.0	25			
⊖ (10 x)	04.856.0153.0	25	⊖ (10 x)	04.858.0153.0	25			
+ (10 x)	04.856.0253.0	25	+ (10 x)	04.858.0253.0	25	marked for 5 blocks (every 2nd tag) *		
- (10 x)	04.856.0353.0	25	- (10 x)	04.858.0353.0	25	9705 A/8/10/5 B	04.842.8553.0	25
L1 (10 x)	04.856.0453.0	25	L1 (10 x)	04.858.0453.0	25			
L2 (10 x)	04.856.0553.0	25	L2 (10 x)	04.858.0553.0	25			
L3 (10 x)	04.856.0653.0	25	L3 (10 x)	04.858.0653.0	25			
PE (10 x)	04.856.0753.0	25	PE (10 x)	04.858.0753.0	25			
SL (10 x)	04.856.3153.0	25	SL (10 x)	04.858.3153.0	25			
N (10 x)	04.856.3253.0	25	N (10 x)	04.858.3253.0	25			
F1 (10 x)	04.856.0953.0	25	F1 (10 x)	04.858.0953.0	25			
F2 (10 x)	04.856.1053.0	25	F2 (10 x)	04.858.1053.0	25			
L1, L2, L3, N, PE (2 x)	04.856.0853.0	25	L1, L2, L3, N, PE (2 x)	04.858.0853.0	25			
with enlarged marking area								
9705 AL/6/10	04.242.6353.0	25						
* Custom marking upon request			* Custom marking upon request			* indicate required marking with part no.		

Marking accessories for DIN rail terminal blocks



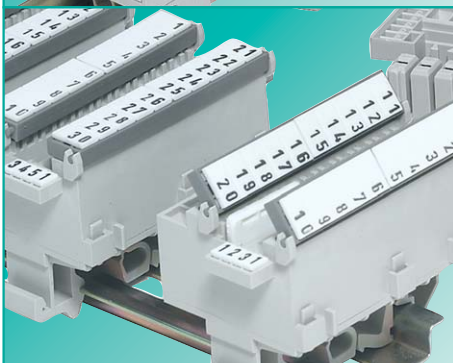
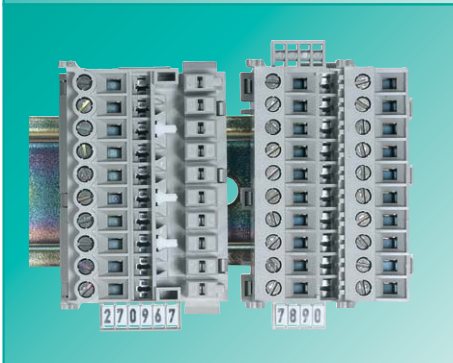
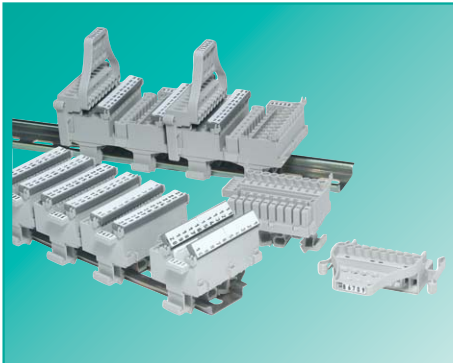
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Tear-off marking strip with 10 marking tags

Material: Polyamide 66/6 white, marking in black	Marking per strip	Type	Part no.	Stand. pack	
unmarked		9704 A	04.241.1150.0	25	
marked with the same number		1 1 1 1 1 1 1 1 1 1	9704 A/1 B	04.841.1150.0	25
		2 2 2 2 2 2 2 2 2 2	9704 A/2 B	04.841.1250.0	25
		3 3 3 3 3 3 3 3 3 3	9704 A/3 B	04.841.1350.0	25
		4 4 4 4 4 4 4 4 4 4	9704 A/4 B	04.841.1450.0	25
		5 5 5 5 5 5 5 5 5 5	9704 A/5 B	04.841.1550.0	25
		6 6 6 6 6 6 6 6 6 6	9704 A/6 B	04.841.1650.0	25
		7 7 7 7 7 7 7 7 7 7	9704 A/7 B	04.841.1750.0	25
		8 8 8 8 8 8 8 8 8 8	9704 A/8 B	04.841.1850.0	25
		9 9 9 9 9 9 9 9 9 9	9704 A/9 B	04.841.1950.0	25
		0 0 0 0 0 0 0 0 0 0	9704 A/0 B	04.841.2050.0	25
marked with consecutive numbers		9704 A/1-0 B	04.841.2150.0	25	
marked with the same symbols		+ + + + + + + + + +	9704 A/+ B	04.841.7450.0	25
		- - - - - - - - - -	9704 A/- B	04.841.7550.0	25
		/ / / / / / / / / /	9704 A// B	04.841.7650.0	25
		. . . . . . . . . .	9704 A/. B	04.841.7750.0	25
1 set of the same numbers = 10 x 25 strips = 2500 numbers	1 1 1 ... 0 0 0	A to Z (capital letters)	04.841.9050.0	1	
1 set of capital letters = 26 x 25 strips = 6500 letters	A A A ... Z Z Z	a to z (small letters)	04.841.9150.0	1	
1 set of small letters = 26 x 25 strips = 6500 letters	a a a ... z z z		04.841.9250.0	1	

TOP system selos

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The TOP system offers

- Terminal block module based on narrow pitch of 5mm
- Top-System allows wire entry and screwdriver access in the same plane

Universal mounting foot for

- TS 35 mm DIN rail to EN 60715
- TS 32 mm DIN rail to EN 60715

Feed-through terminals located in the center

Materials:

Insulating housing: Polyamide 66/6
Clamping body / clamping screws: steel, zinc-plated and dichromated
Current Carrying Bar: Tin-plated copper alloy

TOP plug system

Accepts 10 pole plug-able connector

Coding capability: 28 coding configurations

Plug-able connector with locking levers

Strain relief

Top-system standard

10 pole feed through terminal block module

Orientation perpendicular to the mounting rail

Pitch/width is only 39 mm for 10 terminals

Screw technology

Marking tag system

- Snap in marking tag carrier
- Marking facility for module
- Marking system uses Wieland standard tags
- Module is molded with marking 1-10

Potential commoning

- Insulated plug-in jumper bars (2-10 pole)

Application advantages

- Save space in the panel – up to 40%
- Ease of inserting and terminating the conductor

- Easy mounting, secure attachment on all types of DIN rail

- Due to its excellent electrical, chemical and mechanical properties
- Low contact resistance
- Each terminal can be marked individually

Ease of use

Clean and neat wiring

Plug-able connector cannot be mismatched

Plug-able connector provides a safe connection which locks in place

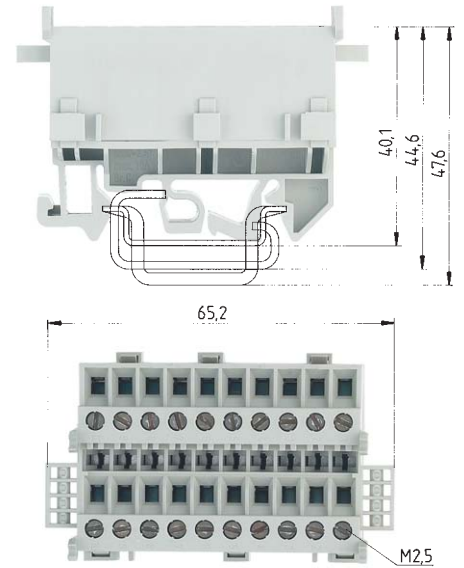
Strain relief with cable ties via holes on the marking late

Ease of use

Clean and neat wiring

Secure connection

selos



EN 60 947-7-1/DIN VDE 0611 T1

UL-ratings

CSA ratings

Width

Wire strip length

Approvals

WKB 2,5/U

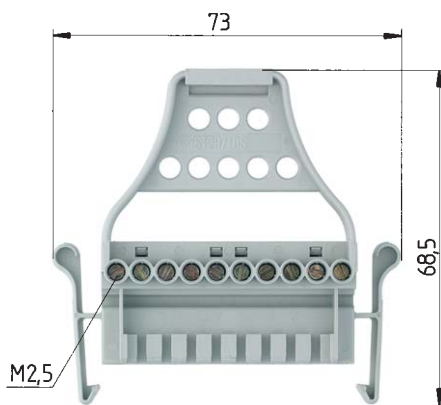
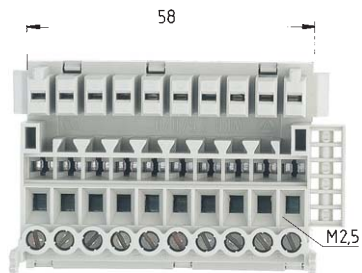
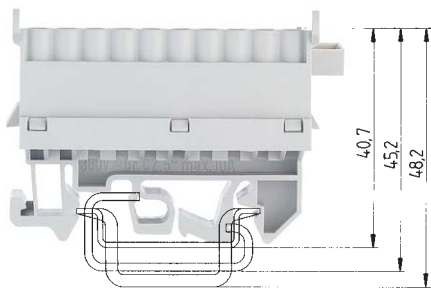
fine stranded	solid	V	A
0.5 - 2.5 mm ²	0.5 - 4 mm ²	400 V/6 kV/3	20
No. 22-12	AWG	300 V	10
No. max. 12	AWG	300 V	10
39 mm			10 mm



	Type	Part no.	Std. pack
Terminal block assembly (screw)	WKB 2,5/U	57.603.0055.0	10
Terminal block assembly (screw/plug)			
TOP plug with coding and marking facilities			
Accessories			
1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32 G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm wide	9708	Z5.522.7053.0	100
3. Push-in jumper bar			
E-Cu insulated 2pole		Z7.258.0225.0	10
3pole		Z7.258.0325.0	10
to 10pole		Z7.258.1025.0	10
4. Mounting adapter for mounting right		05.523.1610.0	10
parallel to the rail left		05.523.1710.0	10
Coding pins, 10 each per strip			
Marking tag carrier, snap-on		04.242.3253.0	
For marking systems see pages 178-183 and 250-251			

*) When two cross connectors are mounted adjacent to each other, the rated voltage is reduced to 250 V/4 kV/3

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WKB 2,5/B/U

fine stranded solid V A
 0.5 - 2.5 mm² 0.5 - 4 mm² 400 V/6 kV/3 10
 No. 22-12 AWG 300 V 5
 No. 22-12 AWG 300 V 5
 38 mm 10 mm



ST 29/10 S

fine stranded solid V A
 0.5 - 2.5 mm² 0.5 - 4 mm² 400 V/6 kV/3 10
 No. 22-14 AWG 300 V 5
 No. 22-14 AWG 300 V 5
 6 mm



Type	Part no.	Std. pack	Type	Part no.	Std. pack
WKB 2,5/B/U	57.603.3555.0	10	ST 29/10 S	93.102.0055.0	50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1			
35 x 24 x 15 EN 60715	98.360.0000.0	1			
9006 EN 60715 G-32	98.190.0000.0	1			
WE 1/U	Z5.523.5753.0	100			
9708/2 S 35	Z5.522.8553.0	100			
9708	Z5.522.7053.0	100			
	Z7.258.0225.0	10		Z7.258.0225.0	10
	Z7.258.0325.0	10		Z7.258.0325.0	10
	Z7.258.1025.0	10		Z7.258.1025.0	10
	05.599.8053.0	100		05.599.8053.0	100

Coding

S	B	B	B	B	B	B	B	S	1. combination
S	B	B	B	B	B	S	B	B	2. combination
S	B	B	B	B	S	B	B	B	3. combination
S	B	B	B	S	B	B	B	B	4. combination
S	B	B	S	B	B	B	B	B	5. combination
S	B	S	B	B	B	B	B	B	6. combination
S	S	B	B	B	B	B	B	B	7. combination
B	S	B	B	B	B	B	S	B	8. combination
B	S	B	B	B	B	S	B	B	9. combination
B	S	B	B	S	B	B	B	B	10. combination
B	S	B	S	B	B	B	B	B	11. combination
B	S	B	S	B	B	B	B	B	12. combination
B	S	S	B	B	B	B	B	B	13. combination
B	B	S	B	B	B	B	S	B	14. combination
B	B	S	B	B	B	S	B	B	15. combination
B	B	S	B	S	B	B	B	B	16. combination
B	B	S	S	B	B	B	B	B	17. combination
B	B	S	S	B	B	B	S	B	18. combination
B	B	B	S	B	B	B	S	B	19. combination
B	B	B	S	B	B	S	B	B	20. combination

etc.

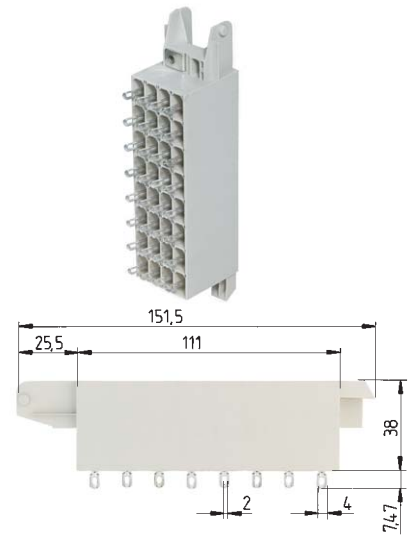
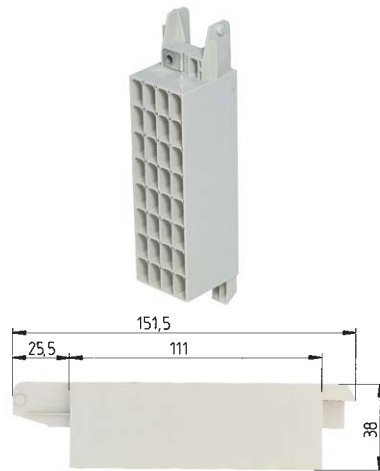
Distribution module, 32 pole plug-able system with shield connection

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Material: Insulating part: Polyamide 66/6 gray, blue
 Tab connector: tin-plated copper alloy
 Spring contact: tin-plated bronze
 Tab connector: 2.8 x 0.8 mm

*) Push-on connector 6.3 mm 20 A
 Push-on connector 2.8 mm 10 A
 TERMI-POINT 10 A



RV2S/...

Front	Rear	V	A
3 x 2,8 x 0,8	3 x 2,8 x 0,8	400 V/6 kV/3	*)
2 x 2,8 x 0,8	2 x 2,8 x 0,8		

RV2S/...L

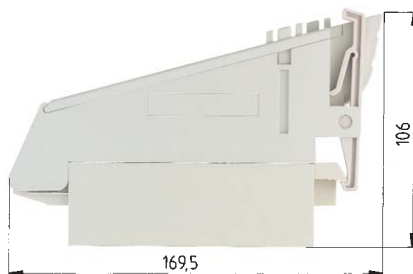
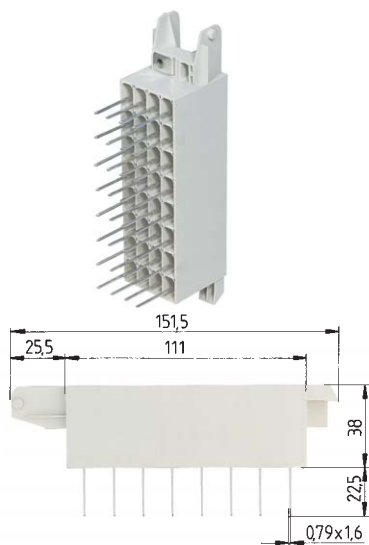
Front	Rear	V	A
3 x 2,8 x 0,8	1 Lötanschluss	400 V/6 kV/3	*)
2 x 2,8 x 0,8	1 Lötanschluss		

Voltage accord. to DIN VDE 0110

Distribution module gray (per pole)
 blue

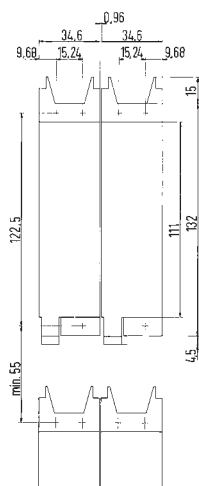
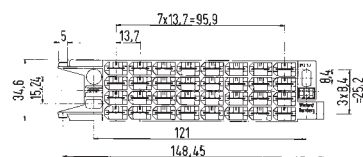
	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Distribution module pluggable system Color: gray	RV2S/6	26.500.2053.0	10	RV2S/3L	26.500.2153.0	10
Color: blue	RV2S/4 blau	26.500.2353.0	10	RV2S/2L blau	26.500.2453.0	10
Plug-able connector Color: gray						
Color: blue						
Accessories						
1. Spring contact for 0.5 - 1 mm ²						
Banded contacts						
Single contact						
4. Spring contact for 0.1 - 0.5 mm ²						
Banded contacts						
Single contact						
7. Crimp Tool						
8. Contact removal tool						
9. Replacement latch						
For marking systems see pages 178-183 and 250-251						

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RV2S/...TP1

Front	Rear	V	A	V	A
		400 V/6 kV/3	*)	400 V/6 kV/3	*)
3 x 2,8 x 0,8	2 x 2,8 x 0,8				
	1 x Termini-Point				
2 x 2,8 x 0,8	1 x Termini-Point				



Type	Part no.	Std. pack	Type	Part no.	Std. pack
RV2S/3TP1	26.500.2253.0	10			
RV2S/2TP1blau	26.500.2553.0	10			
				93.004.0056.0	10
				93.004.0056.6	10
				02.124.4000.0	4000
				02.124.4029.0	
				02.124.4100.0	4000
				02.124.4129.0	
				95.101.0612.0	1
				05.502.0200.0	1
				05.502.0500.0	1

The narrow design of the terminal block is only 35 mm wide, with 32 connections in four rows and, means that you can increase the packing density when using touch-on clamp type or solder connection methods. This system can be expanded using a 32 pole plug which enables simultaneous connection of 32 contacts.

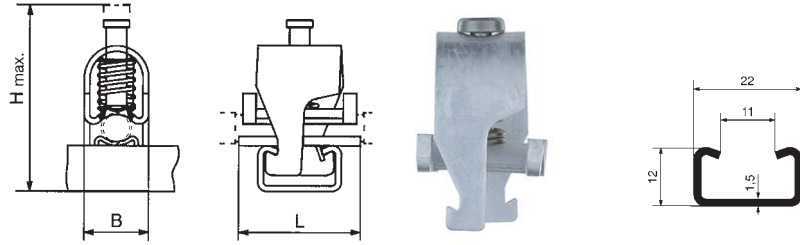
Advantages:

- easy connection of all poles via a hinged lever on the group plug
- can be fixed securely by means of an easy-to-operate locking lever on the lower section
- cable strain relief
- a cover on the plug connector enables measurements to be taken when the group plug is connected
- leading earth contact which can be directly connected to the frame upon assembly
- marking facility - marker tag type 9705 AB and 9704 AB (see page 180)

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System advantages

- Easy and safe contacting without damage to the braided shield
- Stainless Steel pressure spring ensures excellent contact
- Corrosion resistant due to anticorodal contact material
- spring terminal available in three different sizes (5 – 34 mm diameter)
- Potential commoning via the mounting rail
- Insulated mounting of the rail via the plastic (duroplast) mounting feet



Material: Anticorodal

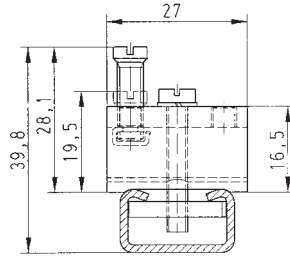
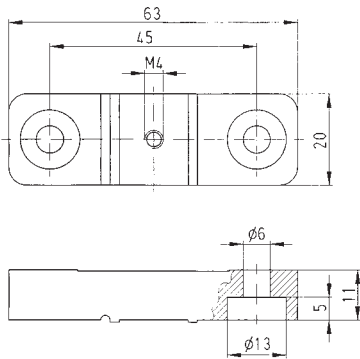
SK...

Type (shielded cable diameter)	Clamping Force	B	L	H _{max}
SK5-11	14-24 N	17 mm	32 mm	49 mm
SK9,5-13,5	20-35 N	22 mm	32 mm	54 mm
SK12,5-16,5	28-47 N	26 mm	32 mm	58,5 mm
SK15,5-20,5	70-95 N	32 mm	32 mm	66,5 mm
SK19-27	85-107 N	39 mm	32 mm	73 mm
SK26-34	105-130 N	48 mm	32 mm	84 mm

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Shielded cable terminals	SK 5-11	Z2.803.0228.0	10			
	SK 9,5-13,5	Z2.803.0328.0	10			
	SK 12,5-16,5	Z2.803.0428.0	10			
	SK 15,5-20,5	Z2.803.2228.0	10			
	SK 19-27	Z2.803.2328.0	10			
	SK 26-34	Z2.803.2428.0	10			
Accessories						
1. Mounting rail (galvanized steel) L = 2 m					98.400.0000.0	1
2. Mounting feet Color: light gray						
3. Ground terminal						

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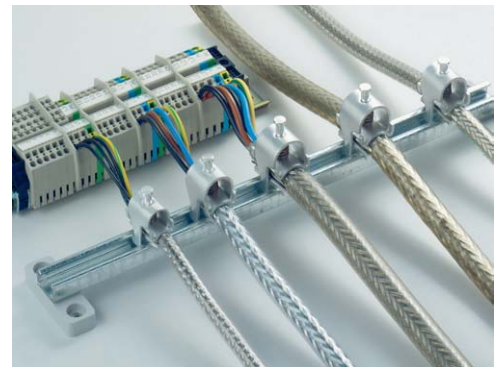


Ground terminal for mounting rail.
Clamping body: nickel plated copper alloy

Rated cross section: 16 mm²
rated wire guage
stranded: 10 – 16 mm² / 6 – 4 AWG
fine stranded: 1.5 – 16 mm² / 18 – 4 AWG

Wire strip length: 11 mm
Width: 8.4 mm

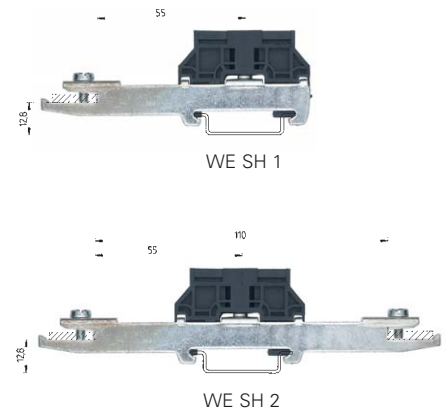
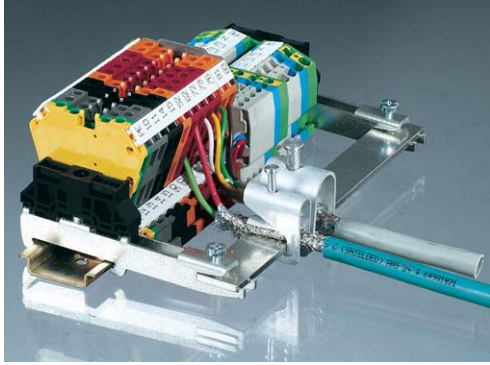
Base: Duroplast, light gray
Female part: brass
Thread: M4



Type	Part no.	Std. pack	Type	Part no.	Std. pack
	Z1.980.0040.0	10			
			9700/10E/1	Z2.302.1321.0	10

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Material: nickel-plated brass

SKN...

Type (shielded cable diameter)	Clamping force	B	L	H _{max}
SKN1,5-6,5	8-13 N	10 mm	25 mm	33,5 mm
SKN5-11	22-31 N	17 mm	25 mm	41 mm
SKN10-17	32-58 N	23 mm	25 mm	57 mm
SKN16-24	37-53 N	30 mm	25 mm	71 mm

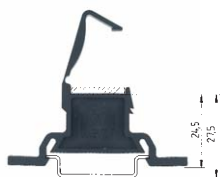
	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Shielded cable terminals	SKN1,5-6,5	Z2.803.1328.0	10			
	SKN5-11	Z2.803.1428.0	10			
	SKN10-17	Z2.803.1528.0	10			
	SKN16-24	Z2.803.1628.0	10			
Accessories						
1. Busbar support (one-sided), tin-plated steel				WE SH 1/35	Z5.515.3310.0	20
Busbar support (two-sided), tin-plated steel				WE SH 2/35	Z5.515.3410.0	20
Busbar support, plastic Color: black						
2. Ground terminal, tin-plated steel Color: green-yellow						
3. Busbar, Cu tin-plated 18x3 mm L = 1 m						

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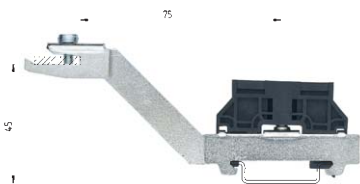
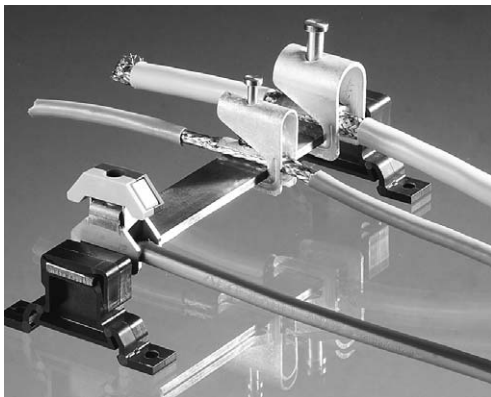
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WE SH3



SKN SH/35



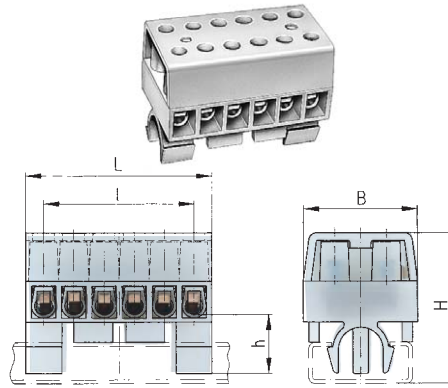
WE SH4



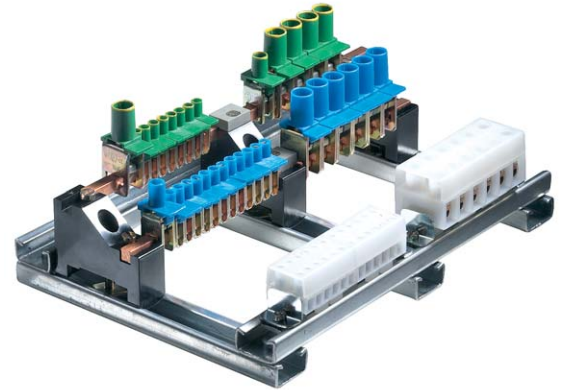
WAK 35/4

Type	Part no.	Std. pack	Type	Part no.	Std. pack
WESH4/35	Z5.519.0410.0	25			
WESH3/35	Z5.519.0310.0	25			
			SKNSH/35/F	Z1.980.0153.0	10
			WAK35/4GN	30.494.4210.0	
			18 x 3MSN	98.291.1000.0	10

Insulating housing: Polyamide 66/6 - tracking resistant
Clamping body: nickel-plated brass
Wire protection: phosphor bronze
Clamping screws: steel, zinc-plated and dichromated



	L	I	H	h	B
4 mm ²	35.9	5 x 5.8 = 29	29	14	20
16 mm ²	64.5	5 x 10.5 = 52.5	36	14	27.5



Complete sheet-steel distribution systems in accordance with IEC 61 984 and VDE 0108 can be assembled using these components. The widths of the terminals are chosen so that it is easy to identify which terminal is allocated to each individual circuit and so that they match the spacing of the miniature circuit breakers. The PE and N busbar (E-Cu 6 x 6mm) are attached to the busbar mounting brackets. The bare supply and distribution board terminals are pushed onto 6 x 6mm busbars. The PE busbar is attached to the top connection of the bracket and N busbar to the bottom one. The insulate terminals for the phase connections are pushed into the perforated rail from the top. For identifying the individual poles of the isolated terminals, marker strips are available in rolls numbered in sequences from 1 to 99 for AC circuits and from 101 for DC circuits.

DIN VDE 0110

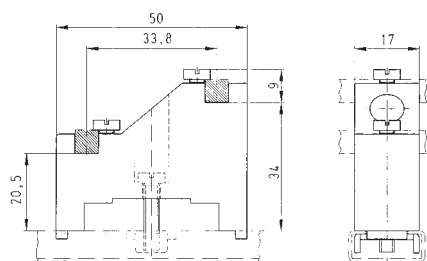
V
500 V/6 kV/3

Approvals

KEW 2

	Type	Part no.	Std. pack
Terminal block (up to 10 AWG)	KL28/6DSPA	33.011.0653.0	50
Terminal block (up to 4 AWG)	KL29/6DSPA	33.041.0653.0	20
Accessories for N and PE distribution terminals			
1. PE and N rail carrier with sliding nut			
2. Spacer for separating busbars			
3. Slotted mounting rail			
4. End clamp, 9mm wide			
5. Sliding nut			
6. Jumper bar, insulated for KL28	2pole	IVBIK4-2	Z7.255.0227.0 10
	3pole	IVBIK4-3	Z7.255.0327.0 10
	to 6pole	IVBIK4-6	Z7.255.0627.0 10
7. Marking strip rolls, 60 m each			
for KL 28 and terminal blocks 1-99 Distance between figures: 6 mm		04.007.1080.0	1
for KL 29 and terminal block 1-55 Distance between figures: 10.8 mm		04.007.3080.0	1

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Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	Z1.990.2030.0	50						
				05.592.1953.0	100			
	98.310.0000.0	10				2163	Z5.522.1923.0	100
	05.516.9510.0	100						

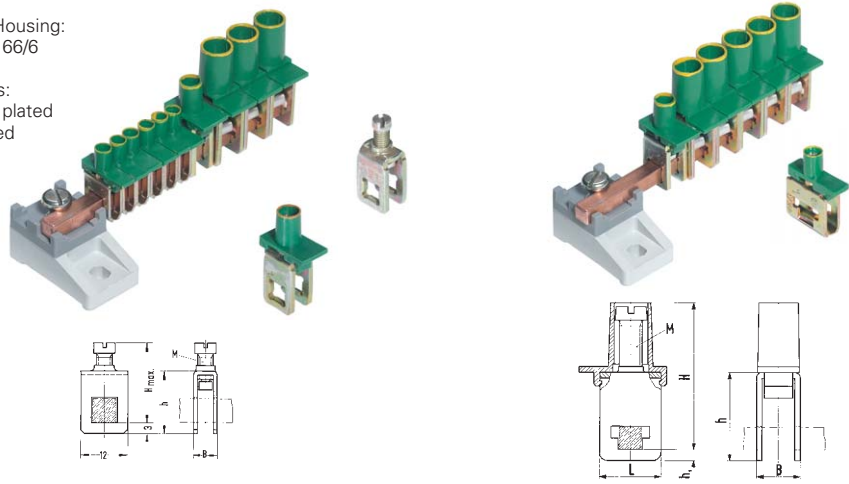


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Material:
Insulated Housing:
Polyamide 66/6

Metal parts:
Steel, zinc plated
dichromated

Bus bar distribution terminals with plastic cover, screw turret, screw break point, and marking ledge.



	H	h	M	B
4 mm ²	23.6	16	M3.5	6.0
16 mm ²	30.8	20.2	M5	9.5

	H	h	h ₁	L	M	B
4 mm ²	26	16	3	12	M3.5	6,0
16 mm ²	33.5	20.2	3	12	M5	10.7
25 mm ²	41.5	23.1	2.8	16	M6	11.5
35 mm ²	44	25.2	2.8	16	M6	14.3

EN 60998-2-1

Approvals

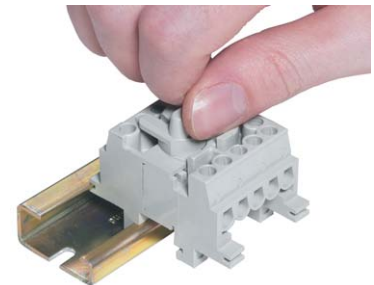
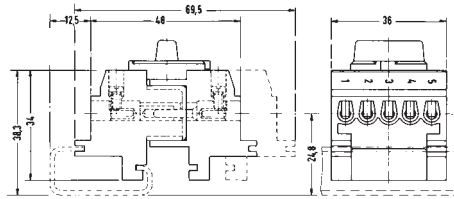
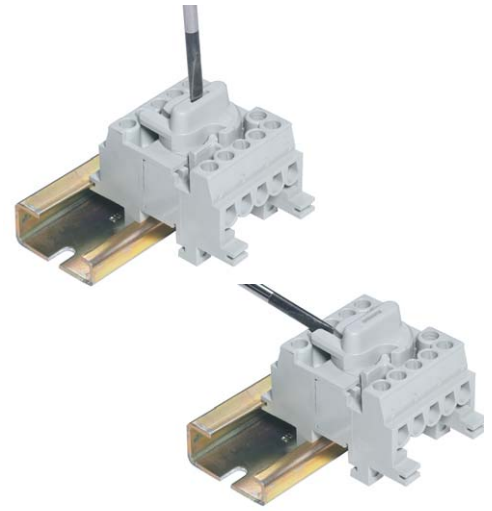
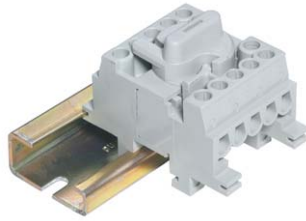
Ⓢ CCA/CH

Ⓢ CCA/CH

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Distribution terminal 4 mm ²	WAK4/1	30.494.0010.0	250	WAK4/3	30.494.0110.0	250
Distribution N terminal 4 mm ² Cap: blue	WAK4/1 bl	30.494.0010.6	500	WAK4/3 bl	30.494.0110.6	500
Distribution PE terminal 4 mm ² Cap: green-yellow	WAK4/1 gr-gb	30.494.0010.7	500	WAK4/3 gr-gb	30.494.0110.7	500
Distribution terminal 16 mm ²	WAK16/1	30.494.1010.0	250			
Distribution N terminal 16 mm ² Cap: blue	WAK16/1 bl	30.494.1010.6	250			
Distribution PE terminal 16 mm ² Cap: green-yellow	WAK16/1 gr-gb	30.494.1010.7	250			
Distribution terminal 25 mm ²				WAK25/3	30.494.1110.0	100
Distribution N terminal 25 mm ² Cap: blue				WAK25/3 bl	30.494.1110.6	100
Distribution PE terminal 25 mm ² Cap: green-yellow				WAK25/3 gr-gb	30.494.1110.7	100
Distribution terminal 35 mm ²				WAK35/3	30.494.2510.0	100
Distribution N terminal 35 mm ² Cap: blue				WAK35/3 bl	30.494.2510.6	100
Distribution PE terminal 35 mm ² Cap: green-yellow				WAK35/3 gr-gb	30.494.2510.7	100
Neutral conductor rail 15x3 mm I _N =140A L = 1 m with DIN 85 screws and lock washers						
without screws and washers						
Distributor with busbar 6 x 6 mm accord. to A802						
Accessories						
1. Rail carrier base	KS011/1ZKR	19.230.0040.0	65	KS011/1ZKR	19.230.0040.0	65
2. Busbar 6 x 6 mm E-Cu I _N =140A L = 2 m		98.320.0000.0	1		98.320.0000.0	1
3. Busbar 6 x 6 mm E-Cu I _N =140A L = 1 m		98.325.1000.0	1		98.325.1000.0	1
4. Busbar 10 x 3 mm E-Cu I _N =140A L = 1 m					98.290.0000.0	1
Marking stip rolls, 60 m each						
for KL 28 and terminal blocks 1-99 Distance between figures: 6 mm		04.007.1080.0	1			
for KL 29 and terminal blocks 1-55 Distance between figures: 10.8 mm		04.007.3080.0	1		04.007.1080.0	1
					04.007.3080.0	1

Plug-able rail mount terminal with screw technology

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ST 25/5...

fine stranded	solid	V	A
2.5 mm ²	2.5 mm ²	250 V/4 kV/3	16
No. 22-12	AWG	300 V	20
No. 22-14	AWG	300 V	16
	Wire strip length		5.5 mm

EN 60 998-2-1/VDE 0613 T2-1

UL-ratings

CSA ratings

Approvals

Wire strip length

	Type	Part no.	Std. pack
Plug-able connector	ST 25/5 B	93.031.2055.0	50
Rail mount socket			
Plug-able connector w/locking lever	ST 25/5 SV	93.032.2455.0	50
Plug-able connector without locking lever	ST 25/5 S	93.032.2055.0	50
Plug-able connector and rail mount socket			
Accessories			
1. Mounting rail TS 35, DIN rail 7.5mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32 G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm wide	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm wide	9708	Z5.522.7053.0	100
3. Jumper comb for 5 poles (E-Cu)	VB 11/2	07.250.2527.0	50
Mounting bracket for C rail	M4 and M6		
Mounting base for DIN rail	M3 thread		
	M4 thread		
	M5 thread		
	M6 thread		
Tear-off coding pieces with 10 coding pieces each			
Marking peg (white Polyamide) unmarked	BZ 12	04.232.0051.0	5000
Marking peg (white Polyamide) marked	BZ 12 B	04.832.0051.0	5000
For marking accessories see pages 178-183			

Material:

Insulating housing: fiberglass reinforced Polyamide – tracking resistant

Plug and socket contact: brass, surface treated

Clamping screws: steel, zinc-plated and dichromated

Locking device screws: thermoplastic

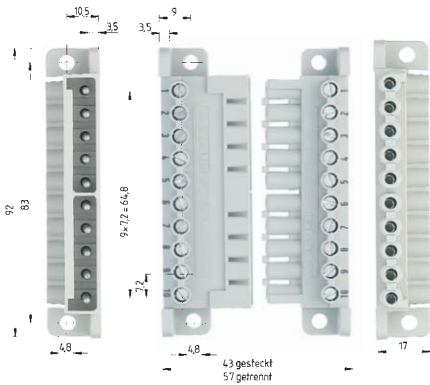
The terminal connections have a friction lock to prevent the screws from becoming loose as well as wire protection.

This plug-in connector is available with or without locking levers which operate automatically when connection is made. The connector can be separated either using a screwdriver held in a vertical or horizontal position or by hand.

When operating the connector, the interlocking device acts as a control curve, which separates the two halves of the connector. The individual parts of the connector are identified by embossed consecutive numbers (1 to 5). Each 5 pole block can be identified using a marking plug.

Compact plug-able connector with coding capability

selos



Mounting options: dis-connected
Panel mount or rail mount

fine stranded	solid	V	A
2.5 mm ²		400 V/6 kV/3	16
No. 22-12 AWG		300 V	20
No. 22-14 AWG		300 V	16
		5.5 mm	



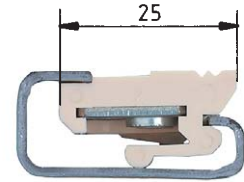
Type	Part no.	Std. pack
ST 28/10 B	93.001.1055.0	10
ST 28/10 S	93.002.1055.0	10
ST 28/10 BS	93.003.1055.0	10
35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1
WE 1/U	Z5.523.5753.0	100
	Z5.522.8553.0	
	05.594.5153.0	100

Coding diagram for Wieland compact connector type ST 28/10

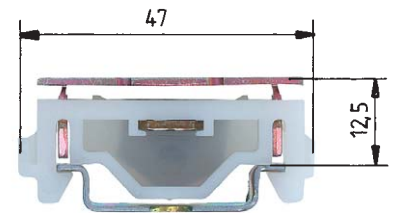
The plug and socket sections of the compact plug connector each have 8 slots for the coding bar. To do this, a coding piece is inserted in the socket section at the points marked with "B". Likewise, a coding piece is inserted in the plug section at the points marked "S". The best way to code the parts is to separate the plug and socket sections and push the coding bars into the coding slots now facing each other as shown in the diagram.

Then reconnect the socket sections.

The coding bars are supplied in batches of 10 which are connected together to facilitate insertion.



Width 11.5 mm TS M 4/M 6-32



Width 12 mm TS M ... S 35

Coding:

S	B	B	B	B	B	B	S	1. configuration
S	B	B	B	B	B	S	B	2. configuration
S	B	B	B	B	S	B	B	3. configuration
S	B	B	B	S	B	B	B	4. configuration
S	B	B	S	B	B	B	B	5. configuration
S	B	S	B	B	B	B	B	6. configuration
S	S	B	B	B	B	B	B	7. configuration
B	S	B	B	B	B	B	S	8. configuration
B	S	B	B	B	B	S	B	9. configuration
B	S	B	B	B	S	B	B	10. configuration
B	S	B	B	S	B	B	B	11. configuration
B	S	S	B	B	B	B	B	12. configuration
B	S	S	B	B	B	B	B	13. configuration
B	B	S	B	B	B	B	S	14. configuration

etc.

Type	Part no.	Std. pack
TS M 4/M 6-32	69.332.0000.0	100
TS M 3 S 35	69.335.0253.0	100
TS M 4 S 35	69.335.0453.0	100
TS M 5 S 35	69.335.0553.0	100
TS M 6 S 35	69.335.0653.0	100



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IDC DIN rail terminal blocks, onlinecomponents.com
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type **WKC**

taris

IDC connection for:

Standard DIN rail terminal blocks

Duo terminal blocks

Multi-tier terminal blocks

Disconnect blocks

taris connects copper wires **easily, fast** and **safely**

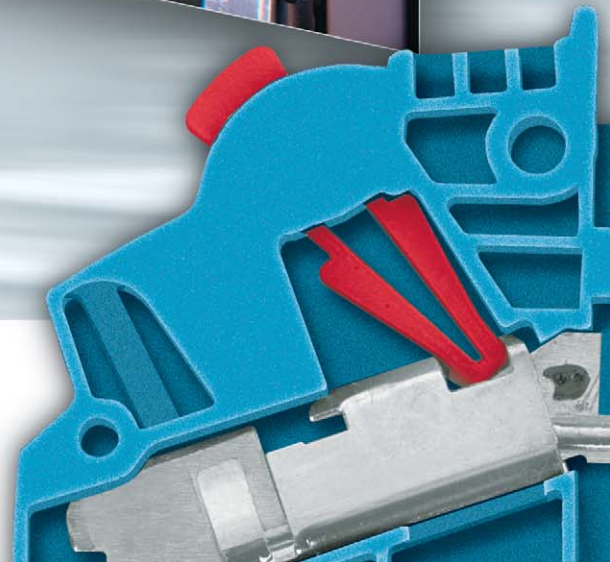
taris for TS 35

- no wire stripping, no ferrules
- no special tools - a screwdriver is all you need
- 60 % time savings = reduced costs
- low packing density (5 mm wide)
- optical control of the switching state
- cross sections up to 1.0 mm² and 2.5 mm²

All Wieland Components which require **CE** general certification are **CE** certified, and identified with the **CE** logo.



IDC DIN rail terminal blocks
type *WKC*

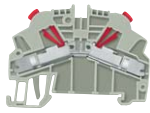
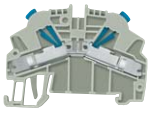
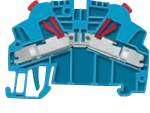


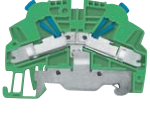


IDC DIN rail terminal blocks, type WKC

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	1.0 mm ²	2.5 mm ²
Feed-through blocks		
Neutral feed-through blocks		
Ground blocks		

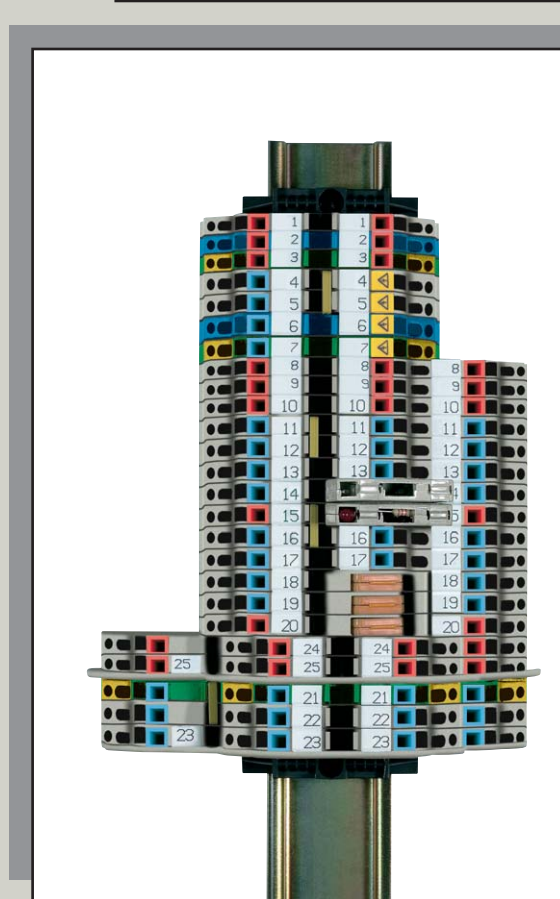
Standard DIN rail terminal blocks

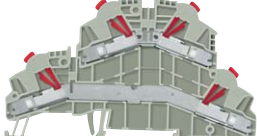
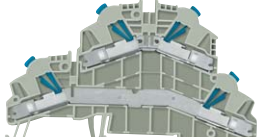
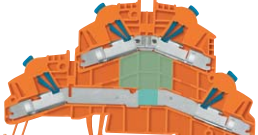
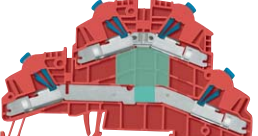
taris

	1.0 mm ²	2.5 mm ²
Feed through blocks		
Ground blocks		

Hybrid DIN rail terminal blocks



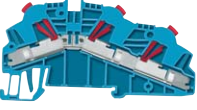

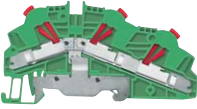
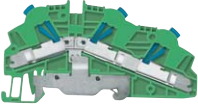
taris

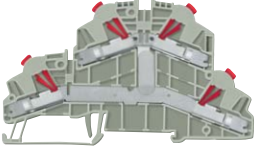

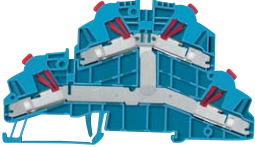
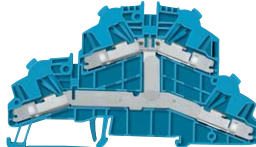
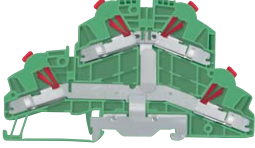
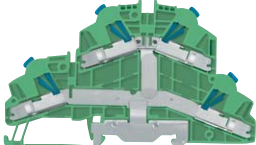


	1.0 mm ²	2.5 mm ²
Double-tier block		
Double-tier blocks as function blocks, possible diode switches upon request		 







Double-tier blocks

taris

	1.0 mm ²	2.5 mm ²	
Feed-through blocks			Duo 1/2
Neutral feed-through blocks			
Ground blocks			

	1.0 mm ²	2.5 mm ²	
Feed-through blocks			Duo 2/2
Neutral feed-through blocks			
Ground blocks			

Duo DIN rail terminal blocks

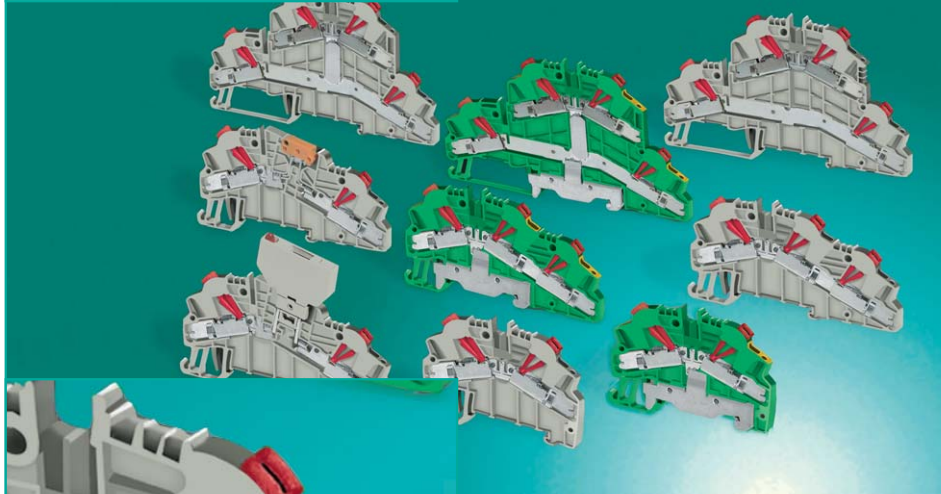
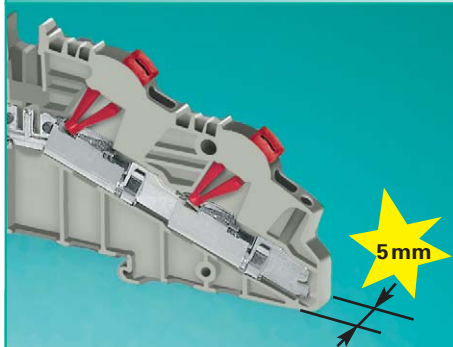
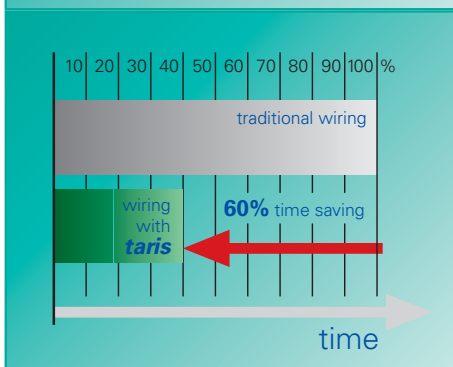
	1.0 mm ²	2.5 mm ²	
Knife edge disconnect blocks			taris
Disconnect blocks with fuse plug			
Disconnect blocks with diode plug			

Disconnect blocks

IDC DIN rail terminal blocks type WKC

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taris



taris technology

- Wieland's **taris** (WKC) Series represents the industry's most comprehensive line of advanced IDC (insulation displacement contact) technology terminal blocks. The superior design of the **taris** IDC contact system reduces wiring installation time and labor, especially in high volume wiring applications. **taris** IDC terminal blocks are suitable for applications in automated equipment and machine tools, packaging and material handling machinery, railway/mass transit systems, petrochemical, and any applications requiring high-volume interconnects for low-voltage control and signal circuitry where labor cost reduction and ease of assembly is a goal.

taris features

- The industry's narrowest blocks at just 5 mm and 6 mm wide
- Operates with a standard screwdriver
- Dual jumpering slots
- Built-In test points
- Contact design moves the clamp to engage the wire
- Top-entry system puts the wire entry and the screwdriver access in the same plane
- Tin-plated copper alloy contact material
- UL 94-VO non-flammability rating on the polyamide 66/6 insulation material

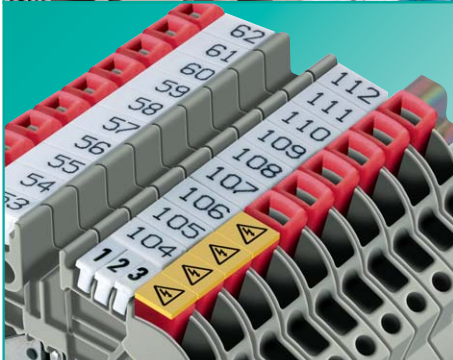
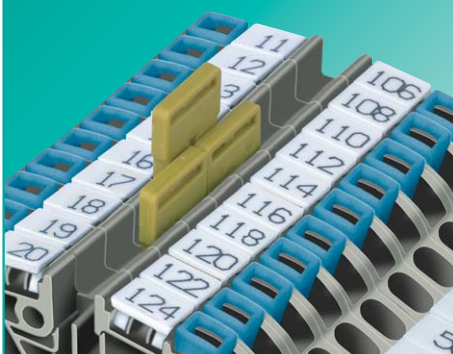
benefits

- uses less space in the cabinet
- No special tools required
- Flexibility in commoning potentials of adjacent blocks
- Provide true measurement reading without removing wires
- Ensures secure, gas-tight and vibration-resistant connection even when the wire length is maxed out
- Easy circuit identification and troubleshooting
- Corrosion resistant connection
- Increased safety
- Easy installation even in confined spaces

WKC series terminal block versions

- Feed-through
- Ground
- Disconnect
- Fuse
- Arc suppression
- Reverse polarity protection
- 1-in, 2-out feed-through
- 1-in, 2-out ground
- Double-tier feed-through
- Double-tier ground
- Voltage indication

- **taris** is designed for long-term use under demanding conditions



Test plug

- All **taris** IDC DIN rail terminal blocks feature built in test points so that measuring values can be taken without removing the wire.
- Entry guides on each side of the blocks permit measuring with standard 2.3 mm test probes and test plugs for easy maintenance and trouble-shooting

Cross connection

- IVB WKF insulated cross connectors offer complete protection from shock-hazard per EN 60352-3/4 and EN 60947-7-1.
- Partition plates between neighboring cross connections are not necessary to meet creepage requirements.
- IVB WKF cross connectors bear the same rated current as the terminal block

Marking facilities

- single marking tags
- Snap-On marking strips
- Tear-off marking strips
- Custom marking options

ADC warning cover

- taris** offers a Snap-On cover with the ADC warning symbol to prevent tampering of blocks which remain live after the system is switched off. A tool is required to remove the cover for added safety.

DQS certificates for all products

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

taris material

- taris** utilizes special alloys and surface treatments to provide low contact resistance and a high degree of protection from corrosion. **taris** material composition makes it suitable for use under extreme conditions and guarantees a long-term stable connection.

taris metal compositions

- clamping body and current bar constructed of tin-plated copper
- ground foot is constructed of tin-plated brass

taris insulating housing compositions

- housings are constructed of polyamide 6.6 for its excellent mechanical, electrical and chemical properties
- UL 94-VO non-flammability rating, the best in the industry
(see also section **facts** & DATA)

Our **wieplan** software helps to plan your DIN rail terminal block assemblies (see page 10/11).

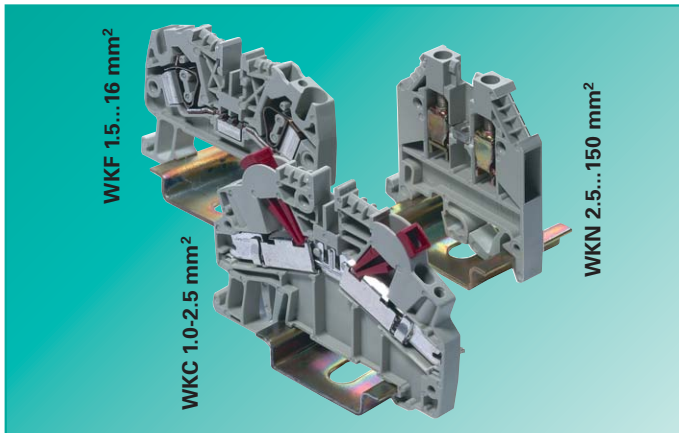
Note

The information regarding cross-sectional areas and connection types pertains to wires without ferrules. Ferrules are not necessary for secure connection.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

A detailed description of technical data, the standards requirements, and the application conditions can be found in catalog section **facts** & DATA.

taris



taris

With the addition of **taris** IDC terminal blocks, Wieland now offers the broadest range of screw clamp, spring clamp, and IDC technology, to provide the best possible connection for any control cabinet application. At just 5mm and 6mm wide, the **taris** series includes the industry's narrowest IDC block capable of accepting 14 AWG. Like other Wieland products, **taris** is designed with superior function and quality in mind, thereby offering the most features and benefits of any terminal block on the market. To lower production costs or reduce installation and maintenance time, Wieland's **taris** WKC series terminal blocks offer the connection technology you need.

The 2-second connection

Terminating copper wires is easy, fast and safe with **taris**.

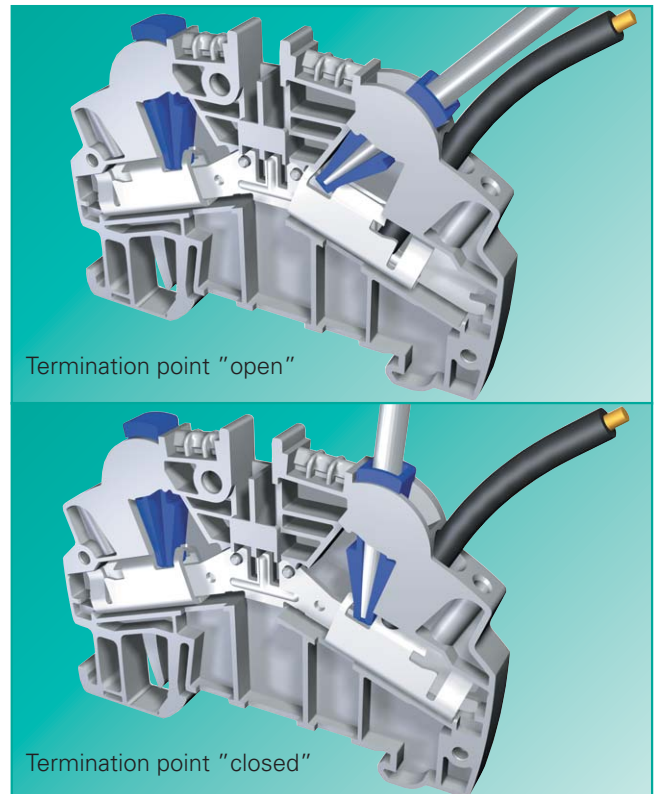
- **Easy** – Cut the wire to length and insert into the wire entry guide. Move the clamping body into the wire by inserting and levering a standard flat screwdriver
- **Fast** – There is no prep time with **taris** - no wire stripping and no ferruling. **taris** reduces installation time by as much as 60%.
- **Safe** – the wire does not move during the operation - no risk of losing the wires. No live parts are able to be touched due to the design of the insulating housing. Jumpers are isolated as well.

taris makes disconnecting wires just as easy, fast and safe.

- It is possible to re-use spliced wires with **taris** by cutting the end of the wire before each new/re-termination
- After connecting a larger wire, a smaller diameter wire can be connected to the same contact.

A color-coded screwdriver guide indicates the rated cross section of the terminal block:

- WKC 1 30-18 AWG red indicator
- WKC 2.5 18-14 AWG blue indicator



Wire specifications

taris terminates solid or fine stranded copper wires with AWG between 24 and 14 with two size of terminal blocks.

WKC ...1 : copper wire between AWG 24-18; 5mm wide terminal block
WKC ...2,5: copper wire between AWG 18-14; 6mm wide terminal block

Standard control wire with PVC- and PE- insulation can be terminated

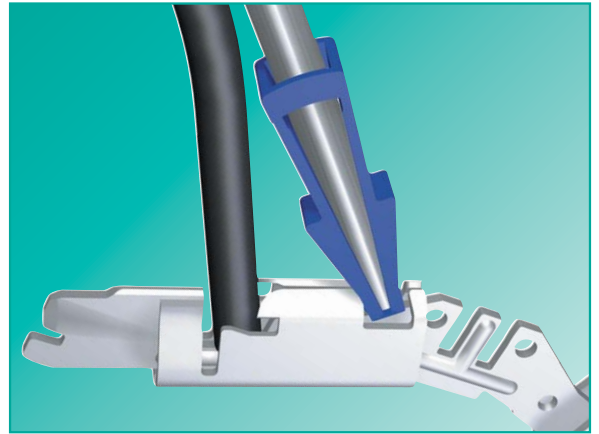
Wire with other insulation material can also be terminated, please consult Wieland for recommendation

For fine stranded copper wires, the wire diameter must be a minimum of 0.2mm. the composition of conductors is based on DIN VDE 0295

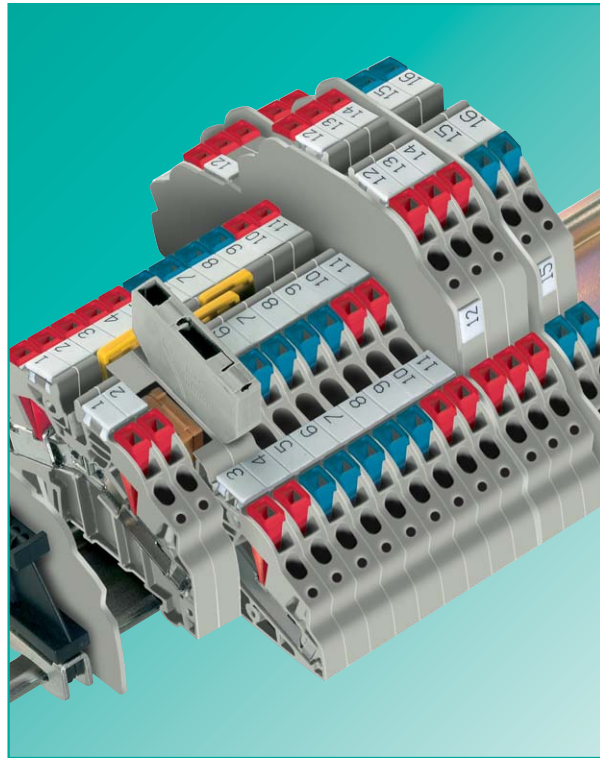
K1, 1-5.

Wire connection

Insert the wire into the clamping body through the wire entry guide. Insert a flat screwdriver into the colored screwdriver guide and push the screwdriver forward to move the clamping body into the wire. This action cuts into the insulation of the wire at two defined points with proper contact and no damage to the copper wire. The result is a gas tight, vibration and corrosion resistant contact.



taris



The taris series

For various application requirements, **taris** offers a variety of terminal blocks in two different ranges of AWG cross sections. Both cross sections have the same contour outside for a clean symmetrical look along the DIN rail.

Standard terminals

- DIN rail terminal blocks as feed-through and ground blocks with one termination point on each side of the terminal block
- DIN rail terminal blocks with two jumpering slots provide flexibility in commoning potentials
- DIN rail terminal blocks with marking facilities on every termination point
- DIN rail terminal blocks with test points for test probes on every termination point

Duo terminals

- Duo DIN rail terminal blocks with more than two termination points for one potential
- Duo DIN rail terminal blocks as feed-through and ground blocks in D 1/2 and D2/2 version
- Duo DIN rail terminal blocks D 1/2 can be jumpered with the standard DIN rail terminal blocks

Disconnect terminals

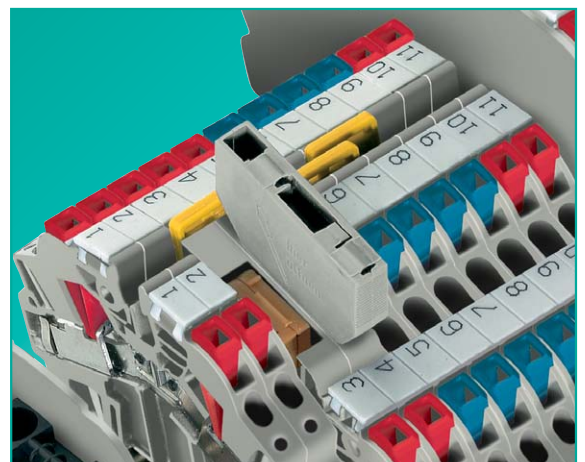
- as knife edge disconnect blocks or disconnect blocks for diode or fuse plugs
- can be jumpered with standard or Duo 1/2 DIN rail terminals.

Double-deck rail terminals

- double-tier blocks with same contour as Duo 2/2 blocks.
- double-tier blocks as function block for diode switchings

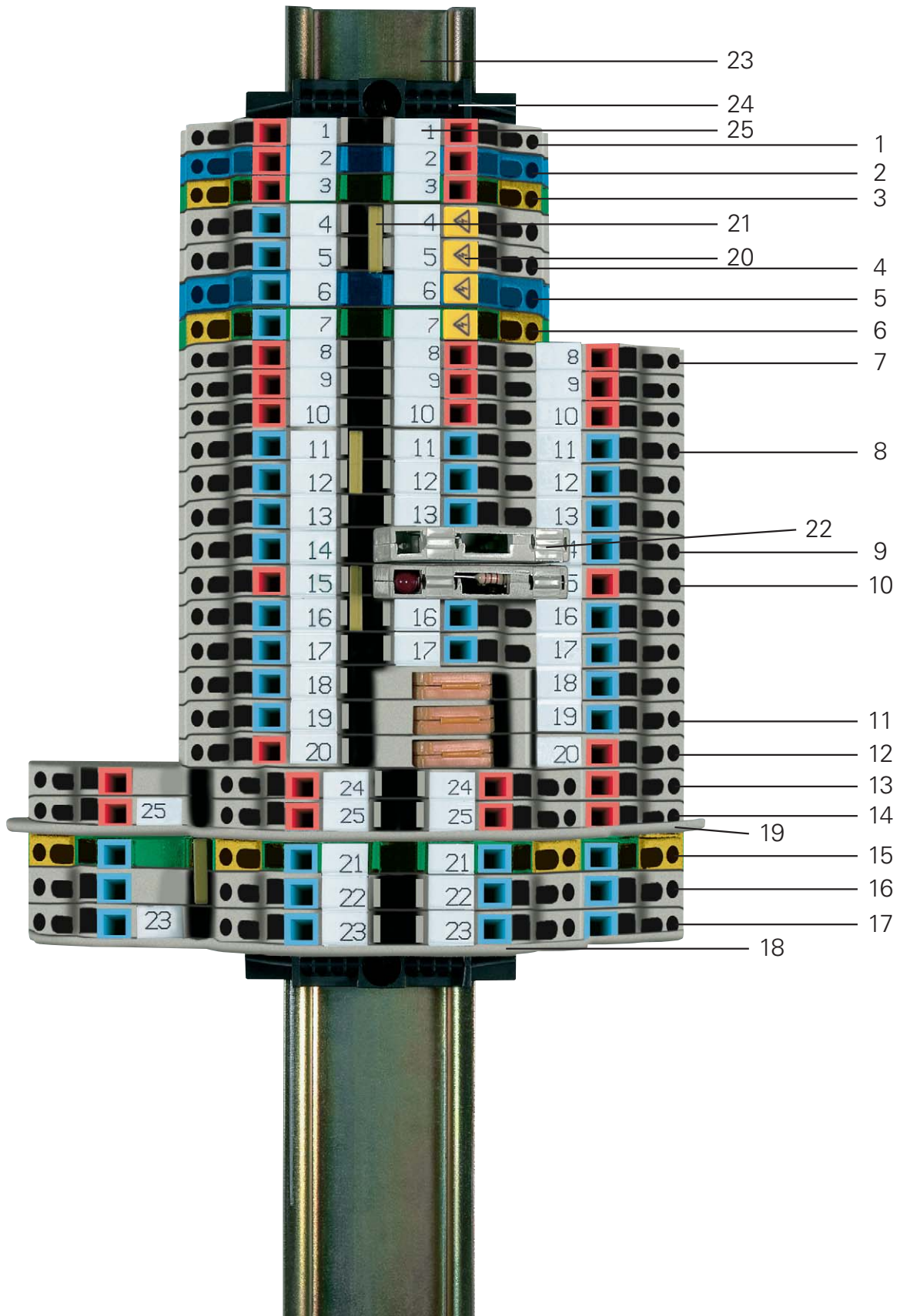
Accessories

- **taris** utilizes Wieland's standard marking system
- **taris** utilizes the same insulated cross connectors as Wieland's WKF series spring clamp connection technology for potential commoning.
- For more complex connections, **taris** uses the disconnect block with fuse plug SIST or diode plug DIST for WK or WKF series.
- For visual separation of terminal block groups, **taris** offers partitions and end plates, which also maintain shock-hazard protection.
- **taris** features built-in test points which accommodate Wieland test plugs or test probes from standard meters for way maintenance and trouble-shooting.



IDC DIN rail terminal blocks,
type WKC
taris

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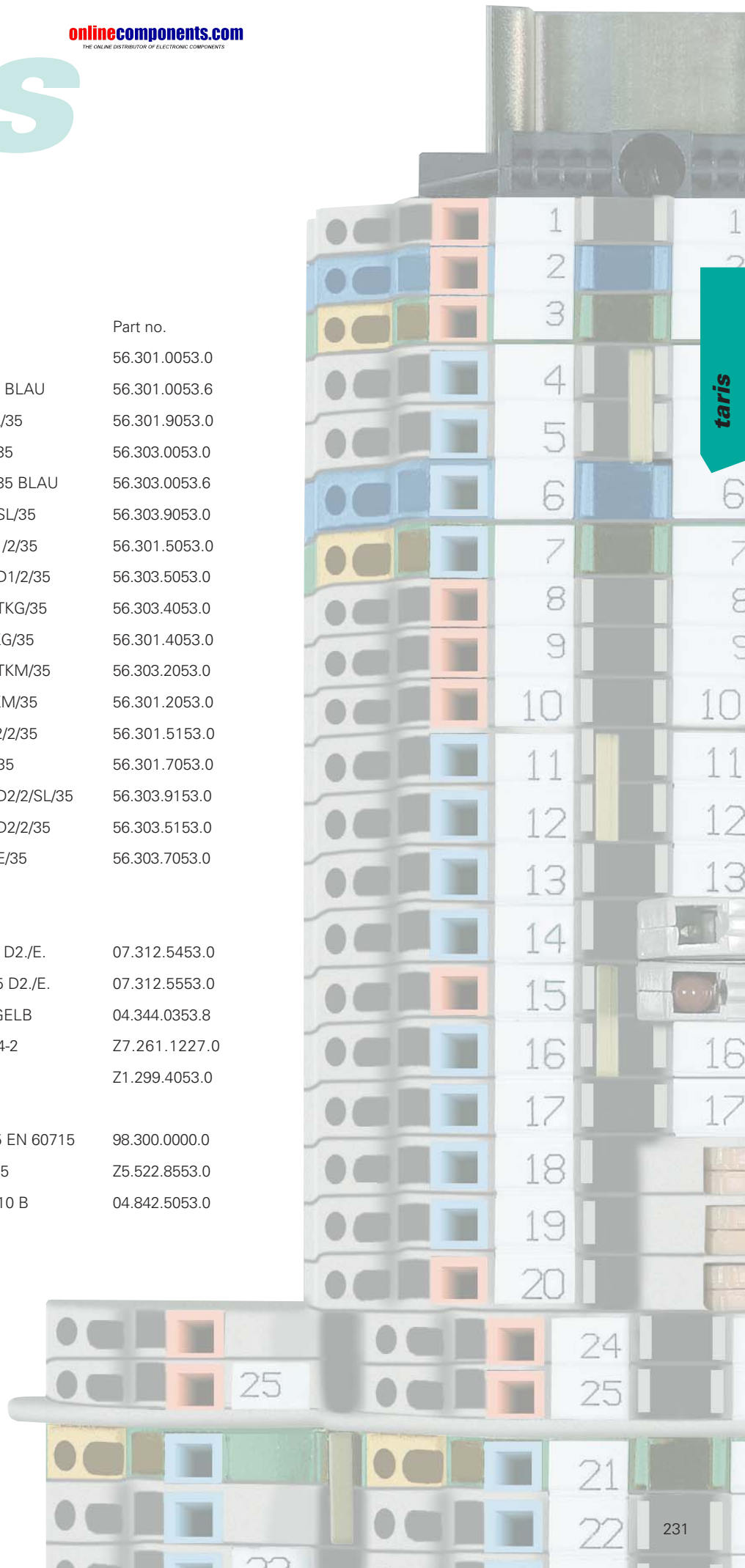


taris sample rail

taris

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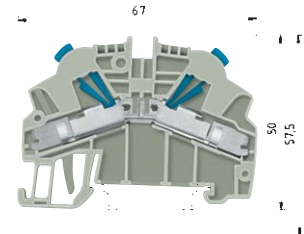
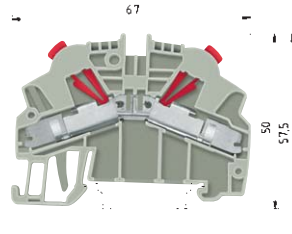
Pos.	Description	Type	Part no.
1	Feed-through block	WKC 1/35	56.301.0053.0
2	Feed-through block, blue	WKC 1/35 BLAU	56.301.0053.6
3	Ground block	WKC 1 SL/35	56.301.9053.0
4	Feed-through block	WKC 2,5/35	56.303.0053.0
5	Feed-through block, blue	WKC 2,5/35 BLAU	56.303.0053.6
6	Ground block	WKC 2,5 SL/35	56.303.9053.0
7	Duo feed-through block	WKC 1 D1/2/35	56.301.5053.0
8	Duo feed-through block	WKC 2,5 D1/2/35	56.303.5053.0
9	Disconnect block	WKC 2,5 TKG/35	56.303.4053.0
10	Disconnect block	WKC 1 TKG/35	56.301.4053.0
11	Knife edge disconnect block	WKC 2,5 TKM/35	56.303.2053.0
12	Knife edge disconnect block	WKC 1 TKM/35	56.301.2053.0
13	Duo feed-through block	WKC 1 D2/2/35	56.301.5153.0
14	Double-tier block	WKC 1 E/35	56.301.7053.0
15	Duo-ground block	WKC 2,5 D2/2/SL/35	56.303.9153.0
16	Duo-feed-through block	WKC 2,5 D2/2/35	56.303.5153.0
17	Double-tier block	WKC 2,5 E/35	56.303.7053.0
18	End plate	APC 1-2,5 D2./E.	07.312.5453.0
19	Partition plate	TWC 1-2,5 D2./E.	07.312.5553.0
20	Cover with warning symbol	ADC 2,5 GELB	04.344.0353.8
21	Jumper bar, insulated	IVB WKF 4-2	Z7.261.1227.0
22	Fuse plug (G 5x20)	SIST	Z1.299.4053.0
23	Mounting rail	35x27x7,5 EN 60715	98.300.0000.0
24	End clamp	9708/2 S35	Z5.522.8553.0
25	Marking strips	9705 A/5/10 B	04.842.5053.0



IDC feed-through blocks, type WKC

taris

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WKC 1/35

fine stranded	solid	V	A
0.2 – 1 mm ²	0.2 – 1 mm ²	800 V/8 kV/3	13.5
No. 30-18 AWG		600 V	13
No. 24-18 AWG		600 V	13
Width		Rated cross section	
5 mm		1 mm ²	



WKC 2.5/35

fine stranded	solid	V	A
1 – 2.5 mm ²	1 – 2.5 mm ²	800 V/8 kV/3	24
No. 18-14 AWG		600 V	22
No. 16-14 AWG		600 V	20
Width		Rated cross section	
6 mm		2.5 mm ²	



EN 60 947-7-1

UL ratings

CSA ratings

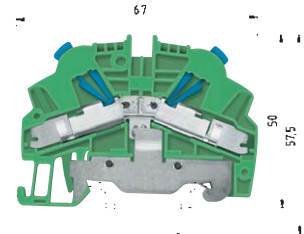
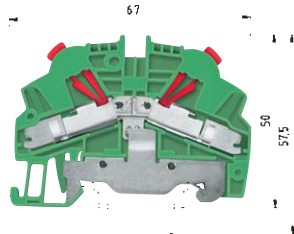
Width

Approvals

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed-through block	Color: gray	WKC 1/35	56.301.0053.0	100	WKC 2,5/35	56.303.0053.0	100
Feed-through block	Color: blue	WKC 1/35 BLAU	56.301.0053.6	100	WKC 2,5/35 BLAU	56.303.0053.6	100
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APC 1-2,5	07.312.5053.0	10	APC 1-2,5	07.312.5053.0	10
	Color: blue	APC 1-2,5 BLAU	07.312.5053.6	10	APC 1-2,5 BLAU	07.312.5053.6	10
	Color: green						
4. Partition plate	Color: gray	TWC 1-2,5	07.312.5153.0	10	TWC 1-2,5	07.312.5153.0	10
	Color: blue	TWC 1-2,5 BLAU	07.312.5153.6	10	TWC 1-2,5 BLAU	07.312.5153.6	10
5. Jumper bar, insulated	2pole	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
	3pole	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole*	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol over 4 blocks		ADC 1 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
*Available up to 20 pole		* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
Marking accessories also see page 178-179 and 250-251		**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		

IDC ground blocks, type WKC

taris



WKC 1 SL/35

WKC 2,5 SL/35

EN 60 947-7-2

UL ratings

CSA ratings

Width

Approvals

Rated cross section

fine stranded	solid	V	A
0.2 – 1 mm ²	0.2 – 1 mm ²	800 V/8 kV/3	13.5
No. 30-18 AWG		600 V	
No. 24-18 AWG			
5 mm			1 mm ²

fine stranded	solid	V	A
1 – 2.5 mm ²	1 – 2.5 mm ²	800 V/8 kV/3	24
No. 18-14 AWG		600 V	
No. 16-14 AWG			
6 mm			2.5 mm ²



		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Ground block	Color: green/yellow	WKC 1 SL/35	56.301.9053.0	100	WKC 2,5 SL/35	56.303.9053.0	100
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray						
	Color: blue						
	Color: green	APC 1-2,5 GRÜN	07.312.5053.7	10	APC 1-2,5 GRÜN	07.312.5053.7	10
4. Partition plate	Color: gray						
	Color: blue						
5. Jumper bar,	2pole						
insulated	3pole						
	4pole						
	5pole						
	6pole						
	7pole						
	8pole						
	9pole						
	10pole						
6. Cover w. warning symbol over 4 blocks		ADC 1 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, unisoliert		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5

* CL I, ZN1, AExe II

* CL I, ZN1, AExe II

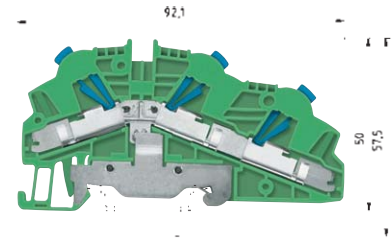
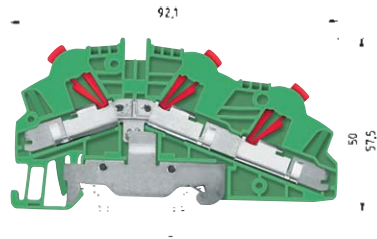
**CL I, ZN1, Exe II

**CL I, ZN1, Exe II

IDC duo ground blocks, type WKC

taris

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WKC 1 D1/2/SL/35

fine stranded	solid	V	A
0.2 – 1 mm ²	0.2 – 1 mm ²	800 V/8 kV/3	13.5
No. 30-18 AWG		600 V	13
No. 24-18 AWG			
Width	Rated cross section	5 mm	1 mm ²

WKC 2.5 D1/2/SL/35

fine stranded	solid	V	A
1 – 2.5 mm ²	1 – 2.5 mm ²	800 V/8 kV/3	24
No. 18-14 AWG		600 V	22
No. 16-14 AWG			
Width	Rated cross section	6 mm	2.5 mm ²

EN 60 947-7-2

UL ratings

CSA ratings

Width

Approvals

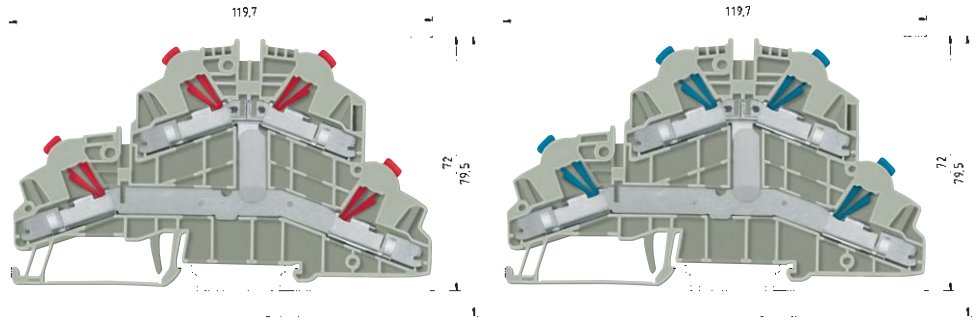
Rated cross section

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Duo ground block	Color: green/yellow	WKC 1 D1/2/SL/35	56.301.9353.0	50	WKC 2,5 D1/2/SL/35	56.303.9353.0	50
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray						
	Color: blue						
	Color: green	APC 1-2,5 D1./TK.GRÜN	07.312.5253.7	10	APC 1-2,5 D1./TK.GRÜN	07.312.5253.7	10
4. Partition plate	Color: gray						
	Color: blue						
5. Jumper bar,	2pole						
insulated	3pole						
	4pole						
	5pole						
	6pole						
	7pole						
	8pole						
	9pole						
	10pole						
6. Cover w. warning symbol over 4 blocks		ADC 1 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
10. Marking accessories		also see page 250/251			9705 A/5/10	04.242.5053.0	25
		* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
		**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		

taris

IDC duo feed-through blocks, onlinecomponents.com type WKC

taris



WKC 1 D2/2/35

fine stranded	solid	V	A
0.2 – 1 mm ²	0.2 – 1 mm ²	500 V/6 kV/3	13.5
No. 30-18 AWG		600 V	13
No. 24-18 AWG		300/600 V*	13
Width	Rated cross section		1 mm ²



WKC 2.5 D2/2/35

fine stranded	solid	V	A
1 – 2.5 mm ²	1 – 2.5 mm ²	500 V/6 kV/3	24
No. 18-14 AWG		600 V	22
No. 16-14 AWG		360/600 V*	20
Width	Rated cross section		2.5 mm ²



EN 60 947-7-1

UL ratings

CSA ratings

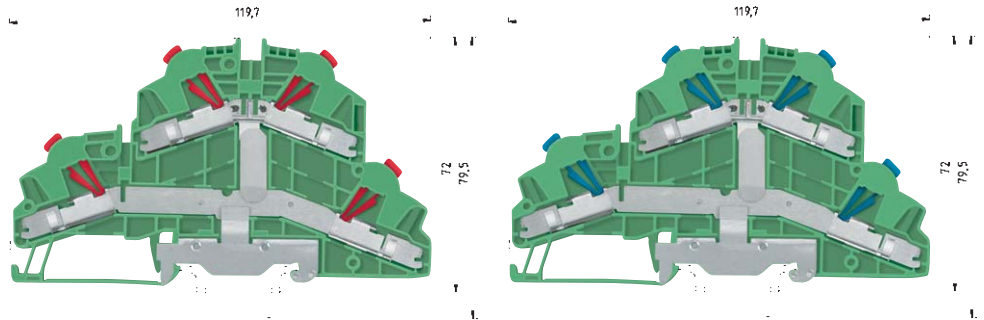
Width

Approvals

Rated cross section

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Duo feed-through block	Color: gray	WKC 1 D2/2/35	56.301.5153.0	50	WKC 2,5 D2/2/35	56.303.5153.0	50
Duo feed-through block	Color: blue	WKC 1 D2/2/35 BLAU	56.301.5153.6	50	WKC 2,5 D2/2/35 BLAU	56.303.5153.6	50
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APC 1-2,5 D2./E.	07.312.5453.0	10	APC 1-2,5 D2./E.	07.312.5453.0	10
	Color: blue	APC 1-2,5 D2./E. BLAU	07.312.5453.6	10	APC 1-2,5 D2./E. BLAU	07.312.5453.6	10
	Color: green						
4. Partition plate	Color: gray	TWC 1-2,5 D2./E.	07.312.5553.0	10	TWC 1-2,5 D2./E.	07.312.5553.0	10
	Color: blue	TWC 1-2,5 D2./E. BLAU	07.312.5553.6	10	TWC 1-2,5 D2./E. BLAU	07.312.5553.6	10
5. Cross connector, insulated	2pole	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
	3pole	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol over 4 blocks		ADC 1 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
		*300 V for use group C			*300 V for use group C		
		600 V for use group D, E			*600 V for use group D, E		
		* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
Marking accessories also see page 178-179 and 250-251		**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		

IDC duo ground blocks, type WKC



WKC 1 D2/2/SL/35

fine stranded	solid	V	A
0.2 – 1 mm ²	0.2 – 1 mm ²	500 V/6 kV/3	13.5
No. 30-18 AWG		600 V	
No. 24-18 AWG			
Width	Rated cross section	1 mm ²	
		MEG W * CE **	

WKC 2,5 D2/2/SL/35

fine stranded	solid	V	A
1 – 2.5 mm ²	1 – 2.5 mm ²	500 V/6 kV/3	24
No. 18-14 AWG		600 V	
No. 16-14 AWG			
Width	Rated cross section	2.5 mm ²	
		MEG W * CE **	

EN 60 947-7-2

UL ratings

CSA ratings

Width

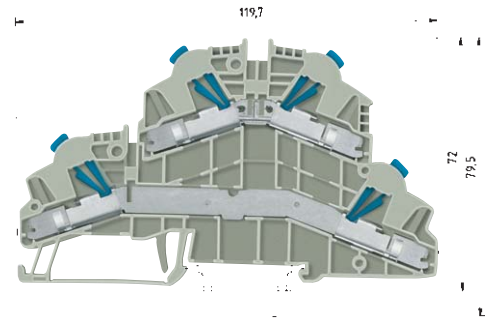
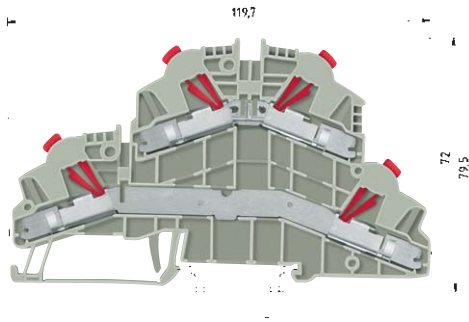
Rated cross section

Approvals

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Duo ground block	Color: green/yellow	WKC 1 D2/2/SL/35	56.301.9153.0	50	WKC 2,5 D2/2/SL/35	56.303.9153.0	50
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray						
	Color: blue						
	Color: green	APC 1-2,5 D2/.E. GRÜN	07.312.5453.7	10	APC 1-2,5 D2/.E. GRÜN	07.312.5453.7	10
4. Partition plate	Color: gray						
	Color: blue						
5. Jumper bar, insulated	2pole						
	3pole						
	4pole						
	5pole						
	6pole						
	7pole						
	8pole						
	9pole						
	10pole						
6. Cover w. warning symbol over 4 blocks		ADC 1 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
		* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
		**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		

IDC double-tier blocks, type WKC taris

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WKC 1 E/35

fine stranded	solid	V	A
0.2 – 1 mm ²	0.2 – 1 mm ²	500 V/6 kV/3	13.5
No. 30-18 AWG		600 V	13
No. 24-18 AWG		300/600 V**	13
Width	Rated cross section	5 mm	1 mm ²



WKC 2.5 E/35

fine stranded	solid	V	A
1 – 2.5 mm ²	1 – 2.5 mm ²	500 V/6 kV/3	24
No. 18-14 AWG		600 V	22
No. 16-14 AWG		300/600 V**	20
Width	Rated cross section	6 mm	2.5 mm ²



EN 60 947-7-1

UL ratings

CSA ratings

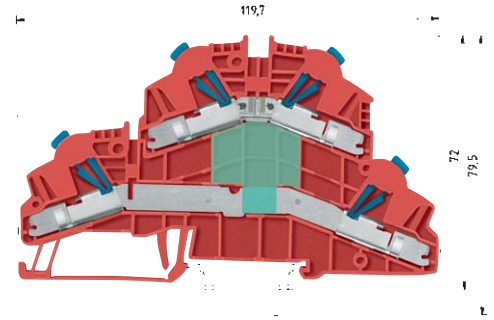
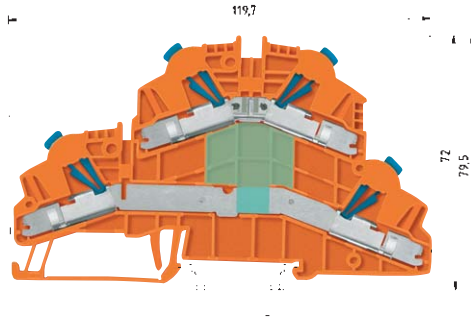
Width

Approvals

Rated cross section

		Type	Part no.	Std. pack	Type	Part no.	Std. pack	
Double-tier block	Color: gray	WKC 1 E/35	56.301.7053.0	50	WKC 2,5 E/35	56.303.7053.0	50	
Double-tier block	Color: blue	WKC 1 E/35	56.301.7053.6		WKC 2,5 E/35	56.303.7053.6		
Accessories								
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100	
3. End plate	Color: gray	APC 1-2,5 D2./E.	07.312.5453.0	10	APC 1-2,5 D2./E.	07.312.5453.0	10	
	Color: blue	APC 1-2,5 D2./E. BLAU	07.312.5453.6	10	APC 1-2,5 D2./E. BLAU	07.312.5453.6	10	
	Color: green							
4. Partition plate	Color: gray	TWC 1-2,5 D2./E.	07.312.5553.0	10	TWC 1-2,5 D2./E.	07.312.5553.0	10	
	Color: blue	TWC 1-2,5 D2./E. BLAU	07.312.5553.6	10	TWC 1-2,5 D2./E. BLAU	07.312.5553.6	10	
5. Jumper bar, insulated	2pole	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 4-2	Z7.261.1227.0	10	
	3pole	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 4-3	Z7.261.1327.0	10	
	4pole	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 4-4	Z7.261.1427.0	10	
	5pole	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 4-5	Z7.261.1527.0	10	
	6pole	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 4-6	Z7.261.1627.0	10	
	7pole	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 4-7	Z7.261.1727.0	20	
	8pole	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 4-8	Z7.261.1827.0	20	
	9pole	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 4-9	Z7.261.1927.0	20	
	10pole	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 4-10	Z7.261.2027.0	20	
6. Cover w. warning symbol over 4 blocks		ADC 1 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10	
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10	
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	
				**300 V for use group C 600 V for use group D, E				
				**300 V for use group C 600 V for use group D, E				
				* CL I, ZN1, AExe II				
				* CL I, ZN1, AExe II				
Marking accessories also see page 178-179 and 250-251				**CL I, ZN1, Exe II				

IDC function blocks, type WKC



WKC 2,5 E/35...

fine stranded solid V A

1 – 2.5 mm² 1 – 2.5 mm²

No. 18-14 AWG

No. 16-14 AWG

6 mm 2.5 mm²

The double-tier block is available upon request as function block for most different connection tasks.

EN 60 947-7-1
UL ratings
CSA ratings
Width
Approvals

Rated cross section

Examples of functions

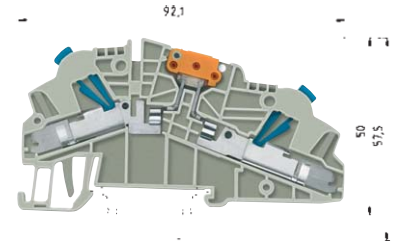
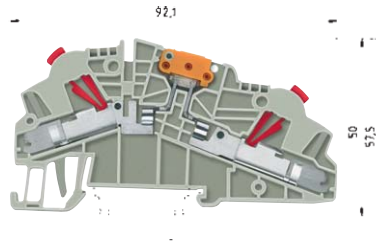
	Type	Part no.	Std. pack
Double-tier block			
Color: red	WKC 2,5 E/35...	56.303.xx53.5	
Color: orange	WKC 2,5 E/35...	56.303.xx53.9	
Accessories			
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0 100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0 100
3. End plate	Color: gray	APC 1-2,5 D2./E.	07.312.5453.0 10
	Color: blue		
	Color: green		
4. Partition plate	Color: gray	TWC 1-2,5 D2./E.	07.312.5553.0 10
	Color: blue	TWC 1-2,5 D2./E. BLAU	07.312.5553.6 10
5. Jumper bar, insulated	2pole	IVB WKF 4-2	Z7.261.1227.0 10
	3pole	IVB WKF 4-3	Z7.261.1327.0 10
	4pole	IVB WKF 4-4	Z7.261.1427.0 10
	5pole	IVB WKF 4-5	Z7.261.1527.0 10
	6pole	IVB WKF 4-6	Z7.261.1627.0 10
	7pole	IVB WKF 4-7	Z7.261.1727.0 20
	8pole	IVB WKF 4-8	Z7.261.1827.0 20
	9pole	IVB WKF 4-9	Z7.261.1927.0 20
	10pole	IVB WKF 4-10	Z7.261.2027.0 20
6. Cover w. warning symbol over 4 blocks		ADC 2,5 GELB	04.344.0353.8 10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0 10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0 5

56.303.7553.9		
56.303.7553.5		
56.303.7153.5		
56.303.7153.9		
56.303.8053.9		I = 1 A U = 1000 V
56.303.8253.5		I = 1 A U = 1000 V
56.303.7953.5		I = 1 A U = 1000 V
56.303.8353.5		I = 1 A U = 1000 V
56.303.7453.9		R = 4,7 KΩ P = 0,5 W U = 24 V DC
56.303.7253.5		R = 4,7 KΩ P = 0,5 W U = 24 V DC
56.303.7353.5		R = 680 KΩ P = 0,25 W U = 100-500 V

IDC knife edge disconnect block edipecomponents.com type WKC

taris

The disconnect knife of the WKC TKM series swings in an out on a pivot. The distinctive color of the disconnect lever signals the open state. The conductor can be terminated with the lever in the open or closed position. Built-in test points are located on both sides of the terminal block.



WKC 1 TKM/35

fine stranded	solid	V	A
0.2 – 1 mm ²	0.2 – 1 mm ²	800 V/8 kV/3	13.5
No. 30-18 AWG		600 V	13
No. 24-18 AWG		300/600 V*	13
Width	Rated cross section	6 mm	1 mm ²

WKC 2,5 TKM/35

fine stranded	solid	V	A
1 – 2.5 mm ²	1 – 2.5 mm ²	800 V/8 kV/3	20
No. 18-14 AWG		600 V	22
No. 16-14 AWG		300/600 V*	20
Width	Rated cross section	6 mm	2.5 mm ²

EN 60 947-7-1

UL ratings

CSA ratings

Width

Approvals

Rated cross section

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Knife edge disconnect block	Color: gray	WKC 1 TKM/35	56.301.2053.0	50	WKC 2,5 TKM/35	56.303.2053.0	50
Knife edge disconnect block	Color: blue	WKC 1 TKM/35 BLAU	56.301.2053.6	50	WKC 2,5 TKM/35 BLAU	56.303.2053.6	50
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APC 1-2,5 D1./TK.	07.312.5253.0	10	APC 1-2,5 D1./TK.	07.312.5253.0	10
	Color: blue	APC 1-2,5 D1./TK.BLAU	07.312.5253.6	10	APC 1-2,5 D1./TK.BLAU	07.312.5253.6	10
	Color: green						
4. Partition plate	Color: gray	TWC 1-2,5 D1.	07.312.5353.0	10	TWC 1-2,5 D1.	07.312.5353.0	10
	Color: blue	TWC 1-2,5 D1. BLAU	07.312.5353.6	10	TWC 1-2,5 D1. BLAU	07.312.5353.6	10
5. Jumper bar, insulated	2pole	IVB WKF 4-2	Z7.261.1227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
	3pole	IVB WKF 4-3	Z7.261.1327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 4-4	Z7.261.1427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 4-5	Z7.261.1527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 4-6	Z7.261.1627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 4-7	Z7.261.1727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 4-8	Z7.261.1827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 4-9	Z7.261.1927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole	IVB WKF 4-10	Z7.261.2027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol over 4 blocks		ADC 2,5 GELB	04.344.0353.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
		*300 V for use group C			*300 V for use group C		
		*600 V for use group D, E			*600 V for use group D, E		
Marking accessories also see page 178-179 and 250-251							

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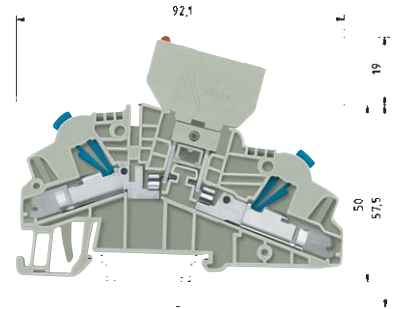
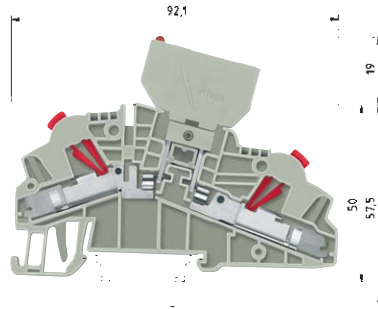
IDC disconnect block, type WKC

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THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Fused plug:

Nominal voltage: 250 V
 Nominal current: VDE 0820 T2/IEC 127-2 with a leakage loss of 1.6W.
 – 6.3 A for single blocks
 – 4 A for blocks directly side by side
 Indicator (24 V): red light
 Power consumption 10.3 mA
 Indicator (220 V): red light
 Power consumption: 0.3 mA



*) The power load is determined by the built-in fuse.
 The voltage range is determined by the built-in LED.

WKC 1 TKG/35 with fuse holder

fine stranded	solid	V	A
0.2 – 1 mm ²	0.2 – 1 mm ²	800 V/8 kV/3	*
No. 30-18 AWG		600 V***	6.3***
No. 24-18 AWG		300 V	6.3
Width	Rated cross section	6 mm	1 mm ²



WKC 2.5 TKG/35 with fuse holder

fine stranded	solid	V	A
1 – 2.5 mm ²	1 – 2.5 mm ²	800 V/8 kV/3	*
No. 18-14 AWG		600 V***	6.3***
No. 16-14 AWG		300 V	6.3
Width	Rated cross section	6 mm	2.5 mm ²



EN 60 947-7-1

UL ratings

CSA ratings

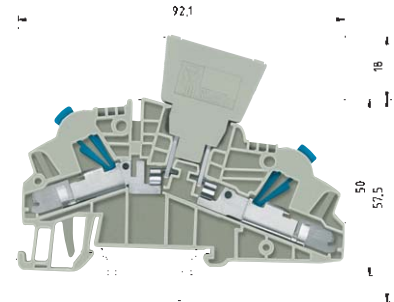
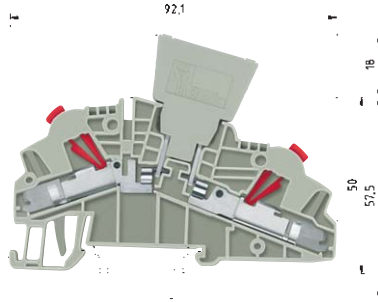
Width

Rated cross section

Approvals

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Disconnect block	Color: gray	WKC 1 TKG/35	56.301.4053.0	50	WKC 2,5 TKG/35	56.303.4053.0	50
Fuse holder for fuse 5 x 20	Color: gray	Si ST	Z1.299.4055.0	10	Si ST	Z1.299.4055.0	10
Fuse holder with indicator (24 V)	Color: gray	Si ST LED	Z1.299.4155.0	10	Si ST LED	Z1.299.4155.0	10
Fuse holder with indicator (220 V)	Color: gray	Si ST GL	Z1.299.4255.0	10	Si ST GL	Z1.299.4255.0	10
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APC 1-2,5 D1./TK.	07.312.5253.0	10	APC 1-2,5 D1./TK.	07.312.5253.0	10
	Color: blue						
	Color: green						
4. Partition plate	Color: gray	TWC 1-2,5 D1.	07.312.5353.0	10	TWC 1-2,5 D1.	07.312.5353.0	10
	Color: blue						
5. Jumper bar,	2pole	IVB WKF 4-2	Z7.261.1227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
insulated	3pole	IVB WKF 4-3	Z7.261.1327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 4-4	Z7.261.1427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 4-5	Z7.261.1527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 4-6	Z7.261.1627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 4-7	Z7.261.1727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 4-8	Z7.261.1827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 4-9	Z7.261.1927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole	IVB WKF 4-10	Z7.261.2027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol over 4 blocks		ADC 2,5 GELB	04.344.0353.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
Marking accessories also see page 178-179 and 250-251							

IDC disconnect block, type WKC



***) 300 V for use Group C
600 V for use Group B, D per UL 1059
Group D, E per CSA C 22.2

***) The power load is determined by the installed component
Periodic peak voltage 1000 V
Direction Anode Cathode¹⁾
of the diode: Cathode Anode²⁾

WKC 1 TKG/35 with diode plug

fine stranded	solid	V	A
0.2 – 1 mm ²	0.2 – 1 mm ²	800 V/8 kV/3	**
No. 30-18 AWG		300/600 V***	**
No. 24-18 AWG		300/600 V	**
6 mm			1 mm ²



WKC 2,5 TKG/35 with diode plug

fine stranded	solid	V	A
1 – 2.5 mm ²	1 – 2.5 mm ²	800 V/8 kV/3	**
No. 18-14 AWG		300/600 V***	**
No. 16-14 AWG		300/600 V	**
6 mm			2.5 mm ²



EN 60 947-7-1

UL ratings

CSA ratings

Width

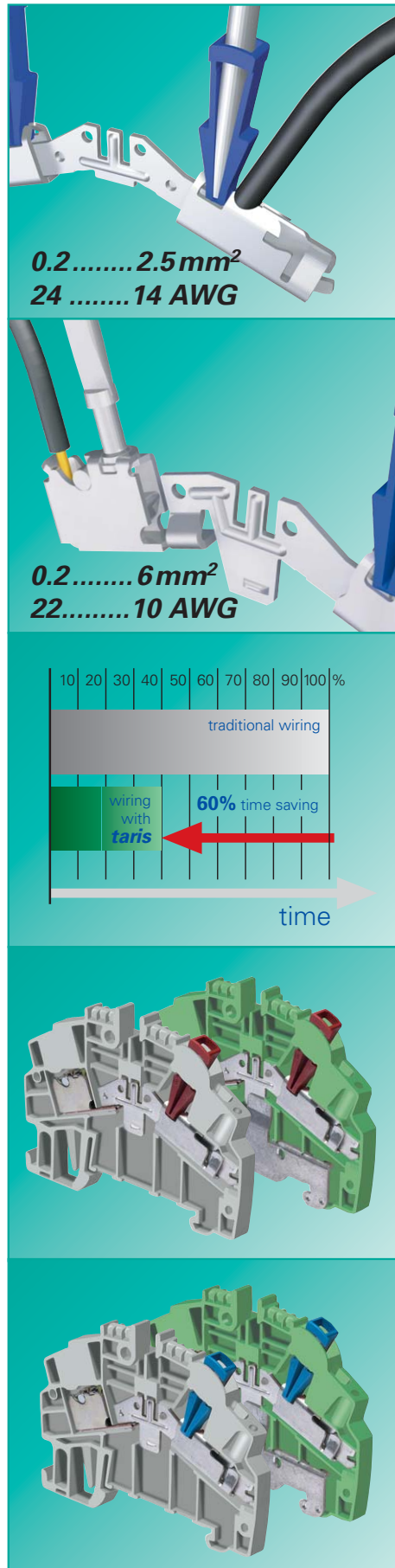
Rated cross section

Approvals

Disconnect block			Type	Part no.	Std. pack	Disconnect block			Type	Part no.	Std. pack
Disconnect block	Color: gray		WKC 1 TKG/35	56.301.4053.0	50	Disconnect block	Color: gray		WKC 2,5 TKG/35	56.303.4053.0	50
Diode plug – empty	J _{max} = 10 A Color: gray		DIST ...	Z1.299.3053.0		Diode plug – empty	J _{max} = 10 A Color: gray		DIST ...	Z1.299.3053.0	
Diode plug – diode	J _{max} = 1 A Color: gray		DIST-1 N 4007-1 ¹⁾	Z1.299.3155.0	10	Diode plug – diode	J _{max} = 1 A Color: gray		DIST-1 N 4007-1 ¹⁾	Z1.299.3155.0	10
Diode plug – diode	J _{max} = 1 A Color: gray		DIST-1 N 4007-2 ²⁾	Z1.299.3355.0	10	Diode plug – diode	J _{max} = 1 A Color: gray		DIST-1 N 4007-2 ²⁾	Z1.299.3355.0	10
Diode plug with jumper	J _{max} = 10 A Color: gray		DIST-D	Z1.299.3255.0	10	Diode plug with jumper	J _{max} = 10 A Color: gray		DIST-D	Z1.299.3255.0	10
Accessories						Accessories					
1. Mounting rail 35, 7.5 mm high	L = 2 m		35 x 27 x 7,5 EN 60715	98.300.0000.0	1	1. Mounting rail 35, 7.5 mm high	L = 2 m		35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m		35 x 24 x 15 EN 60715	98.360.0000.0	1	Mounting rail 35, 15 mm high	L = 2 m		35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide		9708/2 S 35	Z5.522.8553.0	100	2. End clamp for TS 35	8 mm wide		9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide		WEF 1/35	Z5.523.9353.0	100	End clamp for TS 35, screwless	8 mm wide		WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray		APC 1-2,5 D1./TK.	07.312.5253.0	10	3. End plate	Color: gray		APC 1-2,5 D1./TK.	07.312.5253.0	10
	Color: blue						Color: blue				
	Color: green						Color: green				
4. Partition plate	Color: gray		TWC 1-2,5 D1.	07.312.5353.0	10	4. Partition plate	Color: gray		TWC 1-2,5 D1.	07.312.5353.0	10
	Color: blue						Color: blue				
5. Jumper bar,	2pole		IVB WKF 4-2	Z7.261.1227.0	10	5. Jumper bar,	2pole		IVB WKF 4-2	Z7.261.1227.0	10
insulated	3pole		IVB WKF 4-3	Z7.261.1327.0	10	insulated	3pole		IVB WKF 4-3	Z7.261.1327.0	10
	4pole		IVB WKF 4-4	Z7.261.1427.0	10		4pole		IVB WKF 4-4	Z7.261.1427.0	10
	5pole		IVB WKF 4-5	Z7.261.1527.0	10		5pole		IVB WKF 4-5	Z7.261.1527.0	10
	6pole		IVB WKF 4-6	Z7.261.1627.0	10		6pole		IVB WKF 4-6	Z7.261.1627.0	10
	7pole		IVB WKF 4-7	Z7.261.1727.0	20		7pole		IVB WKF 4-7	Z7.261.1727.0	20
	8pole		IVB WKF 4-8	Z7.261.1827.0	20		8pole		IVB WKF 4-8	Z7.261.1827.0	20
	9pole		IVB WKF 4-9	Z7.261.1927.0	20		9pole		IVB WKF 4-9	Z7.261.1927.0	20
	10pole		IVB WKF 4-10	Z7.261.2027.0	20		10pole		IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol over 4 blocks			ADC 2,5 GELB	04.344.0353.8	10	6. Cover w. warning symbol over 4 blocks			ADC 2,5 GELB	04.344.0353.8	10
7. Test plug			WK 2,5 ST 2/2,3	Z5.553.2921.0	10	7. Test plug			WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated			DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	8. Screw driver, uninsulated			DIN 5264 B 0,6 x 3,5	06.502.4000.0	5

Hybrid DIN rail mount terminal blocks with IDC and screw technology, type WKC...S/C

taris HYBRID



With **taris** HYBRID all the benefits of using IDC technology can be realized for factory wiring. While, the field side can be terminated with familiar screw technology.

taris HYBRID offers...

... for factory wiring

IDC technology

easy of use

reduced wiring times

compact design

Screwdriver guide

... for field wiring

Screw technology

TOP entry system

Wide range of Conductor Types

Terminal variations

Application advantages.

→ **No special tools required**

→ **No stripping necessary**

→ **Reduces panel space**

→ **Indicates open or closed state of the contact**

→ **Well known termination technology**

→ **Wire and screwdriver entry in same plane**

→ **Ease of wiring in small confined spaces**
Use of any conductor insulation type

→ feed through and ground

→ identification in the type description

C = IDC technology

S = screw connection

→ Indication of the position

WKC 1... Red actuator

WKC 2.5... Blue actuator*

WKC 1 S/C..

solid/stranded copper

stranded copper

solid copper

stranded copper with ferrules

torque specification

→ Connection and wire gauge

C = 0.2 – 1 mm² / AWG 24-18

S = 0.5 – 2.5 mm² / AWG 22-12

S = 0.5 – 4 mm² / AWG 22-12

S = 0.5 – 2.5 mm² / AWG 22-12

S = 8 lb. - in/0.6 Nm (M2.5)

WKC 2.5 S/C..

solid/stranded copper

stranded copper

solid copper

stranded copper with ferrules

torque specification

→ Connection and wire gauge

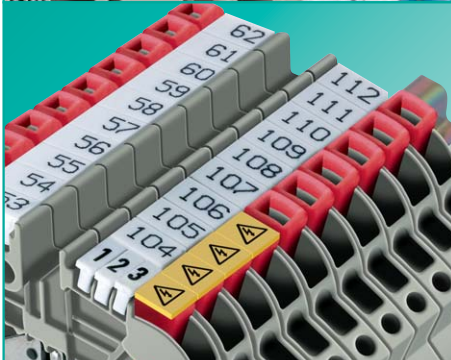
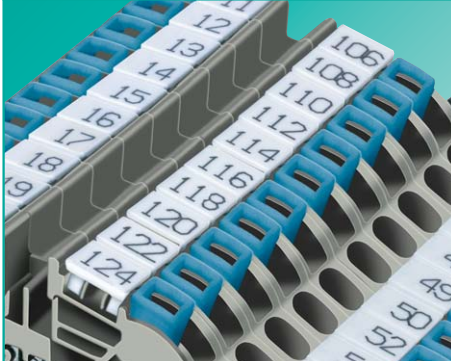
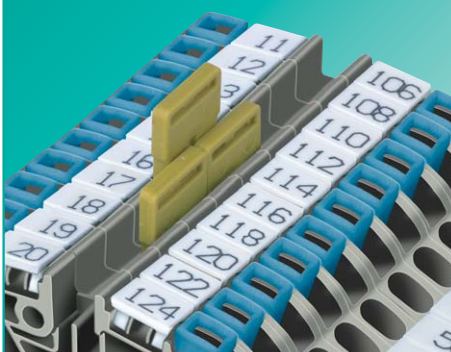
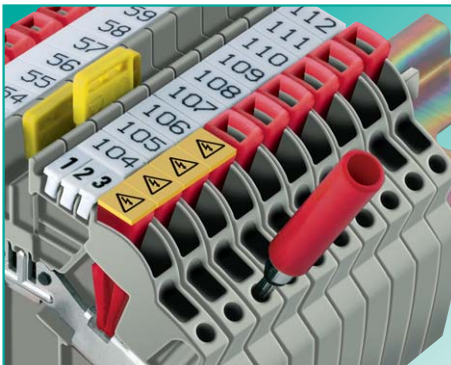
C = 1 – 2.5 mm² / AWG 16-14

S = 0.5 – 4 mm² / AWG 22-10

S = 0.5 – 6 mm² / AWG 22-10

S = 0.5 – 4 mm² / AWG 22-10

S = 8 lb. - in/0.7 Nm (M3)



Test plug

- taris** offers testing for all terminals, without removing any of the wiring
- Built-in test points at each termination point for use with 2.3 mm diameter test plugs
- Modular test plug modules available on pages 176, 177**

Jumper bars

- The insulated push-in jumper bars, IVB WKF... are completely touch safe
- No partition plate is required between jumpered terminals of different potential
- The IVB WKF... jumper bars are rated for the same current as the terminal block

Marking capability

- Single marking tags
- Marking tag strips (10 tags per strip) to rapidly identify the terminals and circuitry
- Tear-off marking strip for marking up to 3 digits per terminal block
- Marking facility is down the center so that the marking tag is not covered by the conductor.

Cover with warning symbol

- Over with warning symbol **ADC** to snap on to blocks which remain live after the mains have been switched off (VDE 0113)
- Cover can only be removed with a screwdriver

DQS certificates for all products

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

- Metal parts:
 - special alloys and surface treatments provide low contact resistance and high corrosion resistance:
 - clamping body made of tin-plated copper
 - current carrying bar made of tin-plated copper
 - grounding foot - tin-plated copper alloy
- Insulating material:
 - Polyamide has excellent electrical, chemical and mechanical properties
 - Insulating housings: Polyamide 66/6
 - Tracking current resistance: CTI 600
 - Flammability class: UL 94-V0
 - (also see section **facts & DATA**)

Our **wieplan** software helps to plan your own terminal block assembly (see page 10/11).

Various German and international approvals are available for feed-through terminal blocks. They are indicated in detail on the corresponding pages. The feed-through blocks of series WK/WKN are approved for the increased-safety type of protection EEx "e" in accordance to DIN EN 50019 / VDE 0170/0171 part 6 where indicated. No type test is required for the EEx "i" type of protection.

Note

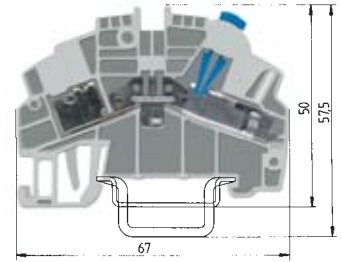
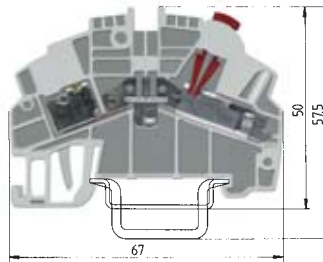
The information regarding cross-sectional areas and connection types pertains to wires without ferrules. Ferrules are not necessary for secure connection.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

A detailed description of technical data, the standards requirements, and the application conditions can be found in catalog section **facts & DATA**.

Hybrid feed-through terminals onlinecomponents.com with IDC and screw technology, type **WKC...S/C**

taris HYBRID



Clamping point "S" = screw technology
Clamping point "C" = IDC technology

Wire strip length applies to the screw terminal only

WKC 1 S/C/35

fine stranded	solid	V	A
0.21 – 1 mm ²	0.21 – 1 mm ²	800 V/8 kV/3	13.5
"S" 22-12 AWG / "C" 24-18 AWG 600V	"S" 22-12 AWG / "C" 24-18 AWG 600V		13
			13
Wire strip length		5 mm	10mm
		pending	

WKC 2.5 S/C/35

fine stranded	solid	V	A
1 – 2.5 mm ²	1 – 2.5 mm ²	800 V/8 kV/3	24
"S" 22-10 AWG / "C" 18-14 AWG 600V	"S" 22-10 AWG / "C" 18-14 AWG 600V		22
			20
Wire strip length		6 mm	10mm
		pending	

EN 60 947-7-1

UL ratings

CSA ratings

Width

Approvals

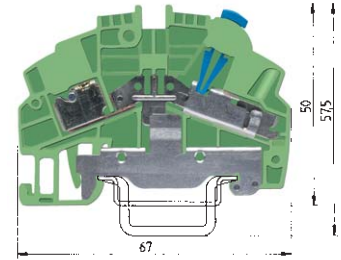
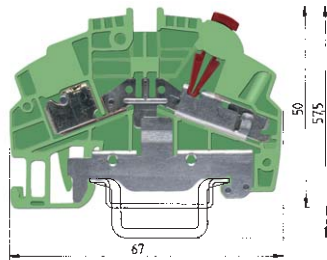
Wire strip length

		Type	Part no.	Std. pack	Type	Part no.	Std. pack	
Feed-through terminal	Color: gray	WKC 1 S/C/35	56.351.0053.0		WKC 2,5 S/C/35	56.353.0053.0		
Feed-through terminal	Color: blue	WKC 1 S/C/35 BLAU	56.351.0053.6		WKC 2,5 S/C/35	56.353.0053.6		
Ground terminal	Color: green/yellow							
Accessories								
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	
2. End clamp for TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100	
3. End plate	1.5 mm wide	Color: gray	APC 1-2,5	07.312.5053.0	10	APC 1-2,5	07.312.5053.0	10
	1.5 mm wide	Color: blue	APC 1-2,5 BLAU	07.312.5053.6	10	APC 1-2,5 BLAU	07.312.5053.6	10
	1.5 mm wide	Color: green						
4. Partition plate	1.5 mm wide	Color: gray	TWC 1-2,5	07.312.5153.0	10	TWC 1-2,5	07.312.5153.0	10
	1.5 mm wide	Color: blue	TWC 1-2,5 BLAU	07.312.5153.6	10	TWC 1-2,5 BLAU	07.312.5153.6	10
5. Jumper bar,	2pole	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 4-2	Z7.261.1227.0	10	
insulated	3pole	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 4-3	Z7.261.1327.0	10	
	4pole	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 4-4	Z7.261.1427.0	10	
	5pole	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 4-5	Z7.261.1527.0	10	
	6pole	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 4-6	Z7.261.1627.0	10	
	7pole	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 4-7	Z7.261.1727.0	20	
	8pole	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 4-8	Z7.261.1827.0	20	
	9pole	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 4-9	Z7.261.1927.0	20	
	10pole	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 4-10	Z7.261.2027.0	20	
6. Cover w. warning symbol over 4 blocks								
	Clamping point „C“	ADC 1/4 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10	
	Clamping point „S“	ADF 2,5/4 GELB	04.343.6053.8	10	ADF 4/4 GELB	04.343.6153.8	10	
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10	
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	
Screw driver, uninsulated, MINI		DIN 5264 B 0,6 x 3,5 M	06.502.5000.0	10	DIN 5264 B 0,6 x 3,5 M	06.502.5000.0	10	
Marking accessories also see page 178-179 and 250-251								

Hybrid ground terminals with IDC and screw technology, type WKC...S/C

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Clamping point "S" = screw technology
Clamping point "C" = IDC technology

Wire strip length applies to the screw terminal only

EN 60 947-7-1

UL ratings

CSA ratings

Width

Approvals

Wire strip length

WKC 1 S/C/SL/35

fine stranded	solid	V	A
0,21 – 1 mm ²	0,21 – 1 mm ²	800 V/8 kV/3	13,5
"S" 22-12 AWG/	"C" 24-18 AWG	600V	13
"S" 22-12 AWG/	"C" 24-18 AWG	600V	13
5 mm		10mm	
pending			

WKC 2.5 S/C/35

fine stranded	solid	V	A
1 – 2,5 mm ²	1 – 2,5 mm ²	800 V/8 kV/3	24
"S" 22-10 AWG/	"C" 18-14 AWG	600V	22
"S" 22-10 AWG/	"C" 16-14 AWG	600V	20
6 mm		10mm	
pending			

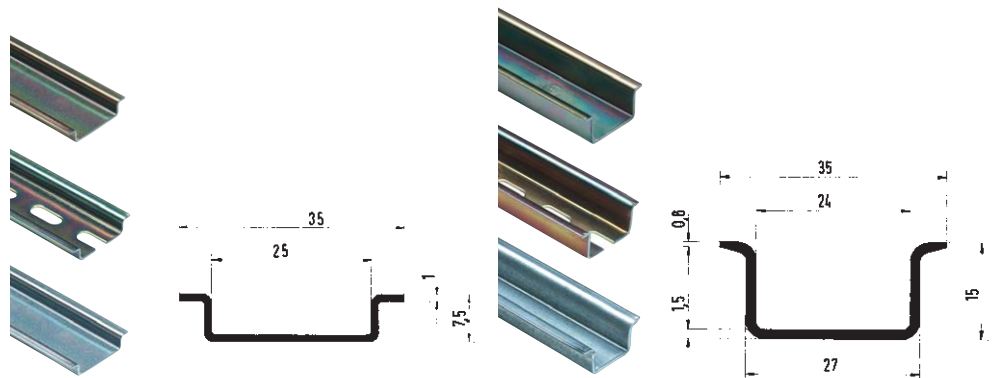
		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed-through terminal	Color: gray						
Feed-through terminal	Color: blue						
Ground terminal	Color: green/yellow	WKC 1 S/C/SL/35	56.351.9053.0		WKC 2,5 S/C/SL/35	56.353.9053.0	
Accessories							
1. Mounting rail 35, 7,5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	1.5 mm wide						
	1.5 mm wide						
	1.5 mm wide	APC 1-2,5 GRÜN	07.312.5053.7	10	APC 1-2,5 GRÜN	07.312.5053.7	10
4. Partition plate	1.5 mm wide						
	1.5 mm wide						
5. Jumper bar,	2pole						
insulated	3pole						
	4pole						
	5pole						
	6pole						
	7pole						
	8pole						
	9pole						
	10pole						
6. Cover w. warning symbol over 4 blocks							
	Clamping point „C“	ADC 1/4 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
	Clamping point „S“	ADF 2,5/4 GELB	04.343.6053.8	10	ADF 4/4 GELB	04.343.6153.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
Screw driver, uninsulated, MINI		DIN 5264 B 0,6 x 3,5 M	06.502.5000.0	10	DIN 5264 B 0,6 x 3,5 M	06.502.5000.0	10

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Accessories

DIN rail terminal blocks with IDC connection, type WKC

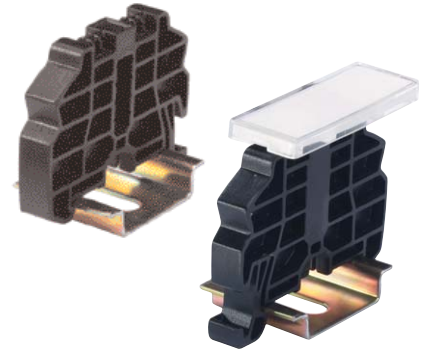
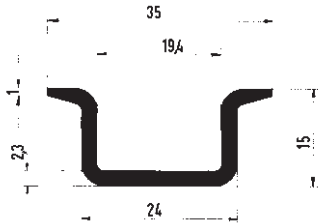
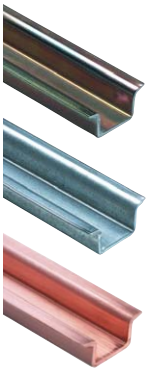
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Mounting rail 35 x 7,5
according to DIN EN 60715

Mounting rail 35 x 15
according to DIN EN 60715

Mounting rail	Type	Part no.	Std. pack	Type	Part no.	Std. pack
1. Steel, galv. zinc-plated, dichromated, unslotted L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 15 EN 60715	98.370.0000.0	1
Steel, galv. zinc-plated, dichromated, slotted L = 2 m	35 x 27 x 7,5 EN 60715 slotted	98.300.1000.0	1	35 x 27 x 15 EN 60715	98.370.1000.0	1
2. Steel, unplated unslotted L = 2 m	35 x 27 x 7,5 EN 60715 unslotted	98.300.0010.0				
Steel, unplated slotted L = 2 m						
3. Steel, high-temp. zinc-plated unslotted L = 2 m						
Steel, high-temp. zinc-plated slotted L = 2 m						
4. E copper unslotted L = 2 m						
E copper slotted L = 2 m						
End clamp						
5. End clamp with screw for 35 mm rail 8 mm wide						
6. End clamp with screw for 35 mm rail						
with marking plate 8/17.5 mm wide						
7. End clamp, screwless, for 35 mm rail 8 mm wide						
8. End clamp, screwless, for 35 mm rail						
with marking plate 8/17,5 mm wide						
for terminal rails						
9. Bus bar holder 8 mm wide						
Busbar support, with screw 8 mm						
10. Clamping screw for mounting rail						
11. Optional label carrier						
12. Paper Markers in perforated sheet form						
(1 sheet = 100 Marking tags)						



Mounting rail 35 x 15 according to DIN EN 60715

Type	Part no.	Std. pack
35 x 27 x 15 EN 60715	98.360.0000.0	1
35 x 27 x 15 EN 60715 ZN	98.360.0004.0	1
35 x 27 x 15 EN 60715 CU	98.380.0000.0	10

End clamp for TS 35 fastening with screw

Type	Part no.	Std. pack
9708/2 S 35	Z5.522.8553.0	100
9708/2 BS/35	69.920.0553.0	100
	04.019.0289.0	10

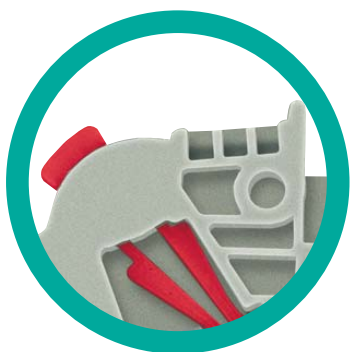
End clamp for TS 35 fastening without screw

Type	Part no.	Std. pack	
WEF 1/35	Z5.523.9353.0	100	
WEF 1 BS/35	69.920.1053.0	100	
	WKIF SH/E/35	Z1.108.8453.0	10
		69.920.1153.0	
		05.091.0200.0	
	BSIR	Z4.243.8453.0	
		04.019.0289.0	10

Marking accessories for IDC DIN rail terminal blocks

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Material:
Polyamide 66/6
Color: black figures on white background

DIN rail terminal blocks with IDC connection, type WKC, accept marking tags on both sides on top of the block in a 3-chamber slot. It can be either 3 single number tags from the tear-off marking strip, or single tags, or marking strips.

- Marking strips**, marked and unmarked, made from Polyamide 66/6, suitable for 10 blocks in a row.
Marking 1-10, 11-20 etc. up to 991-999.
Type 9705 A/5/10 (5 mm spacing) for terminal blocks type WKC 1...
Type 9705 A/6/10 (6 mm spacing) for terminal blocks type WKC 2.5...
- Tear-off marking strip** with 10 marking tags made of Polyamide 66/6, white, marked and unmarked.
This marking system considerably reduces the marking time of terminal block assemblies. For numerical marking of terminal block assemblies you require only 1 warehouse position. As the time used for picking and attaching the tags is reduced, and as stockkeeping is low and the prices extremely favorable, enormous cost savings are the result from using these tear-off marking strips.
Type 9704 A... (see page 180)
- Single marking tag** made of Polyamide 66/6, white, marked and unmarked.
Type 9705 A...
- Marking plates** made of Polyamide 66/6 consisting of 11 marking strips.
Type 9705 A/5/10 (5 mm spacing) for terminal blocks type WKC 1...
Type 9705 A/6/10 (6 mm spacing) for terminal blocks type WKC 2.5...

Bezeichnungscomputer im Systemkoffer

Type	Part no.	Std. pack
Marking computer for markingcards		
marcom 2	95.502.0000.0	1
Description		
<p>wieland marcom 2 is a freely programmable marking computer for marking tags of DIN rail terminal blocks, pluggable connectors, cables and switching devices. The program technology with flexible menu control produces excellent results requiring only few input. Entry of a sequence of figures is automatically limited by the parameters of the selected marking tags, making wrong print-out impossible. Repeated operations can be saved as so-called JOBS and are therefore immediately available for print-out without further entries. The computer disposes of a large number of fonts, with numerical, alphanumerical (small/capital letters) and symbolic characters.</p> <p>marcom 2 is powered by an attached power supply. For a mains-independent operation, the marcom 2 Power Pack is available.</p>		
Marking tag plates for marcom 2		
9705 A/5/10/11 marcom	Z4.242.5053.0	10
9705 AL/5/10/6 marcom	Z4.242.5153.0	10
9705 A/6/10/11 marcom	Z4.242.6053.0	10
9705 AL/6/10/6 marcom	Z4.242.6353.0	10
9705 A/8/10/7 marcom	Z4.242.8053.0	10

Marking strips and marking plates, marked

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1 mm²/5 mm Width

2.5 mm²/6 mm Width

Marking strips, unmarked			Marking strips, unmarked		
9705 A/5/10	04.242.5053.0	25	9705 A/6/10	04.242.6053.0	25
Marking strips, marked			Marking strips, marked		
9705 A/5/10 B			9705 A/6/10 B		
1 - 10	04.845.0153.0	25	1 - 10	04.846.0153.0	25
11 - 20	04.845.0253.0	25	11 - 20	04.846.0253.0	25
21 - 30	04.845.0353.0	25	21 - 30	04.846.0353.0	25
31 - 40	04.845.0453.0	25	31 - 40	04.846.0453.0	25
41 - 50	04.845.0553.0	25	41 - 50	04.846.0553.0	25
51 - 60	04.845.0653.0	25	51 - 60	04.846.0653.0	25
61 - 70	04.845.0753.0	25	61 - 70	04.846.0753.0	25
71 - 80	04.845.0853.0	25	71 - 80	04.846.0853.0	25
81 - 90	04.845.0953.0	25	81 - 90	04.846.0953.0	25
91 - 100	04.845.1053.0	25	91 - 100	04.846.1053.0	25
⊕ (10 x)	04.855.0053.0	25	⊕ (10 x)	04.856.0053.0	25
± (10 x)	04.855.0153.0	25	± (10 x)	04.856.0153.0	25
+	04.855.0253.0	25	+	04.856.0253.0	25
-	04.855.0353.0	25	-	04.856.0353.0	25
L1 (10 x)	04.855.0453.0	25	L1 (10 x)	04.856.0453.0	25
L2 (10 x)	04.855.0553.0	25	L2 (10 x)	04.856.0553.0	25
L3 (10 x)	04.855.0653.0	25	L3 (10 x)	04.856.0653.0	25
PE (10 x)	04.855.0753.0	25	PE (10 x)	04.856.0753.0	25
SL (10 x)	04.855.3153.0	25	SL (10 x)	04.856.3153.0	25
N (10 x)	04.855.3253.0	25	N (10 x)	04.856.3253.0	25
F1 (10 x)	04.855.0953.0	25	F1 (10 x)	04.856.0953.0	25
F2 (10 x)	04.855.1053.0	25	F2 (10 x)	04.856.1053.0	25
L1, L2, L3, N, PE	(2 x) 04.855.0853.0	25	L1, L2, L3, N, PE	(2 x) 04.856.0853.0	25
Marking plates, unmarked			Marking plates, unmarked		
9705 A/5/10/11	Z4.242.5053.0	10	9705 A/6/10/11	Z4.242.6053.0	10
custom marking upon request			custom marking upon request		





Appliance Terminals

appliance TERMINALS

All Wieland Components which require **CE** general certification are **CE** certified, and identified with the **CE** logo.

Terminal strips

Lighting and appliance terminals

Plug/screw terminal strips
Terminal box
Distribution terminal strips

Mains connectors for appliance wiring

appliance

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	<p>KL 16 PA compact Page 256</p> <p>Europa terminal strips Page 257</p> <ul style="list-style-type: none"> • 1.5 mm² to 16 mm² Page 258 • Male/female terminal strips Page 258 • Marking accessories Page 260
	<p>1 to 4pole Page 261</p> <p>Modular terminals Page 263</p>
	<p>2 to 5pole Page 264</p> <p>2 to 12pole Page 265</p> <p>Plug/screw KL 17 N Page 267</p>
	<p>KL 58 Page 268</p> <ul style="list-style-type: none"> • 6 – 10 mm² Page 268 • 3, 5, 6pole Page 268 • Screw/screw connections Page 267 • Screw/tab connections Page 267

Unbreakable terminal strips for narrow spaces

KL 16 PA

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Material:

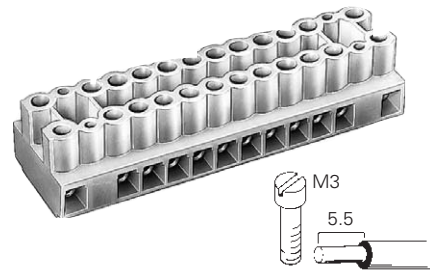
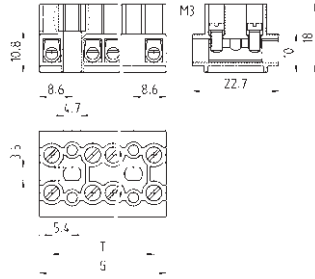
Insulating housing: Polyamide 6 ivory
Hardness test at 125 °C
Glow-wire test with 850 °C
Tracking test PTI 250
Clamping body: nickel-plated brass
Wire protection: phosphor bronze
Clamping screws: steel, zinc-plated and dichromated

These terminal strips are designed for use under extreme conditions accord. to EN 60335-1/ DIN VDE 0700 T1.

Terminals with wire protection DS are fitted with a wire protection guard inside the clamping body, which prevents damage to the connected wire.

The clamping screws are secured against loosening and provide vibration-proof connections.

DIN VDE 0110 (fixed position)
UL ratings
CSA ratings
EN 60335-1/DIN VDE 0700 T1
Approvals



Type KL 16 PA 2.5 mm² without wire protection

500 V/6 kV/3
No. 22-12 AWG 250 V 20 A
No. 22-12 AWG 300 V 25 A
AC 400 V; 10 A; 1 – 1.5 mm²/1 – 2.5 mm²
UL CE

Type KL 16 PA 2.5 mm² with wire protection (DS)

500 V/6 kV/3
No. 22-12 AWG 250 V 20 A
No. 22-12 AWG 300 V 25 A
AC 400 V; 10 A; 1 – 1.5 mm²/1 – 2.5 mm²
UL CE

	Poles	G	T	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	4	33.4	27	KL 16/4 PA	29.400.0453.0	65	KL 16/4 PA DS	29.401.0453.0	65
	6	44.2	37.8	KL 16/6 PA	29.400.0653.0	50	KL 16/6 PA DS	29.401.0653.0	50
	8	55	48.6	KL 16/8 PA	29.400.0853.0	40	KL 16/8 PA DS	29.401.0853.0	40
	12	76.6	70	KL 16/12 PA	29.400.1253.0	30	KL 16/12 PA DS	29.401.1253.0	30
	16	98.2	91.8	KL 16/16 PA	29.400.1653.0	20	KL 16/16 PA DS	29.401.1653.0	20
	20	119.8	113.4	KL 16/20 PA	29.400.2053.0	20	KL 16/20 PA DS	29.401.2053.0	20
Accessories									
Marking plate from white PVC, marking surface on both sides and four plastic pins from Polyamide to fasten the marking plate	4 6 8 12 16 20	33.4 44.2 55 76.6 98.2 119.8	27 37.8 48.6 70 91.8 113.4	BZKL 16/4 Z BZKL 16/6 Z BZKL 16/8 Z BZKL 16/12 Z BZKL 16/16 Z BZKL 16/20 Z	Z4.102.0480.0 Z4.102.0680.0 Z4.102.0880.0 Z4.102.1280.0 Z4.102.1680.0 Z4.102.2080.0	100 100 100 100 100 100	BZKL 16/4 Z BZKL 16/6 Z BZKL 16/8 Z BZKL 16/12 Z BZKL 16/16 Z BZKL 16/20 Z	Z4.102.0480.0 Z4.102.0680.0 Z4.102.0880.0 Z4.102.1280.0 Z4.102.1680.0 Z4.102.2080.0	100 100 100 100 100 100
Fastening pins					05.592.1152.0			05.592.1152.0	
Marked marking plates, 4 to 20pole	4 to 20			BZKL 16/4 ZB to BZKL 16/20 ZB	Z4.802.0480.0 to Z4.802.2080.0	100 to 100	BZKL 16/4 ZB to BZKL 16/20 ZB	Z4.802.0480.0 to Z4.802.2080.0	100 to 100
Jumper bars of E-Cu	2 80	7.4 596			07.250.0027.0 07.250.1627.0	10 10		07.250.0027.0 07.250.1627.0	10 10

Divisible Europa terminal strips

EUROPA

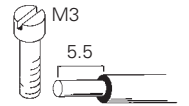
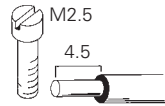
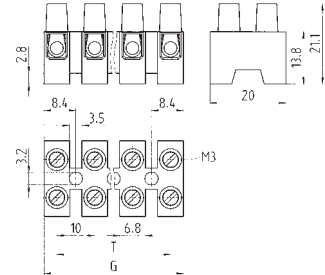
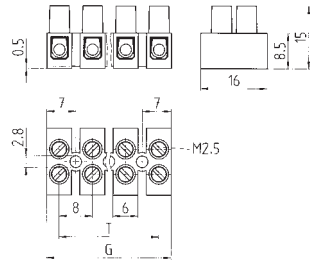
Material:

Insulating housing: Polyamide 6 ivory
 Hardness test at 125 °C Glow-wire test with 850 °C Tracking test PTI 250 Clamping body: nickel-plated brass Wire protection: phosphor bronze Clamping screws: steel, zinc-plated and dichromated

Permanent temperature 100 °C
 Permanent temperature 130 °C accord. to UL 746 B
 Tracking resistance accord. to DIN IEC 112 CTI > 600.

Terminals with wire protection DS are fitted with a wire protection guard inside the clamping body, which prevents damage to the connected wire. All parts are captive in the insulating housing.

The clamping screws are secured against loosening and provide vibration-proof connections. The terminal strips are supplied with the clamping screws in the "open"



Type 4 E

1.5 mm²

Type 6 EH

4 mm²

with DS: 1 mm²
0.75 – 1.5 mm²

690 V; 24 A;

with DS: up to 2.5 mm²/fine-stranded
1.0 – 2.5 mm²

EN 60998-1/2-1 (fixed position)

Approvals



	Poles	G	T	Type	Part no.	Std. pack	G	T	Type	Part no.	Std. pack
without wire protection	1	6	-	4 E/ 1	21.304.0153.0	5000	7	-	6 EH/ 1	21.312.0153.0	4000
	2	14	8	4 E/ 2	21.304.0253.0	2000	17	10	6 EH/ 2	21.312.0253.0	1500
	3	22	16	4 E/ 3	21.304.0353.0	2000	27	20	6 EH/ 3	21.312.0353.0	750
	4	30	24	4 E/ 4	21.304.0453.0	2000	37	30	6 EH/ 4	21.312.0453.0	1000
	5	38	32	4 E/ 5	21.304.0553.0	1000	47	40	6 EH/ 5	21.312.0553.0	500
	6	46	40	4 E/ 6	21.304.0653.0	1000	57	50	6 EH/ 6	21.312.0653.0	500
	7	54	48	4 E/ 7	21.304.0753.0	500	67	60	6 EH/ 7	21.312.0753.0	500
	8	62	56	4 E/ 8	21.304.0853.0	500	77	70	6 EH/ 8	21.312.0853.0	250
	9	70	64	4 E/ 9	21.304.0953.0	500	87	80	6 EH/ 9	21.312.0953.0	250
	10	78	72	4 E/10	21.304.1053.0	500	97	90	6 EH/10	21.312.1053.0	250
	11	86	80	4 E/11	21.304.1153.0	500	107	100	6 EH/11	21.312.1153.0	250
	12	94	88	4 E	21.304.1253.0	500	117	110	6 EH	21.312.1253.0	250
with wire protection (DS)	1	6	-	4 E/ 1 DS	21.305.0153.0	5000	7	-	6 EH/ 1 DS	21.313.0153.0	4000
	2	14	8	4 E/ 2 DS	21.305.0253.0	2000	17	10	6 EH/ 2 DS	21.313.0253.0	1500
	3	22	16	4 E/ 3 DS	21.305.0353.0	2000	27	20	6 EH/ 3 DS	21.313.0353.0	750
	4	30	24	4 E/ 4 DS	21.305.0453.0	2000	37	30	6 EH/ 4 DS	21.313.0453.0	1000
	5	38	32	4 E/ 5 DS	21.305.0553.0	1000	47	40	6 EH/ 5 DS	21.313.0553.0	500
	6	46	40	4 E/ 6 DS	21.305.0653.0	1000	57	50	6 EH/ 6 DS	21.313.0653.0	500
	7	54	48	4 E/ 7 DS	21.305.0753.0	500	67	60	6 EH/ 7 DS	21.313.0753.0	500
	8	62	56	4 E/ 8 DS	21.305.0853.0	500	77	70	6 EH/ 8 DS	21.313.0853.0	250
	9	70	64	4 E/ 9 DS	21.305.0953.0	500	87	80	6 EH/ 9 DS	21.313.0953.0	250
	10	78	72	4 E/10 DS	21.305.1053.0	500	97	90	6 EH/10 DS	21.313.1053.0	250
	11	86	80	4 E/11 DS	21.305.1153.0	500	107	100	6 EH/11 DS	21.313.1153.0	250
	12	94	88	4 E DS	21.305.1253.0	500	117	110	6 EH DS	21.313.1253.0	250
Accessories Insulating spacer from PVC for higher voltages (2 to 12pole available)											
					07.469.0280.0	100					
					07.469.1280.0	100					
					07.469.1380.0						

EUROPA

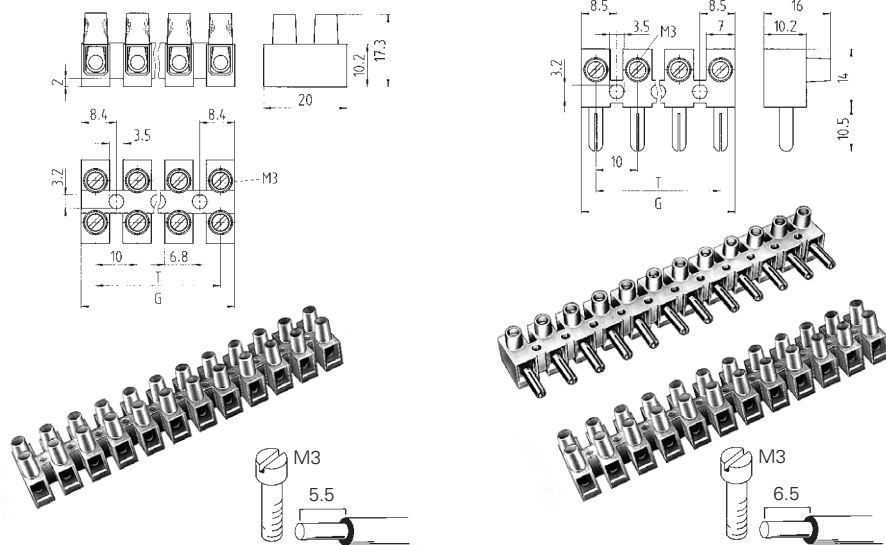
Material:

Insulating housing: Polyamide 6 ivory
Hardness test at 125 °C
Glow-wire test with 850 °C
Tracking test PTI 250
Clamping body: nickel-plated brass
Wire protection: phosphor bronze
Clamping screws: steel, zinc-plated and dichromated

Permanent temperature 100 °C
Permanent temperature 130 °C accord. to UL 746 B
Tracking resistance accord. to DIN IEC 112 CTI > 600.

Terminals with wire protection DS are fitted with a wire protection guard inside the clamping body, which prevents damage to the connected wire. All parts are captive in the insulating housing. The clamping screws are secured against loosening and provide vibration-proof connections. The terminal strips are supplied with the clamping screws in the "open" position.

EN 60998-1/-2-1 (fixed position)
EN60335-1/DIN VDE 0700 T1
Approvals



Type 6 E

4 mm²

with DS: up to 2.5 mm²/fine-stranded
400 V; 24 A;

Male terminal strip Type 6 ES

without wire protection

Female terminal strip Type 6 E

without wire protection

4 mm²

AC 400 V; 10 A; 1 – 1.5 mm²/1 – 2.5 mm²*)



		Poles	G	T	Type	Part no.	Std. pack	G	T	Type	Part no.	Std. pack																																								
without wire protection		1	7	-	6 E/ 1	21.310.0153.0	4000	7	-	6 ES/ 1	22.310.0153.0	100																																								
<p>UL ratings:</p> <table border="0"> <tr> <td>AWG no.</td> <td>20-12</td> <td>20 A</td> <td>(6 E)</td> </tr> <tr> <td></td> <td>22-14</td> <td>15 A</td> <td>(6 E DS)</td> </tr> <tr> <td></td> <td>22-12</td> <td>20 A</td> <td>(6 ES, 6 E)</td> </tr> <tr> <td colspan="4">Female terminal strip)</td> </tr> <tr> <td></td> <td>22-8</td> <td>40 A</td> <td>(10 E)</td> </tr> <tr> <td></td> <td>22-12</td> <td>20 A</td> <td>(10 E DS)</td> </tr> <tr> <td></td> <td>22-8</td> <td>50/65 A</td> <td>(16 E)-field/factory wiring</td> </tr> <tr> <td></td> <td>22-10</td> <td>30/40 A</td> <td>(16 E DS)-field/factory wiring</td> </tr> <tr> <td></td> <td>20-4</td> <td>70 A</td> <td>(20 E)</td> </tr> <tr> <td></td> <td>22-6</td> <td>65/75 A</td> <td>(20 E DS)-field/factory wiring</td> </tr> </table> <p>300 V (600 V with PVC insulating spacer)</p>		AWG no.	20-12	20 A	(6 E)		22-14	15 A	(6 E DS)		22-12	20 A	(6 ES, 6 E)	Female terminal strip)					22-8	40 A	(10 E)		22-12	20 A	(10 E DS)		22-8	50/65 A	(16 E)-field/factory wiring		22-10	30/40 A	(16 E DS)-field/factory wiring		20-4	70 A	(20 E)		22-6	65/75 A	(20 E DS)-field/factory wiring	2	17	10	6 E/ 2	21.310.0253.0	1500	17	10	6 ES/ 2	22.310.0253.0	100
		AWG no.	20-12	20 A	(6 E)																																															
			22-14	15 A	(6 E DS)																																															
			22-12	20 A	(6 ES, 6 E)																																															
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			22-8	50/65 A	(16 E)-field/factory wiring																																															
			22-10	30/40 A	(16 E DS)-field/factory wiring																																															
			20-4	70 A	(20 E)																																															
			22-6	65/75 A	(20 E DS)-field/factory wiring																																															
			3	27	20	6 E/ 3	21.310.0353.0	1500	27	20	6 ES/ 3	22.310.0353.0	100																																							
	4	37	30	6 E/ 4	21.310.0453.0	1000	37	30	6 ES/ 4	22.310.0453.0	100																																									
	5	47	40	6 E/ 5	21.310.0553.0	500	47	40	6 ES/ 5	22.310.0553.0	100																																									
	6	57	50	6 E/ 6	21.310.0653.0	500	57	50	6 ES/ 6	22.310.0653.0	100																																									
	7	67	60	6 E/ 7	21.310.0753.0	50	67	60	6 ES/ 7	22.310.0753.0	50																																									
	8	77	70	6 E/ 8	21.310.0853.0	50	77	70	6 ES/ 8	22.310.0853.0	50																																									
	9	87	80	6 E/ 9	21.310.0953.0	50	87	80	6 ES/ 9	22.310.0953.0	50																																									
	10	97	90	6 E/10	21.310.1053.0	50	97	90	6 ES/10	22.310.1053.0	50																																									
	12	117	110	6 E	21.310.1253.0	250	117	110	6 ES	22.310.1253.0	50																																									
with wire protection (DS)																																																				
<p>CSA ratings:</p> <table border="0"> <tr> <td>AWG no.</td> <td>22-14</td> <td>20 A</td> <td>(6 E, 6 E DS)</td> </tr> <tr> <td></td> <td>22-14</td> <td>20 A</td> <td>(6 ES, 6 E)</td> </tr> <tr> <td colspan="4">Female terminal strip)</td> </tr> <tr> <td></td> <td>22-12</td> <td>25 A</td> <td>(10 E, 10 E DS)</td> </tr> <tr> <td></td> <td>20-10</td> <td>40 A</td> <td>(16 E, 16 E DS)</td> </tr> <tr> <td></td> <td>18-8</td> <td>65 A</td> <td>(20 E, 20 E DS)</td> </tr> </table> <p>300 V (600 V with PVC insulating spacer) - with insulating spacer and fastening screws from insulating material 800 V 6 E (DS) - with insulating spacer and fastening screws from insulating material 1000 V 10 E (DS), 16 E (DS), 20 E (DS) - 1pole version (without own fastening device) no VDE approval 20 E, 20 EDS: 18-6 AWG, 65 A, 600 V - no spacer required</p>		AWG no.	22-14	20 A	(6 E, 6 E DS)		22-14	20 A	(6 ES, 6 E)	Female terminal strip)					22-12	25 A	(10 E, 10 E DS)		20-10	40 A	(16 E, 16 E DS)		18-8	65 A	(20 E, 20 E DS)	1	7	-	6 E/ 1 DS	21.311.0153.0	4000	7	-	6 E/ 1	99.261.3521.9	200																
		AWG no.	22-14	20 A	(6 E, 6 E DS)																																															
			22-14	20 A	(6 ES, 6 E)																																															
		Female terminal strip)																																																		
			22-12	25 A	(10 E, 10 E DS)																																															
			20-10	40 A	(16 E, 16 E DS)																																															
			18-8	65 A	(20 E, 20 E DS)																																															
			2	17	10	6 E/ 2 DS	21.311.0253.0	1500	17	10	6 E/ 2	99.262.3521.9	100																																							
			3	27	20	6 E/ 3 DS	21.311.0353.0	1500	27	20	6 E/ 3	99.263.3521.9	100																																							
			4	37	30	6 E/ 4 DS	21.311.0453.0	1000	37	30	6 E/ 4	99.264.3521.9	100																																							
			5	47	40	6 E/ 5 DS	21.311.0553.0	500	47	40	6 E/ 5	99.265.3521.9	500																																							
			6	57	50	6 E/ 6 DS	21.311.0653.0	500	57	50	6 E/ 6	99.266.3521.9	100																																							
	7	67	60	6 E/ 7 DS	21.311.0753.0	50	67	60	6 E/ 7	99.267.3521.9	50																																									
	8	77	70	6 E/ 8 DS	21.311.0853.0	50	77	70	6 E/ 8	99.268.3521.9	50																																									
	9	87	80	6 E/ 9 DS	21.311.0953.0	50	87	80	6 E/ 9	99.269.3521.9	50																																									
	10	97	90	6 E/10 DS	21.311.1053.0	50	97	90	6 E/10	99.270.3521.9	50																																									
	12	117	110	6 E DS	21.311.1253.0	250	117	110	6 E	99.272.3521.9	50																																									
Accessories																																																				
Jumper bars E-Cu																																																				
		2			VB 11/1/2	07.250.0227.0	100																																													
		3			VB 11/1/3	07.250.0327.0	100																																													
		6	52.8		VB 11/1/6	07.250.0627.0	50																																													
		12	112.8		VB 11/1/12	07.250.1027.0	50																																													
Insulating spacer PVC polycarbonate-yellow																																																				
	for higher voltages		1000 mm			1000.0	07.470.1380.0					1																																								
Wire guard Polycarbonat-yellow																																																				
		2 –	20.5		LH GE/2	07.470.2256.0	100																																													
		12	120		LH GE/12	07.470.3256.0	10																																													

*) flexible wire/rigid wire

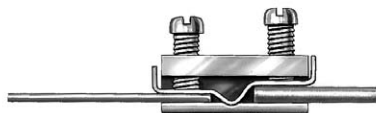
Marking accessories for divisible terminal strips

EUROPA

Material:

White, roughened plastic, 0.8 mm thick
Permanent temperature up to 70 °C.

Special plates to mark the terminals of clamping, solder and pluggable terminal strips are available. They can be marked before or after mounting or wiring of the terminals by using special ink Pelikan No. 32 or felt-tip pen "Feinmarker 23" by Faber Castell, or ink pen "Foliograph" by Riepe Werk Hamburg. Or they can be sealed with waterproof stamp color Pelikan type 24.



We can also supply marked plates with normal marking for larger quantities.

Prices upon request:

Suitable for types	Poles	Type	Part no.	Std. pack	Suitable for types	Type	Part no.	Std. pack
	2	8130/ 2 BZ	04.033.0080.0	100		10 E/ 2 BZ	04.070.0280.0	100
	3	8130/ 3 BZ	04.033.0180.0	100		10 E/ 3 BZ	04.070.0380.0	100
	4	8130/ 4 BZ	04.033.0280.0	100		10 E/ 4 BZ	04.070.0480.0	100
4 E	5	8130/ 5 BZ	04.033.0380.0	100	10 E	10 E/ 5 BZ	04.070.0580.0	100
	6	8130/ 6 BZ	04.033.0480.0	100		10 E/ 6 BZ	04.070.0680.0	100
	12	8130/12 BZ	04.033.1080.0	100		10 E/12 BZ	04.070.1280.0	100
	1 meter	8130/ MBZ	04.033.1180.0	1		10 E/MBZ	04.070.1380.0	1
	2	8006/ 2 BZ	04.030.0080.0	100		10 E/ 2 DBZ	04.071.0280.0	100
	3	8006/ 3 BZ	04.030.0180.0	100		10 E/ 3 DBZ	04.071.0380.0	100
	4	8006/ 4 BZ	04.030.0280.0	100	10 E	10 E/ 4 DBZ	04.071.0480.0	100
6 E	5	8006/ 5 BZ	04.030.0380.0	100	with marking	10 E/ 5 DBZ	04.071.0580.0	100
	6	8006/ 6 BZ	04.030.0480.0	100	surface on both	10 E/ 6 DBZ	04.071.0680.0	100
	12	8006/12 BZ	04.030.1080.0	100	sides	10 E/12 DBZ	04.071.1280.0	100
	1 meter	8006/MBZ	04.030.1180.0	1		10 E/MBZ	04.071.1380.0	1
	2	8016/ 2 BZ	04.080.0080.0	100		16 E/ 2 BZ	04.090.0280.0	100
	3	8016/ 3 BZ	04.080.0180.0	100		16 E/ 3 BZ	04.090.0380.0	100
	4	8016/ 4 BZ	04.080.0280.0	100		16 E/ 4 BZ	04.090.0480.0	100
20 E	5	8016/ 5 BZ	04.080.0380.0	100	16 E	16 E/ 5 BZ	04.090.0580.0	100
	6	8016/ 6 BZ	04.080.0480.0	100		16 E/ 6 BZ	04.090.0680.0	100
	12	8016/12 BZ	04.080.1080.0	100		16 E/12 BZ	04.090.1280.0	100
	1 meter	8016/MBZ	04.080.1180.0	1		16 E/MBZ	04.090.1380.0	1

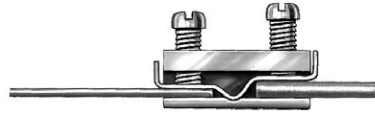
Lighting terminals

appliance TERMINALS

Material:



Insulating parts: glazed porcelain or melamine type 150, tracking resistant
Clamping body: nickel-plated brass;
Wire protection: phosphor bronze;
Clamping screws: steel, zinc-plated and dichromated

Terminals with wire protection DS are fitted with a wire protection guard inside the clamping body, which prevents damage to the connected wire.



Temperature range: -40 °C → +150 °C

appliance TERMINALS

		Poles	mm ²	Type	Part no.	Std. pack	L	W	H	Distance Ø, Mount. holes	Fasten. screws DIN 84
Lighting terminals		1		547	14.100.0170.0	300	22	10	15		
	Dimensions in mm	2	2.5	548	14.100.0270.0	200	22	18	15		
		3		549	14.100.0370.0	100	25	22	15		
											
	M3										
Insulating part: Glazed porcelain Wire strip length: 6 mm											
DIN VDE 0110 (position not fixed)											
400 V/2.5 kV/1											
250 V/2.5 kV/2											

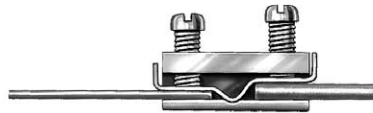
Appliance terminals

appliance TERMINALS





Material:

Insulating parts: glazed porcelain or melamine type 150, tracking resistant
Clamping body: nickel-plated brass;
Wire protection: phosphor bronze;
Clamping screws: steel, zinc-plated and dichromated

Terminals with wire protection DS are fitted with a wire protection guard inside the clamping body, which prevents damage to the connected wire.





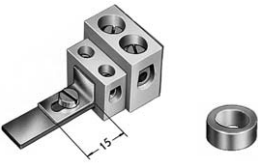
Temperature range for porcelain: -40 °C → +150 °C

	Poles	mm ²	Type	Part no.	Std. pack	L	W	H	Distance	Ø, Mount. holes	Fasten. screws	DIN 84
Appliance terminal with mounting hole  Dimensions in mm M3 M3.5 Insulating part: Glazed porcelain Wire strip length: 6 mm DIN VDE 0110 (position not fixed) 400 V/4 kV/2  M3 = 10 A M3.5 = 16 A	2		1032	14.200.0270.0	100	24						
	2		1032 DS	14.201.0270.0	100	24						
	2		1032 M 3,5	14.200.1270.0	100	38	20	16	13	4.5	M4	
	3		1033	14.200.0370.0	50	38			13			
	3	2.5	1033 DS	14.201.0370.0	50							
	3		1033 M 3,5	14.200.1370.0	50	39						
	4		1033 A	14.200.0470.0	50	39						
	4		1033 A DS	14.201.0470.0	50							
	4		1033 M 3,5	14.200.1470.0	50							
	Appliance terminal accord. to DIN 46284 Insulating part: Glazed porcelain Wire strip length: 6 mm DIN VDE 0110 (fixed position) 400 V/6 kV/3	2		2 DIN 46284 ST	14.210.0270.0	100	20					
2			2 D DIN 46284 ST	14.211.0270.0	100	20						
3		2.5	3 DIN 46284 ST	14.210.0370.0	100	21	18		3.3	M3		
3			3 D DIN 46284 ST	14.211.0370.0	100	34			12.5			
3			3 D DIN 46284 ST	14.211.0370.0	100	34			12.5			
Appliance terminal with mounting hole and base rail  M3 (2.5 mm ²) M5 (6 mm ²) Insulating part: Glazed porcelain Wire strip length: 6 mm DIN VDE 0110 (position not fixed) 400 V/6 kV/3	2	2.5	1031	14.220.0270.0	100	24	25	18		4.5	M4	
	3	2.5	1029	14.220.0370.0	50	36			13			
	2	6	1027	14.230.0270.0	30	36	36	28		5.8	M5	
Appliance terminal 4pole  M3 Insulating part: melamine type 150, tracking resistant Wire strip length: 6 mm DIN VDE 0110 (fixed position) 400 V/6 kV/3	4	2.5	1033 A P KR	14.290.0440.0	100	40	20	18.5		5.3	M5	
	4	2.5	1033 A P DS KR	14.291.0440.0	100							

Modular terminals for mounting rail 10 x 2.5 mm

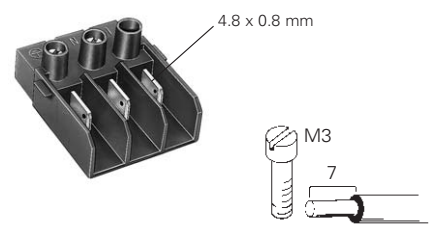
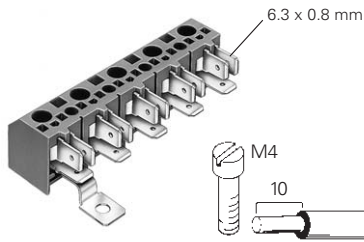
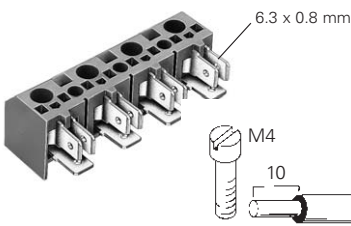
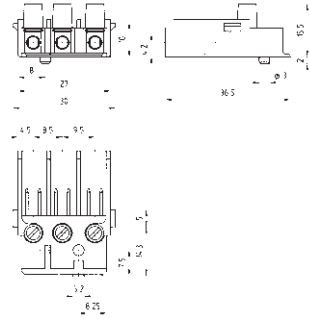
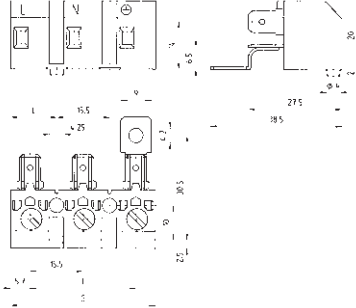
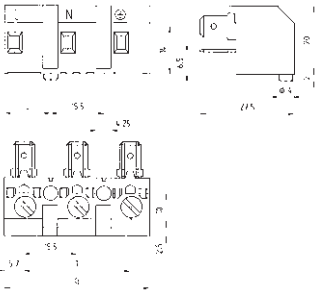
appliance

with insulating housing from unglazed steatite

	DIN VDE 0110	Wire strip length	Type	Part no.	Std. pack	L	B	mm ² solid/stranded/fine-stranded		with ferrule	Cl.screw
Modular terminal without wire protection Dimensions in mm 	250 V/4 kV/3	7	1038 A	30.400.0675.0	125	19	8.5 ± 0.3	6	4	2.5	M3
	250 V/4 kV/3	10	1038 B	30.400.1075.0	100	24	12.5 ± 0.35	10	10	6	M4
	400 V/6 kV/3	10	1038 C	30.400.1675.0	75	28	15 ± 0.4	16	10	10	M5
Modular terminal with wire protection 	250 V/4 kV/3	6	1038 A DS	30.401.0475.0	125	19	8.5 ± 0.3	4	4	1.5	M3
	250 V/4 kV/3	7	1038 B DS	30.401.0675.0	100	24	12.5 ± 0.35	6	6	2.5	M4
	400 V/6 kV/3	7	1038 C DS	30.401.1075.0	75	28	15 ± 0.4	10	10	4	M5
Accessories											
											
Mounting rail: steel, galv. zinc-plated, L = 1 m 10 x 2.5 mm			1039 M	98.060.0000.0	50						
End bracket			1039 W	05.522.0725.0	250						
Distance ring: outside Ø 7, inside Ø 4.5			1036 R	05.590.3121.0	500						

KL 20

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS



Type KL 24

2 to 5pole

AC 400 V; */** A; ***/3 x (6.3 x 0.8 mm)
300 V; 16 A; No. 22 – 12 AWG
300 V; 20 A; No. 22 – 14 AWG



Type KL 24 SL

3, 5pole

AC 400 V; */** A; ***/3 x (6.3 x 0.8 mm)
300 V; 20 A; No. 22 – 14 AWG



Type KL 30/3 PA

3pole

AC 400 V; */** A; ***/2 x (4.8 x 0.8 mm)
150 V; 10 A; No. 22 – 12 AWG
150 V; 10 A; No. 22 – 14 AWG



Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
KL 24/2	29.500.9253.0	1000	KL 24/3 SL	29.502.9353.0	500	KL 30/3 PA	29.500.3053.0	500
KL 24/3	29.500.9353.0	500				KL 30/3 DS PA	29.500.4053.0	500
KL 24/4	29.500.9453.0	500						
KL 24/5	29.500.9553.0	250	KL 24/5 SL	29.502.9553.0	250			

Pole designation
2pole = L, N,
3pole = L, N, ⊕
5pole = L3, L2, L1, N, ⊕

Dimensions		
Poles	T	G
2	15.5	27
3	31	42.5
4	46.5	58
5	62	73.5

Pole designation
3pole = L, N, ⊕
5pole = L3, L2, L1, N, ⊕

Dimensions		
Poles	T	G
3	31	42.5
5	62	73.5

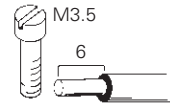
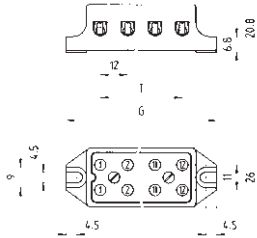
appliance TERMINALS

Terminal box KBD

Material:

- Insulating part: melamine type 150, tracking resistant
- Clamping body and cover fastening screws: nickel-plated brass
- Clamping screws: steel, zinc-plated and dichromated
- Wire protection: phosphor bronze

T = (Number of poles - 1) x 12
G = T + 30



with DS up to 2.5 mm²/fine-stranded

EN 60998-1/-2-1
Rated cross section solid
Rated cross section fine stranded
Approvals Ⓢ

	Poles	G	Type	Part no.	Std. pack
with female terminals and	2	42	KBD 1/ 2 KR	28.121.0240.0	50
wire protection	3	54	KBD 1/ 3 KR	28.121.0340.0	40
	4	66	KBD 1/ 4 KR	28.121.0440.0	30
	5	78	KBD 1/ 5 KR	28.121.0540.0	25
	6	90	KBD 1/ 6 KR	28.121.0640.0	20
	7	102	KBD 1/ 7 KR	28.121.0740.0	
	8	114	KBD 1/ 8 KR	28.121.0840.0	20
	10	138	KBD 1/10 KR	28.121.1040.0	15
	12	162	KBD 1/12 KR	28.121.1240.0	15

Distribution terminal strips for onlinecomponents.com plug and screw connections

KL 17 N

Material:

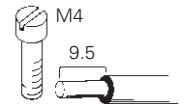
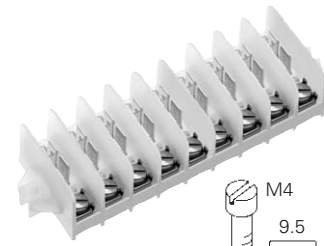
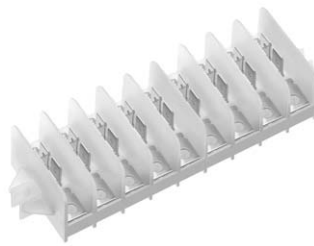
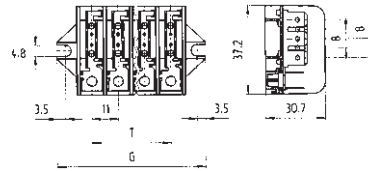
Insulating part: Polyamid 66 ivory
 Permanent temperature 100 °C
 Permanent temperature 125 °C accord. to UL 746 B
 (All indicated temperatures include the power load caused by the operation)

Tracking resistance accord. to DIN IEC 112. CTI > 600
 Hardness test at 125 °C
 Glow-wire test with 850 °C
 Tracking test PTI 600

– with insulating spacer 400 V

** 24 A screw clamp terminal with 2.5 mm² conductor
 12 A tab connector with 1.5 mm² conductor

CSA: 300 A, 20 A, 22 – 12 AWG



EN 60998-1/2-1; EN 61210 (fixed position)

Distribution terminal strip for plug connections Type KL 17 N/*.../

* indicate the number of poles, e.g. KL 17 N/5/
 AC 230/400 V/2; **A;
 1 – 2.5 mm²/5x (6.3 x 0.8 mm)

Distribution terminal strip for plug and screw connections Type KL 17 N/*.../K

* indicate the number of poles, e.g. KL 17 N/5/K
 AC 230/400 V/2; **A;
 1 – 2.5 mm²/5x (6.3 x 0.8 mm)
 with clamping spring and screw M4 x 8 DIN 85

	Poles	G	Type	Part no.	Std. pack	Type	Part no.	Std. pack
5 tab connectors 6.3 x 0.8 mm	1	29.8		29.608.0153.0	120		29.608.3153.0	120
tin-plated steel	2	40.8		29.608.0253.0	80		29.608.3253.0	80
	3	51.8		29.608.0353.0	60		29.608.3353.0	60
	4	62.8		29.608.0453.0	40		29.608.3453.0	40
	5	73.8		29.608.0553.0	40		29.608.3553.0	40
	6	84.8		29.608.0653.0	30		29.608.3653.0	30
	7	95.8		29.608.0753.0	30		29.608.3753.0	30
	8	106.8		29.608.0853.0	20		29.608.3853.0	20
	9	117.8		29.608.0953.0	20		29.608.3953.0	20
	10	128.8		29.608.1053.0	20		29.608.4053.0	20
	11	139.8		29.608.1153.0	20		29.608.4153.0	20
	12	150.8		29.608.1253.0	20		29.608.4253.0	20
	13	161.8		29.608.1353.0	10		29.608.4353.0	10
	14	172.8		29.608.1453.0	10		29.608.4453.0	10
	15	183.8		29.608.1553.0	10		29.608.4553.0	10
	16	194.8		29.608.1653.0	10		29.608.4653.0	10
	17	205.8		29.608.1753.0	10		29.608.4753.0	
	18	216.8		29.608.1853.0	10		29.608.4853.0	10
	19	227.8		29.608.1953.0	10		29.608.4953.0	
	20	238.8		29.608.2053.0	10		29.608.5053.0	10
	21	249.8		29.608.2153.0	10		29.608.5153.0	
Accessories	22	260.8		29.608.2253.0	10		29.608.5253.0	
Insulating spacer: cardboard 2061,	23	271.8		29.608.2353.0	10		29.608.5353.0	
1 to	24	282.8		29.608.2453.0	10		29.608.5453.0	10
24pole								
Marking plate: PVC								
1 to								
24pole								
				07.450.0187.0			07.450.0187.0	
				07.450.2487.0			07.450.2487.0	
				07.451.0180.0			07.451.0180.0	
				07.451.2480.0	100		07.451.2480.0	100

Mains connectors for appliance wiring

3, 5 and 6 pole with screw connection

KL 58 1/5A

Material:

Insulating housing: Polyamide, fiberglass reinforced
 Clamping body: tin-plated steel
 Clamping screws and clamping spring: zinc-plated steel
 Switchable connecting link E-Cu

Ambient temperature:

T 160 ... - 5 °C
 Continuous maximum temperature: 125 °C

Insulating part:

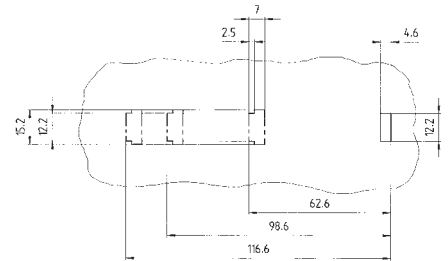
Hardness test at 210 °C
 Glow-wire test with 850 °C
 Tracking test PTI 400

Air and creepage distances accord. to DIN EN 60335-1/VDE 0700 part 1


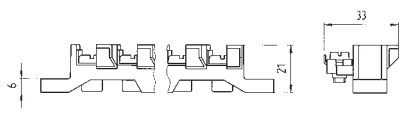

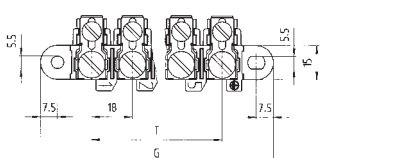


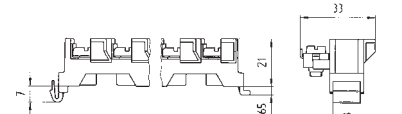

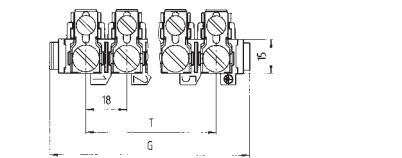

VDE with Statement of Conformity

EN 60998-1/2-1; EN 61210; (fixed position)
 UL-ratings field/factory wiring
 CSA ratings
 Approvals

AC 400 V; 41 A; 1.5 – 6 mm²
 250 V; 40 A; No. 8 - 14/10 AWG
 300 V Gr.B/150 V Gr.C; 40 A; No. 8/10 AWG



Cut-out 3, 5, 6pole for
 *) "latching foot versions"
 Metal sheet 1.5 mm thick

	Poles	Type	Part no.	Std. pack													
	3	KL 58/3/1	29.130.1353.0	200													
	5	KL 58/5/1	29.130.1553.0	100													
		3 links used as a bridge between poles 3 and 4															
	6	KL 58/6/1	29.130.1653.0	100													
		3 links used as a bridge between poles 4 and 5			<table border="1"> <thead> <tr> <th></th> <th>T (mm)</th> <th>G</th> </tr> </thead> <tbody> <tr> <td>3pole</td> <td>36</td> <td>81</td> </tr> <tr> <td>5pole</td> <td>72</td> <td>117</td> </tr> <tr> <td>6pole</td> <td>90</td> <td>135</td> </tr> </tbody> </table>		T (mm)	G	3pole	36	81	5pole	72	117	6pole	90	135
	T (mm)	G															
3pole	36	81															
5pole	72	117															
6pole	90	135															
	3	KL 58/3 R/1*	29.130.2353.0	200													
	5	KL 58/5 R/1*	29.130.2553.0	100													
		3 links used as a bridge between poles 3 and 4															
	6	KL 58/6 R/1*	29.130.2653.0	100													
		3 links used as a bridge between poles 4 and 5			<table border="1"> <thead> <tr> <th></th> <th>T (mm)</th> <th>G</th> </tr> </thead> <tbody> <tr> <td>3pole</td> <td>36</td> <td>66.5</td> </tr> <tr> <td>5pole</td> <td>72</td> <td>102.5</td> </tr> <tr> <td>6pole</td> <td>90</td> <td>120.5</td> </tr> </tbody> </table>		T (mm)	G	3pole	36	66.5	5pole	72	102.5	6pole	90	120.5
	T (mm)	G															
3pole	36	66.5															
5pole	72	102.5															
6pole	90	120.5															

Mains connectors for appliance wiring

3, 5 and 6 pole with 3 tab connectors 6.3 x 0.8 mm per pole

Material:

Insulating housing: Polyamide, fiberglass reinforced
 Clamping body: nickel-plated steel
 Clamping screws and clamping spring: zinc-plated steel
 Switchable connecting link E-Cu

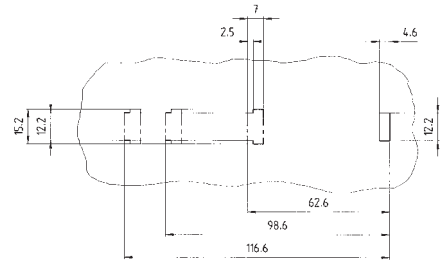
Ambient temperature:

T 160 ... - 5 °C
 Continuous maximum temperature: 125 °C

Insulating part:

Hardness test at 210 °C
 Glow-wire test with 850 °C
 Tracking test PTI 400

Air and creepage distances accord. to DIN EN 60335-1/VDE 0700 part 1



Cut-out 3, 5, 6pole for
 *) "latching foot versions"
 Metal sheet 1.5 mm thick

(mains side) **10 mm²**

- * 41 A Screw terminal with 6 mm² conductor
- ** 20 A Tab connector with 6 mm² conductor

VDE with Statement of Conformity







EN 60998-1/-2-1; EN 61210; (fixed position)
 UL-ratings field/factory wiring
 CSA ratings
 Approvals

AC 400 V; */** A; 1.5 – 6 mm²/3x (6.3 x 0.8 mm)
 250 V; 40 A; No. 8 - 14/10 AWG
 300 V Gr.B/150 V Gr.C; 40 A; No. 8/10 AWG



Note:

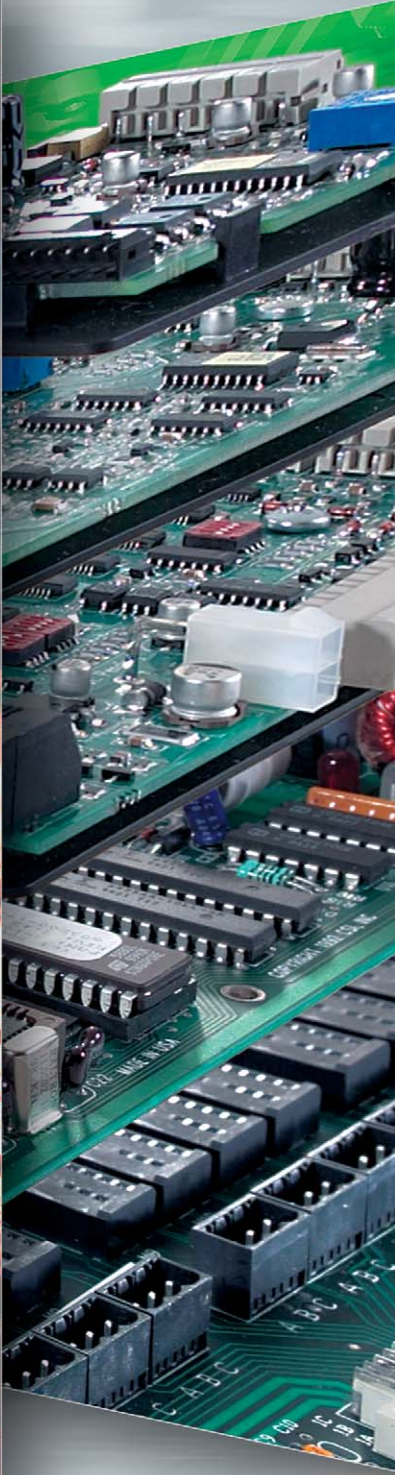
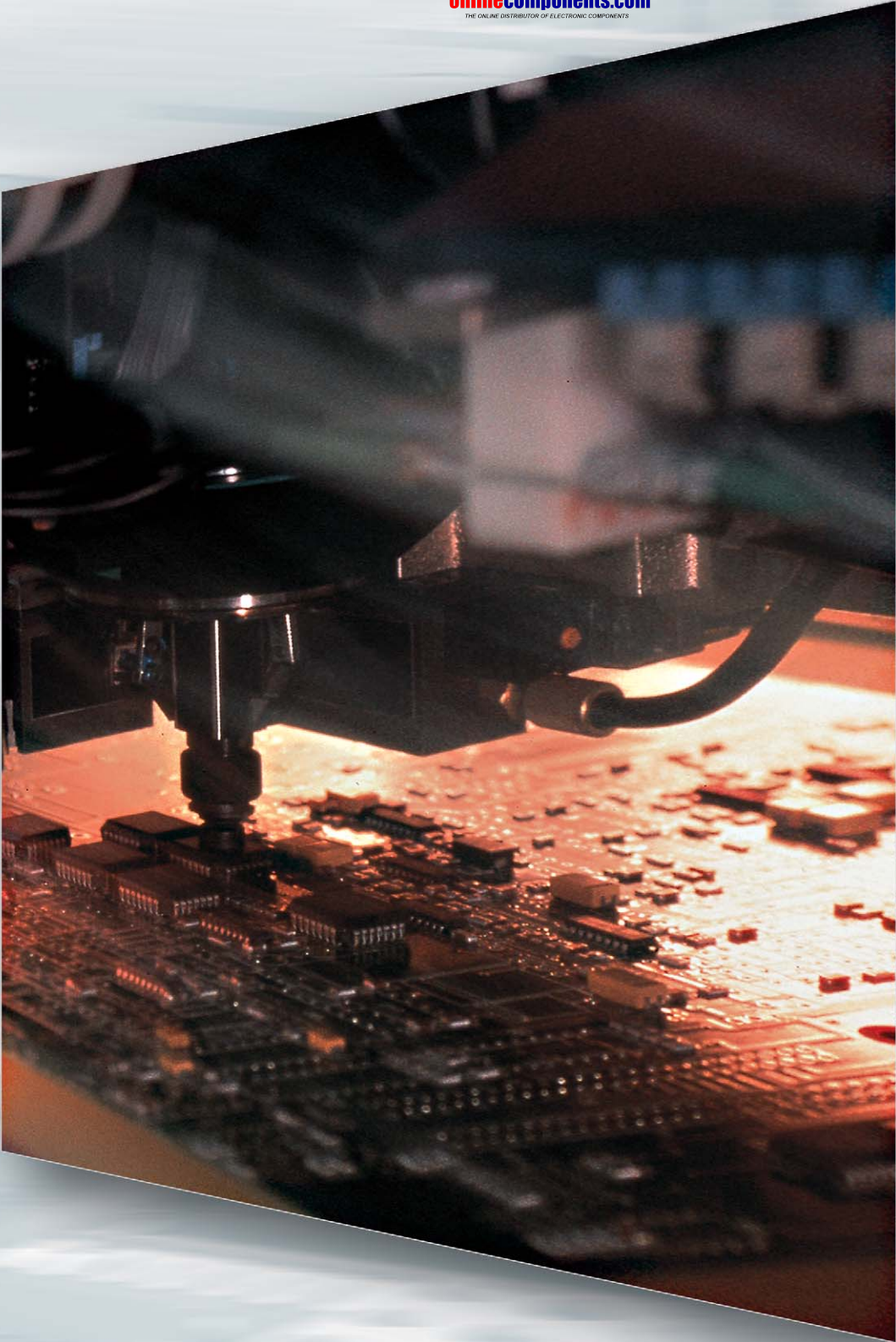
The air distance of 9.5 mm between the terminals and the mounting base must be guaranteed.

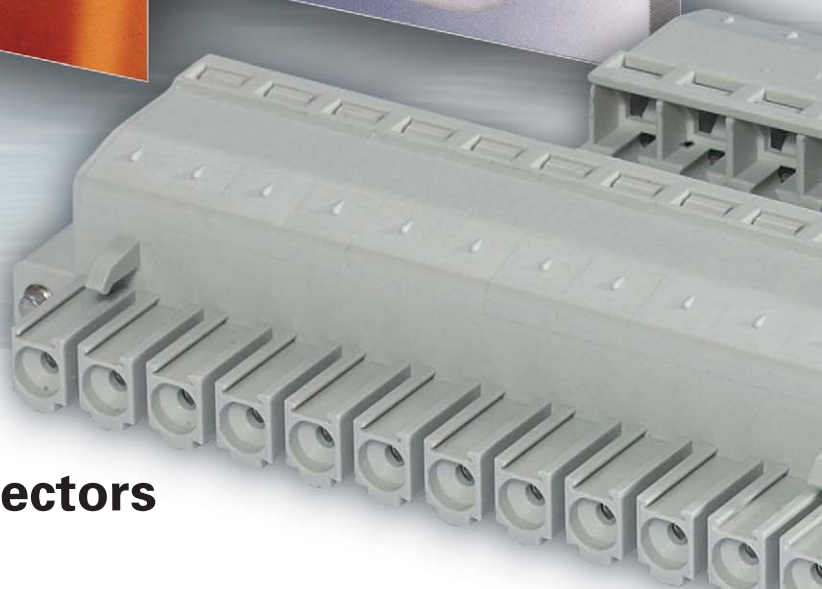
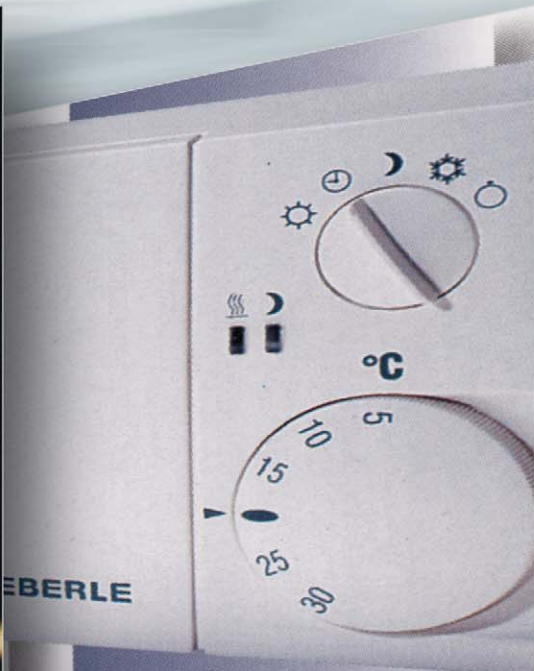
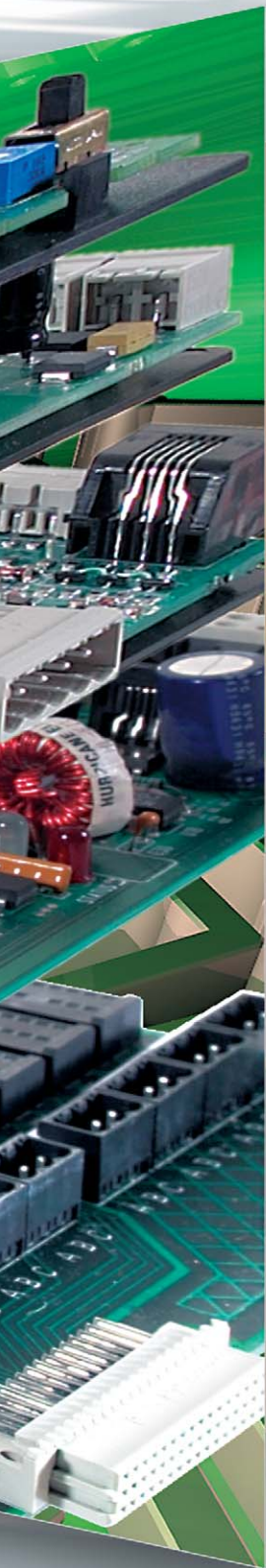
	Poles	Type	Part no.	Std. pack	
	3	KL 58/3 S/1	29.131.1353.0	200	
	5	KL 58/5 S/1	29.131.1553.0	100	
		3 links used as a bridge between poles 3 and 4			
	6	KL 58 S/6 S/1	29.131.1653.0	100	
		3 links used as a bridge between poles 4 and 5			
	3	KL 58/3 S R/1*	29.131.2353.0	200	
	5	KL 58/5 S R/1*	29.131.2553.0	100	
		3 links used as a bridge between poles 3 and 4			
	6	KL 58/6 S R/1*	29.131.2653.0	100	
		3 links used as a bridge between poles 4 and 5			

	T (mm)	G
3pole	36	81
5pole	72	117
6pole	90	135

	T (mm)	G
3pole	36	66.5
5pole	72	102.5
6pole	90	120.5

Special versions with ground connection to the mounting base: upon request





PC Board Connectors

All Wieland Components which require CE general certification are CE certified, and identified with the CE logo.

Pluggable PC board connectors with insulated headers, two piece design

Pluggable PC board connectors with pin strip headers, two piece design

DIN rail terminal blocks with pluggable connectors

Pluggable PC board connectors, edge card

PC board connectors

PC board connectors, 2-tier version

PC board connectors, 3-tier version

PC board connectors, 4-tier version

Special-purpose connectors

RAST 5 connectors
Feed-through modules for control cabinets
Marking tags / marking tag strips

	<p>Spacings: 3.50/3.81 mm</p> <ul style="list-style-type: none"> • Plug connectors, rising cage clamp Page 280 • Plug connectors, spring clamp Page 281 • Insulated headers Page 284 <p>Spacings: 5.00/5.08/7.50/7.62 mm</p> <ul style="list-style-type: none"> • Plug connectors, rising cage clamp Page 286 • Male plug with spring clamp connection (= inverted plug) Page 295 • Plug connectors, spring clamp Page 294 • Board to board connectors Page 295 • Insulated headers Page 297 • Pluggable TOP connector with strain relief Page 320
	<p>Spacings: 3.50/5.00 mm Compression screw clamp Page 316</p> <p>Spacing: 3.50 mm Spring clamp Page 324</p>
	<p>Spacing: 5.00 mm Feed-through DIN rail terminal blocks with pluggable connectors Page 310</p>
	<p>Spacing: 3.50 mm Rising cage clamp Page 328</p> <p>Spacing: 5.00 mm Spring clamp Page 330</p>
	<p>Spacings: 3.50/3.81 mm</p> <ul style="list-style-type: none"> • Rising cage clamp Page 336 <p>Spacings: 5.00/5.08 mm</p> <ul style="list-style-type: none"> • Rising cage clamp Page 286 • Spring clamp Page 292 <p>Spacings: 6.35 mm Spacings: 7.50/7.62 mm</p> <ul style="list-style-type: none"> • Rising cage clamp Page 288 • Spring clamp Page 294 <p>Spacings: 10.00/10.16 mm</p> <ul style="list-style-type: none"> • Rising cage clamp Page 318, 375, 377
	<p>Spacings: 5.00/5.08 mm</p> <ul style="list-style-type: none"> • Rising cage clamp Page 364
	<p>Spacings: 5.00/5.08 mm</p> <ul style="list-style-type: none"> • Rising cage clamp Page 370
	<p>Spacing: 5.00 mm</p> <ul style="list-style-type: none"> • Rising cage clamp Page 373
	<p>Spacing: 5.08 mm</p> <ul style="list-style-type: none"> • Feed through block Page 378 • PCB plunger disconnect block Page 378 • Fused feed through terminal block Page 379 • AS-I connector – IDC Technology Page 392
	<p>Page 380</p> <p>Page 386</p> <p>Page 394</p>

Pluggable PC board connectors **onlinecomponents.com**
 with insulated headers, two piece design
wiecon PCB

		Page 298	Page 301	Page 299	Page 299	Page 301	Page 297	Page 300	Page 297	Page 298
Spacing: 5.00/5.08 mm Spacing: 7.50/7.62 mm	Spacing:	5.00/5.08 8113 S/W 8213 S/W	7.50/7.62 8313 S/W 8413 S/W	5.00/5.08 8113 S/WOF 8213 S/WOF	5.00/5.08 8113 S/WF 8213 S/WF	7.50/7.62 8313 S/WF 8413 S/WF	5.00/5.08 8113 S/G 8213 S/G	7.50/7.62 8313 S/G 8413 S/G	5.00/5.08 8113 S/GOF 8213 S/GOF	5.00/5.08 8113 S/GF 8213 S/GF
	Poles	2 - 24	2 - 12	2 - 24	2 - 22	2 - 12	2 - 24	2 - 12	2 - 24	2 - 22
	Page 291 8113 BK 5.00	●		●			●		●	
	Page 286 8113 B 8213 B 5.00 5.08	●		●			●		●	
	Page 292 8113 BFK 8213 BFK 5.00 5.08	●		●	●		●		●	
	Page 287 8213 B/S 5.08						●		●	
	Page 288 8313 B 8413 B 7.50 7.62		●					●		
	Page 286 8113 B/F 8213 B/F 5.00 5.08				●					●
	Page 288 8313 B/F 8413 B/F 7.50 7.62					●				
	Page 289 8113 B/VL 8213 B/VL 5.00 5.08	●		●			●		●	
	Page 289 8113 B/VR 8213 B/VR 5.00 5.08	●		●			●		●	
	Page 290 8413 B/VL 7.62		●					●		
	Page 290 8413 B/VR 7.62		●					●		
	Page 296 8113 B/TOP 8213 B/TOP 5.00 5.08	●		●			●		●	
	Page 295 8213 BL/G 5.08	●		●			●		●	
	Page 295 8213 BL/W 5.08	●		●			●		●	

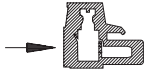
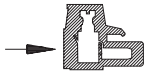
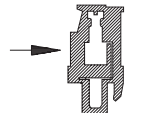
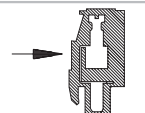
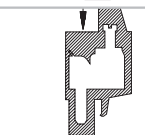
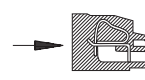
wiecon

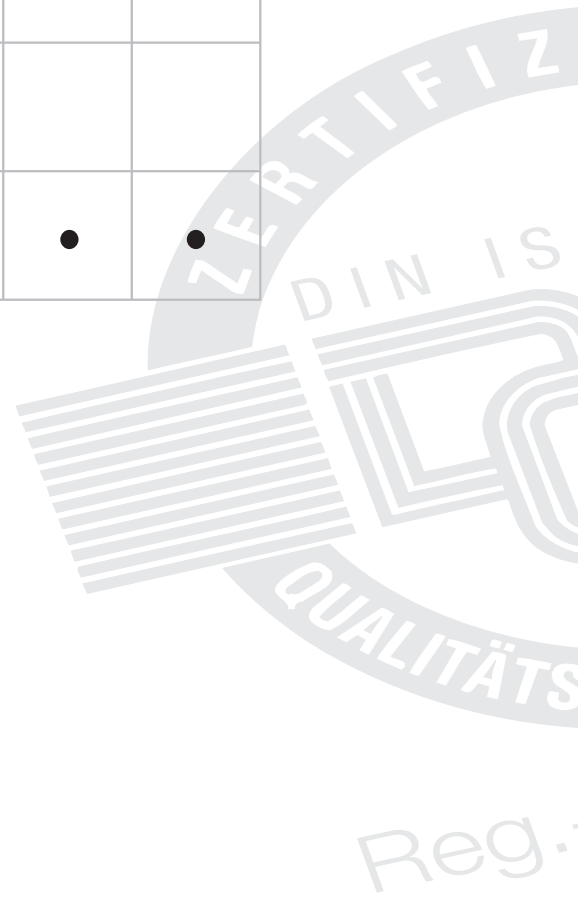
Page 300	Page 302	Page 302	Page 293	Page 303	Page 303	Page 305	Page 305	Page 305	Page 304	Page 304	
7.50/7.62 8313 S/GF 8413 S/GF	5.00/5.08 8113 S/S 8213 S/S	5.00/5.08 8113 S/S1 8213 S/S1	5.08 8213 SUFK	5.00/5.08 8113 SE/W 8213 SE/W	5.00/5.08 8113 SE/G 8213 SE/G	5.08 8213 S/ DFWW	5.08 8213 S/ DFWWM	5.08 8213 S/ DFLS	5.08 8213 S/ DFLSM	5.00/5.08 8113 SEG/W 8213 SEG/W	5.00/5.08 8113 SEG/G 8213 SEG/G
2 - 12	2 - 24	2 - 24	2 - 12 (24)	2 - 24 snap together	2 - 24 snap together	2 - 24	2 - 22 with nut	2 - 24	2 - 22 with nut	2 - 24	2 - 24
	● 8113	● 8113		● 8113	● 8113					● 8113	● 8113
	●	●	● 8213	●	●	●		●		●	●
	●	●	● 8213	●	●	●	●	● 8213	●	●	●
	● 8213	● 8213	●	●	● 8213	●		●	● 8213		● 8213
			● 8213				●		●	●	●
	●										
	●	●	● 8213	●	●	●	●	● 8213	● 8213	●	●
	●	●	● 8213	●	●	●	●	● 8213	● 8213	●	●
	●	●	● 8213	●	●	●		●		●	●
	●	●	● 8213							● 8213	● 8213
			● 8213								

wiecon

PC board connectors with DIN rail terminal blocks
pluggable

wiecon PCB







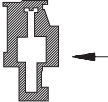
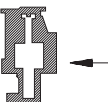
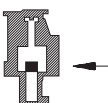
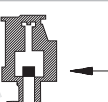

		Page 310	Page 310	Page 311	Page 312	Page 312	Page 308
Spacing: 5.00/7.50 mm		5.00	5.00	7.50	5.00	7.50	5.00
		2 - 24 snap together	2 - 24 snap together	2 - 12 snap together	2 - 24 snap together	2 - 12 snap together	2 - 24 snap together
	Page 286 8113 B	5.00	2 - 24	●	●	●	
	Page 288 8313 B	7.50	2 - 12		●	●	
	Page 289 8113 B/VL	5.00	2 - 24	●	●	●	
	Page 289 8113 B/VR	5.00	2 - 24	●	●	●	
	Page 296 8113 B/TOP	5.00	2 - 24	●	●	●	
	Page 292 8113 BFK	5.00	2 - 24	●	●	●	●



PC board connectors with insulated headers
two-piece design

THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

wiecon

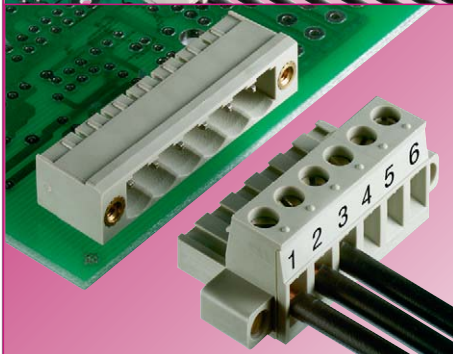
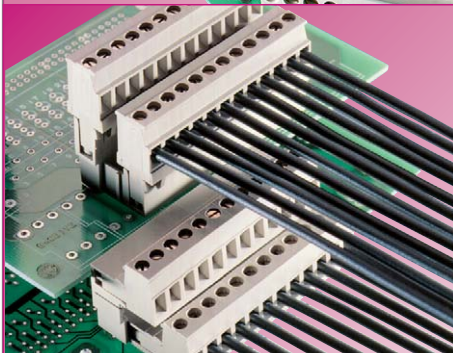
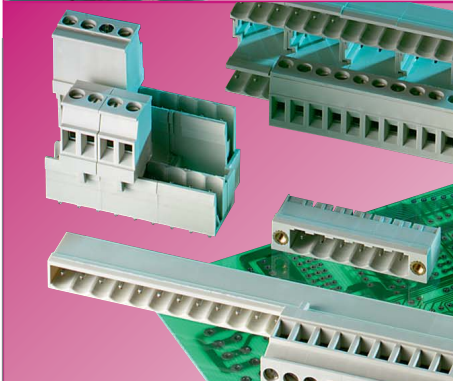
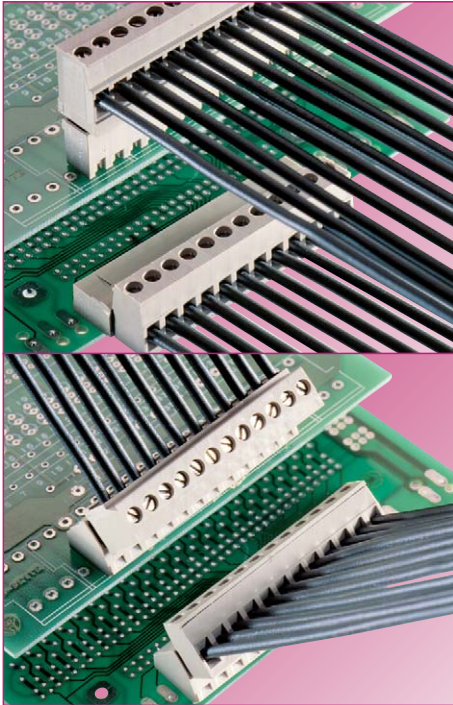
		Page 284	Page 285	Page 284	Page 285
					
Spacing: 3.81 mm Spacing: 3.50 mm		3.50/3.81 8513 S/W 8813 S/W	3.50/3.81 8513 S/WF 8813 S/WF	3.50/3.81 8513 S/G 8813 S/G	3.50/3.81 8513 S/GF 8813 S/GF
		2 - 20	2 - 20	2 - 20	2 - 20
	Page 280 8513 B 8813 B	3.50 3.81	2 - 20	●	●
	Page 280 8513 B/F 8813 B/F	3.50 3.81	2 - 20	●	●
	Page 282 8813 B/VR	3.81	2 - 20	● 8813	● 8813
	Page 282 8813 B/VL	3.81	2 - 20	● 8813	● 8813
	Page 283 8813 B/VRF	3.81	2 - 20	● 8813	● 8813
	Page 283 8813 B/VLF	3.81	2 - 20	● 8813	● 8813
	Page 281 8513 BFK	3.50	2 - 20	● 8513	● 8513



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Pluggable PC board connectors mglinecomponents.com with insulated headers, two piece design

wiecon PCB



Pluggable connectors provide a simple 2-piece mateable connection between an external connector and the printed circuit board.

System features

- easy-to-operate, application specific
- user-friendly pluggability
- clear, straightforward connection
- mating direction and wire insertion for every application
- quick disconnect
- multiple pole configurations
- connection of solid and fine stranded up to 1.5 mm² and 2.5 mm² (up to 12 AWG)
- metric and inch spacing; inch spacing is indicated by a stud over the wire entry guide
- termination via rising cage clamp (screw connection)
- termination via TOP connection

Flange version

- additional screw connection of plug and insulated header preventing unintentional disconnect
- secure electrical and mechanical connection even under high mechanical stress (e.g. vibration)

Field of application

- pluggable PC board connectors simplify termination and service of PC boards
- with pre-manufactured cable harnesses, units can be adapted to the individual application without problems
- all pluggable PC board connectors can be coded without loss of pole position
- the plugs and their matching insulated headers can be interlocked
- clear markings ensure simple and correct marking

Variety of types

- 2 to 24pole
- mating orientation of the plugs horizontal and vertical to the wire entry
- plugs mate horizontal and vertical to the printed circuit board
- insulated headers with vertical and horizontal solder pins
- insulated headers with pins in 35° angle to the printed circuit board
- insulated headers with closed sides to prevent mis-mating
- open-ended insulated headers permit adjacent stacking without pole loss
- spacings: 3.81/5.00/5.08/7.50/7.62/10.00/10.16 mm
- two-tier headers

Coding

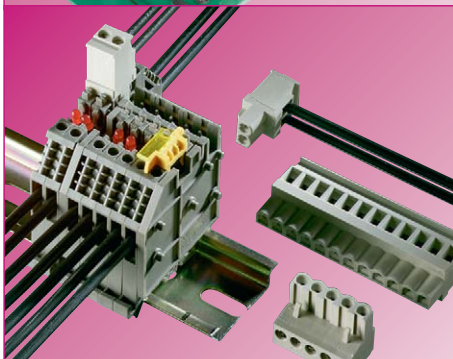
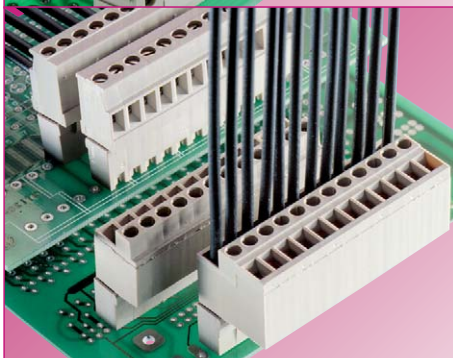
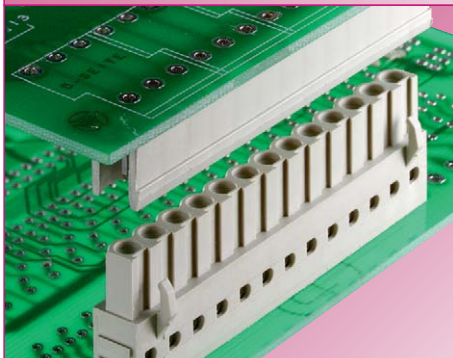
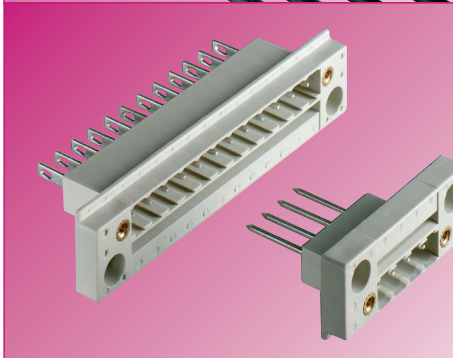
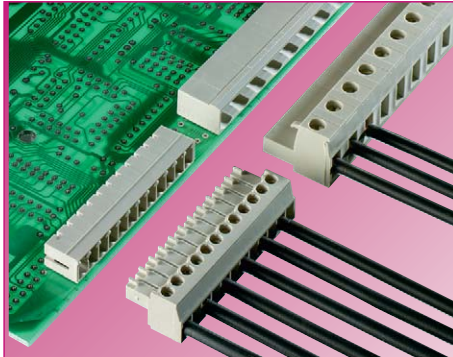
- protection against mis-mating via coding pieces inserted into slots in the plug and header
- coding without pole loss

Marking

- inkjet marking directly on the plug and header with smudge-proof ink
- custom marking possible, consult factory
- clear, easily legible marking

DQS certificates for all products

- quality standard as per DIN ISO 9001
- in Development, Production, Assembly
- continuous verification of the quality standard by means of regular internal and external quality audits
- compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria



Types 8513-8813

- micro PC board connectors, 2 to 20 pole
- plug and insulated header horizontal and vertical to the printed circuit board
- total height: 11 mm, while only 8 mm above the printed circuit board
- in space-saving 3.5 and 3.81 mm spacing
- connector cross section: 1.5 mm²
- codable:
 - headers with coding pins
 - plug connectors with removable coding studs
- with locking screw flange

Panel mount feed through pluggables

- insulated headers mount directly to panel wall
- provide pluggable connection at panel
- header = panel mount feed through
- optional flange version for vibration secure mating
- header can be affixed with screws to the housing walls
- connection inside the housing via wire-wrap or solder connection

Inverted / board to board connectors

- board mounted female header with vertical and horizontal solder pins
- codable by means of coding pieces inserted in available slots
- interlocking flange available as accessory
- inverted plug available

TOP version

- screw connection, wire entry and mate direction all in same plane
- easy to operate in confined spaces
- with or without integrated LED

Application specific terminals

- for control systems:
 - DIN rail terminal blocks with pluggable connection at one side
 - plug connectors in 5.00 mm spacing
 - snap on to mounting rail
- DIN rail terminal blocks with pluggable connection for system 8113
- vertical plug orientation
- horizontal plug orientation

Material

Metal parts:

- made of special alloys and/or special surface platings
- minimum feed through resistance
- high corrosion resistance
- secure, consistent clamping function
- clamping body and clamping screw: made of nickel-plated brass (TOP version: zinc-plated steel, dichromated)
- plug contacts: tin-plated bronze
- solder pins: made from high-quality copper alloy

Insulating housings:

- Polyamide 66/6 for its excellent electrical, chemical and mechanical characteristics (see section **facts & DATA**)
- all housings UL 94 V-0
- glass-fibre reinforcement for high dimensional stability (not available for multi-tier header and solder parts)
- colors: gray, similar to RAL 7032; black; for others consult factory

Abbreviations for plastic materials:

- PA 66/6 = Polyamide 66/6
- PC = Polycarbonate
- PBT = Polybutylenterephthalate

Note:

The information regarding cross sectional areas and connection types pertains to conductors without ferrules.

The indicated rated current complies with the maximum load of the PCB connector with connected wire of the indicated rated cross section.

The rated voltage is indicated as per DIN VDE 0110 part 1 (IEC 60 664-1) – isolation coordination for electrical material in low voltage applications – and refers to the delivered state of the PC board connectors.

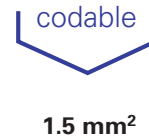
Before the PC board is fitted with connectors, an appropriate printed circuit board must be selected and dimensioned accordingly (e.g. regarding tracking resistance of the printed circuit board, distances of the leads and solder joints).

Furthermore, the ambient conditions under which the device is to be used (pollution degree) must be considered. The indicated rated voltages will be valid for the complete module only if the printed circuit board and its connectors are correctly and carefully matched to each other.

PC board connectors, pluggable components.com

rising cage connection, spacings: 3.50/3.81 mm

wiecon PCB

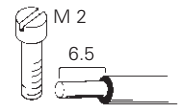
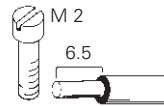
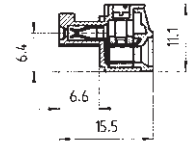
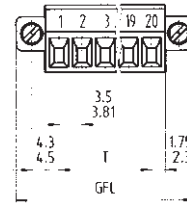
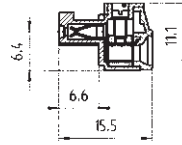
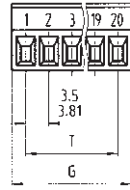


Rated cross section:
1.5 mm²

Rated current:
8 A

Connection range:
0.14 – 1.5 mm² solid / fine stranded

125 V/2.5 kV/3 – Overvoltage category III
250 V/2.5 kV/2 – Overvoltage category II
* 690 V/2.5 kV/1 – Overvoltage category I



with screw flange

* max. 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.00 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm

Rated voltages: VDE 0110

UL ratings

CSA ratings

Approvals

Type 8513 B/..., 8813 B/...

plug-in 180° to wire entry

No. 30 – 16 AWG

300 V

8 A

No. 22 – 14 AWG

300 V

5 A



Type 8513 B/...F, 8813 B/...F

plug-in 180° to wire entry

No. 30 – 16 AWG

300 V

8 A

No. 22 – 14 AWG

300 V

5 A



Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm					unmarked	marked	unmarked	marked
100	17.40	7.00	3.50	2	25.640.3253.0	25.640.0253.0	25.641.3253.0	25.641.0253.0
100	20.90	10.50	7.00	3	25.640.3353.0	25.640.0353.0	25.641.3353.0	25.641.0353.0
50	24.40	14.00	10.50	4	25.640.3453.0	25.640.0453.0	25.641.3453.0	25.641.0453.0
50	27.90	17.50	14.00	5	25.640.3553.0	25.640.0553.0	25.641.3553.0	25.641.0553.0
50	31.40	21.00	17.50	6	25.640.3653.0	25.640.0653.0	25.641.3653.0	25.641.0653.0
50	34.90	24.50	21.00	7	25.640.3753.0	25.640.0753.0	25.641.3753.0	25.641.0753.0
50	38.40	28.00	24.50	8	25.640.3853.0	25.640.0853.0	25.641.3853.0	25.641.0853.0
50	41.90	31.50	28.00	9	25.640.3953.0	25.640.0953.0	25.641.3953.0	25.641.0953.0
50	45.40	35.00	31.50	10	25.640.4053.0	25.640.1053.0	25.641.4053.0	25.641.1053.0
50	48.90	38.50	35.00	11	25.640.4153.0	25.640.1153.0	25.641.4153.0	25.641.1153.0
50	52.40	42.00	38.50	12	25.640.4253.0	25.640.1253.0	25.641.4253.0	25.641.1253.0
50	55.90	45.50	42.00	13	25.640.4353.0	25.640.1353.0	25.641.4353.0	25.641.1353.0
50	59.40	49.00	45.50	14	25.640.4453.0	25.640.1453.0	25.641.4453.0	25.641.1453.0
50	62.90	52.50	49.00	15	25.640.4553.0	25.640.1553.0	25.641.4553.0	25.641.1553.0
50	66.40	56.00	52.50	16	25.640.4653.0	25.640.1653.0	25.641.4653.0	25.641.1653.0
17 to 20pole upon request								
Spacing: 3.81 mm					unmarked	marked	unmarked	marked
100	18.01	8.41	3.81	2	25.620.3253.0	25.620.0253.0	25.621.3253.0	25.621.0253.0
100	21.82	12.22	7.62	3	25.620.3353.0	25.620.0353.0	25.621.3353.0	25.621.0353.0
50	25.63	16.03	11.43	4	25.620.3453.0	25.620.0453.0	25.621.3453.0	25.621.0453.0
50	29.44	19.84	15.24	5	25.620.3553.0	25.620.0553.0	25.621.3553.0	25.621.0553.0
50	33.25	23.65	19.05	6	25.620.3653.0	25.620.0653.0	25.621.3653.0	25.621.0653.0
50	37.06	27.46	22.86	7	25.620.3753.0	25.620.0753.0	25.621.3753.0	25.621.0753.0
50	40.87	31.27	26.67	8	25.620.3853.0	25.620.0853.0	25.621.3853.0	25.621.0853.0
50	44.68	35.08	30.48	9	25.620.3953.0	25.620.0953.0	25.621.3953.0	25.621.0953.0
50	48.49	38.89	34.29	10	25.620.4053.0	25.620.1053.0	25.621.4053.0	25.621.1053.0
50	52.30	42.70	38.10	11	25.620.4153.0	25.620.1153.0	25.621.4153.0	25.621.1153.0
50	56.11	46.51	41.91	12	25.620.4253.0	25.620.1253.0	25.621.4253.0	25.621.1253.0
50	59.92	50.32	45.72	13	25.620.4353.0	25.620.1353.0	25.621.4353.0	25.621.1353.0
50	63.73	54.13	49.53	14	25.620.4453.0	25.620.1453.0	25.621.4453.0	25.621.1453.0
50	67.54	57.94	53.34	15	25.620.4553.0	25.620.1553.0	25.621.4553.0	25.621.1553.0
50	71.35	61.75	57.15	16	25.620.4653.0	25.620.1653.0	25.621.4653.0	25.621.1653.0
17 to 20pole upon request								

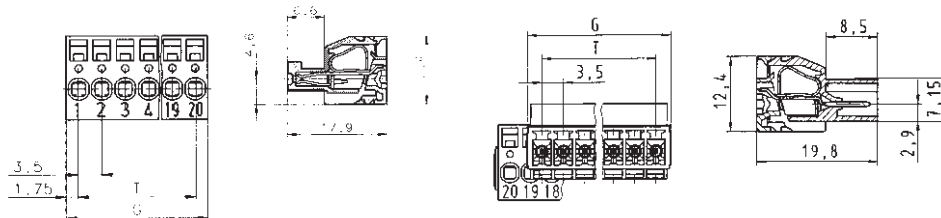
PC board connectors, pluggable **wiecon** components.com spring clamp connection, spacing: 3.50 mm

codable

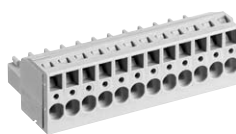
Rated cross section:
1.5 mm²

Rated current:
8 A

Connection range:
0.14 – 1.5 mm² solid / fine stranded



125 V/2.5 kV/3 – Overvoltage category III
250 V/2.5 kV/2 – Overvoltage category II
* 690 V/2.5 kV/1 – Overvoltage category I



* max. 600 V for ungrounded networks or expected
overvoltage ≤ 3 kV for L ≥ 2.00 mm and
≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm



Type 8513 BFK

Type 8513 SUFK

VDE 0110
UL ratings
CSA ratings
Approvals

No. 30 – 16 AWG
No. 22 – 14 AWG

300 V
300 V

8 A
5 A



No. 30 – 16 AWG
No. 22 – 14 AWG

300 V
300 V

8 A
5 A



Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm				Type 8513 BFK	unmarked	marked	
100	6.90	3.50	2	25.630.3253.0	25.630.0253.0		
100	10.40	7.00	3	25.630.3353.0	25.630.0353.0		
50	13.90	10.50	4	25.630.3453.0	25.630.0453.0		
50	17.40	14.00	5	25.630.3553.0	25.630.0553.0		
50	20.90	17.50	6	25.630.3653.0	25.630.0653.0		
50	24.40	21.00	7	25.630.3753.0	25.630.0753.0		
50	27.90	24.50	8	25.630.3853.0	25.630.0853.0		
50	31.40	28.00	9	25.630.3953.0	25.630.0953.0		
50	34.90	31.50	10	25.630.4053.0	25.630.1053.0		
50	38.40	35.00	11	25.630.4153.0	25.630.1153.0		
50	41.90	38.50	12	25.630.4253.0	25.630.1253.0		
50	45.40	42.00	13	25.630.4353.0	25.630.1353.0		
50	48.90	45.50	14	25.630.4453.0	25.630.1453.0		
50	52.40	49.00	15	25.630.4553.0	25.630.1553.0		
50	55.90	52.50	16	25.630.4653.0	25.630.1653.0		
17 to 24pole upon request							
Spacing: 3.50 mm				Type 8513 SUFK	unmarked	marked	
100	8.40	3.50	2		25.642.3253.0	25.642.0253.0	
100	11.90	7.00	3		25.642.3353.0	25.642.0353.0	
50	15.40	10.50	4		25.642.3453.0	25.642.0453.0	
50	18.90	14.00	5		25.642.3553.0	25.642.0553.0	
50	22.40	17.50	6		25.642.3653.0	25.642.0653.0	
50	25.90	21.00	7		25.642.3753.0	25.642.0753.0	
50	29.40	24.50	8		25.642.3853.0	25.642.0853.0	
50	32.90	28.00	9		25.642.3953.0	25.642.0953.0	
50	36.40	31.50	10		25.642.4053.0	25.642.1053.0	
50	39.90	35.00	11		25.642.4153.0	25.642.1153.0	
50	43.40	38.50	12		25.642.4253.0	25.642.1253.0	
	46.90	42.00	13		25.642.4353.0	25.642.1353.0	
	50.40	45.50	14		25.642.4453.0	25.642.1453.0	
	53.90	49.00	15		25.642.4553.0	25.642.1553.0	
	57.40	52.50	16		25.642.4653.0	25.642.1653.0	
17 to 24pole upon request							
Accessories:							
Screwdriver DIN 5264 A 0.4 x 2.5	5			06.502.4300.0			

PC board connectors, pluggable the online distributor of electronic components
rising cage connection, spacing: 3.81 mm
wiecon PCB

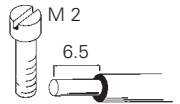
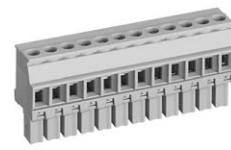
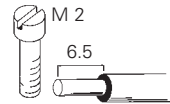
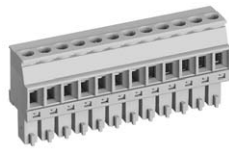
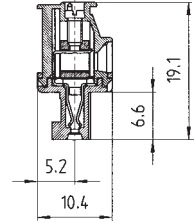
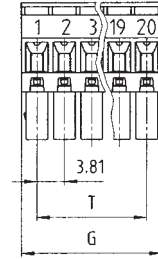
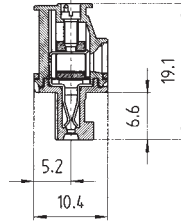
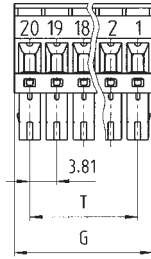
codable
1.5 mm²

Rated cross section:
 1.5 mm²

Rated current:
 8 A

Connection range:
 0.14 – 1.5 mm² solid / fine stranded

125 V/2.5 kV/3 – Overvoltage category III
 250 V/2.5 kV/2 – Overvoltage category II
 * 690 V/2.5 kV/1 – Overvoltage category I



* max. 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.00 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm

Type 8813 B/... VR

vertical right plug, 90° to wire entry

No. 30 – 16 AWG 300 V 8 A
 No. 22 – 14 AWG 300 V 5 A



Type 8813 B/... VL

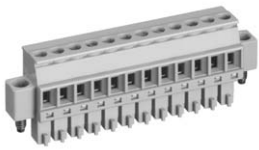
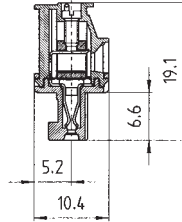
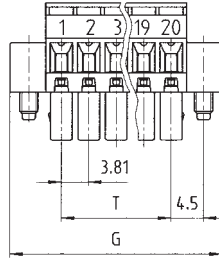
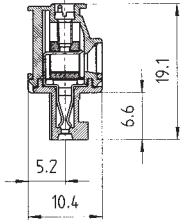
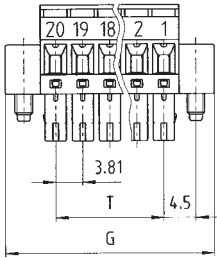
vertical left plug, 90° to wire entry

No. 30 – 16 AWG 300 V 8 A
 No. 22 – 14 AWG 300 V 5 A

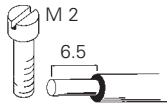


Rated voltages: VDE 0110
 UL ratings
 CSA ratings
 Approvals

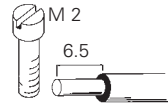
Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.81 mm					unmarked	marked	unmarked	marked
100	18.01	8.41	3.81	2	25.622.3253.0	25.622.0253.0	25.624.3253.0	25.624.0253.0
100	21.82	12.22	7.62	3	25.622.3353.0	25.622.0353.0	25.624.3353.0	25.624.0353.0
50	25.63	16.03	11.43	4	25.622.3453.0	25.622.0453.0	25.624.3453.0	25.624.0453.0
50	29.44	19.84	15.24	5	25.622.3553.0	25.622.0553.0	25.624.3553.0	25.624.0553.0
50	33.25	23.65	19.05	6	25.622.3653.0	25.622.0653.0	25.624.3653.0	25.624.0653.0
50	37.06	27.46	22.86	7	25.622.3753.0	25.622.0753.0	25.624.3753.0	25.624.0753.0
50	40.87	31.27	26.67	8	25.622.3853.0	25.622.0853.0	25.624.3853.0	25.624.0853.0
50	44.68	35.08	30.48	9	25.622.3953.0	25.622.0953.0	25.624.3953.0	25.624.0953.0
50	48.49	38.89	34.29	10	25.622.4053.0	25.622.1053.0	25.624.4053.0	25.624.1053.0
50	52.30	42.70	38.10	11	25.622.4153.0	25.622.1153.0	25.624.4153.0	25.624.1153.0
50	56.11	46.51	41.91	12	25.622.4253.0	25.622.1253.0	25.624.4253.0	25.624.1253.0
50	59.92	50.32	45.72	13	25.622.4353.0	25.622.1353.0	25.624.4353.0	25.624.1353.0
50	63.73	54.13	49.53	14	25.622.4453.0	25.622.1453.0	25.624.4453.0	25.624.1453.0
50	67.54	57.94	53.34	15	25.622.4553.0	25.622.1553.0	25.624.4553.0	25.624.1553.0
50	71.35	61.75	57.15	16	25.622.4653.0	25.622.1653.0	25.624.4653.0	25.624.1653.0
17 to 20pole upon request								



with screw flange



with screw flange



Type 8813 B/... VR F

vertical right plug, 90° to wire entry

No. 30 – 16 AWG 300 V 8 A
No. 22 – 14 AWG 300 V 5 A



Type 8813 B/... VL F

vertical left plug, 90° to wire entry

No. 30 – 16 AWG 300 V 8 A
No. 22 – 14 AWG 300 V 5 A

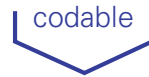


Part no.	Part no.	Part no.	Part no.	
unmarked	marked	unmarked	marked	
25.623.3253.0	25.623.0253.0	25.625.3253.0	25.625.0253.0	
25.623.3353.0	25.623.0353.0	25.625.3353.0	25.625.0353.0	
25.623.3453.0	25.623.0453.0	25.625.3453.0	25.625.0453.0	
25.623.3553.0	25.623.0553.0	25.625.3553.0	25.625.0553.0	
25.623.3653.0	25.623.0653.0	25.625.3653.0	25.625.0653.0	
25.623.3753.0	25.623.0753.0	25.625.3753.0	25.625.0753.0	
25.623.3853.0	25.623.0853.0	25.625.3853.0	25.625.0853.0	
25.623.3953.0	25.623.0953.0	25.625.3953.0	25.625.0953.0	
25.623.4053.0	25.623.1053.0	25.625.4053.0	25.625.1053.0	
25.623.4153.0	25.623.1153.0	25.625.4153.0	25.625.1153.0	
25.623.4253.0	25.623.1253.0	25.625.4253.0	25.625.1253.0	
25.623.4353.0	25.623.1353.0	25.625.4353.0	25.625.1353.0	
25.623.4453.0	25.623.1453.0	25.625.4453.0	25.625.1453.0	
25.623.4553.0	25.623.1553.0	25.625.4553.0	25.625.1553.0	
25.623.4653.0	25.640.1653.0	25.625.4653.0	25.625.1653.0	

Insulated headers for PC board on5.com components.com

Spacings: 3.50/3.81 mm

wiecon PCB

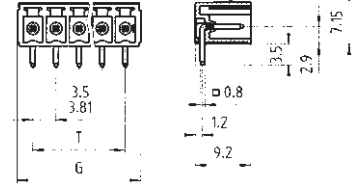
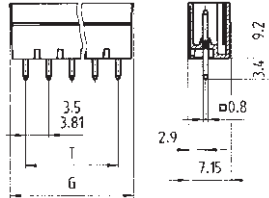


1.5 mm²

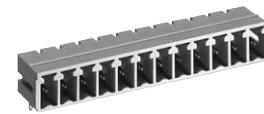
Rated current:
8 A

125 V/2.5 kV/3 – Overvoltage category III
250 V/2.5 kV/2 – Overvoltage category II
* 690 V/2.5 kV/1 – Overvoltage category I

Approvals for type 8513 available soon



Solder pin 0.8 x 0.8 mm
Bore hole Ø 1.2 mm



Solder pin 0.8 x 0.8 mm
Bore hole Ø 1.2 mm

* max. 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.00 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm

Type 8513 S/... G, 8813 S/... G
vertical mount

Type 8513 S/... W, 8813 S/... W
horizontal mount

Rated voltages: VDE 0110

UL ratings

CSA ratings

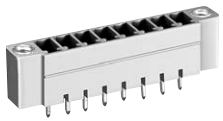
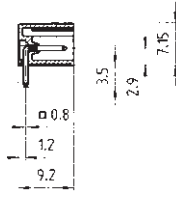
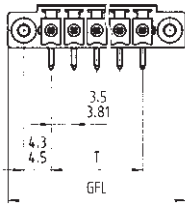
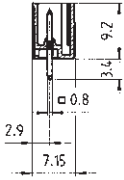
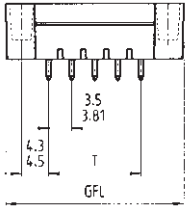
Approvals

300 V 8 A
300 V 5 A

300 V 8 A
300 V 5 A



Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm					unmarked		unmarked	
100	17.40	8.40	3.50	2	25.646.0253.0		25.647.0253.0	
100	20.90	11.90	7.00	3	25.646.0353.0		25.647.0353.0	
50	24.40	15.40	10.50	4	25.646.0453.0		25.647.0453.0	
50	27.90	18.90	14.00	5	25.646.0553.0		25.647.0553.0	
50	31.40	22.40	17.50	6	25.646.0653.0		25.647.0653.0	
50	34.90	25.90	21.00	7	25.646.0753.0		25.647.0753.0	
50	38.40	29.40	24.50	8	25.646.0853.0		25.647.0853.0	
50	41.90	32.90	28.00	9	25.646.0953.0		25.647.0953.0	
50	45.40	36.40	31.50	10	25.646.1053.0		25.647.1053.0	
50	48.90	39.90	35.00	11	25.646.1153.0		25.647.1153.0	
50	52.40	43.40	38.50	12	25.646.1253.0		25.647.1253.0	
50	55.90	46.90	42.00	13	25.646.1353.0		25.647.1353.0	
50	59.40	50.40	45.50	14	25.646.1453.0		25.647.1453.0	
50	62.90	53.90	49.00	15	25.646.1553.0		25.647.1553.0	
50	66.40	57.40	52.50	16	25.646.1653.0		25.647.1653.0	
17 to 20pole upon request								
Spacing: 3.81 mm					unmarked		unmarked	
100	18.01	9.01	3.81	2	25.626.0253.0		25.627.0253.0	
100	21.82	12.82	7.62	3	25.626.0353.0		25.627.0353.0	
50	25.63	16.63	11.43	4	25.626.0453.0		25.627.0453.0	
50	29.44	20.44	15.24	5	25.626.0553.0		25.627.0553.0	
50	33.25	24.25	19.05	6	25.626.0653.0		25.627.0653.0	
50	37.06	28.06	22.86	7	25.626.0753.0		25.627.0753.0	
50	40.87	31.87	26.67	8	25.626.0853.0		25.627.0853.0	
50	44.68	35.68	30.48	9	25.626.0953.0		25.627.0953.0	
50	48.49	39.49	34.29	10	25.626.1053.0		25.627.1053.0	
50	52.30	43.30	38.10	11	25.626.1153.0		25.627.1153.0	
50	56.11	47.11	41.91	12	25.626.1253.0		25.627.1253.0	
50	59.92	50.92	45.72	13	25.626.1353.0		25.627.1353.0	
50	63.73	54.73	49.53	14	25.626.1453.0		25.627.1453.0	
50	67.54	58.54	53.34	15	25.626.1553.0		25.627.1553.0	
50	71.35	62.35	57.15	16	25.626.1653.0		25.627.1653.0	
17 to 20pole upon request								
Accessories:								
Coding piece (strip)	100				05.561.0053.0		05.561.0053.0	
Coding studs are molded into plugs; remove with knife at desired coding location								



with screw flange

Solder pin 0.8 x 0.8 mm
Bore hole Ø 1.2 mm



with screw flange

Solder pin 0.8 x 0.8 mm
Bore hole Ø 1.2 mm

Type 8513 S/... GF, 8813 S/... GF

vertical mount

300 V 8 A
300 V 5 A



Type 8513 S/... WF, 8813 S/... WF

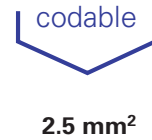
horizontal mount

300 V 8 A
300 V 5 A



Part no.	Part no.	Part no.	Part no.
unmarked		unmarked	
25.646.3253.0		25.647.3253.0	
25.646.3353.0		25.647.3353.0	
25.646.3453.0		25.647.3453.0	
25.646.3553.0		25.647.3553.0	
25.646.3653.0		25.647.3653.0	
25.646.3753.0		25.647.3753.0	
25.646.3853.0		25.647.3853.0	
25.646.3953.0		25.647.3953.0	
25.646.4053.0		25.647.4053.0	
25.646.4153.0		25.647.4153.0	
25.646.4253.0		25.647.4253.0	
25.646.4353.0		25.647.4353.0	
25.646.4453.0		25.647.4453.0	
25.646.4553.0		25.647.4553.0	
25.646.4653.0		25.647.4653.0	
unmarked		unmarked	
25.626.3253.0		25.627.3253.0	
25.626.3353.0		25.627.3353.0	
25.626.3453.0		25.627.3453.0	
25.626.3553.0		25.627.3553.0	
25.626.3653.0		25.627.3653.0	
25.626.3753.0		25.627.3753.0	
25.626.3853.0		25.627.3853.0	
25.626.3953.0		25.627.3953.0	
25.626.4053.0		25.627.4053.0	
25.626.4153.0		25.627.4153.0	
25.626.4253.0		25.627.4253.0	
25.626.4353.0		25.627.4353.0	
25.626.4453.0		25.627.4453.0	
25.626.4553.0		25.627.4553.0	
25.626.4653.0		25.627.4653.0	
05.561.0053.0		05.561.0053.0	

PC board connectors, pluggable the online distributor of electronic components
rising cage connection, spacings: 5.00/5.08 mm
wiecon PCB

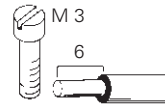
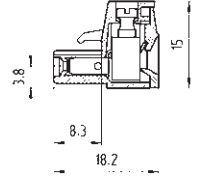
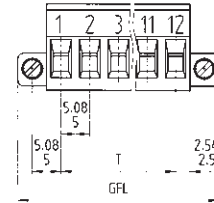
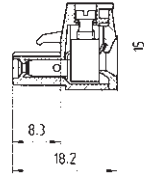
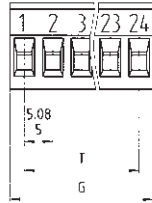


Rated cross section:
2.5 mm²

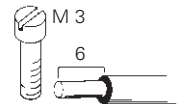
Rated current:
12 A

Connection range:
0.14 – 2.5 mm² solid / fine stranded

250 V/4 kV/3 – Overvoltage category III
 400 V/4 kV/2 – Overvoltage category II
 1000 V/4 kV/1 – Overvoltage category I



Type 8113 B/..., 8213 B/...
plug-in 180° to wire entry



Type 8113 B/... F, 8213 B/... F
plug-in 180° to wire entry

Rated voltages: VDE 0110
 UL ratings
 CSA ratings
 Approvals

No. 22 – 12 AWG 300 V 15 A
 No. 22 – 12 AWG 300 V 15 A

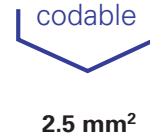
No. 22 – 12 AWG 300 V 15 A
 No. 22 – 12 AWG 300 V 15 A

Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm					Type 8113			
					unmarked	marked	unmarked	marked
100	20	10	5	2	25.320.3253.0	25.320.0253.0	25.322.3253.0	25.322.0253.0
100	25	15	10	3	25.320.3353.0	25.320.0353.0	25.322.3353.0	25.322.0353.0
50	30	20	15	4	25.320.3453.0	25.320.0453.0	25.322.3453.0	25.322.0453.0
50	35	25	20	5	25.320.3553.0	25.320.0553.0	25.322.3553.0	25.322.0553.0
50	40	30	25	6	25.320.3653.0	25.320.0653.0	25.322.3653.0	25.322.0653.0
50	45	35	30	7	25.320.3753.0	25.320.0753.0	25.322.3753.0	25.322.0753.0
50	50	40	35	8	25.320.3853.0	25.320.0853.0	25.322.3853.0	25.322.0853.0
50	55	45	40	9	25.320.3953.0	25.320.0953.0	25.322.3953.0	25.322.0953.0
50	60	50	45	10	25.320.4053.0	25.320.1053.0	25.322.4053.0	25.322.1053.0
50	65	55	50	11	25.320.4153.0	25.320.1153.0	25.322.4153.0	25.322.1153.0
50	70	60	55	12	25.320.4253.0	25.320.1253.0	25.322.4253.0	25.322.1253.0
50	75	65	60	13	25.320.4353.0	25.320.1353.0	25.322.4353.0	25.322.1353.0
50	80	70	65	14	25.320.4453.0	25.320.1453.0	25.322.4453.0	25.322.1453.0
50	85	75	70	15	25.320.4553.0	25.320.1553.0	25.322.4553.0	25.322.1553.0
50	90	80	75	16	25.320.4653.0	25.320.1653.0	25.322.4653.0	25.322.1653.0
					17 to 24pole upon request		17 to 22pole upon request	
Spacing: 5.08 mm					Type 8213			
					unmarked	marked	unmarked	marked
100	20.32	10.16	5.08	2	25.340.3253.0	25.340.0253.0	25.323.3253.0	25.323.0253.0
100	25.40	15.24	10.16	3	25.340.3353.0	25.340.0353.0	25.323.3353.0	25.323.0353.0
50	30.48	20.32	15.24	4	25.340.3453.0	25.340.0453.0	25.323.3453.0	25.323.0453.0
50	35.56	25.40	20.32	5	25.340.3553.0	25.340.0553.0	25.323.3553.0	25.323.0553.0
50	40.64	30.48	25.40	6	25.340.3653.0	25.340.0653.0	25.323.3653.0	25.323.0653.0
50	45.72	35.56	30.48	7	25.340.3753.0	25.340.0753.0	25.323.3753.0	25.323.0753.0
50	50.80	40.64	35.56	8	25.340.3853.0	25.340.0853.0	25.323.3853.0	25.323.0853.0
50	55.88	45.72	40.64	9	25.340.3953.0	25.340.0953.0	25.323.3953.0	25.323.0953.0
50	60.96	50.80	45.72	10	25.340.4053.0	25.340.1053.0	25.323.4053.0	25.323.1053.0
50	66.04	55.88	50.80	11	25.340.4153.0	25.340.1153.0	25.323.4153.0	25.323.1153.0
50	71.12	60.96	55.88	12	25.340.4253.0	25.340.1253.0	25.323.4253.0	25.323.1253.0
50	76.20	66.04	60.96	13	25.340.4353.0	25.340.1353.0	25.323.4353.0	25.323.1353.0
50	81.28	71.12	66.04	14	25.340.4453.0	25.340.1453.0	25.323.4453.0	25.323.1453.0
50	86.36	76.20	71.12	15	25.340.4553.0	25.340.1553.0	25.323.4553.0	25.323.1553.0
50	91.44	81.28	76.20	16	25.340.4653.0	25.340.1653.0	25.323.4653.0	25.323.1653.0
					17 to 22pole upon request		17 to 22pole upon request	
Accessories:								
Coding piece (strip)	100				05.561.9153.0		05.561.9153.0	

PC board connectors, pluggable components.com

rising cage connection, spacings: 7.50/7.62 mm

wiecon PCB

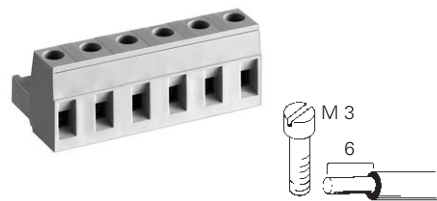
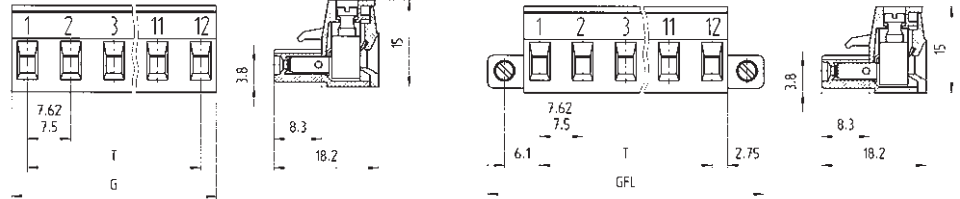


Rated cross section:
2.5 mm²

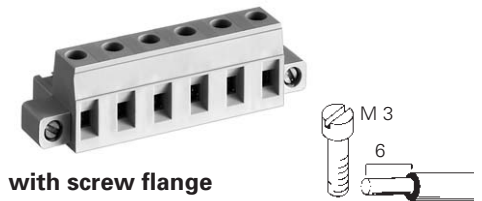
Rated current:
12 A

Connection range:
0.14 – 2.5 mm² solid / fine stranded

400 V/4 kV/3 – Overvoltage category III
690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Type 8313 B/..., 8413 B/...
plug-in 180° to wire entry



Type 8313 B/... F, 8413 B/... F
plug-in 180° to wire entry

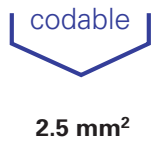
Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

No. 22 – 12 AWG 300 V 15 A
No. 22 – 12 AWG 300 V 15 A

No. 22 – 12 AWG 300 V 15 A
No. 22 – 12 AWG 300 V 15 A

Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 7.50 mm					Type 8313			
					unmarked	marked	unmarked	marked
100	25.54	13.00	7.50	2	25.360.3253.0	25.360.0253.0	25.324.2253.0	25.324.0253.0
100	33.04	20.50	15.00	3	25.360.3353.0	25.360.0353.0	25.324.2353.0	25.324.0353.0
50	40.54	28.00	22.50	4	25.360.3453.0	25.360.0453.0	25.324.2453.0	25.324.0453.0
50	48.04	35.50	30.00	5	25.360.3553.0	25.360.0553.0	25.324.2553.0	25.324.0553.0
50	55.54	43.00	37.50	6	25.360.3653.0	25.360.0653.0	25.324.2653.0	25.324.0653.0
50	63.04	50.50	45.00	7	25.360.3753.0	25.360.0753.0	25.324.2753.0	25.324.0753.0
50	70.54	58.00	52.50	8	25.360.3853.0	25.360.0853.0	25.324.2853.0	25.324.0853.0
50	78.04	65.50	60.00	9	25.360.3953.0	25.360.0953.0	25.324.2953.0	25.324.0953.0
50	85.54	73.00	67.50	10	25.360.4053.0	25.360.1053.0	25.324.3053.0	25.324.1053.0
50	93.04	80.50	75.00	11	25.360.4153.0	25.360.1153.0	25.324.3153.0	25.324.1153.0
50	100.54	88.00	82.50	12	25.360.4253.0	25.360.1253.0	25.324.3253.0	25.324.1253.0
Spacing: 7.62 mm					Type 8413			
					unmarked	marked	unmarked	marked
100	25.66	13.12	7.62	2	25.380.3253.0	25.380.0253.0	25.324.6253.0	25.324.0253.0
100	33.28	20.74	15.24	3	25.380.3353.0	25.380.0353.0	25.324.6353.0	25.324.0353.0
50	40.90	28.36	22.86	4	25.380.3453.0	25.380.0453.0	25.324.6453.0	25.324.0453.0
50	48.52	35.98	30.48	5	25.380.3553.0	25.380.0553.0	25.324.6553.0	25.324.0553.0
50	56.14	43.60	38.10	6	25.380.3653.0	25.380.0653.0	25.324.6653.0	25.324.0653.0
50	63.76	51.22	45.72	7	25.380.3753.0	25.380.0753.0	25.324.6753.0	25.324.0753.0
50	71.38	58.84	53.34	8	25.380.3853.0	25.380.0853.0	25.324.6853.0	25.324.0853.0
50	79.00	66.46	60.96	9	25.380.3953.0	25.380.0953.0	25.324.6953.0	25.324.0953.0
50	86.62	74.08	68.58	10	25.380.4053.0	25.380.1053.0	25.324.7053.0	25.324.1053.0
50	94.24	81.70	76.20	11	25.380.4153.0	25.380.1153.0	25.324.7153.0	25.324.1153.0
50	101.86	89.32	83.82	12	25.380.4253.0	25.380.1253.0	25.324.7253.0	25.324.1253.0
Accessories:								
Coding piece (strip)	100				05.561.9153.0	05.561.9153.0		

PC board connectors, pluggable **wiecon** components.com rising cage connection, spacings 5.00/5.08 mm

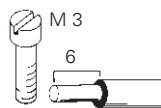
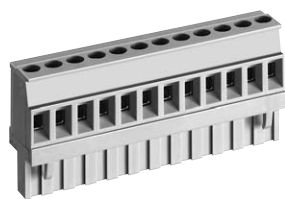
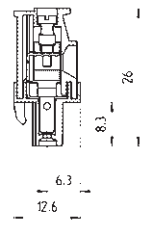
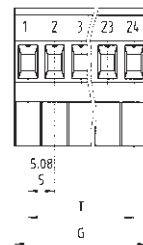
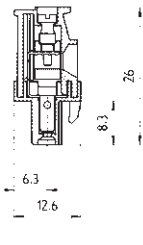
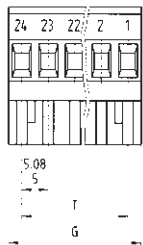


Rated cross section:
2.5 mm²

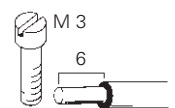
Rated current:
12 A

Connection range:
0.14 – 2.5 mm² solid / fine stranded

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Type 8113 B/... VR, 8213 B/... VR
vertical right plug, 90° to wire entry



Type 8113 B/... VL, 8213 B/... VL
vertical left plug, 90° to wire entry

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

No. 22 – 12 AWG 300 V 15 A
No. 22 – 12 AWG 300 V 15 A

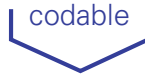
No. 22 – 12 AWG 300 V 15 A
No. 22 – 12 AWG 300 V 15 A



Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm				Type 8113		Type 8113	
				unmarked	marked	unmarked	marked
100	10	5	2	25.325.3253.0	25.325.0253.0	25.326.3253.0	25.326.0253.0
100	15	10	3	25.325.3353.0	25.325.0353.0	25.326.3353.0	25.326.0353.0
50	20	15	4	25.325.3453.0	25.325.0453.0	25.326.3453.0	25.326.0453.0
50	25	20	5	25.325.3553.0	25.325.0553.0	25.326.3553.0	25.326.0553.0
50	30	25	6	25.325.3653.0	25.325.0653.0	25.326.3653.0	25.326.0653.0
50	35	30	7	25.325.3753.0	25.325.0753.0	25.326.3753.0	25.326.0753.0
50	40	35	8	25.325.3853.0	25.325.0853.0	25.326.3853.0	25.326.0853.0
50	45	40	9	25.325.3953.0	25.325.0953.0	25.326.3953.0	25.326.0953.0
50	50	45	10	25.325.4053.0	25.325.1053.0	25.326.4053.0	25.326.1053.0
50	55	50	11	25.325.4153.0	25.325.1153.0	25.326.4153.0	25.326.1153.0
50	60	55	12	25.325.4253.0	25.325.1253.0	25.326.4253.0	25.326.1253.0
50	65	60	13	25.325.4353.0	25.325.1353.0	25.326.4353.0	25.326.1353.0
50	70	65	14	25.325.4453.0	25.325.1453.0	25.326.4453.0	25.326.1453.0
50	75	70	15	25.325.4553.0	25.325.1553.0	25.326.4553.0	25.326.1553.0
50	80	75	16	25.325.4653.0	25.325.1653.0	25.326.4653.0	25.326.1653.0
17 to 24pole upon request							
Spacing: 5.08 mm				Type 8213		Type 8213	
				unmarked	marked	unmarked	marked
100	10.16	5.08	2	25.345.3253.0	25.345.0253.0	25.346.3253.0	25.346.0253.0
100	15.24	10.16	3	25.345.3353.0	25.345.0353.0	25.346.3353.0	25.346.0353.0
50	20.32	15.24	4	25.345.3453.0	25.345.0453.0	25.346.3453.0	25.346.0453.0
50	25.40	20.32	5	25.345.3553.0	25.345.0553.0	25.346.3553.0	25.346.0553.0
50	30.48	25.40	6	25.345.3653.0	25.345.0653.0	25.346.3653.0	25.346.0653.0
50	35.56	30.48	7	25.345.3753.0	25.345.0753.0	25.346.3753.0	25.346.0753.0
50	40.64	35.56	8	25.345.3853.0	25.345.0853.0	25.346.3853.0	25.346.0853.0
50	45.72	40.64	9	25.345.3953.0	25.345.0953.0	25.346.3953.0	25.346.0953.0
50	50.80	45.72	10	25.345.4053.0	25.345.1053.0	25.346.4053.0	25.346.1053.0
50	55.88	50.80	11	25.345.4153.0	25.345.1153.0	25.346.4153.0	25.346.1153.0
50	60.96	55.88	12	25.345.4253.0	25.345.1253.0	25.346.4253.0	25.346.1253.0
50	66.04	60.96	13	25.345.4353.0	25.345.1353.0	25.346.4353.0	25.346.1353.0
50	71.12	66.04	14	25.345.4453.0	25.345.1453.0	25.346.4453.0	25.346.1453.0
50	76.20	71.12	15	25.345.4553.0	25.345.1553.0	25.346.4553.0	25.346.1553.0
50	81.28	76.20	16	25.345.4653.0	25.345.1653.0	25.346.4653.0	25.346.1653.0
17 to 24pole upon request							
Accessories:							
Coding piece (strip)	100			05.561.9153.0		05.561.9153.0	

wiecon

PC board connectors, pluggable onecomponents.com
rising cage connection, spacing: 7.62 mm
wiecon PCB

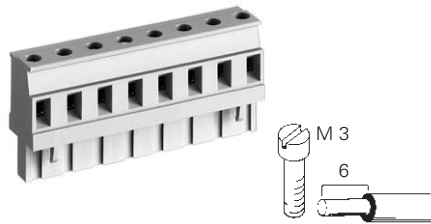
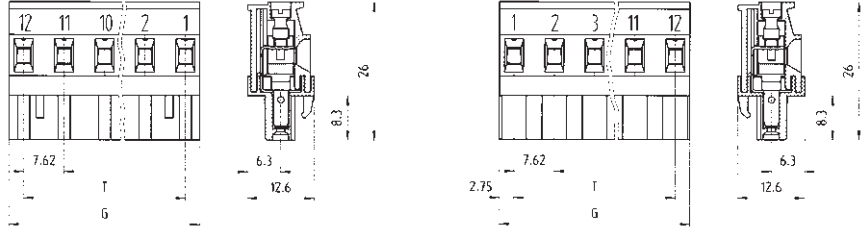


Rated cross section:
2.5 mm²

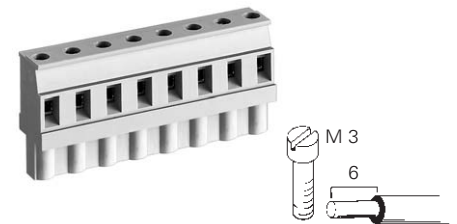
Rated current:
12 A

Connection range:
0.14 – 2.5 mm² solid / fine stranded

400 V/4 kV/3 – Overvoltage category III
 690 V/4 kV/2 – Overvoltage category II
 1000 V/4 kV/1 – Overvoltage category I



Type 8413 B/... VR
vertical right plug, 90° to wire entry



Type 8413 B/... VL
vertical left plug, 90° to wire entry

Rated voltages: VDE 0110
 UL ratings
 CSA ratings
 Approvals

No. 22 – 12 AWG 300 V 15 A
 No. 22 – 12 AWG 300 V 15 A

No. 22 – 12 AWG 300 V 15 A
 No. 22 – 14 AWG 300 V 15 A

Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
				unmarked	marked	unmarked	marked
Spacing: 7.62 mm							
	Type 8413						
a 100	13.12	7.62	2	25.385.2253.0	25.385.0253.0	25.386.2253.0	25.386.0253.0
100	20.74	15.24	3	25.385.2353.0	25.385.0353.0	25.386.2353.0	25.386.0353.0
50	28.36	22.86	4	25.385.2453.0	25.385.0453.0	25.386.2453.0	25.386.0453.0
50	35.98	30.48	5	25.385.2553.0	25.385.0553.0	25.386.2553.0	25.386.0553.0
50	43.60	38.10	6	25.385.2653.0	25.385.0653.0	25.386.2653.0	25.386.0653.0
50	51.22	45.72	7	25.385.2753.0	25.385.0753.0	25.386.2753.0	25.386.0753.0
50	58.84	53.34	8	25.385.2853.0	25.385.0853.0	25.386.2853.0	25.386.0853.0
50	66.46	60.96	9	25.385.2953.0	25.385.0953.0	25.386.2953.0	25.386.0953.0
50	74.08	68.58	10	25.385.3053.0	25.385.1053.0	25.386.3053.0	25.386.1053.0
50	81.70	76.20	11	25.385.3153.0	25.385.1153.0	25.386.3153.0	25.386.1153.0
50	89.32	83.82	12	25.385.3253.0	25.385.1253.0	25.386.3253.0	25.386.1253.0
Accessories:							
Coding piece (strip)	100			05.561.9153.0		05.561.9153.0	

Crimp connection

wiecon

Rated cross section:
1.0 or 2.5 mm²

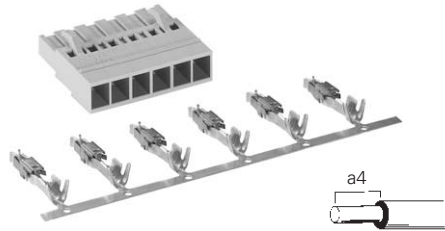
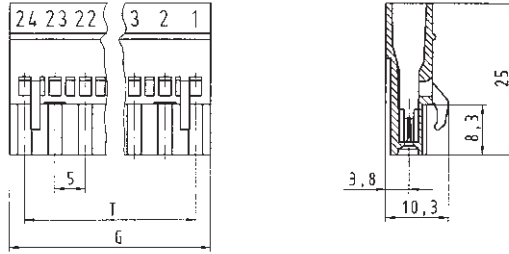
Rated current:
10 A with a 1.0 mm² wire and 0.5 – 1.0 mm² contacts

12 A with a 2.5 mm² wire and 1.5 – 2.5 mm² contacts

Contacts for connection range:
0.5 – 1.0 mm² fine stranded
(insulation diameter 1.4 – 2.3 mm)

Connection range:
0.5 – 1.0 mm² fine stranded
(insulation diameter 1.4 – 3.1 mm)

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Type 8113 BK

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

No. 22 – 12 AWG
300 V 15 A
UL pending

Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm				unmarked	marked		
100	10	5	2	01.060.3253.0	01.060.0253.0		
100	15	10	3	01.060.3353.0	01.060.0353.0		
50	20	15	4	01.060.3453.0	01.060.0453.0		
50	25	20	5	01.060.3553.0	01.060.0553.0		
50	30	25	6	01.060.3653.0	01.060.0653.0		
50	35	30	7	01.060.3753.0	01.060.0753.0		
50	40	35	8	01.060.3853.0	01.060.0853.0		
50	45	40	9	01.060.3953.0	01.060.0953.0		
50	50	45	10	01.060.4053.0	01.060.1053.0		
50	55	50	11	01.060.4153.0	01.060.1153.0		
50	60	55	12	01.060.4253.0	01.060.1253.0		
50	65	60	13	01.060.4353.0	01.060.1353.0		
50	70	65	14	01.060.4453.0	01.060.1453.0		
50	75	70	15	01.060.4553.0	01.060.1553.0		
50	80	75	16	01.060.4653.0	01.060.1653.0		
				17 to 24pole upon request			
Accessories:							
Crimp contacts							
Single contacts	500	0.5 – 1.0 mm ²	20-18 AWG	02.125.1629.0			
Single contacts	500	1.5 – 2.5 mm ²	16-14 AWG	02.125.1729.0			
Reel contacts	4000	0.5 – 1.0 mm ²	20-18 AWG	02.125.1600.0			
Reel contacts	3500	1.5 – 2.5 mm ²	16-14 AWG	02.125.1700.0			
Crimping tool:							
Crimping tool				95.101.0800.0			
Crimp dies				05.502.2500.0			

PC board connectors, spring clamp connection spacings 5.00/5.08 mm

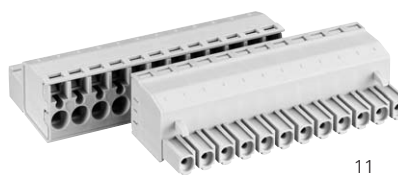
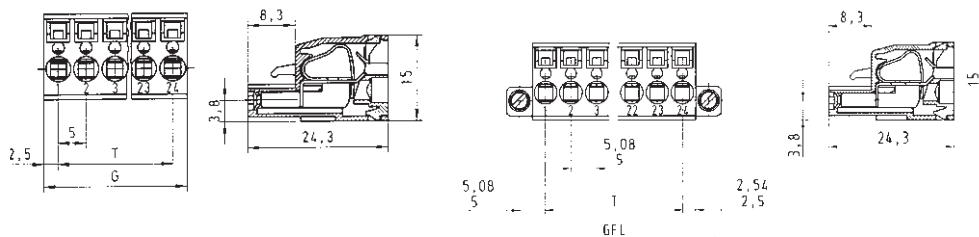
wiecon PCB

Rated cross section*:
2.5 mm²

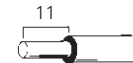
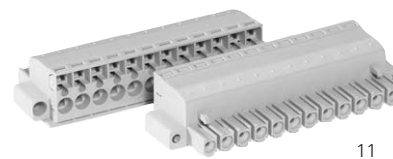
Rated current:
12 A

Connection range:
0.14 – 2.5 mm² solid / fine stranded

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Type 8113/8213 BFK



Type 8113/8213 BFK .../F

* When using ferrules for conductor cross section of 2.5 mm, use only ferrule no. 05.596.6127.0.

Rated voltages: VDE 0110

UL ratings

CSA ratings

Approvals

No. 22 – 12 AWG 300 V 12 A
No. 22 – 12 AWG 300 V 12 A



No. 22 – 12 AWG 300 V 12 A
No. 22 – 12 AWG 300 V 12 A



Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm					unmarked	marked	unmarked	marked
100	22.54	10	5	2	25.820.3253.0	25.820.0253.0	25.821.3253.0	25.821.0253.0
100	27.54	15	10	3	25.820.3353.0	25.820.0353.0	25.821.3353.0	25.821.0353.0
50	32.54	20	15	4	25.820.3453.0	25.820.0453.0	25.821.3453.0	25.821.0453.0
50	37.54	25	20	5	25.820.3553.0	25.820.0553.0	25.821.3553.0	25.821.0553.0
50	42.54	30	25	6	25.820.3653.0	25.820.0653.0	25.821.3653.0	25.821.0653.0
50	47.54	35	30	7	25.820.3753.0	25.820.0753.0	25.821.3753.0	25.821.0753.0
50	52.54	40	35	8	25.820.3853.0	25.820.0853.0	25.821.3853.0	25.821.0853.0
50	57.54	45	40	9	25.820.3953.0	25.820.0953.0	25.821.3953.0	25.821.0953.0
50	62.54	50	45	10	25.820.4053.0	25.820.1053.0	25.821.4053.0	25.821.1053.0
50	67.54	55	50	11	25.820.4153.0	25.820.1153.0	25.821.4153.0	25.821.1153.0
50	72.54	60	55	12	25.820.4253.0	25.820.1253.0	25.821.4253.0	25.821.1253.0
50	77.54	65	60	13	25.820.4353.0	25.820.1353.0	25.821.4353.0	25.821.1353.0
50	82.54	70	65	14	25.820.4453.0	25.820.1453.0	25.821.4453.0	25.821.1453.0
50	87.54	75	70	15	25.820.4553.0	25.820.1553.0	25.821.4553.0	25.821.1553.0
50	92.54	80	75	16	25.820.4653.0	25.820.1653.0	25.821.4653.0	25.821.1653.0
					17 to 24pole upon request		17 to 24pole upon request	
Spacing: 5.08 mm					unmarked	marked	unmarked	marked
100	22.70	10.16	5.08	2	25.840.3253.0	25.840.0253.0	25.841.3253.0	25.841.0253.0
100	27.78	15.24	10.16	3	25.840.3353.0	25.840.0353.0	25.841.3353.0	25.841.0353.0
50	32.86	20.32	15.24	4	25.840.3453.0	25.840.0453.0	25.841.3453.0	25.841.0453.0
50	37.94	25.40	20.32	5	25.840.3553.0	25.840.0553.0	25.841.3553.0	25.841.0553.0
50	43.02	30.48	25.40	6	25.840.3653.0	25.840.0653.0	25.841.3653.0	25.841.0653.0
50	48.10	35.56	30.48	7	25.840.3753.0	25.840.0753.0	25.841.3753.0	25.841.0753.0
50	53.18	40.64	35.56	8	25.840.3853.0	25.840.0853.0	25.841.3853.0	25.841.0853.0
50	58.26	45.72	40.64	9	25.840.3953.0	25.840.0953.0	25.841.3953.0	25.841.0953.0
50	63.34	50.80	45.72	10	25.840.4053.0	25.840.1053.0	25.841.4053.0	25.841.1053.0
50	68.42	55.88	50.80	11	25.840.4153.0	25.840.1153.0	25.841.4153.0	25.841.1153.0
50	73.50	60.96	55.88	12	25.840.4253.0	25.840.1253.0	25.841.4253.0	25.841.1253.0
50	78.58	66.04	60.96	13	25.840.4353.0	25.840.1353.0	25.841.4353.0	25.841.1353.0
50	83.66	71.12	66.04	14	25.840.4453.0	25.840.1453.0	25.841.4453.0	25.841.1453.0
50	88.74	76.20	71.12	15	25.840.4553.0	25.840.1553.0	25.841.4553.0	25.841.1553.0
50	93.82	81.28	76.20	16	25.840.4653.0	25.840.1653.0	25.841.4653.0	25.841.1653.0
					17 to 24pole upon request		17 to 24pole upon request	

PC board connectors, spring clamp connection

Spacings: 5.08 mm

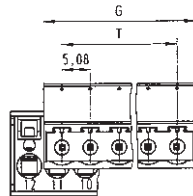


2.5 mm²

Rated cross section*:
2.5 mm²

Rated current:
12 A

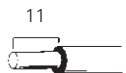
Connection range:
0,14 – 2.5 mm² solid / fine stranded



250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



* When using ferrules for conductor cross section of 2.5 mm, use only ferrule no. 05.596.6127.0.



Type 8213 SUFK

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals available soon

No. 22 – 12 AWG 300 V 12 A
No. 22 – 12 AWG 300 V 12 A



Std. pack	G	T	Poles	Part no. unmarked	Part no. marked
Spacing: 5.08 mm					
100	10.16	5.08	2	25.857.3253.0	25.857.0253.0
100	15.24	10.16	3	25.857.3353.0	25.857.0353.0
50	20.32	15.24	4	25.857.3453.0	25.857.0453.0
50	25.40	20.32	5	25.857.3553.0	25.857.0553.0
50	30.48	25.40	6	25.857.3653.0	25.857.0653.0
50	35.56	30.48	7	25.857.3753.0	25.857.0753.0
50	40.64	35.56	8	25.857.3853.0	25.857.0853.0
50	45.72	40.64	9	25.857.3953.0	25.857.0953.0
50	50.80	45.72	10	25.857.4053.0	25.857.1053.0
50	55.88	50.80	11	25.857.4153.0	25.857.1153.0
50	60.96	55.88	12	25.857.4253.0	25.857.1253.0
50	66.04	60.96	13	25.857.4353.0	25.857.1353.0
50	71.12	66.04	14	25.857.4453.0	25.857.1453.0
50	76.20	71.12	15	25.857.4553.0	25.857.1553.0
50	81.28	76.20	16	25.857.4653.0	25.857.1653.0
17 to 24pole upon request					
Accessories:					
Coding piece (strip)	100			05.561.9153.0	
Screwdriver DIN 5264 A 0.6 x 3.5	5			06.502.4000.0	



PC board connectors, spring clamp connection

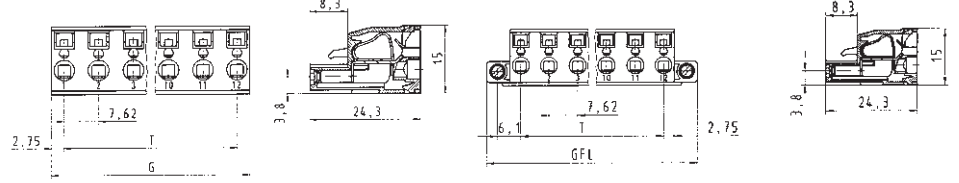
Spacing: 7.62 mm

wiecon PCB

Rated cross section*:
2.5 mm²

Rated current:
12 A

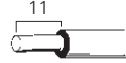
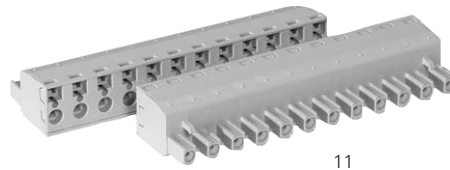
Connection range:
0.14 – 2.5 mm² solid / fine stranded



400 V/6 kV/3 – Overvoltage category III
 ** 690 V/6 kV/2 – Overvoltage category II
 1000 V/6 kV/1 – Overvoltage category I

* When using ferrules for conductor cross section of 2.5 mm, use only ferrule no. 05.596.6127.0.

** max. 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.00 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm



Type 8413 BFK



Type 8413 BFK/... F

VDE 0110
 UL ratings
 CSA ratings
 Approvals

No. 22 – 12 AWG
 No. 22 – 12 AWG

300 V 12 A
 300 V 12 A

No. 22 – 12 AWG
 No. 22 – 12 AWG

300 V 12 A
 300 V 12 A



	Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 7.62 mm						unmarked	marked	unmarked	marked
	100	25.66	13.12	7.62	2	25.880.3253.0	25.880.0253.0	25.881.3253.0	25.881.0253.0
	100	33.28	20.74	15.24	3	25.880.3353.0	25.880.0353.0	25.881.3353.0	25.881.0353.0
	50	40.90	28.36	22.86	4	25.880.3453.0	25.880.0453.0	25.881.3453.0	25.881.0453.0
	50	48.52	35.98	30.48	5	25.880.3553.0	25.880.0553.0	25.881.3553.0	25.881.0553.0
	50	56.14	43.60	38.10	6	25.880.3653.0	25.880.0653.0	25.881.3653.0	25.881.0653.0
	50	63.76	51.22	45.72	7	25.880.3753.0	25.880.0753.0	25.881.3753.0	25.881.0753.0
	50	71.38	58.84	53.34	8	25.880.3853.0	25.880.0853.0	25.881.3853.0	25.881.0853.0
	50	79.00	66.46	60.96	9	25.880.3953.0	25.880.0953.0	25.881.3953.0	25.881.0953.0
	50	86.62	74.08	68.58	10	25.880.4053.0	25.880.1053.0	25.881.4053.0	25.881.1053.0
	50	94.24	81.70	76.20	11	25.880.4153.0	25.880.1153.0	25.881.4153.0	25.881.1153.0
	50	101.86	89.32	83.82	12	25.880.4253.0	25.880.1253.0	25.881.4253.0	25.881.1253.0

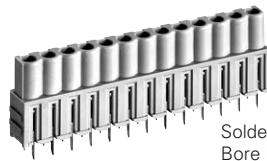
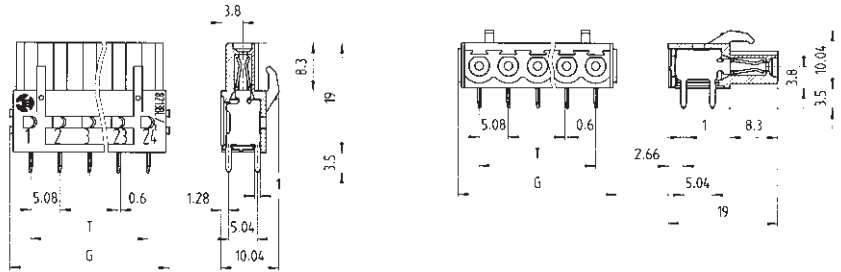
PC board connector, inverted plug/solder version

Spacing: 5.08 mm

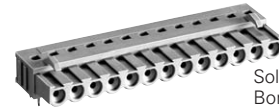


Rated current:
12 A

250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Solder pin 0.6 x 1 mm
Bore hole Ø 1.2 mm



Solder pin 0.6 x 1 mm
Bore hole Ø 1.2 mm

* max. 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for $L \geq 2.00$ mm and ≤ 2.5 kV for 2.0 mm $> L \geq 1.5$ mm

Type 8213 BL/... G
plug-in vertical to PC board

Type 8213 BL/... W
plug-in horizontal to PC board

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

300 V 15 A
300 V 15 A

300 V 15 A
300 V 15 A



Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
				unmarked	marked	unmarked	marked
100	12.36	5.08	2	25.342.3253.0	25.342.0253.0	25.343.3253.0	25.343.0253.0
100	17.44	10.16	3	25.342.3353.0	25.342.0353.0	25.343.3353.0	25.343.0353.0
50	22.52	15.24	4	25.342.3453.0	25.342.0453.0	25.343.3453.0	25.343.0453.0
50	27.60	20.32	5	25.342.3553.0	25.342.0553.0	25.343.3553.0	25.343.0553.0
50	32.68	25.40	6	25.342.3653.0	25.342.0653.0	25.343.3653.0	25.343.0653.0
50	37.76	30.48	7	25.342.3753.0	25.342.0753.0	25.343.3753.0	25.343.0753.0
50	42.84	35.56	8	25.342.3853.0	25.342.0853.0	25.343.3853.0	25.343.0853.0
50	47.92	40.64	9	25.342.3953.0	25.342.0953.0	25.343.3953.0	25.343.0953.0
50	53.00	45.72	10	25.342.4053.0	25.342.1053.0	25.343.4053.0	25.343.1053.0
50	58.08	50.80	11	25.342.4153.0	25.342.1153.0	25.343.4153.0	25.343.1153.0
50	63.16	55.88	12	25.342.4253.0	25.342.1253.0	25.343.4253.0	25.343.1253.0
50	68.24	60.96	13	25.342.4353.0	25.342.1353.0	25.343.4353.0	25.343.1353.0
50	73.32	66.04	14	25.342.4453.0	25.342.1453.0	25.343.4453.0	25.343.1453.0
50	78.40	71.12	15	25.342.4553.0	25.342.1553.0	25.343.4553.0	25.343.1553.0
50	83.48	76.20	16	25.342.4653.0	25.342.1653.0	25.343.4653.0	25.343.1653.0
17 to 24pole upon request							
Accessories:							
Coding piece (strip)	100			05.561.9153.0		05.561.9153.0	
Fixing device	100			Z5.523.7853.0		Z5.523.7753.0	

wiecon

Spacings: 5.00/5.08 mm

wiecon PCB

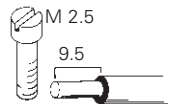
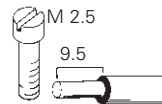
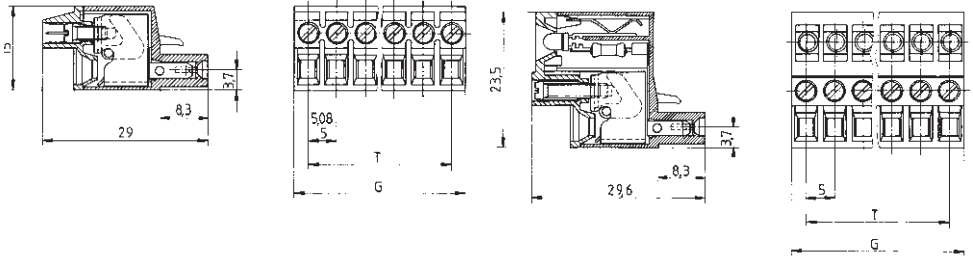
Rated cross section:
2.5 mm²

Rated current:
12 A, feed through current 2.2 mA per LED

Rated voltages:
Type 8113 B/... TOP, 8213 B/... TOP
250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

Type 8113 B/... TOP LED
24 V/4 kV/3 – Overvoltage category III
24 V/4 kV/2 – Overvoltage category II
24 V/4 kV/1 – Overvoltage category I

Connection range:
0.14 – 2.5 mm² solid / fine stranded



**TOP connection
LED with
common
negative pole**

Type 8113 B/... TOP, 8213 B/... TOP
plug-in 180° to wire entry

Type 8113 B/... TOP LED
plug-in 180° to wire entry

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

No. 22 – 12 AWG 300 V 15 A
No. 22 – 12 AWG 300 V 15 A

No. 22 – 12 AWG 24 V 15 A
No. 22 – 12 AWG 24 V 15 A

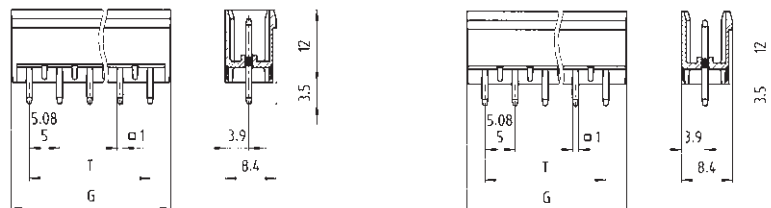


Std. pack	TOP	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm					unmarked	marked	unmarked	marked
100	250	10	5	2	25.220.3253.0	25.220.0253.0	25.230.3253.0	25.230.0253.0
100	250	15	10	3	25.220.3353.0	25.220.0353.0	25.230.3353.0	25.230.0353.0
50	200	20	15	4	25.220.3453.0	25.220.0453.0	25.230.3453.0	25.230.0453.0
50	200	25	20	5	25.220.3553.0	25.220.0553.0	25.230.3553.0	25.230.0553.0
50	200	30	25	6	25.220.3653.0	25.220.0653.0	25.230.3653.0	25.230.0653.0
50	100	35	30	7	25.220.3753.0	25.220.0753.0	25.230.3753.0	25.230.0753.0
50	100	40	35	8	25.220.3853.0	25.220.0853.0	25.230.3853.0	25.230.0853.0
50	100	45	40	9	25.220.3953.0	25.220.0953.0	25.230.3953.0	25.230.0953.0
50	100	50	45	10	25.220.4053.0	25.220.1053.0	25.230.4053.0	25.230.1053.0
50	100	55	50	11	25.220.4153.0	25.220.1153.0	25.230.4153.0	25.230.1153.0
50	100	60	55	12	25.220.4253.0	25.220.1253.0	25.230.4253.0	25.230.1253.0
50	50	65	60	13	25.220.4353.0	25.220.1353.0	25.230.4353.0	25.230.1353.0
50	50	70	65	14	25.220.4453.0	25.220.1453.0	25.230.4453.0	25.230.1453.0
50	50	75	70	15	25.220.4553.0	25.220.1553.0	25.230.4553.0	25.230.1553.0
50	50	80	75	16	25.220.4653.0	25.220.1653.0	25.230.4653.0	25.230.1653.0
117 to 24pole upon request								
Spacing: 5.08 mm					unmarked	marked		
100	250	10.16	5.08	2	25.240.3253.0	25.240.0253.0		
100	250	15.24	10.16	3	25.240.3353.0	25.240.0353.0		
50	200	20.32	15.24	4	25.240.3453.0	25.240.0453.0		
50	200	25.40	20.32	5	25.240.3553.0	25.240.0553.0		
50	200	30.48	25.40	6	25.240.3653.0	25.240.0653.0		
50	100	35.56	30.48	7	25.240.3753.0	25.240.0753.0		
50	100	40.64	35.56	8	25.240.3853.0	25.240.0853.0		
50	100	45.72	40.64	9	25.240.3953.0	25.240.0953.0		
50	100	50.80	45.72	10	25.240.4053.0	25.240.1053.0		
50	100	55.88	50.80	11	25.240.4153.0	25.240.1153.0		
50	100	60.96	55.88	12	25.240.4253.0	25.240.1253.0		
50	50	66.04	60.96	13	25.240.4353.0	25.240.1353.0		
50	50	71.12	66.04	14	25.240.4453.0	25.240.1453.0		
50	50	76.20	71.12	15	25.240.4553.0	25.240.1553.0		
50	50	81.28	76.20	16	25.240.4653.0	25.240.1653.0		
17 to 24pole upon request								



Rated current:
12 A

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

closed version



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

open version

Type 8113 S/... G, 8213 S/... G
vertical mount

Type 8113 S/... GOF, 8213 S/... GOF
vertical mount

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

300 V 15 A
300 V 15 A

300 V 15 A
300 V 15 A



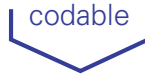
Std. pack	G	T	Poles	Part no.	Part no.	G	T	Part no.
Spacing: 5.00 mm				unmarked		unmarked		
100	10.16	5	2	25.330.3253.0		10	5	99.202.9996.0
100	15.24	10	3	25.330.3353.0		15	10	99.203.9996.0
50	20.32	15	4	25.330.3453.0		20	15	99.204.9996.0
50	25.40	20	5	25.330.3553.0		25	20	99.205.9996.0
50	30.48	25	6	25.330.3653.0		30	25	99.206.9996.0
50	35.56	30	7	25.330.3753.0		35	30	99.207.9996.0
50	40.64	35	8	25.330.3853.0		40	35	99.208.9996.0
50	45.72	40	9	25.330.3953.0		45	40	99.209.9996.0
50	50.80	45	10	25.330.4053.0		50	45	99.210.9996.0
50	55.88	50	11	25.330.4153.0		55	50	99.211.9996.0
50	60.96	55	12	25.330.4253.0		60	55	99.212.9996.0
50	66.04	60	13	25.330.4353.0		65	60	99.213.9996.0
50	71.12	65	14	25.330.4453.0		70	65	99.214.9996.0
50	76.20	70	15	25.330.4553.0		75	70	99.215.9996.0
50	81.28	75	16	25.330.4653.0		80	75	99.216.9996.0
17 to 24pole upon request						17 to 24pole upon request		
Spacing: 5.08 mm				unmarked		unmarked		
100	11.56	5.08	2	25.350.3253.0		10.16	5.08	99.232.9996.1
100	16.64	10.16	3	25.350.3353.0		15.24	10.16	99.233.9996.1
50	21.72	15.24	4	25.350.3453.0		20.32	15.24	99.234.9996.1
50	26.80	20.32	5	25.350.3553.0		25.40	20.32	99.235.9996.1
50	31.88	25.40	6	25.350.3653.0		30.48	25.40	99.236.9996.1
50	36.96	30.48	7	25.350.3753.0		35.56	30.48	99.237.9996.1
50	42.04	35.56	8	25.350.3853.0		40.64	35.56	99.238.9996.1
50	47.12	40.64	9	25.350.3953.0		45.72	40.64	99.239.9996.1
50	52.20	45.72	10	25.350.4053.0		50.80	45.72	99.240.9996.1
50	57.28	50.80	11	25.350.4153.0		55.88	50.80	99.241.9996.1
50	62.36	55.88	12	25.350.4253.0		60.96	55.88	99.242.9996.1
50	67.44	60.96	13	25.350.4353.0		66.04	60.96	99.243.9996.1
50	72.52	66.04	14	25.350.4453.0		70.12	66.04	99.244.9996.1
50	77.60	71.12	15	25.350.4553.0		75.20	71.12	99.245.9996.1
50	82.68	76.20	16	25.350.4653.0		80.28	76.20	99.246.9996.1
17 to 24pole upon request						17 to 24pole upon request		
Accessories:								
Coding piece (strip)	100			05.561.0053.0		05.561.0053.0		
Fixing device assembly - for screw flanges on both sides of the header	100			Z5.523.2453.0				

wiecon

Insulated headers for PC board on5iccomponents.com

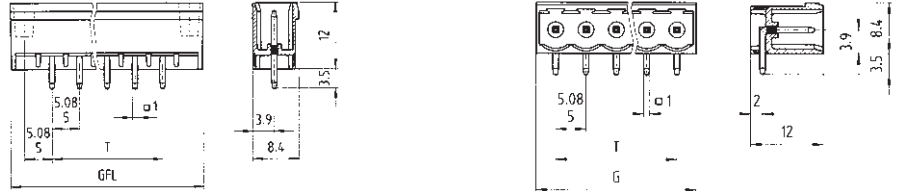
Spacings: 5.00/5.08 mm

wiecon PCB



Rated current:
12 A

Rated voltages:
250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

with screw flange

Type 8113 S/... GF, 8213 S/... GF
vertical mount



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

closed version

Type 8113 S/... W, 8213 S/... W
horizontal mount

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

300 V 15 A
300 V 15 A

300 V 15 A
300 V 15 A



	Std. pack	G	T	Poles	Part no.	Part no.	GFL	T	Part no.
Spacing: 5.00 mm					unmarked				unmarked
	100	11.40	5	2	25.338.3253.0		20	5	25.332.3253.0
	100	16.40	10	3	25.338.3353.0		25	10	25.332.3353.0
	50	21.40	15	4	25.338.3453.0		30	15	25.332.3453.0
	50	26.40	20	5	25.338.3553.0		35	20	25.332.3553.0
	50	31.40	25	6	25.338.3653.0		40	25	25.332.3653.0
	50	36.40	30	7	25.338.3753.0		45	30	25.332.3753.0
	50	41.40	35	8	25.338.3853.0		50	35	25.332.3853.0
	50	46.40	40	9	25.338.3953.0		55	40	25.332.3953.0
	50	51.40	45	10	25.338.4053.0		60	45	25.332.4053.0
	50	56.40	50	11	25.338.4153.0		65	50	25.332.4153.0
	50	61.40	55	12	25.338.4253.0		70	55	25.332.4253.0
	50	66.40	60	13	25.338.4353.0		75	60	25.332.4353.0
	50	71.40	65	14	25.338.4453.0		80	65	25.332.4453.0
	50	76.40	70	15	25.338.4553.0		85	70	25.332.4553.0
	50	81.40	75	16	25.338.4653.0		90	75	25.332.4653.0
					17 to 22pole upon request				17 to 24pole upon request
Spacing: 5.08 mm					unmarked				unmarked
	100	11.56	5.08	2	25.359.3253.0		20.32	5.08	25.352.3253.0
	100	16.64	10.16	3	25.359.3353.0		25.40	10.16	25.352.3353.0
	50	21.72	15.24	4	25.359.3453.0		30.48	15.24	25.352.3453.0
	50	26.80	20.32	5	25.359.3553.0		35.56	20.32	25.352.3553.0
	50	31.88	25.40	6	25.359.3653.0		40.64	25.40	25.352.3653.0
	50	36.96	30.48	7	25.359.3753.0		45.72	30.48	25.352.3753.0
	50	42.04	35.56	8	25.359.3853.0		50.80	35.56	25.352.3853.0
	50	47.12	40.64	9	25.359.3953.0		55.88	40.64	25.352.3953.0
	50	52.20	45.72	10	25.359.4053.0		60.96	45.72	25.352.4053.0
	50	57.28	50.80	11	25.359.4153.0		66.04	50.80	25.352.4153.0
	50	62.36	55.88	12	25.359.4253.0		71.12	55.88	25.352.4253.0
	50	67.44	60.96	13	25.359.4353.0		76.20	60.96	25.352.4353.0
	50	72.52	66.04	14	25.359.4453.0		81.28	66.04	25.352.4453.0
	50	77.60	71.12	15	25.359.4553.0		86.36	71.12	25.352.4553.0
	50	82.68	76.20	16	25.359.4653.0		91.44	76.20	25.352.4653.0
					17 to 22pole upon request				17 to 24pole upon request
Accessories:									
Coding piece (strip)	100				05.561.0053.0		05.561.0053.0		
Fixing device assembly - for screw flanges on both sides of the header	100				Z5.523.2453.0		Z5.523.2453.0		

Insulated headers for PC boards onlinecomponents.com

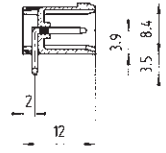
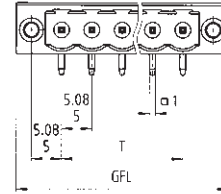
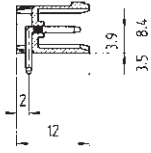
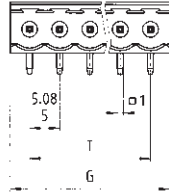
Spacings: 5.00/5.08 mm

THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

codable

Rated current:
12 A

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

open version



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

with screw flange

Type 8113 S/... WOF, 8213 S/... WOF
horizontal mount

Type 8113 S/... WF, 8213 S/... WF
horizontal mount

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

300 V 15 A
300 V 15 A

300 V 15 A
300 V 15 A



Std. pack	G	T	Poles	Part no.	Part no.	GFL	G	T	Part no.	
Spacing: 5.00 mm				unmarked			unmarked			
100	11.40	5	2	99.262.9996.0		20	10	5	25.339.3253.0	
100	16.40	10	3	99.263.9996.0		25	15	10	25.339.3353.0	
50	21.40	15	4	99.264.9996.0		30	20	15	25.339.3453.0	
50	26.40	20	5	99.265.9996.0		35	25	20	25.339.3553.0	
50	31.40	25	6	99.266.9996.0		40	30	25	25.339.3653.0	
50	36.40	30	7	99.267.9996.0		45	35	30	25.339.3753.0	
50	41.40	35	8	99.268.9996.0		50	40	35	25.339.3853.0	
50	46.40	40	9	99.269.9996.0		55	45	40	25.339.3953.0	
50	51.40	45	10	99.270.9996.0		60	50	45	25.339.4053.0	
50	56.40	50	11	99.271.9996.0		65	55	50	25.339.4153.0	
50	61.40	55	12	99.272.9996.0		70	60	55	25.339.4253.0	
50	66.40	60	13	99.273.9996.0		75	65	60	25.339.4353.0	
50	71.40	65	14	99.274.9996.0		80	70	65	25.339.4453.0	
50	76.40	70	15	99.275.9996.0		85	75	70	25.339.4553.0	
50	81.40	75	16	99.276.9996.0		90	80	75	25.339.4653.0	
17 to 24pole upon request							17 to 22pole upon request			
Spacing: 5.08 mm				unmarked			unmarked			
100	11.56	5.08	2	99.202.9996.2		20.32	10.16	5.08	25.358.3253.0	
100	16.64	10.16	3	99.203.9996.2		25.40	15.24	10.16	25.358.3353.0	
50	21.72	15.24	4	99.204.9996.2		30.48	20.32	15.24	25.358.3453.0	
50	26.80	20.32	5	99.205.9996.2		35.56	25.40	20.32	25.358.3553.0	
50	31.88	25.40	6	99.206.9996.2		40.64	30.48	25.40	25.358.3653.0	
50	36.96	30.48	7	99.207.9996.2		45.72	35.56	30.48	25.358.3753.0	
50	42.04	35.56	8	99.208.9996.2		50.80	40.64	35.56	25.358.3853.0	
50	47.12	40.64	9	99.209.9996.2		55.88	45.72	40.64	25.358.3953.0	
50	52.20	45.72	10	99.210.9996.2		60.96	50.80	45.72	25.358.4053.0	
50	57.28	50.80	11	99.211.9996.2		66.04	55.88	50.80	25.358.4153.0	
50	62.36	55.88	12	99.212.9996.2		71.12	60.96	55.88	25.358.4253.0	
50	67.44	60.96	13	99.213.9996.2		76.20	66.04	60.96	25.358.4353.0	
50	72.52	66.04	14	99.214.9996.2		81.28	71.12	66.04	25.358.4453.0	
50	77.60	71.12	15	99.215.9996.2		86.36	76.20	71.12	25.358.4553.0	
50	82.68	76.20	16	99.216.9996.2		91.44	81.28	76.20	25.358.4653.0	
17 to 24pole upon request							17 to 22pole upon request			
Accessories:										
Coding piece (strip)	100				05.561.0053.0					05.561.0053.0
Fixing device assembly - for screw flanges on both sides of the header	100				Z5.523.2453.0					

Insulated headers for PC board on5iccomponents.com

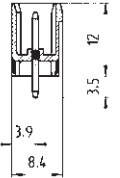
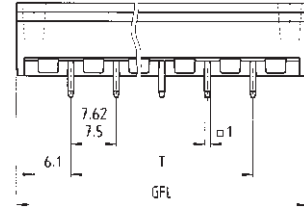
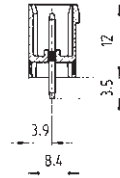
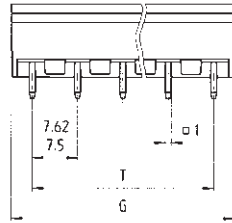
Spacings: 7.50/7.62 mm

wiecon PCB

codable

Rated current:
12 A

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

closed version

Type 8313 S/... G, 8413 S/... G
vertical mount



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

with screw flange

Type 8313 S/... GF, 8413 S/... GF
vertical mount

Rated voltages: VDE 0110

UL ratings

CSA ratings

Approvals

300 V 15 A
300 V 15 A

300 V 15 A
300 V 15 A



Std. pack	G	T	Poles	Part no.	Part no.	GFL	T	Part no.
Spacing: 7.50 mm				unmarked				unmarked
100	14.20	7.50	2	25.370.3253.0		25.54	7,50	25.374.6253.0
100	21.70	15.00	3	25.370.3353.0		33.04	15,00	25.374.6353.0
50	29.20	22.50	4	25.370.3453.0		40.54	22,50	25.374.6453.0
50	36.70	30.00	5	25.370.3553.0		48.04	30,00	25.374.6553.0
50	44.20	37.50	6	25.370.3653.0		55.54	37,50	25.374.6653.0
50	51.70	45.00	7	25.370.3753.0		63.04	45,00	25.374.6753.0
50	59.20	52.50	8	25.370.3853.0		70.54	52,50	25.374.6853.0
50	66.70	60.00	9	25.370.3953.0		78.04	60,00	25.374.6953.0
50	74.20	67.50	10	25.370.4053.0		85.54	67,50	25.374.7053.0
50	81.70	75.00	11	25.370.4153.0		93.04	75,00	25.374.7153.0
50	89.20	82.50	12	25.370.4253.0		100.54	82,50	25.374.7253.0
Spacing: 7.62 mm				unmarked				unmarked
100	14.32	7.62	2	25.390.3253.0		25.66	7,62	25.398.6253.0
100	21.94	15.24	3	25.390.3353.0		33.25	15,24	25.398.6353.0
50	29.56	22.86	4	25.390.3453.0		40.90	22,86	25.398.6453.0
50	37.18	30.48	5	25.390.3553.0		48.52	30,48	25.398.6553.0
50	44.80	38.10	6	25.390.3653.0		56.14	38,10	25.398.6653.0
50	52.42	45.72	7	25.390.3753.0		63.76	45,72	25.398.6753.0
50	60.04	53.34	8	25.390.3853.0		71.38	53,34	25.398.6853.0
50	67.66	60.64	9	25.390.3953.0		79.00	60,64	25.398.6953.0
50	75.28	68.58	10	25.390.4053.0		86.62	68,58	25.398.7053.0
50	82.90	76.20	11	25.390.4153.0		94.24	76,20	25.398.7153.0
50	90.52	83.82	12	25.390.4253.0		101.86	83,82	25.398.7253.0
Accessories:								
Coding piece (strip)	100			05.561.0053.0		05.561.0053.0		
Fixing device assembly - for screw flanges on both sides of the header	100			Z5.523.2453.0				

Insulated headers for PC boards onlinecomponents.com

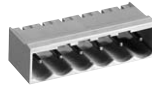
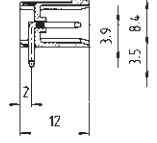
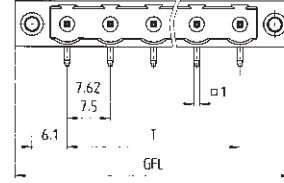
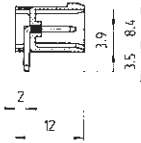
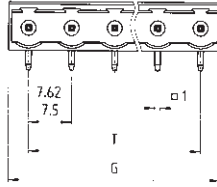
Spacings: 7.50/7.62 mm

THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

codable

Rated current:
12 A

400 V/6 kV/3 – Overvoltage category III
690 V/6 kV/2 – Overvoltage category II
1000 V/6 kV/1 – Overvoltage category I



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm
closed version



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm
with screw flange

Type 8313 S/... W, 8413 S/... W
horizontal mount

Type 8313 S/... WF, 8413 S/... WF
horizontal mount

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

300 V 15 A
300 V 15 A

300 V 15 A
300 V 15 A



Std. pack	G	T	Poles	Part no.	Part no.	GFL	T	Part no.
Spacing: 7.50 mm				unmarked		unmarked		
100	14.40	7.50	2	25.372.3253.0		25.54	7.50	25.374.2253.0
100	21.90	15.00	3	25.372.3353.0		33.04	15.00	25.374.2353.0
50	29.40	22.50	4	25.372.3453.0		40.54	22.50	25.374.2453.0
50	36.90	30.00	5	25.372.3553.0		48.04	30.00	25.374.2553.0
50	44.40	37.50	6	25.372.3653.0		55.54	37.50	25.374.2653.0
50	51.90	45.00	7	25.372.3753.0		63.04	45.00	25.374.2753.0
50	59.40	52.50	8	25.372.3853.0		70.54	52.50	25.374.2853.0
50	66.90	60.00	9	25.372.3953.0		78.04	60.00	25.374.2953.0
50	74.40	67.50	10	25.372.4053.0		85.54	67.50	25.374.3053.0
50	81.90	75.00	11	25.372.4153.0		93.04	75.00	25.374.3153.0
50	89.40	82.50	12	25.372.4253.0		100.54	82.50	25.374.3253.0
Spacing: 7.62 mm				unmarked		unmarked		
100	14.52	7.62	2	25.392.3253.0		25.66	7.62	25.398.2253.0
100	22.14	15.24	3	25.392.3353.0		33.25	15.24	25.398.2353.0
50	29.76	22.86	4	25.392.3453.0		40.90	22.86	25.398.2453.0
50	37.38	30.48	5	25.392.3553.0		48.52	30.48	25.398.2553.0
50	45.00	38.10	6	25.392.3653.0		56.14	38.10	25.398.2653.0
50	52.62	45.72	7	25.392.3753.0		63.76	45.72	25.398.2753.0
50	60.24	53.34	8	25.392.3853.0		71.38	53.34	25.398.2853.0
50	67.86	60.96	9	25.392.3953.0		79.00	60.96	25.398.2953.0
50	75.48	68.58	10	25.392.4053.0		86.62	68.58	25.398.3053.0
50	83.10	76.20	11	25.392.4153.0		94.24	76.20	25.398.3153.0
50	90.72	83.82	12	25.392.4253.0		101.86	83.82	25.398.3253.0
Accessories:								
Coding piece (strip)	100			05.561.0053.0		05.561.0053.0		
Fixing device assembly - for screw flanges on both sides of the header	100			Z5.523.2453.0				

wiecon

Insulated headers for PC board on5.com components.com

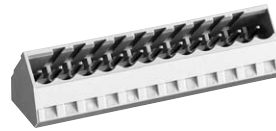
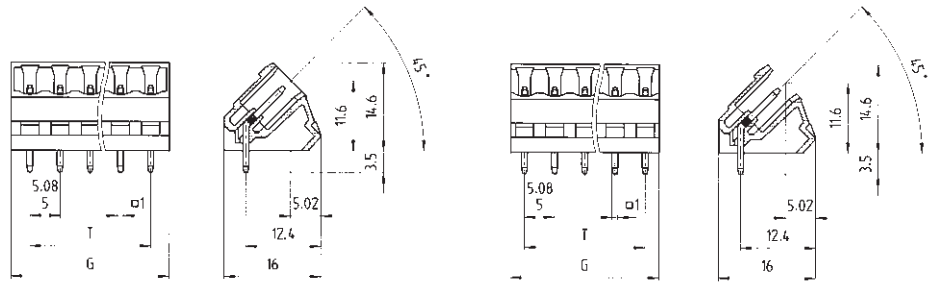
Spacings: 5.00/5.08 mm

wiecon PCB

codable

Rated current:
12 A

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

closed version

Type 8113 S/... S, 8213 S/... S
plug-in 45° to PC board



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

open version

Type 8113 S/... S1, 8213 S/... S1
plug-in 45° to PC board

Rated voltages: VDE 0110

UL ratings

CSA ratings

Approvals

300 V 15 A
300 V 15 A

300 V 15 A
300 V 15 A



Std. pack	G	T	Poles	Part no.	Part no.	G	T	Part no.
Spacing: 5.00 mm				unmarked		unmarked		
100	11.20	5	2	25.394.3253.0		9.60	5	25.395.3253.0
100	16.20	10	3	25.394.3353.0		14.60	10	25.395.3353.0
50	21.20	15	4	25.394.3453.0		19.60	15	25.395.3453.0
50	26.20	20	5	25.394.3553.0		24.60	20	25.395.3553.0
50	31.20	25	6	25.394.3653.0		29.60	25	25.395.3653.0
50	36.20	30	7	25.394.3753.0		34.60	30	25.395.3753.0
50	41.20	35	8	25.394.3853.0		39.60	35	25.395.3853.0
50	46.20	40	9	25.394.3953.0		44.60	40	25.395.3953.0
50	51.20	45	10	25.394.4053.0		49.60	45	25.395.4053.0
50	56.20	50	11	25.394.4153.0		54.60	50	25.395.4153.0
50	61.20	55	12	25.394.4253.0		59.60	55	25.395.4253.0
50	66.20	60	13	25.394.4353.0		64.60	60	25.395.4353.0
50	71.20	65	14	25.394.4453.0		69.60	65	25.395.4453.0
50	76.20	70	15	25.394.4553.0		74.60	70	25.395.4553.0
50	81.20	75	16	25.394.4653.0		79.60	75	25.395.4653.0
17 to 24pole upon request								
Spacing: 5.08 mm				unmarked		unmarked		
100	11.36	5.08	2	25.396.3253.0		9.76	5.08	25.397.3253.0
100	16.44	10.16	3	25.396.3353.0		14.84	10.16	25.397.3353.0
50	21.52	15.24	4	25.396.3453.0		19.92	15.24	25.397.3453.0
50	26.60	20.32	5	25.396.3553.0		25.00	20.32	25.397.3553.0
50	31.68	25.40	6	25.396.3653.0		30.08	25.40	25.397.3653.0
50	36.76	30.48	7	25.396.3753.0		35.16	30.48	25.397.3753.0
50	41.84	35.56	8	25.396.3853.0		40.24	35.56	25.397.3853.0
50	46.92	40.64	9	25.396.3953.0		45.32	40.64	25.397.3953.0
50	52.00	45.72	10	25.396.4053.0		50.40	45.72	25.397.4053.0
50	57.08	50.80	11	25.396.4153.0		55.48	50.80	25.397.4153.0
50	62.19	55.88	12	25.396.4253.0		60.56	55.88	25.397.4253.0
50	67.24	60.96	13	25.396.4353.0		65.64	60.96	25.397.4353.0
50	72.32	66.04	14	25.396.4453.0		70.72	66.04	25.397.4453.0
50	77.40	71.12	15	25.396.4553.0		75.80	71.12	25.397.4553.0
50	82.48	76.20	16	25.396.4653.0		80.88	76.20	25.397.4653.0
17 to 24pole upon request								
Accessories:								
Coding piece (strip)	100			05.561.0053.0		05.561.0053.0		

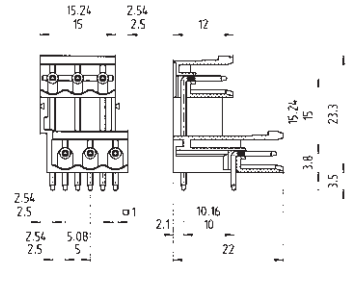
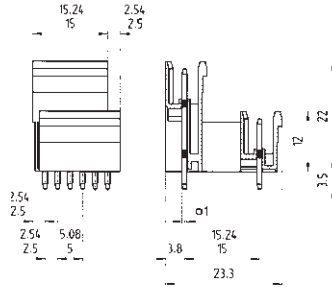
Two-tier insulated headers for PCBs

Spacings: 5.00/5.08 mm

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Rated current:
10 A

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm



Solder pin 1 x 1 mm
Bore hole Ø 1.4 mm

Type 8113 SE/... G, 8213 SE/... G

vertical mount

Type 8113 SE/... W, 8213 SE/... W

horizontal mount

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

300 V 15 A
300 V 10 A

300 V 15 A
300 V 10 A



Std. pack	T	Poles	Part no.	Part no.	Part no.
Spacing: 5.00 mm			unmarked		unmarked
100	5	2 x 2	25.334.3253.0		25.336.3253.0
100	10	2 x 3	25.334.3353.0		25.336.3353.0
Slide together for larger pole configurations. Factory assembly available.					
Spacing: 5.08 mm			unmarked		unmarked
100	5.08	2 x 2	25.354.3253.0		25.356.3253.0
100	10.16	2 x 3	25.354.3353.0		25.356.3353.0
Slide together for larger pole configurations. Factory assembly available.					
Accessories:					
End plate	50		07.310.9853.0		07.310.9853.0
Fixing device assembly - for screw flanges on both sides of the header			upon request		only together with end plate 07.310.9853.0 Z5.523.2453.0

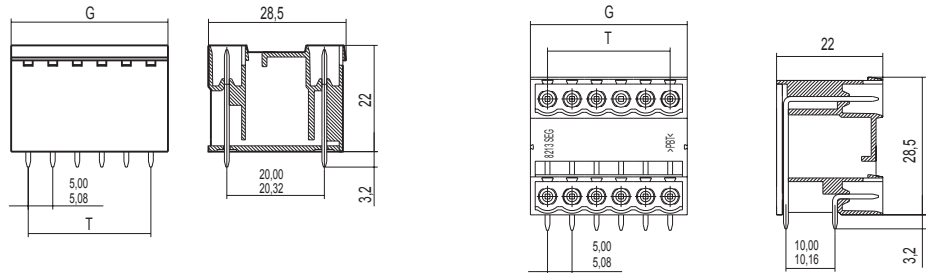
Insulated header

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wiecon PCB

Rated current: 10 A

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II



Solder pin 1 x 1 mm
Bore hole Ø 1.3 mm



Solder pin 1 x 1 mm
Bore hole Ø 1.3 mm

Type 81-8213 SEG .../G

Vertical mount

300 V 10 A
300 V 10 A



Type 81-8213 SEG .../W

Horizontal mount

300 V 10 A
300 V 10 A



Rated voltages: VDE 0110

UL ratings

CSA ratings

Approvals

Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm				unmarked		unmarked	
100	12	5	4	27.334.0253.0		27.336.0253.0	
100	17	10	6	27.334.0353.0		27.336.0353.0	
50	22	15	8	27.334.0453.0		27.336.0453.0	
50	27	20	10	27.334.0553.0		27.336.0553.0	
50	32	25	12	27.334.0653.0		27.336.0653.0	
50	37	30	14	27.334.0753.0		27.336.0753.0	
50	42	35	16	27.334.0853.0		27.336.0853.0	
50	47	40	18	27.334.0953.0		27.336.0953.0	
50	52	45	20	27.334.1053.0		27.336.1053.0	
50	57	50	22	27.334.1153.0		27.336.1153.0	
50	62	55	24	27.334.1253.0		27.336.1253.0	
50	67	60	26	27.334.1353.0		27.336.1353.0	
50	72	65	28	27.334.1453.0		27.336.1453.0	
50	77	70	30	27.334.1553.0		27.336.1553.0	
50	82	75	32	27.334.1653.0		27.336.1653.0	
17 to 24pole upon request							
Spacing: 5.08 mm				unmarked		unmarked	
100	12.16	5.08	4	27.354.0253.0		27.356.0253.0	
100	17.24	10.16	6	27.354.0353.0		27.356.0353.0	
50	22.32	15.24	8	27.354.0453.0		27.356.0453.0	
50	27.40	20.32	10	27.354.0553.0		27.356.0553.0	
50	32.48	25.40	12	27.354.0653.0		27.356.0653.0	
50	37.56	30.48	14	27.354.0753.0		27.356.0753.0	
50	42.64	35.56	16	27.354.0853.0		27.356.0853.0	
50	47.72	40.64	18	27.354.0953.0		27.356.0953.0	
50	52.80	45.72	20	27.354.1053.0		27.356.1053.0	
50	57.88	50.80	22	27.354.1153.0		27.356.1153.0	
50	62.96	55.88	24	27.354.1253.0		27.356.1253.0	
50	68.04	60.96	26	27.354.1353.0		27.356.1353.0	
50	73.12	66.04	28	27.354.1453.0		27.356.1453.0	
50	78.20	71.12	30	27.354.1553.0		27.356.1553.0	
50	83.28	76.20	32	27.354.1653.0		27.356.1653.0	
17 to 24pole upon request							
				Coding available on request		Coding available on request	

Insulated header for panel mount feedthrough, Spacing: 5.08 mm



Wire wrap connection 1 x 1

Max. pin diameter: 0.8 mm

Rated current: 6.5 A

Solder eyelets

Rated cross section:

1.5 mm² solid/

1.0 mm² fine stranded

Rated current: 12 A

Quick connect tabs 2.8 x 0.8 DIN 46249

Rated cross section:

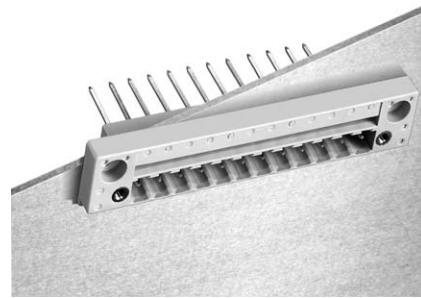
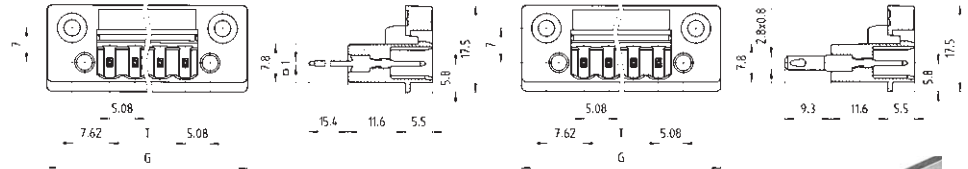
1.0 mm² fine stranded

Rated current: 8 A

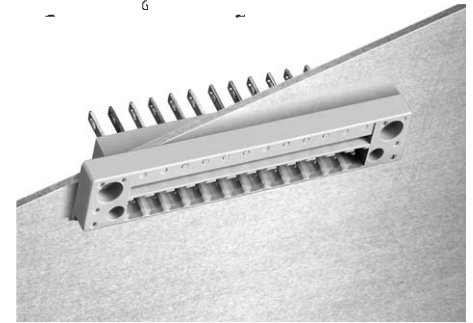
250 V/4 kV/3 – Overvoltage category III

400 V/4 kV/2 – Overvoltage category II

1000 V/4 kV/1 – Overvoltage category I



wire wrap



with solder eyelets / quick connect tabs

Type 8213 S/... DFWW, 8213 S/... DFWW M

No. 22 – 12 AWG

300 V

6.5 A

No. 22 – 12 AWG

300 V

6.5 A



Type 8213 S/... DFLS, 8213 S/... DFLS M

No. 22 – 12 AWG

300 V

12/8 A

No. 22 – 12 AWG

300 V

8 A



Rated voltages: VDE 0110

UL ratings

CSA ratings

Approvals

Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.08 mm				unmarked	unmarked	unmarked	unmarked
100	30.48	5.08	2	25.303.0253.0	25.313.0253.0	25.303.3253.0	25.313.3253.0
100	35.56	10.16	3	25.303.0353.0	25.313.0353.0	25.303.3353.0	25.313.3353.0
50	40.64	15.24	4	25.303.0453.0	25.313.0453.0	25.303.3453.0	25.313.3453.0
50	45.72	20.32	5	25.303.0553.0	25.313.0553.0	25.303.3553.0	25.313.3553.0
50	50.80	25.40	6	25.303.0653.0	25.313.0653.0	25.303.3653.0	25.313.3653.0
50	55.88	30.48	7	25.303.0753.0	25.313.0753.0	25.303.3753.0	25.313.3753.0
50	60.96	35.56	8	25.303.0853.0	25.313.0853.0	25.303.3853.0	25.313.3853.0
50	66.04	40.64	9	25.303.0953.0	25.313.0953.0	25.303.3953.0	25.313.3953.0
50	71.12	45.72	10	25.303.1053.0	25.313.1053.0	25.303.4053.0	25.313.4053.0
50	76.20	50.80	11	25.303.1153.0	25.313.1153.0	25.303.4153.0	25.313.4153.0
50	81.28	55.88	12	25.303.1253.0	25.313.1253.0	25.303.4253.0	25.313.4253.0
50	86.36	60.96	13	25.303.1353.0	25.313.1353.0	25.303.4353.0	25.313.4353.0
50	91.44	66.04	14	25.303.1453.0	25.313.1453.0	25.303.4453.0	25.313.4453.0
50	96.52	71.12	15	25.303.1553.0	25.313.1553.0	25.303.4553.0	25.313.4553.0
50	101.60	76.20	16	25.303.1653.0	25.313.1653.0	25.303.4653.0	25.313.4653.0
17 to 22pole upon request				without screw flange	with screw flange	without screw flange	with screw flange
Mounting dimensions							
	a	b					
	13.18	20.32	2				
	18.26	25.40	3				
	23.34	30.48	4				
	28.42	35.56	5				
	33.50	40.64	6				
	38.58	45.72	7				
	43.66	50.80	8				
	48.74	55.88	9				
	53.82	60.96	10				
	58.90	66.04	11				
	68.98	71.12	12				
	69.06	76.20	13				
	74.14	81.28	14				
	79.22	86.36	15				
	84.30	91.44	16				
17 to 24pole upon request							
Accessories:							
Coding piece (strip)	100			05.561.0053.0		05.561.0053.0	
Set of screws	100			Z6.012.0812.0		Z6.012.0812.0	

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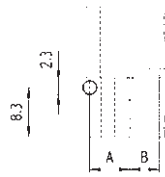
Accessories for 8113 – 8413/8813 and 8213 BL

wiecon PCB

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Bore hole plan for fixing brackets Z5.523.2453.0

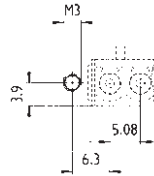
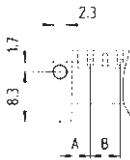
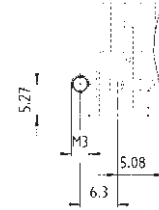
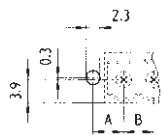
Type 8113 SE/... and 8213 SE/...



	A	B
8113	6.3	5.00
8213	6.8	5.08

Bore hole plan for fixing brackets Z5.523.2453.0

Type 81 – 8413 S/...



	A	B
8113	5.1	5.00
8213	5.2	5.08
8313	5.4	7.50
8413	5.4	7.62

8113 – 8413/8813

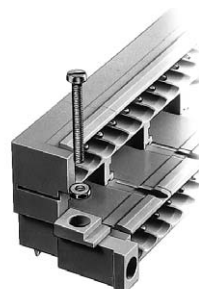
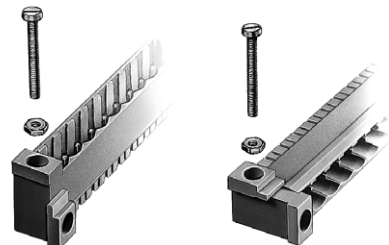
	Part no.	Std. pack
<p>Fixing brackets (type 8113 – 8413)</p>	Z5.523.2453.0	100
<p>End plate for multi-tier header (type 8113 – 8213 SE)</p>	07.310.9853.0	50
<p>Coding strip for – header (type 8113 – 8413, type 8813)</p>	05.561.0053.0	100
<p>– plug (type 8113 – 8413)</p>	05.561.9153.0	100

8213 BL

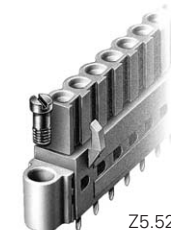
	Part no.	Std. pack
<p>Adhesive marking tag strips for plug connectors and insulated headers with 5/5.08 mm spacing</p>		
1 – 12	04.007.4089.0	1
13 – 24	04.007.4189.0	1
25 – 36	04.007.4289.0	1
37 – 68	04.007.4389.0	1
49 – 60	04.007.4489.0	1
61 – 72	04.007.4589.0	1
73 – 84	04.007.4689.0	1
85 – 96	04.007.4789.0	1
97 – 108	04.007.4889.0	1
<p>Fixing brackets</p>		

Examples of fixing brackets assembly for insulated headers

Assembly of fixing brackets with end plate for multi-tier headers



Z5.523.7753.0 100



Z5.523.7853.0 100

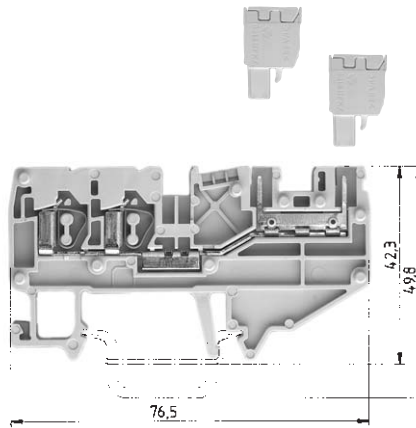
wiecon

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Duo feed through DIN rail terminal blocks with connection for PC board pluggables

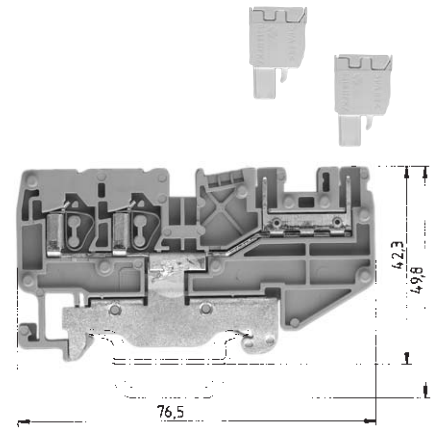
wiecon PCB

For PC board connectors 8113 BFK



WKF 2.5 D2/8113/35

fine stranded	solid	V	A
0.13 – 2.5 mm ²	0.13 – 4 mm ²	250 V/4 kV/3	16
No. 22 – 12 AWG		300	15
No. 24 – 12 AWG		300	15
5 mm			11 mm



WKF 2.5 D2/8113 SL/35

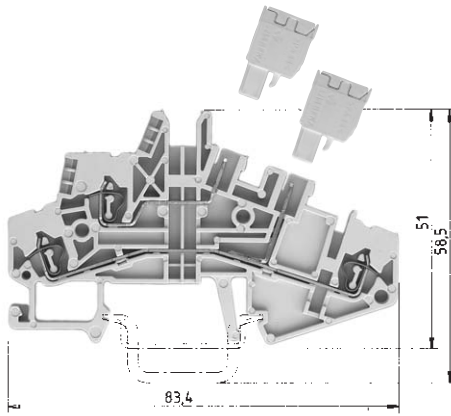
fine stranded	solid	V	A
0.13 – 2.5 mm ²	0.13 – 4 mm ²	250 V/4 kV/3	16
No. 22 – 12 AWG		300	
No. 24 – 12 AWG		300	
5 mm			11 mm



EN 60 947-7-1/DIN VDE 0611 T1
 UL ratings field/factory wiring
 CSA ratings
 Width Wire strip length
 Approvals

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Duo feed-through terminal block	Color: gray	WKF 2,5 D2/8113/35	56.703.2053.0	100			
	Color: blue	WKF 2,5 D2/8113/35 BLAU	56.703.2053.6	100			
Duo ground block	Color: green/yellow				WKF 2,5 D2/8113 SL/35	56.703.9253.0	100
Multi-tier block	Color: gray						
Accessories							
1. Mounting rail TS 35, DIN rail 7.5 high	L = 2 m	35x27x7,5 EN 50022	98.300.0000.0	1	35x27x7,5 EN 50022	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm high	L = 2 m	35x24x15 EN 50022	98.360.0000.0	1	35x24x15 EN 50022	98.360.0000.0	1
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp for TS 35, without screws	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APF 2,5/D2/8113	07.312.4153.0	10	APF 2,5/D2/8113	07.312.4153.0	10
	Color: blue	APF 2,5/D2/8113	07.312.4153.6	10			
4. Partition plate	Color: gray						
	Color: blue						
5. Cross connector	2pole	IVB WKF 2,5 – 2	Z7.280.6227.0	10			
	insulated	3pole	IVB WKF 2,5 – 3	Z7.280.6327.0	10		
		4pole	IVB WKF 2,5 – 4	Z7.280.6427.0	10		
		5pole	IVB WKF 2,5 – 5	Z7.280.6527.0	10		
		6pole	IVB WKF 2,5 – 6	Z7.280.6627.0	10		
		7pole	IVB WKF 2,5 – 7	Z7.280.6727.0	20		
		8pole	IVB WKF 2,5 – 8	Z7.280.6827.0	20		
		9pole	IVB WKF 2,5 – 9	Z7.280.6927.0	20		
		10pole	IVB WKF 2,5 – 10	Z7.280.7027.0	20		
	6. Wire entry guide	0.13 – 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100
0.25 – 0.5 mm ²		LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100
0.75 – 1.0 mm ²		LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100
7. Cover with warning symbol over 4 blocks		ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10
	Pin cover with warning symbol over 4 poles	AD 8113/4 GELB	04.343.6853.8	10	AD 8113/4 GELB	04.343.6853.8	10
8. Screwdriver, uninsulated		DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5
9. Coding piece (strip)			05.561.0053.0	100		05.561.0053.0	100
10. Marking accessories		See fasis page 36			See fasis page 36		
Note fasis page 36 !							

Pluggable PCB board connectors Spring clamp / rising cage clamp Spacing: 5.00 mm



WKF 1.5 E/8113/35

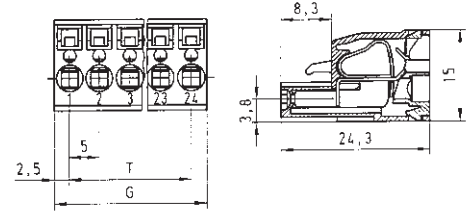
fine stranded solid V A
 0.13 – 1.5 mm² 0.13 – 2.5 mm² 250 V/4 kV/3 16
 No. 22 – 14
 No. 24 – 14
 5 mm 11 mm
 pending

Rated current:
12 A

250 V/4 kV/3 – Overvoltage category III
 400 V/4 kV/2 – Overvoltage category II
 1000 V/4 kV/1 – Overvoltage category I

When using ferrules for conductor cross section of 2.5 mm², use only ferrule no. 05.596.6127.0.

See catalog section **facts & DATA** pages 796 - 797



Rated voltages: VDE 0110
 EN 60 947-7-1/DIN VDE 0611 T1
 Spacing: Wire strip length
 UL ratings
 CSA ratings
 Approvals pending

Type 8113 BFK

0.13 – 2.5 mm² fine stranded 0.13 – 4 mm² solid
 11 mm 9 mm
 No. 22 – 12 AWG 300 V 12 A
 No. 22 – 12 AWG 300 V 12 A



Type	Part no.	Std. pack	Std. pack	G	T	Poles	Part no.	Part no.
			Spacing: 5.00 mm			unmarked		marked
			100	10	5	2	25.820.3253.0	25.820.0253.0
			100	15	10	3	25.820.3353.0	25.820.0353.0
			50	20	15	4	25.820.3453.0	25.820.0453.0
WKF 1,5 E/8113/35	56.702.2053.0	100						
			50	25	20	5	25.820.3553.0	25.820.0553.0
			50	30	25	6	25.820.3653.0	25.820.0653.0
			50	35	30	7	25.820.3753.0	25.820.0753.0
35x27x7,5 EN 50022	98.300.0000.0	1	50	40	35	8	25.820.3853.0	25.820.0853.0
35x24x15 EN 50022	98.360.0000.0	1	50	45	40	9	25.820.3953.0	25.820.0953.0
9708/2 S35	Z5.522.8553.0	100	50	50	45	10	25.820.4053.0	25.820.1053.0
WEF 1/35	Z5.523.9353.0	100	50	55	50	11	25.820.4153.0	25.820.1153.0
APF 1,5/E/8113	07.312.4753.0	10	50	60	55	12	25.820.4253.0	25.820.1253.0
			50	65	60	13	25.820.4353.0	25.820.1353.0
			50	70	65	14	25.820.4453.0	25.820.1453.0
			50	75	70	15	25.820.4553.0	25.820.1553.0
			50	80	75	16	25.820.4653.0	25.820.1653.0
			17 to 24pole upon request					
IVB WKF 2,5 – 2	Z7.280.6227.0	10						
IVB WKF 2,5 – 3	Z7.280.6327.0	10						
IVB WKF 2,5 – 4	Z7.280.6427.0	10						
IVB WKF 2,5 – 5	Z7.280.6527.0	10						
IVB WKF 2,5 – 6	Z7.280.6627.0	10						
IVB WKF 2,5 – 7	Z7.280.6727.0	20						
IVB WKF 2,5 – 8	Z7.280.6827.0	20						
IVB WKF 2,5 – 9	Z7.280.6927.0	20						
IVB WKF 2,5 – 10	Z7.280.7027.0	20						
LEL 1,5/1 WEISS	05.562.2453.0	100						
LEL 1,5/2 GRAU	05.562.2553.0	100						
LEL 1,5/3 SCHWARZ	05.562.2653.0	100						
ADF 2,5/4 GELB	04.343.6053.8	10						
AD 8113/4 GELB	04.343.6853.8	10						
DIN 5264 B 0,6x3,5	06.502.4000.0	5						
	05.561.0053.0	100						
See fasis page 37								
Accessories:								
	Coding piece (strip)		100				05.561.9153.0	
	Screwdriver DIN 5264 B 0.6 x 3.5		5				06.502.4000.0	

Feed through DIN rail terminal blocks with connection for PC board pluggables

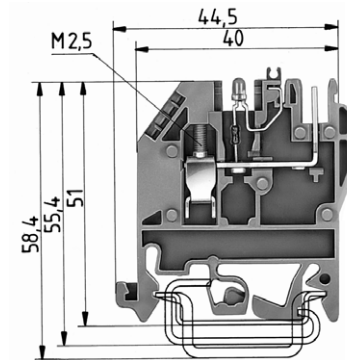
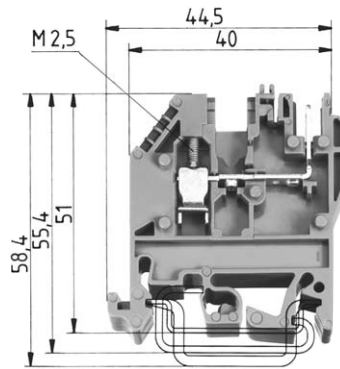
wiecon PCB

For PC board connectors:

- Type 8113 B
- Type 8113 BFK
- Type 8313 B
- Type 8113 B/VL
- Type 8113 B/VR
- Type 8113 B/Top

Indicator: R = 4.7 K; 0.5 W
Signal color: red

¹⁾ for blocks with indicator determined by LED



The part numbers marked with *** are supplied with UL 94-V0 insulating housings (flammability class).

EN 60 947-7-1/DIN VDE 0611 T1

UL ratings

CSA ratings

Width

Approvals

Wire strip length

WK 2.5 U / 8113 S/V

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22 – 12 AWG		300 V	15
No. 24 – 12 AWG		300 V	15
5 mm			9 mm



WK 2.5 U / 8113 S/V / LED 25

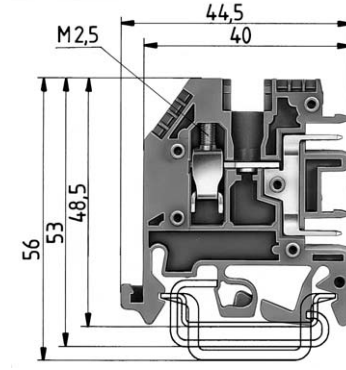
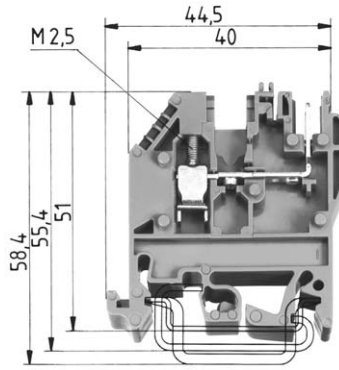
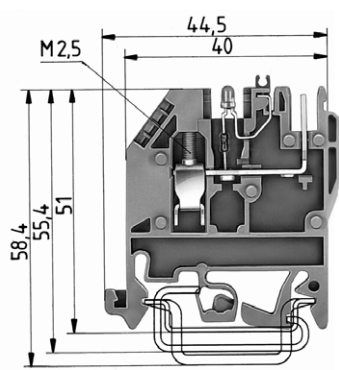
fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	¹⁾	12
No. 22 – 12 AWG		300 V	15
No. 24 – 12 AWG		25 V ¹⁾	15
5 mm			9 mm



Type	Color	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed through block	Color: gray	WK 2,5 U/8113 S/V...***)	57.503.2655.6	50			
Feed through block with LED 25 V	Color: gray				WK 2,5 U/8113 S/V/LED 25***)	57.503.2755.0	50
Feed-through block with LED 50 V	Color: gray						
Power supply block	Color: blue						
Feed through blocks with header connection							
For insulated headers type 8113 see page 297							
Accessories							
Mounting rail TS35 Din rail 7.5 mm high	L = 2 m						
Mounting rail TS 35, DIN rail, 15mm high	L = 2 m						
Mounting rail 32 G rail	L = 2 m						
End clamp with U foot	10 mm wide						
End clamp TS 35 with screw	8 mm wide						
End clamp TS 32 with screw	7.5 mm wide						
End plate for right side 2.5 mm thick	Color: gray	AP 2,5 U/8113 S/V ***)	07.312.1555.0	10	AP 2,5 U/8113 S/V ***)	07.312.1555.0	10
End plate for left side, 2.5 mm thick	Color: gray	AP 2,5 U/8113 ***)	07.312.4655.0	10	AP 2,5 U/8113 ***)	07.312.4655.0	10
End plate, 2.5 mm thick	Color: blue						
Partition, right side, 2.5 mm thick	Color: gray	ZP 2,5 U/8113 S/V	07.312.1655.0	10	ZP 2,5 U/8113 S/V	07.312.1655.0	10
Partition, 2.5 mm thick	Color: blue						
(for PC board headers in 7.5 mm spacing)							
Cross connector with screws, E-Cu	insulated						
	2pole	IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10
	3pole	IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10
	up to 12pole	IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10
Jumper rail, tin-plated brass	L = 0.4 m		05.561.4125.0	1		05.561.4125.0	1
Single cover for cross connector with marking capabil.		ADVB 2,5 GELB	04.326.2053.0		ADVB 2,5 GELB	04.326.2053.0	
Cover strip for header	24pole		04.343.9056.0			04.343.9056.0	
Cover for header with warning symbol			04.343.9156.0			04.343.9156.0	
Partition plate		TS 2,5 GELB	07.311.2053.0		TS 2,5 GELB	07.311.2053.0	
Coding piece (strip)			05.561.0053.0			05.561.0053.0	100
locking piece	10pole						
For marking accessories see page 394							

Indicator: R = 10 K; 0.5 W
Signal color: red

¹⁾ for blocks with indicator determined by LED



WK 2.5 U / 8113 S/V / LED 50

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	¹⁾	12
No. 22 – 12 AWG		300 V	15
No. 24 – 12 AWG		50 V ¹⁾	15
5 mm			9 mm



WK 2.5 U / 8113 S/V /VK

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22 – 12 AWG		300 V	15
No. 24 – 12 AWG		300 V	15
5 mm			9 mm



WK 2.5 U / 8113 S/H

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22 – 12 AWG		300 V	20
No. 24 – 12 AWG		300 V	15
5 mm			9 mm



Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 2,5 U/8113 S/V/LED 50****)	57.503.2855.0	50	WK 2,5 U/8113 S/V/VK****)	57.503.3055.6	100	WK 2,5 U/8113 S/H****)	57.503.2055.0	100
AP 2,5 U/8113 S/V ****)	07.312.1555.0	10	AP 2,5 U/8113 ****)	07.312.4655.0	10	AP 2,5 U/8113 S/H ****)	07.311.9855.0	10
AP 2,5 U/8113 ****)	07.312.4655.0	10	AP 2,5 U/8113 S/V BL****)	07.312.1555.0	10			
ZP 2,5 U/8113 S/V	07.312.1655.0	10	ZP 2,5 U/8113 S/V	07.312.1655.0	10			
			ZP 2,5 U/8113 S/V BL	07.312.1655.6	10			
IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10
IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10
IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10
	05.561.4125.0	1		05.561.4125.0	1		05.561.4125.0	1
ADVB 2,5 GELB	04.326.2053.0		ADVB 2,5 GELB	04.326.2053.0		ADVB 2,5 GELB	04.326.2053.0	
	04.343.9056.0			04.343.9056.0			04.343.9056.0	
	04.343.9156.0			04.343.9156.0			04.343.9156.0	
TS 2,5 GELB	07.311.2053.0		TS 2,5 GELB	07.311.2053.0		TS 2,5 GELB	07.311.2053.0	
	05.561.0053.0	100		05.561.0053.0	100		05.584.0053.0	100
							05.576.5853.0	25

Feed through DIN rail terminal blocks with connection for PC board pluggables

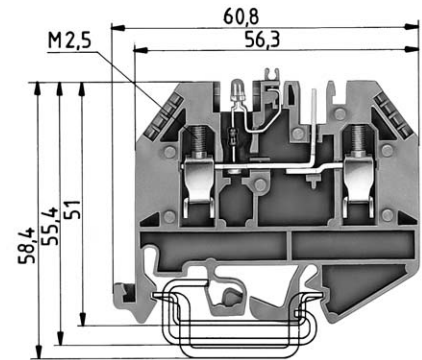
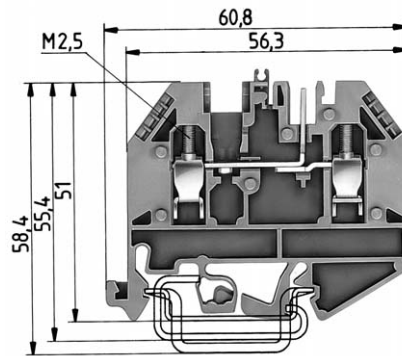
wiecon PCB

For PC board connectors:

- Type 8113 B
- Type 8113 BFK
- Type 8313 B
- Type 8113 B/VL
- Type 8113 B/VR
- Type 8113 B/Top

Indicator: R = 4.7 K; 0.5 W
Signal color: red

¹⁾ for blocks with indicator determined by LED



The part numbers marked with *** are supplied with UL 94-V0 insulating housings (flammability class).

EN 60 947-7-1/DIN VDE 0611 T1

UL ratings

CSA ratings

Width

Approvals

Wire strip length

WK 2.5 U /D/ 8113 S/V

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22 – 12 AWG		300 V	15
No. 24 – 12 AWG		300 V	15
5 mm			9 mm



WK 2.5 U /D/ 8113 S/V / LED 25

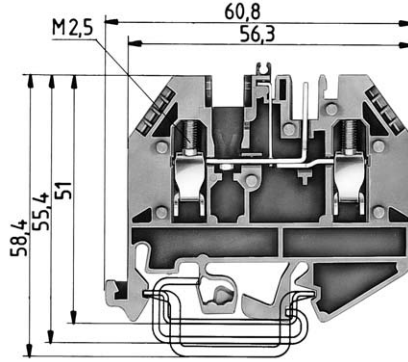
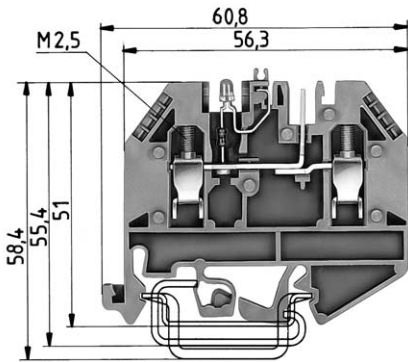
fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	¹⁾	12
No. 22 – 12 AWG		300 V	15
No. 24 – 12 AWG		25 V ¹⁾	15
5 mm			9 mm



		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Feed through block	Color: gray	WK 2,5 U/D/8113 S/V...***)	57.503.2155.0	50			
Feed through block with LED 25 V	Color: gray				WK 2,5 U/D/8113 S/V/LED 25***)	57.503.2255.0	50
Feed-through block with LED 50 V	Color: gray						
Power supply block	Color: blau						
Feed through block with header connection							
For insulated headers type 8113 see page 297							
Accessories							
Mounting rail TS 35 DIN rail 7.5 mm high	L = 2 m						
Mounting rail TS 35, DIN rail, 15mm high	L = 2 m						
Mounting rail 32 G rail	L = 2 m						
End clamp with U foot	10 mm wide						
End clamp TS 35 with screw	8 mm wide						
End clamp TS 32 with screw	7.5 mm wide						
End plate, 2.5 mm thick	Color: gray	AP 2,5 U/D/8113 S/V ***)	07.311.9055.0	10	AP 2,5 U/D/8113 S/V***)	07.311.9055.0	10
End plate, 2.5 mm thick	Color: blue						
Partition, 2.5 mm thick	Color: gray	ZP 2,5 U/D/8113 S/V	07.311.9155.0	10	ZP 2,5 U/D/8113 S/V	07.311.9155.0	10
Partition, 2.5 mm thick	Color: blue						
(for PC board headers in 7.5 mm spacing)							
Cross connector with screws, E-Cu	insulated						
	2pole	IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10
	3pole	IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10
	up to 12pole	IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10
Jumper rail, tin-plated brass	L = 0.4 m		05.561.4125.0	1		05.561.4125.0	1
Cover strip for LED (transparent)		ADVB 5/10 P	04.342.3556.8	10	ADVB 5/10 P	04.342.3556.8	10
Single cover for cross connector with marking capabil.		ADVB 2,5 GELB	04.326.2053.8	10	ADVB 2,5 GELB	04.326.2053.8	10
Cover strip for header	24pole		04.343.9056.8	10		04.343.9056.8	10
Cover strip for header with warning symbol	24pole		04.343.9156.8	10		04.343.9156.8	10
Partition plate		TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10
Coding piece (strip)			05.561.0053.0	100		05.561.0053.0	100
For marking accessories see page 394							

Indicator: R = 10 K; 0.5 W
Signal color: red

¹⁾ for blocks with indicator determined by LED



WK 2.5 U /D/ 8113 S/V / LED 50

fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	¹⁾	12
No. 22 – 12 AWG		300 V	15
No. 24 – 12 AWG		50 V ¹⁾	15
5 mm			9 mm



WK 2.5 U /D/ 8113 S/V /VK

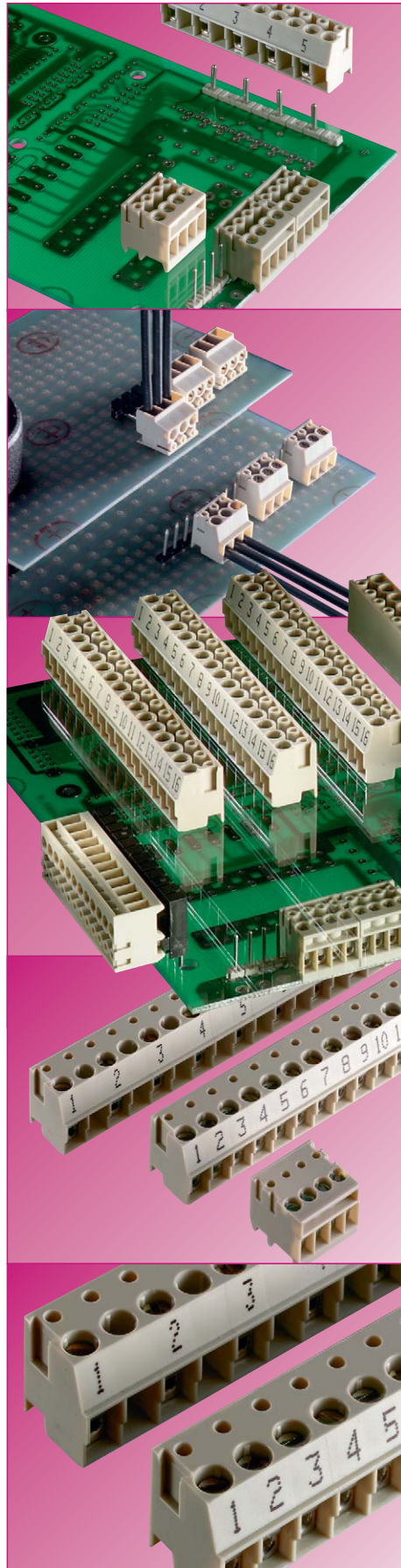
fine stranded	solid	V	A
0.5 – 2.5 mm ²	0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22 – 12 AWG		300 V	15
No. 24 – 12 AWG		300 V	15
5 mm			9 mm



Type	Part no.	Std. pack	Type	Part no.	Std. pack
WK 2,5 U/D/8113 S/V/LED 50***)	57.503.2355.0	50			
			WK 2,5 U/D/8113 S/V/VK***)	57.503.2555.6	50
AP 2,5 U/D/8113 S/V ***)	07.311.9055.0	10			
			AP 2,5 U/D/8113 S/V BL***)	07.311.9055.6	10
ZP 2,5 U/D/8113 S/V	07.311.9155.0	10			
			ZP 2,5 U/D/8113 S/V BL	07.311.9155.6	10
IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10
IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10
IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10
	05.561.4125.0	1		05.561.4125.0	1
ADVB 5/10 P	04.342.3556.8	10	ADVB 5/10 P	04.342.3556.8	10
ADVB 2,5 GELB	04.326.2053.8	10	ADVB 2,5 GELB	04.326.2053.8	10
	04.343.9056.8	10		04.343.9056.8	10
	04.343.9156.8	10		04.343.9156.8	10
TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10
	05.561.0053.0100			05.561.0053.0	100

Pluggable PC board connectors onlinecomponents.com with pin-strip headers

wiecon PCB



Pluggable connectors provide a simple 2-piece mateable connection between an external connector and the printed circuit board.

System features

- easy-to-operate screw termination
- installation and maintenance friendly
- quick disconnect
- pole configurations from 2 to 24 poles
- clear, straightforward connection
- mating in both horizontal and vertical orientations to the printed circuit board
- clamping body always with wire guard

Variety of types

- spacings: (3.5/7/5/10) mm
- 2 to 24 pole
- terminal strip headers with vertical or horizontal solder pins
- solder pin diameters available in: 0.8 mm, 1 mm and 1.3 mm others are on request

Marking

- smudge-proof inkjet marking directly on the plug
- clear, easily legible marking
- custom marking possible, consult factory
- cost-effective marking directly on the plug

Abbreviations for plastic materials:

PA 66/6 = Polyamide 66/6
 PC = Polycarbonate
 PBT = Polybutylenterephthalate

Material

Insulating housings:

- use of high-quality polycarbonate for its excellent electrical, mechanical and chemical characteristics (see **facts** & **DATA**)

Metal parts:

- made of special alloys and/or special surface platings
- minimum feed through resistance
- high corrosion resistance
- secure, consistent clamping function
- clamping body: nickel-plated brass
- clamping screw: steel, zinc-plated and dichromated
- plug contact of type 8142 and ST 29: tin-plated bronze
- plug contact of type 8543: nickel-plated brass
- wire guard: tin-plated bronze

Pin-strip headers:

- Insulating part: made from high-quality Polyamide 66/6
- glass-fibre reinforcement for dimensional stability
- Metal parts: contact pin: tin plated brass

Note:

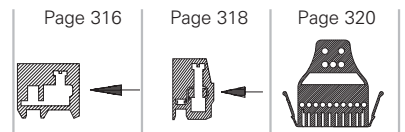
The information regarding cross sectional areas and connection types pertains to connections without ferrules.

The indicated rated current pertains to the maximum load of the PC board connector with a connected wire of the indicated rated cross section.

The rated voltage is indicated as per DIN VDE 0110 part 1 (IEC 60 664-1) – insulation coordination for electrical material in low voltage application – and refers to the delivered state of the PC board connector.

Before the PC board is fitted with connectors, an appropriate PC board must be selected and dimensioned accordingly (e.g. regarding tracking resistance of the printed circuit board, distances of the leads and solder joints). Furthermore, the ambient conditions under which the device is to be used (pollution degree) must be considered.

The indicated rated voltages will be valid for the complete module only if the printed circuit board and its connectors are correctly and carefully matched to each other.



		Page 316	Page 318	Page 320
Type		8543	8142	ST 29
Spacing	mm	3.50/7.00	5.00/10.00	5.08
Cross section	mm²	1	2.5	1.5
Number of poles		2 - 24	2 - 24	10



PC board connectors pluggable, spacings: 3.50/7.00 mm

wiecon PCB

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Rated cross section:
1.0 mm²

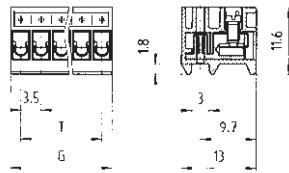
Rated current:
6 A

Connection range:
0.14 – 1.5 mm² solid/
0.14 – 1.0 mm² fine stranded

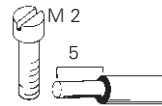
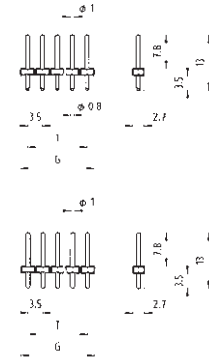
160 V/2.5 kV/3 – Overvoltage category III
250 V/2.5 kV/2 – Overvoltage category II
*690 V/2.5 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected
overvoltage ≤ 3 kV for L ≥ 2.0 mm and
≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm

Spacing: 3.50 mm



Spacing: 3.50 mm



Color: gray Solder pin Ø 0.8 mm Bore hole Ø 1.0 mm
Color: black Solder pin Ø 1.0 mm Bore hole Ø 1.3 mm

Type 8543

plug-in 90° to wire entry

No. 22 – 16 AWG 300 V 10 A
No. 22 – 16 AWG 300 V 10 A



Terminal strip header

vertical mount



Rated voltages: VDE 0110 (spacing: 3.5 mm)
UL ratings
CSA ratings
Approvals

Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm				unmarked	marked	Color: gray	Color: black
100	7.0	3.5	2	25.602.5253.0	25.600.5253.0	Z5.531.0225.0	Z5.531.3225.0
100	10.5	7.0	3	25.602.5353.0	25.600.5353.0	Z5.531.0325.0	Z5.531.3325.0
50	14.0	10.5	4	25.602.5453.0	25.600.5453.0	Z5.531.0425.0	Z5.531.3425.0
50	17.5	14.0	5	25.602.5553.0	25.600.5553.0	Z5.531.0525.0	Z5.531.3525.0
50	21.0	17.5	6	25.602.5653.0	25.600.5653.0	Z5.531.0625.0	Z5.531.3625.0
50	24.5	21.0	7	25.602.5753.0	25.600.5753.0	Z5.531.0725.0	Z5.531.3725.0
50	28.0	24.5	8	25.602.5853.0	25.600.5853.0	Z5.531.0825.0	Z5.531.3825.0
50	31.5	28.0	9	25.602.5953.0	25.600.5953.0	Z5.531.0925.0	Z5.531.3925.0
50	35.0	31.5	10	25.602.6053.0	25.600.6053.0	Z5.531.1025.0	Z5.531.4025.0
50	38.5	35.0	11	25.602.6153.0	25.600.6153.0	Z5.531.1125.0	Z5.531.4125.0
50	42.0	38.5	12	25.602.6253.0	25.600.6253.0	Z5.531.1225.0	Z5.531.4225.0
50	45.5	42.0	13	25.602.6353.0	25.600.6353.0	Z5.531.1325.0	Z5.531.4325.0
50	49.0	45.5	14	25.602.6453.0	25.600.6453.0	Z5.531.1425.0	Z5.531.4425.0
50	52.5	49.0	15	25.602.6553.0	25.600.6553.0	Z5.531.1525.0	Z5.531.4525.0
50	56.0	52.5	16	25.602.6653.0	25.600.6653.0	Z5.531.1625.0	Z5.531.4625.0

17 to 24pole upon request

Spacing: 7.00 mm upon request

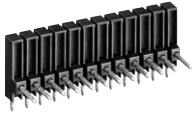
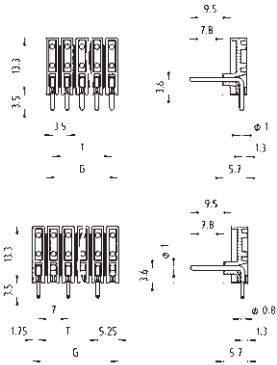
Rated voltages:
(spacing: 7 mm): VDE 0110

400 V/6 kV/3 – Overvoltage category III
690 V/6 kV/2 – Overvoltage category II
1000 V/6 kV/1 – Overvoltage category I

Material:
PC board connectors
Insulating housing: PC gray, UL 94-V-0
Clamping body with female contact:
tin-plated brass
Clamping screw: zinc-plated steel
Wire protection: tin-plated bronze

Terminal strip header
Insulating part: PA 66/6, glass-fibre reinforced
gray or black, UL 94-V-0
Contact pin: tin-plated brass

Spacing: 3.50 mm



Color: black Color: black
Solder pin Ø 0.8 mm Solder pin Ø 1.0 mm
Bore hole Ø 1.0 mm Bore hole Ø 1.3 mm

Terminal strip header

horizontal mount



Part no.	Part no.
Color: black	Color: black
Z5.532.0225.0	Z5.532.3225.0
Z5.532.0325.0	Z5.532.3325.0
Z5.532.0425.0	Z5.532.3425.0
Z5.532.0525.0	Z5.532.3525.0
Z5.532.0625.0	Z5.532.3625.0
Z5.532.0725.0	Z5.532.3725.0
Z5.532.0825.0	Z5.532.3825.0
Z5.532.0925.0	Z5.532.3925.0
Z5.532.1025.0	Z5.532.4025.0
Z5.532.1125.0	Z5.532.4125.0
Z5.532.1225.0	Z5.532.4225.0
Z5.532.1325.0	Z5.532.4325.0
Z5.532.1425.0	Z5.532.4425.0
Z5.532.1525.0	Z5.532.4525.0
Z5.532.1625.0	Z5.532.4625.0

PC board connectors

pluggable, spacings: 5.00/10.00 mm

wiecon PCB

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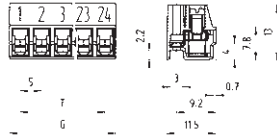
Rated cross section:
2.5 mm²

Rated current:
8 A

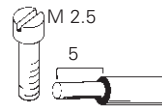
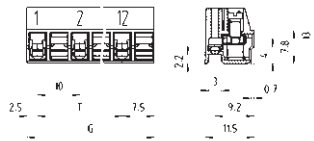
Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

200 V/4 kV/3 – Overvoltage category III
250 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

Spacing: 5.00 mm



Spacing: 10.00 mm



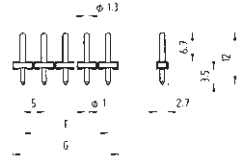
Type 8142

plug-in 90° to wire entry

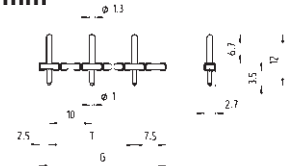
No. 22 – 12 AWG 300 V 15 A
No. 22 – 12 AWG 300 V 15 A



Spacing: 5.00 mm



Spacing: 10.00 mm



Color: gray Color: black
Solder pin Ø 1.0 mm Solder pin Ø 1.3 mm
Bore hole Ø 1.3 mm Bore hole Ø 1.6 mm

Terminal strip header

vertical mount



Rated voltages: VDE 0110 (spacing 5 mm)

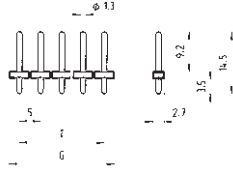
UL ratings

CSA ratings

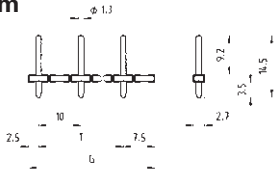
Approvals

Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.	
Spacing: 5.00 mm				unmarked	marked	Color: gray	Color: black	
100	10	5	2	25.602.2253.0	25.600.2253.0	Z5.530.0225.0	Z5.530.3225.0	
100	15	10	3	25.602.2353.0	25.600.2353.0	Z5.530.0325.0	Z5.530.3325.0	
50	20	15	4	25.602.2453.0	25.600.2453.0	Z5.530.0425.0	Z5.530.3425.0	
50	25	20	5	25.602.2553.0	25.600.2553.0	Z5.530.0525.0	Z5.530.3525.0	
50	30	25	6	25.602.2653.0	25.600.2653.0	Z5.530.0625.0	Z5.530.3625.0	
50	35	30	7	25.602.2753.0	25.600.2753.0	Z5.530.0725.0	Z5.530.3725.0	
50	40	35	8	25.602.2853.0	25.600.2853.0	Z5.530.0825.0	Z5.530.3825.0	
50	45	40	9	25.602.2953.0	25.600.2953.0	Z5.530.0925.0	Z5.530.3925.0	
50	50	45	10	25.602.3053.0	25.600.3053.0	Z5.530.1025.0	Z5.530.4025.0	
50	55	50	11	25.602.3153.0	25.600.3153.0	Z5.530.1125.0	Z5.530.4125.0	
50	60	55	12	25.602.3253.0	25.600.3253.0	Z5.530.1225.0	Z5.530.4225.0	
50	65	60	13	25.602.3353.0	25.600.3353.0	Z5.530.1325.0	Z5.530.4325.0	
50	70	65	14	25.602.3453.0	25.600.3453.0	Z5.530.1425.0	Z5.530.4425.0	
50	75	70	15	25.602.3553.0	25.600.3553.0	Z5.530.1525.0	Z5.530.4525.0	
50	80	75	16	25.602.3653.0	25.600.3653.0	Z5.530.1625.0	Z5.530.4625.0	
17 to 24pole upon request								
Spacing: 10.00 mm				unmarked	marked			
50	20	10	2	25.603.1253.0	25.601.1253.0	Z5.530.6225.0	Z5.530.8225.0	
50	30	20	3	25.603.1353.0	25.601.1353.0	Z5.530.6325.0	Z5.530.8325.0	
50	40	30	4	25.603.1453.0	25.601.1453.0	Z5.530.6425.0	Z5.530.8425.0	
50	50	40	5	25.603.1553.0	25.601.1553.0	Z5.530.6525.0	Z5.530.8525.0	
50	60	50	6	25.603.1653.0	25.601.1653.0	Z5.530.6625.0	Z5.530.8625.0	
50	70	60	7	25.603.1753.0	25.601.1753.0	Z5.530.6725.0	Z5.530.8725.0	
50	80	70	8	25.603.1853.0	25.601.1853.0	Z5.530.6825.0	Z5.530.8825.0	
9 to 12pole upon request								
Rated voltages: (spacing: 10.00 mm): VDE 0110				Material: PC board connectors Insulating housing: PC gray, UL 94-V-0 Clamping body: nickel-plated brass Clamping screws: zinc-plated steel Contact spring: tin-plated bronze				
500 V/8 kV/3 – Overvoltage category III 800 V/8 kV/2 – Overvoltage category II 1000 V/8 kV/1 – Overvoltage category I				Terminal strip header Insulating part: PA 66/6, glass-fibre reinforced gray or black, UL 94-V-0 Contact pin: tin-plated brass				

Spacing: 5.00 mm



Spacing: 10.00 mm



Color: black
Solder pin Ø 1.0 mm
Bore hole Ø 1.3 mm

Color: black
Solder pin Ø 1.3 mm
Bore hole Ø 1.6 mm

Terminal strip header

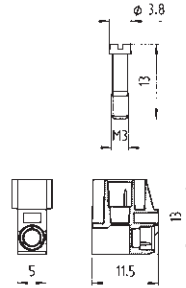
horizontal mount



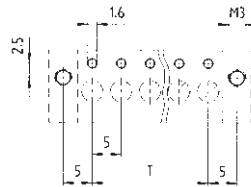
Part no.	Part no.
Color: black	Color: black
Z5.540.0225.0	Z5.540.3225.0
Z5.540.0325.0	Z5.540.3325.0
Z5.540.0425.0	Z5.540.3425.0
Z5.540.0525.0	Z5.540.3525.0
Z5.540.0625.0	Z5.540.3625.0
Z5.540.0725.0	Z5.540.3725.0
Z5.540.0825.0	Z5.540.3825.0
Z5.540.0925.0	Z5.540.3925.0
Z5.540.1025.0	Z5.540.4025.0
Z5.540.1125.0	Z5.540.4125.0
Z5.540.1225.0	Z5.540.4225.0
Z5.540.1325.0	Z5.540.4325.0
Z5.540.1425.0	Z5.540.4425.0
Z5.540.1525.0	Z5.540.4525.0
Z5.540.1625.0	Z5.540.4625.0
Z5.540.6225.0	Z5.540.8225.0
Z5.540.6325.0	Z5.540.8325.0
Z5.540.6425.0	Z5.540.8425.0
Z5.540.6525.0	Z5.540.8525.0
Z5.540.6625.0	Z5.540.8625.0
Z5.540.6725.0	Z5.540.8725.0
Z5.540.6825.0	Z5.540.8825.0

vertical mount

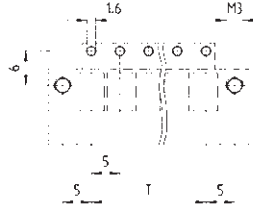
horizontal mount



Bore hole plan for fixing brackets vertical mount



Bore hole plan for fixing brackets horizontal mount



Part no.	Part no.	Part no.	Std. pack	Part no.	Std. pack
Fixing brackets:		Insulating material PA 66/6 gray,		Coding piece strip	
Screw M 3, zinc-plated steel		Z5.523.7653.0		Color: white 05.561.9453.0	
		100		Color: orange 05.561.9453.5	
Cover/marking strip 12 poles				Z5.523.7653.0	
				100	

PC board connectors, pluggable, spacing: 5.08 mm

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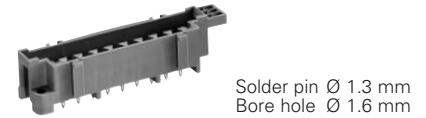
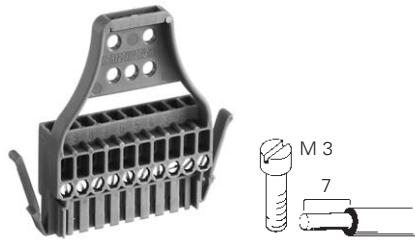
codable
1,5 mm²

Rated cross section:
1.5 mm²

Rated current:
10 A

Connection range:
0.14 – 2.5 mm² solid/
0.14 – 1.5 mm² fine stranded

200 V/4 kV/3 – Overvoltage category III
250 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Statement of Conformity/CH

TOP connector, 10pole Type ST 29/10 BC

plug-in 90° to wire entry

1.5 mm² 250 V 10 A
No. 22 – 14 AWG 300 V 5 A
No. 22 – 14 AWG 300 V 5 A



Terminal strip header

vertical mount

250 V 10 A
300 V 5 A
(if all terminals carry current)

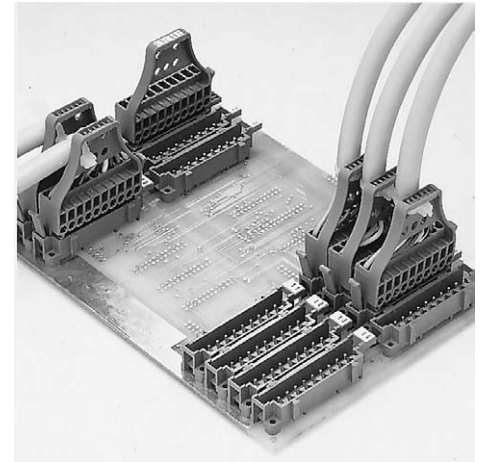


Rated voltages: VDE 0110
EN 60 998-1, EN 60 998-2-1
UL ratings
CSA ratings
Approvals

Spacing: 5.08 mm	Poles	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	10	ST 29/10 BC	93.101.2053.0	50		Z5.599.9025.0	50

Material:
PC board connectors
Insulating housing: PA 66/6 gray, UL 94-V-2
Clamping body: nickel-plated brass
Clamping screws: zinc-plated steel
Contact spring: tin-plated bronze

Terminal strip header
Insulating part: PBT, glass-fibre reinforced gray, UL 94-V-0
Contact pin: tin-plated brass



Accessories	Type	Part no.	Std. pack
Coding pieces, 10 codings each per strip		05.599.8053.0	100
Marking tag, unmarked	9705 A	04.242.0850.0	500
marked	9705 AB	04.842.0850.0	500
<p>Coding plan L = PC board connector S = terminal strip header</p> <p>Combination 01 S L L L L L L L S</p> <p>Combination 02 S L L L L L S L</p> <p>Combination 03 S L L L L S L L</p> <p>Combination 04 S L L L S L L L</p> <p>Combination 05 S L L S L L L L</p> <p>Combination 06 S L S L L L L L</p> <p>Combination 07 S S L L L L L L</p> <p>Combination 08 L S L L L L L S</p> <p>Combination 09 L S L L L L S L</p> <p>Combination 10 L S L L L S L L</p> <p>Combination 11 L S L L S L L L</p> <p>Combination 12 L S L S L L L L</p> <p>Combination 13 L S S L L L L L</p> <p>Combination 14 L L S L L L L S</p> <p>etc.</p>			

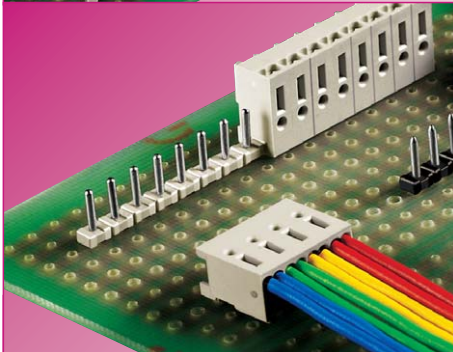
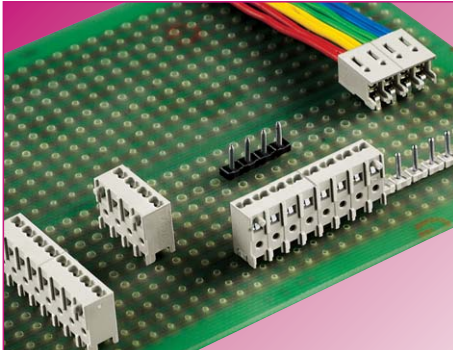
Pluggable terminal strip header with TOP connection

A special version of the TOP system is the 5.08 mm spaced terminal strip header which can be soldered into a PC board. Two mounting holes are available in order to fix the terminal strip header.

- Strain relief
- Locking device
- Marking capabilities

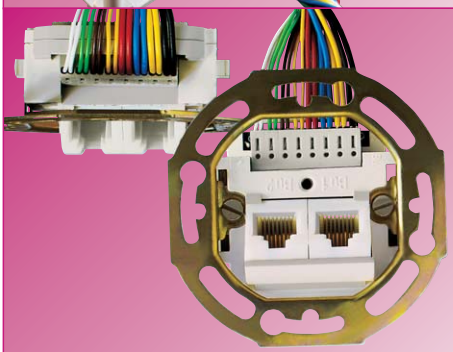
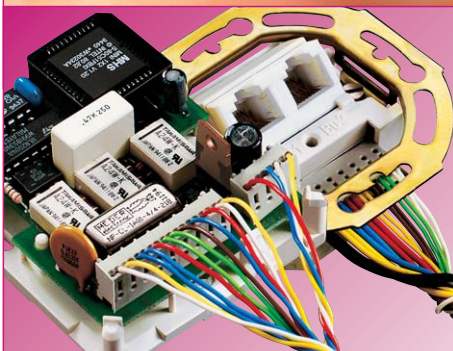
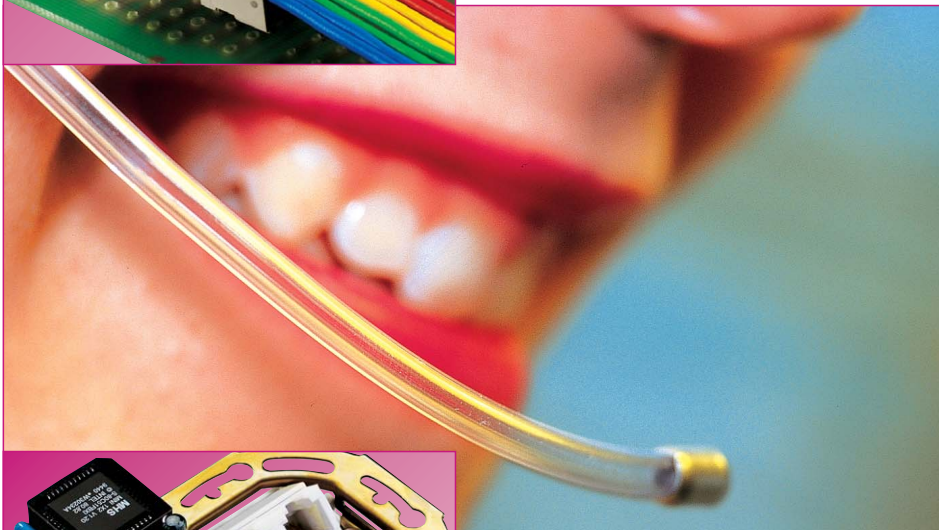
By means of dove-tail guides, several terminal strip headers can be snapped together, while only the outer headers of this group must be mechanically fixed on the printed circuit board. In order to guarantee the necessary stability on the printed circuit board, it is not recommended to exceed four terminal strip headers in a group. The terminal TOP connector and terminal strip header each possess eight slots for coding to prevent mismatching the TOP plug-in system.

Spring clamp connector for PC boards onlinecomponents.com
 Type 8520 B, pluggable design
wiecon PCB



The advantage of a PC board connector with spring clamp termination is that connections to the PC board can be made in a fast and economical way. Based on this fact, Wieland Electric GmbH developed their new PC board connector type 8520.

The main field of application for this PC board connector is in communication technology, a sector which demands fast connections.

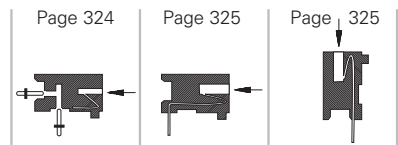


Further advantages:

- no clamping screws
- minimized wiring times
- permanent and continuous clamping forces
- vibration- and shock-proof
- maintenance-free

Different versions of type 8520 expand the spectrum of applications. It is available as a pluggable connector with matching pin strip, and in a direct mount solder version with vertical and horizontal solder pins. The rated cross section is 0.5 mm² solid, which makes the wiring process easy: simply push the solid conductor into the clamp, forcing it open, no tools required. The spring clamp tension will securely terminate the conductor. The spacing is 3.5 mm and the pole configurations vary between 2 and 16 poles.





		Page 324	Page 325	Page 325
Type		8520 B	8520 BL/...W	8520 BL/...G
Spacing	mm	3.50/7.00	3.50/7.00	3.50/7.00
Cross section	mm ²	0.25 – 0.50	0.25 – 0.50	0.25 – 0.50
Number of poles		2 – 16	2 – 16	2 – 16



Spring clamp connector for PCBs

Type 8520, pluggable, spacings: 3.50/7.00 mm, 2 x 0.5 mm²

wiecon PCB

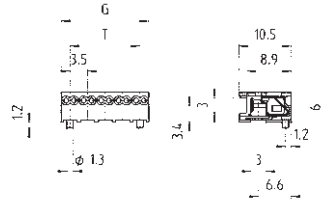
Rated cross section:
0.5 mm²

Rated current:
4 A

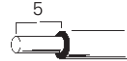
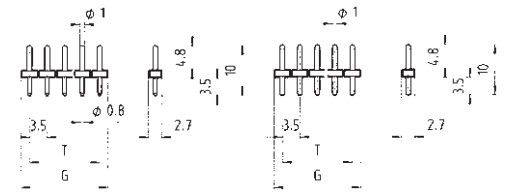
Connection range:
0.25 – 0.5 mm² solid
2 connections per pole

160 V/2.5 kV/3 – Overvoltage category III
250 V/2.5 kV/2 – Overvoltage category II
*690 V/2.5 kV/1 – Overvoltage category I

Spacing: 3.50 mm



Spacing: 3.50 mm



Color: gray Solder pin Ø 0.8 mm Bore hole Ø 1.0 mm
Color: black Solder pin Ø 1.0 mm Bore hole Ø 1.2 mm

* max. 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.0 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm

Type 8520 B

plug-in horizontal and vertical

Pin strip 8520 S

vertical mount

Rated voltages: VDE 0110 (Spacing: 3.5 mm)

UL ratings

CSA ratings

Approvals

No. 24 – 20 AWG

300 V

4 A

No. 24 – 20 AWG

300 V

4 A



Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm				unmarked	marked	Color: gray	Color: black
1000	7.0	3.5	2	25.470.0253.0	25.470.3253.0	Z5.535.0225.0	Z5.535.3225.0
1000	10.5	7.0	3	25.470.0353.0	25.470.3353.0	Z5.535.0325.0	Z5.535.3325.0
1000	14.0	10.5	4	25.470.0453.0	25.470.3453.0	Z5.535.0425.0	Z5.535.3425.0
500	17.5	14.0	5	25.470.0553.0	25.470.3553.0	Z5.535.0525.0	Z5.535.3525.0
500	21.0	17.5	6	25.470.0653.0	25.470.3653.0	Z5.535.0625.0	Z5.535.3625.0
500	24.5	21.0	7	25.470.0753.0	25.470.3753.0	Z5.535.0725.0	Z5.535.3725.0
500	28.0	24.5	8	25.470.0853.0	25.470.3853.0	Z5.535.0825.0	Z5.535.3825.0
250	31.5	28.0	9	25.470.0953.0	25.470.3953.0	Z5.535.0925.0	Z5.535.3925.0
250	35.0	31.5	10	25.470.1053.0	25.470.4053.0	Z5.535.1025.0	Z5.535.4025.0
250	38.5	35.0	11	25.470.1153.0	25.470.4153.0	Z5.535.1125.0	Z5.535.4125.0
250	42.0	38.5	12	25.470.1253.0	25.470.4253.0	Z5.535.1225.0	Z5.535.4225.0
250	45.5	42.0	13	25.470.1353.0	25.470.4353.0	Z5.535.1325.0	Z5.535.4325.0
250	49.0	45.5	14	25.470.1453.0	25.470.4453.0	Z5.535.1425.0	Z5.535.4425.0
250	52.5	49.0	15	25.470.1553.0	25.470.4553.0	Z5.535.1525.0	Z5.535.4525.0
250	56.0	52.5	16	25.470.1653.0	25.470.4653.0	Z5.535.1625.0	Z5.535.4625.0

Spacing: 7.00 mm upon request

Rated voltages:
(spacing: 7.00 mm): VDE 0110

400 V/6 kV/3 – Overvoltage category III
690 V/6 kV/2 – Overvoltage category II
1000 V/6 kV/1 – Overvoltage category I

Material:

PC board connectors

Insulating housing: PA 66/6, UL 94-V0

Clamping spring: special copper alloys
tin-plated

Pin strips

Insulating part: PA 66/6, glass-fibre reinforced
gray or black, UL 94-V-0

Contact pin: tin-plated brass

Spring clamp connector for PCBs

Type 8520 BL, direct mount spring clamp

Spacings: 3.50/7.00 mm, 2 x 0.5 mm²

Rated cross section:
0.5 mm²

Rated current:
4 A

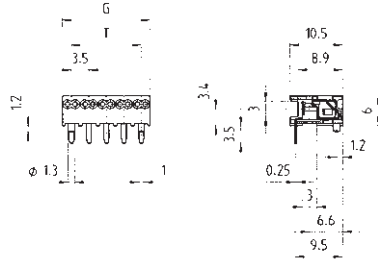
Connection range:
0.25 – 0.5 mm² solid
2 connections per pole

160 V/2.5 kV/3 – Overvoltage category III
250 V/2.5 kV/2 – Overvoltage category II
*690 V/2.5 kV/1 – Overvoltage category I

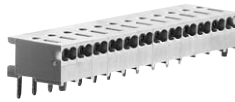
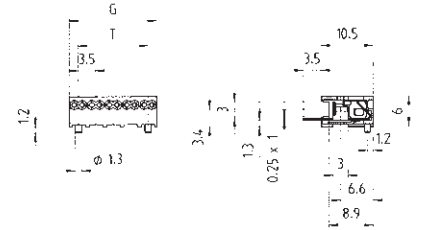
* max. 600 V ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.0 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals pending

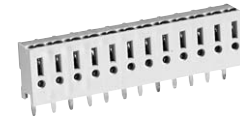
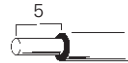
Spacing: 3.50 mm



Spacing: 3.50 mm



Solder pin 0.25 x 1.0 mm
Bore hole Ø 1.1 mm



Type 8520 BL/...W

Wire horizontal to PC board

No. 24 – 20 AWG 300 V 4 A
No. 24 – 20 AWG 300 V 4 A



Type 8520 BL/...G

Wire vertical to PC board

No. 24 – 20 AWG 300 V 4 A
No. 24 – 20 AWG 300 V 4 A

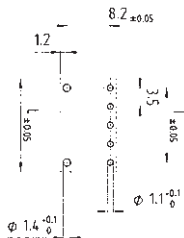
Std. pack	G	T	Poles	Part no. unmarked	Part no. marked	Part no. unmarked	Part no. marked
Spacing: 3.50 mm							
1000	7.0	3.5	2	25.471.0253.0	25.471.3253.0	25.472.0253.0	25.472.3253.0
1000	10.5	7.0	3	25.471.0353.0	25.471.3353.0	25.472.0353.0	25.472.3353.0
1000	14.0	10.5	4	25.471.0453.0	25.471.3453.0	25.472.0453.0	25.472.3453.0
500	17.5	14.0	5	25.471.0553.0	25.471.3553.0	25.472.0553.0	25.472.3553.0
500	21.0	17.5	6	25.471.0653.0	25.471.3653.0	25.472.0653.0	25.472.3653.0
500	24.5	21.0	7	25.471.0753.0	25.471.3753.0	25.472.0753.0	25.472.3753.0
500	28.0	24.5	8	25.471.0853.0	25.471.3853.0	25.472.0853.0	25.472.3853.0
250	31.5	28.0	9	25.471.0953.0	25.471.3953.0	25.472.0953.0	25.472.3953.0
250	35.0	31.5	10	25.471.1053.0	25.471.4053.0	25.472.1053.0	25.472.4053.0
250	38.5	35.0	11	25.471.1153.0	25.471.4153.0	25.472.1153.0	25.472.4153.0
250	42.0	38.5	12	25.471.1253.0	25.471.4253.0	25.472.1253.0	25.472.4253.0
250	45.5	42.0	13	25.471.1353.0	25.471.4353.0	25.472.1353.0	25.472.4353.0
250	49.0	45.5	14	25.471.1453.0	25.471.4453.0	25.472.1453.0	25.472.4453.0
250	52.5	49.0	15	25.471.1553.0	25.471.4553.0	25.472.1553.0	25.472.4553.0
250	56.0	52.5	16	25.471.1653.0	25.471.4653.0	25.472.1653.0	25.472.4653.0

Spacing: 7.00 mm upon request

Rated voltages:
(Spacing: 7.00 mm): VDE 0110

400 V/6 kV/3 – Overvoltage category III
690 V/6 kV/2 – Overvoltage category II
1000 V/6 kV/1 – Overvoltage category I

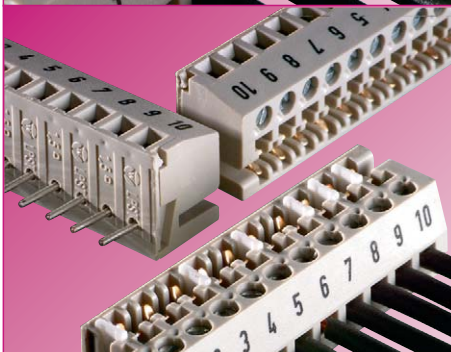
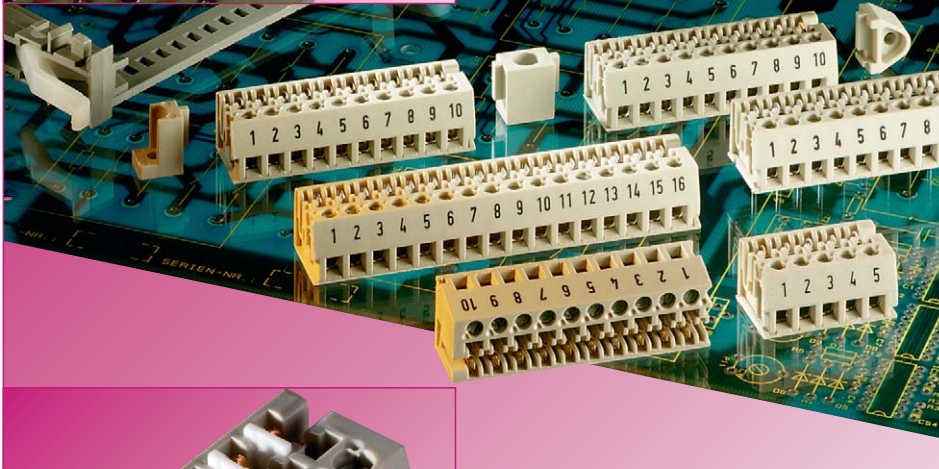
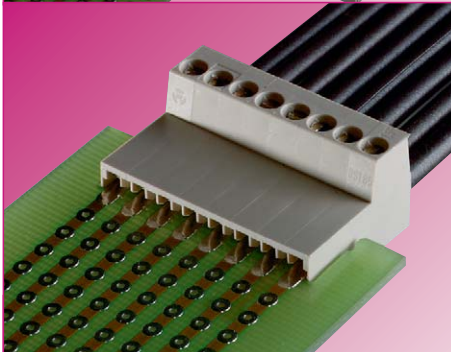
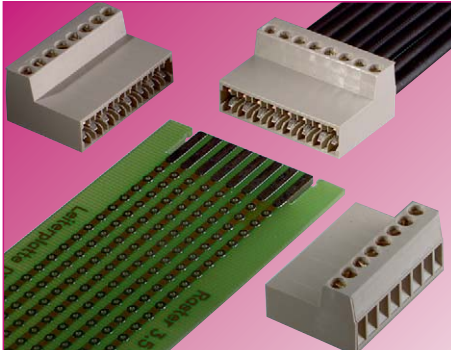
Bore hole plan, 3.50/7.00 mm spacing with angled solder pin and fixing bolts:



PC board connectors edge card pluggables

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Edge card pluggables offer the advantages of standard pluggable connectors, but without the requirement of the mounting header.

System features

- installation and maintenance friendly
- easy-to-operate screw termination
- quick disconnect
- clear, organized wiring
- thickness of PC board: 1.4 mm to 1.8 mm
- floating contact springs
- secure, robust clamping mechanism

Coding

- coding without pole loss
- PC board with coding slots accept coding pieces inserted into the plug

Fixing brackets

- for secure connection of printed circuit board and connector
- special fixing brackets as guides for large PC boards. With fixing bolts on the sides at the top and bottom which fix backing strips creating a stable guiding frame.

Material

Metal parts:

- made from special alloys and/or special surface treatments
- minimum feed through resistance
- high corrosion resistance

Insulating housings:

- use of high-quality polyamide for its excellent electrical, mechanical and chemical characteristics (see **facts & DATA**: Technical information)
- materials as per US standard UL 94-V-0
- colors: gray, similar to RAL 7032

Note:

The information regarding cross sectional areas and connection types pertains to connections without ferrules.

The indicated rated current corresponds to the maximum load for the PC board connector with a connected wire of the indicated rated cross section.

The rated voltage is indicated as per DIN VDE 0110 part 1 (IEC 60 664-1) – insulation coordinates for electrical material in low voltage application – and refers to the delivered state of the PC board connector.

Before the PC board is fitted with connectors, an appropriate PC board must be selected and dimensioned accordingly (e.g. regarding tracking resistance of the printed circuit board, distances of the leads and solder joints).

Furthermore, the ambient conditions under which the materials shall be used, must be considered.

The indicated rated voltages will be valid for the complete module only if the printed circuit board and its connectors are correctly and clearly adjusted to each other.

Abbreviations for plastic materials:

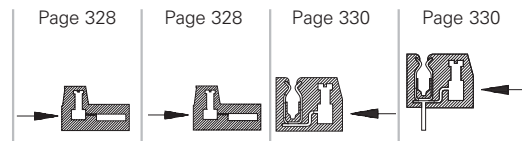
PA 66/6 = Polyamide 66/6
PC = Polycarbonate
PBT = Polybutylenterephthalate

Marking

- smudge-proof inkjet marking directly on the connector
- custom marking possible, consult factory
- clear, easily legible marking

Variety of types

- in 3.5 mm and 5 mm spacing
- pole configurations from 2 to 24 poles
- cross sections up to 1.5 mm²
- with open side walls: snap together adjacently, or with closed side walls: prevent mis-mating
- with or without solder pins



		Page 328	Page 328	Page 330	Page 330
Type		DST 85	DSTLF 85	LPST 1	LPSTL 1
Spacing	mm	3.50	3.50	5.00	5.00
Cross section	mm²	1.5	1.5	2.5	2.5
Number of poles		2 – 24	2 – 24	2 – 20	2 – 20

For all solderable PC board terminals it is important that recommended torque values are not exceeded.



PC board connectors edge card pluggables, spacing: 3.50 mm

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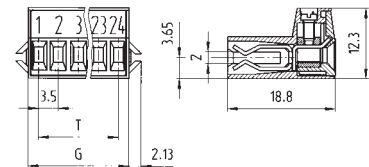
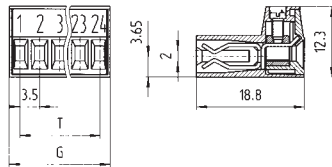
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Rated cross section:
1.5 mm²

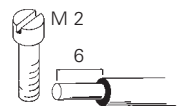
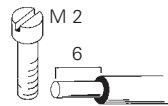
Rated current:
6 A

Connection range:
0.14 – 1.5 mm² solid/fine stranded

125 V/2.5 kV/3 – Overvoltage category III
250 V/2.5 kV/2 – Overvoltage category II
*690 V/2.5 kV/1 – Overvoltage category I



* max. 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.0 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm



Type DST 85
plug-in 180° to wire entry

Type DST LF 85
plug-in 180° to wire entry

Rated voltages: VDE 0110
UL ratings
CSA ratings
Approvals

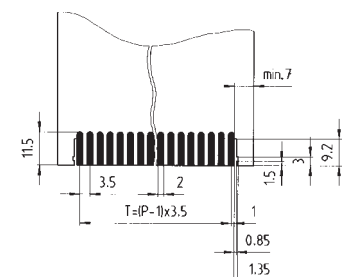
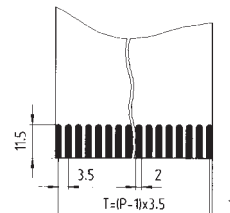
No. 30 – 14 AWG 300 V 6 A
No. 30 – 14 AWG 300 V 6 A

No. 30 – 14 AWG 300 V 6 A
No. 30 – 14 AWG 300 V 6 A

Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm				unmarked	marked	unmarked	marked
100	7.1	3.4	2	25.003.0253.0	25.002.0253.0	25.005.0253.0	25.004.0253.0
100	10.5	6.8	3	25.003.0353.0	25.002.0353.0	25.005.0353.0	25.004.0353.0
50	14.0	10.3	4	25.003.0453.0	25.002.0453.0	25.005.0453.0	25.004.0453.0
50	17.5	13.8	5	25.003.0553.0	25.002.0553.0	25.005.0553.0	25.004.0553.0
50	21.0	17.3	6	25.003.0653.0	25.002.0653.0	25.005.0653.0	25.004.0653.0
50	24.5	20.8	7	25.003.0753.0	25.002.0753.0	25.005.0753.0	25.004.0753.0
50	28.0	24.3	8	25.003.0853.0	25.002.0853.0	25.005.0853.0	25.004.0853.0
50	31.5	27.8	9	25.003.0953.0	25.002.0953.0	25.005.0953.0	25.004.0953.0
50	35.0	31.3	10	25.003.1053.0	25.002.1053.0	25.005.1053.0	25.004.1053.0
50	38.5	34.8	11	25.003.1153.0	25.002.1153.0	25.005.1153.0	25.004.1153.0
50	42.0	38.3	12	25.003.1253.0	25.002.1253.0	25.005.1253.0	25.004.1253.0
only available up to 12pole							

Thickness of PC board: 1.4 mm – 1.8 mm

Material:
PC board connectors
Insulating housing: PA 66/6 gray, UL 94-V0
Clamping body: nickel-plated brass
Clamping screw: zinc-plated steel
Contact spring: tin-plated bronze



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PC board connector card edge design, spacing: 5.00 mm

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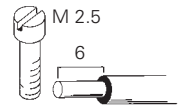
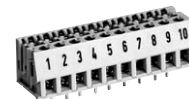
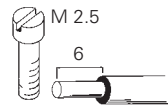
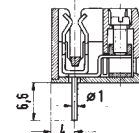
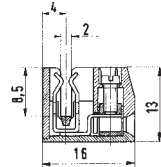
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Rated cross section:
2.5 mm²

Rated current:
5 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

200 V/4 kV/3 – Overvoltage category III
320 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



**without solder connection
for PC boards**

Type LPST 1

plug-in 90° to wire entry

No. 22 – 14 AWG

300 V

5 A

No. 22 – 14 AWG

300 V

5 A



**with solder connection
for PC boards**

Type LPSTL 1

plug-in 90° to wire entry

No. 22 – 14 AWG

300 V

5 A

No. 22 – 14 AWG

300 V

5 A



Rated voltages VDE 0110

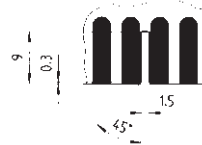
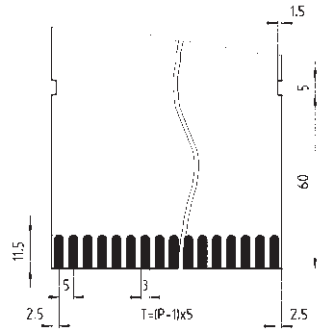
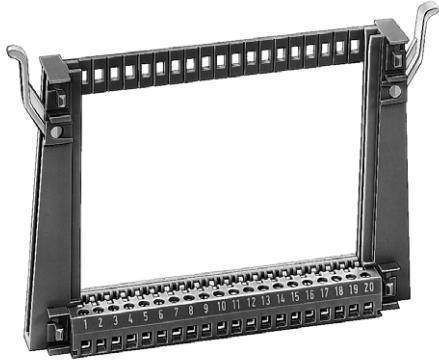
UL ratings

CSA ratings

Approvals


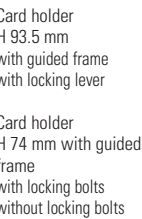
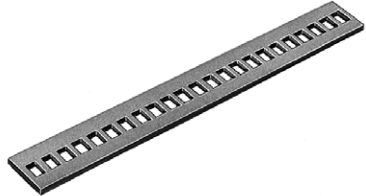



Std. pack	U	G	T	Poles	Part no.	Part no.	Part no.
Spacing: 5.00 mm							
					marked	unmarked	marked
100	25	14	5	2	25.000.0256.0	25.010.0256.0	25.001.0256.0
100	30	19	10	3	25.000.0356.0	25.010.0356.0	25.001.0356.0
50	35	24	15	4	25.000.0456.0	25.010.0456.0	25.001.0456.0
50	40	29	20	5	25.000.0556.0	25.010.0556.0	25.001.0556.0
50	45	34	25	6	25.000.0656.0	25.010.0656.0	25.001.0656.0
50	50	39	30	7	25.000.0756.0	25.010.0756.0	25.001.0756.0
50	55	44	35	8	25.000.0856.0	25.010.0856.0	25.001.0856.0
50	60	49	40	9	25.000.0956.0	25.010.0956.0	25.001.0956.0
50	65	54	45	10	25.000.1056.0	25.010.1056.0	25.001.1056.0
50	70	59	50	11	25.000.1156.0	25.010.1156.0	25.001.1156.0
50	75	64	55	12	25.000.1256.0	25.010.1256.0	25.001.1256.0
50	80	69	60	13	25.000.1356.0	25.010.1356.0	25.001.1356.0
50	85	74	65	14	25.000.1456.0	25.010.1456.0	25.001.1456.0
50	90	79	70	15	25.000.1556.0	25.010.1556.0	25.001.1556.0
50	95	84	75	16	25.000.1656.0	25.010.1656.0	25.001.1656.0
17 to 20pole upon request							
Thickness of PC board: 1.4 mm – 1.8 mm							
Material: PC board connectors Insulating housing: PBT, glass-fibre reinforced gray, UL 94-V-2 Clamping body: nickel-plated brass Clamping screw: zinc-plated steel Contact spring: tin bronze – LPST 1: silver-plated – LPSTL 1: tin-plated							

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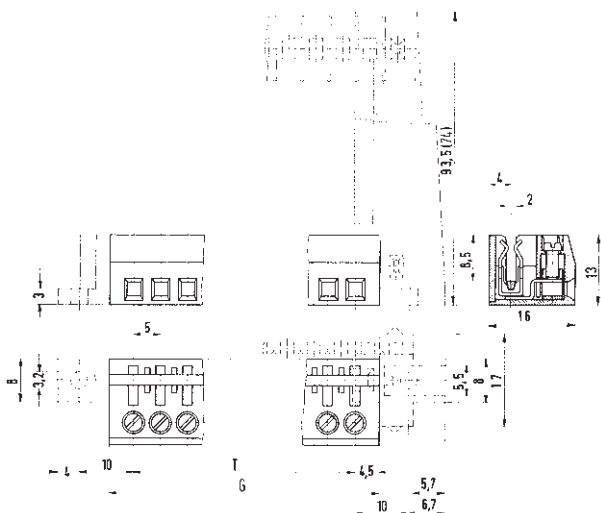


The PC board card edge connectors are fixed by means of card holders. For large printed circuit boards, card holders with guided frames are to be used.

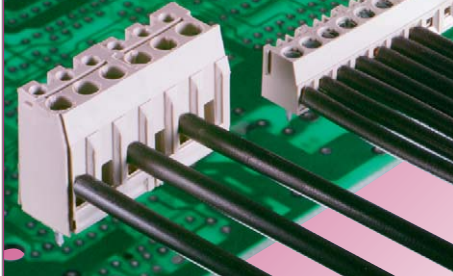
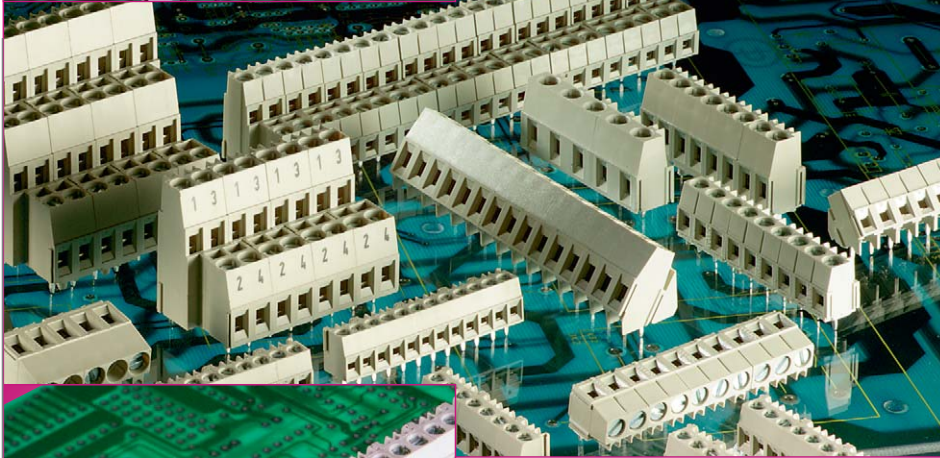
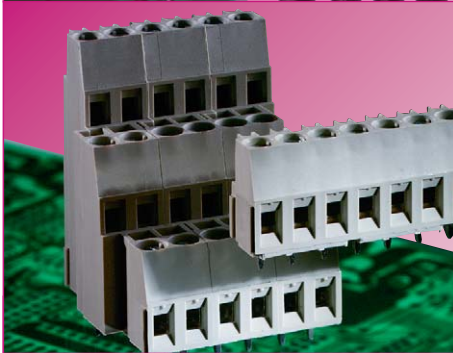
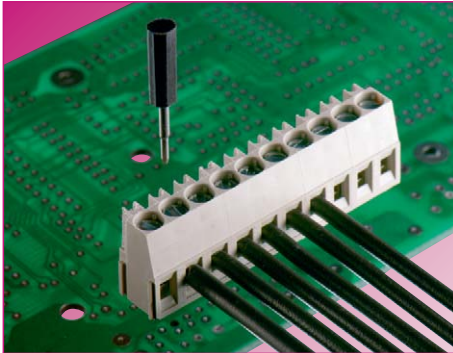
These card holders have locking bolts at the top, the bottom and on both sides, on which backing strips can be fixed, creating a stable guide frame.

Type	Part no.	Std. pack
		
Card holder H 93.5 mm with guided frame with locking lever	05.593.8853.0 05.594.3653.0	100 200
		
Card holder H 74 mm with guided frame with locking bolts without locking bolts	05.599.2853.0 05.599.2953.0	100 100
		
Backing strip	07.413.3653.0	100
		
Coding chip	05.593.7756.0	500
		
Card holder	05.522.7356.0	200
		
Card holder	05.522.7856.0	200
		
Middle clamp	05.522.7756.0	100

* Side walls available either on the right, or the left side or not at all, as the parts are cut to the required number of poles; therefore outside coding might not be possible.



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System features

- easy-to-operate application-specific connections
- connector soldered directly onto the printed circuit board
- low mechanical stress on the solder joint
- clear, open wire access
- individual wire entry as per application requirements
- multiple pole configurations
- accept solid and fine stranded wires from 0.14 mm² to 16 mm²
- in metric and inch spacing; inch spacing is indicated on the wire entry guide by means of a stud.
- wire clamping via rising cage clamp (elevator principle), clamping body with wire protection
- PC board connector with TOP connection

- PC board connector with spring clamp connection

Marking

- smudge-proof inkjet marking directly on the connector
- marking of individual poles with snap-on marking tag
- connectors with or without marking tag carriers
- custom marking possible, consult factory

Abbreviations for plastic materials:

- PA 66/6 = Polyamide 66/6
- PC = Polycarbonate
- PBT = Polybutylenterephthalate

Variety of types

- pole configurations from 2 to 24 poles
- wiring horizontal and vertical to the printed circuit board
- wiring in 45° or 35° angle possible
- in metric spacing: 3.5/5/7.5/10) mm or inch spacing: 3.81/5.08/7.62/10.16/20.32 mm
- individual connectors snap together
- multi-pole, single housing blocks
- with or without insulating plate
- with or without test fixture
- with or without fixing bolts

Material

Metal parts:

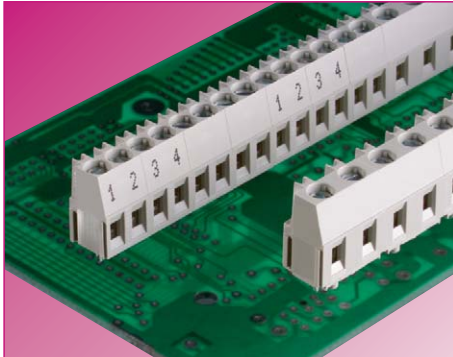
- made from special alloys and/or special surface treatments
- low feed through resistance
- high corrosion resistance
- secure, consistent clamping function

Insulating housings:

- use of high-quality Polyamide 66/6 for its excellent electrical, mechanical and chemical characteristics (for specifics, see individual connectors)

DQS certificates for all product families

- quality standard as per DIN ISO 9001
- in Development, Production, Assembly
- continued control of the quality standards by means of regular internal and external quality audits
- compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

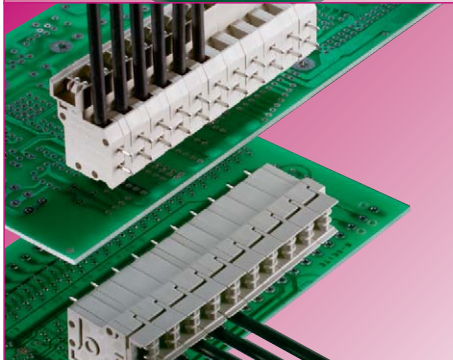


Insulating plate

- covers the clamping body with a plastic plate
- the safety values for air and creepage distances and clearances of the traces of the PC board connector are increased
- fixing bolts on the insulating plate of 2 and 3pole connectors reduce the mechanical stress on the solder joint

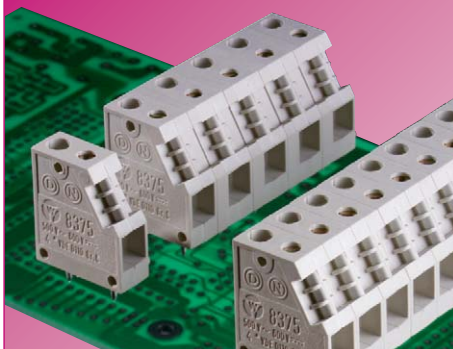
TOP connection

- screw termination in same plane as wire entry
- easy access for the user in narrow spaces
- snap-on marking tag carrier
- double solder tails per pole



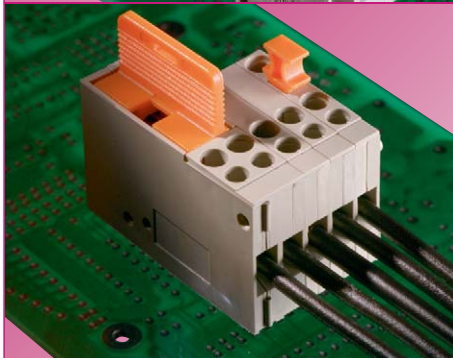
Single pole connectors

- single connectors snap together
- secure, tight locking pins
- the spacing can be expanded by means of spacer plates
- available spacings:
5.00/5.08/6.35/7.50/7.62/10.00/
10.16/20.32 mm
- with end plate
- two solder tails per pole



Special-purpose connectors

- snap together individually
- 5.08 mm spacing
- securely fixed to the printed circuit board by double solder tails
- feed through connector
- knife edge disconnect block
- fuse block with G fuse insert and integrated return conductor
- test plug for 2 mm or 3 mm test plug



Note:

The information regarding cross sectional areas and connection types pertains to connections without ferrules.

The indicated rated current corresponds to the maximum load for the PC board with connected wire of the indicated rated cross section.

The rated voltage is indicated as per DIN VDE 0110 part 1 (IEC 60 664-1) – insulation coordination for electrical material in low voltage application – and refers to the delivered state of the PC board connector.

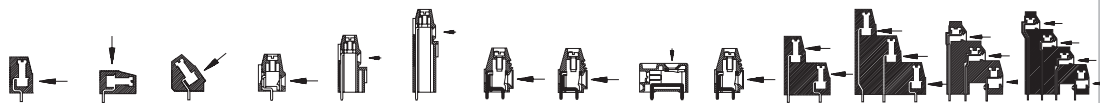
Before the PC board is fitted with connectors, an appropriate PC board must be selected and dimensioned accordingly (e.g. regarding tracking resistance of the lines and solder joints).

Furthermore, the ambient conditions under which the materials shall be used, must be considered.

The indicated rated voltages will be valid for the complete module only if the printed circuit board and PC board connectors are correctly and clearly adjusted to each other.

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PC board connectors



Cross section (fine stranded)	Spacing	Rising cage clamp											
1 mm ²	3.50	8593 p. 336											
	3.81	8893 p. 336											
1.5 mm ²	5.00/ 10.00	8192 p. 338	8192 ZW p. 339	8134 p. 360							8192 E p. 364	8195 D p. 372	8195 V p. 375
	5.08	8292 p. 338	8292 ZW p. 339	8234 p. 360	8292 H p. 341	8292 EH p. 340	8292 DH p. 340				8292 E p. 364		
	7.50												
	7.62												
2.5 mm ²	5.00/ 10.00	8190 p. 358 8191 p. 344	8191 ZW p. 345	8135 p. 362							8190 E p. 368 8191 E p. 357	8191 D p. 357	
	5.00	8191 R p. 342	8191 p. 344									8195 D p. 372	8195 V p. 373
	5.08	8291 R p. 342 8291 p. 357	8291 ZW p. 357	8235 p. 357							8291 E p. 357	8291 D p. 357	
	7.50	8390 p. 359 8491 p. 346	8391 ZW p. 347										
	7.62	8491 p. 346	8491 ZW p. 347										
4 mm ²	6.35												
	7.50												
	7.62												
	10.00												
10 mm ²	10.16								7572 L2 p. 376	7572 L4 p. 376	7573 L2/W p. 375		
	20.32										7572 L2 p. 376		

PC board connectors, rising cage clamping system

Spacing: 3.50/3.81 mm

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Rated cross section:
1.0 mm²

Rated current:
10 A

Connection range:
0.14 – 1.5 mm² solid/
0.14 – 1.0 mm² fine stranded

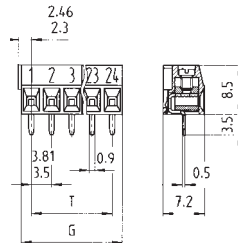
160 V/2.5 kV/3 – Overvoltage category III
*250 V/2.5 kV/2 – Overvoltage category II
**690 V/2.5 kV/1 – Overvoltage category I

* up to 400 V in overvoltage category I
or expected overvoltage ≤ 3 kV
for L ≥ 2.0 mm and ≤ 2.5 kV für 2.0 mm > L ≥ 1.5 mm

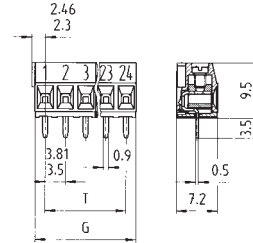
** max. 600 V overvoltage expected
overvoltage ≤ 3 kV for L ≥ 2.0 mm and
≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm

Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

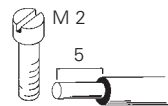
without insulating plate



with insulating plate



Solder pin 0.5 x 0.9 mm
Bore hole Ø 1.1 mm



Type 8593/8893
wire horizontal to PC board

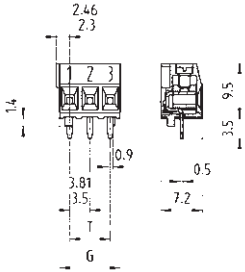
No. 30 – 16 AWG 300 V 10 A
No. 30 – 16 AWG 300 V 10 A



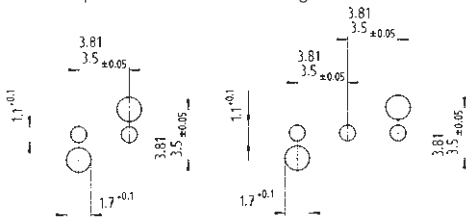
Material:
Insulating housing:
PA 66/6 gray, UL 94-V-2
Clamping body: nickel-plated brass
Contact clip with solder pin:
tin-plated bronze
Clamping screw: zinc-plated steel
Brass Nickel-plated
available upon request

Std. pack	L	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
100	7.0	3.5	2	25.195.0253.0	25.194.0253.0	25.195.9253.0	25.194.9253.0
100	10.5	7.0	3	25.195.0353.0	25.194.0353.0	25.195.9353.0	25.194.9353.0
50	14.0	10.5	4	25.195.0453.0	25.194.0453.0		
50	17.5	14.0	5	25.195.0553.0	25.194.0553.0		
50	21.0	17.5	6	25.195.0653.0	25.194.0653.0		
50	24.5	21.0	7	25.195.0753.0	25.194.0753.0		
50	28.0	24.5	8	25.195.0853.0	25.194.0853.0		
50	31.5	28.0	9	25.195.0953.0	25.194.0953.0		
50	35.0	31.5	10	25.195.1053.0	25.194.1053.0		
50	38.5	35.0	11	25.195.1153.0	25.194.1153.0		
50	42.0	38.5	12	25.195.1253.0	25.194.1253.0		
50	45.5	42.0	13	25.195.1353.0	25.194.1353.0		
50	49.0	45.5	14	25.195.1453.0	25.194.1453.0		
50	52.5	49.0	15	25.195.1553.0	25.194.1553.0		
50	56.0	52.5	16	25.195.1653.0	25.194.1653.0		
17 to 24pole upon request							
Spacing: 3.81 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
100	7.62	3.81	2	25.197.0253.0	25.196.0253.0	25.197.9253.0	25.196.9253.0
100	11.43	7.62	3	25.197.0353.0	25.196.0353.0	25.197.9353.0	25.196.9353.0
50	15.24	11.43	4	25.197.0453.0	25.196.0453.0		
50	19.50	15.24	5	25.197.0553.0	25.196.0553.0		
50	22.86	19.05	6	25.197.0653.0	25.196.0653.0		
50	26.67	22.86	7	25.197.0753.0	25.196.0753.0		
50	30.48	26.67	8	25.197.0853.0	25.196.0853.0		
50	34.29	30.48	9	25.197.0953.0	25.196.0953.0		
50	38.10	34.29	10	25.197.1053.0	25.196.1053.0		
50	41.91	38.10	11	25.197.1153.0	25.196.1153.0		
50	45.72	41.91	12	25.197.1253.0	25.196.1253.0		
50	49.53	45.72	13	25.197.1353.0	25.196.1353.0		
50	53.34	49.53	14	25.197.1453.0	25.196.1453.0		
50	57.15	53.34	15	25.197.1553.0	25.196.1553.0		
50	60.96	57.15	16	25.197.1653.0	25.196.1653.0		
17 to 24pole upon request							

with insulating plate **with** fixing bolts



Bore hole plan for version **with** fixing bolts



Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts
upon request	upon request
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts
upon request	upon request

PC board connectors, rising cage clamp system

Spacing: 5.00/5.08 mm

wiecon PCB

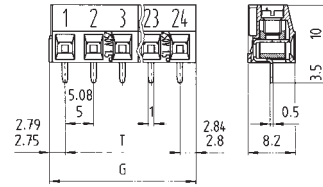
Rated cross section:
1.5 mm²

Rated current:
10 A

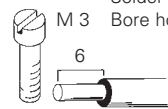
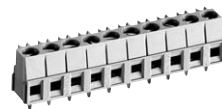
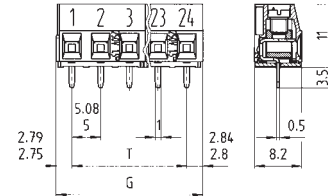
Connection range:
0.14 – 2.5 mm² solid/
0.14 – 1.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

without insulating plate



with insulating plate



Solder pin 0.5 x 1 mm
Bore hole Ø 1.2 mm

Material:
Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: nickel-plated brass
Contact clip with solder pin:
tin-plated bronze
Clamping screw: zinc-plated steel
Brass Nickel-plated
available upon request

Type 8192/8292
wire horizontal to PC board

No. 30 – 14 AWG 300 V 15/16 A
No. 30 – 14 AWG 300 V 15 A



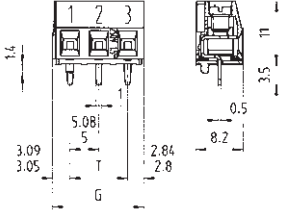
* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

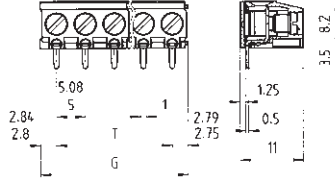
Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
100	10.55	5	2	25.191.0253.0	25.190.0253.0	25.191.9253.0	25.190.9253.0
100	15.55	10	3	25.191.0353.0	25.190.0353.0	25.191.9353.0	25.190.9353.0
50	20.55	15	4	25.191.0453.0	25.190.0453.0		
50	25.55	20	5	25.191.0553.0	25.190.0553.0		
50	30.55	25	6	25.191.0653.0	25.190.0653.0		
50	35.55	30	7	25.191.0753.0	25.190.0753.0		
50	40.55	35	8	25.191.0853.0	25.190.0853.0		
50	45.55	40	9	25.191.0953.0	25.190.0953.0		
50	50.55	45	10	25.191.1053.0	25.190.1053.0		
50	55.55	50	11	25.191.1153.0	25.190.1153.0		
50	60.55	55	12	25.191.1253.0	25.190.1253.0		
50	65.55	60	13	25.191.1353.0	25.190.1353.0		
50	70.55	65	14	25.191.1453.0	25.190.1453.0		
50	75.55	70	15	25.191.1553.0	25.190.1553.0		
50	80.55	75	16	25.191.1653.0	25.190.1653.0		
17 to 24pole upon request							
Spacing: 5.08 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
100	10.71	5.08	2	25.193.0253.0	25.192.0253.0	25.193.9253.0	25.192.9253.0
100	15.79	10.16	3	25.193.0353.0	25.192.0353.0	25.193.9353.0	25.192.9353.0
50	20.87	15.24	4	25.193.0453.0	25.192.0453.0		
50	25.95	20.32	5	25.193.0553.0	25.192.0553.0		
50	31.03	25.40	6	25.193.0653.0	25.192.0653.0		
50	36.11	30.48	7	25.193.0753.0	25.192.0753.0		
50	41.19	35.56	8	25.193.0853.0	25.192.0853.0		
50	46.27	40.64	9	25.193.0953.0	25.192.0953.0		
50	51.35	45.72	10	25.193.1053.0	25.192.1053.0		
50	56.43	50.80	11	25.193.1153.0	25.192.1153.0		
50	61.51	55.88	12	25.193.1253.0	25.192.1253.0		
50	66.59	60.96	13	25.193.1353.0	25.192.1353.0		
50	71.67	66.04	14	25.193.1453.0	25.192.1453.0		
50	76.75	71.12	15	25.193.1553.0	25.192.1553.0		
50	81.83	76.20	16	25.193.1653.0	25.192.1653.0		
17 to 24pole upon request							

wiecon

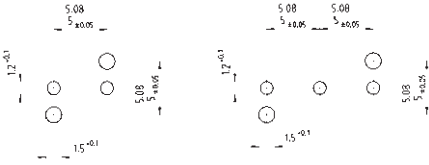
with insulating plate with fixing bolts



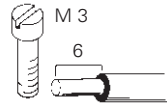
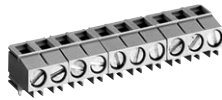
with insulating plate horizontal



Bore hole plan for version with fixing bolts



Solder pin 0.5 x 1 mm
Bore hole Ø 1.2 mm



Type 8192 ZW/8292 ZW

Wire vertical to PC board

No. 30 – 14 AWG

300 V 15/16 A

No. 30 – 14 AWG

300 V 15 A



Part no.	Part no.	Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts	unmarked with insulating plate horizontal	marked with insulating plate horizontal
upon request	upon request	25.191.6253.0 25.191.6353.0 25.191.6453.0	upon request
		25.191.6553.0 25.191.6653.0 25.191.6753.0	
		25.191.6853.0 25.191.6953.0 25.191.7053.0	
		25.191.7153.0 25.191.7253.0 25.191.7353.0	
		25.191.7453.0 25.191.7553.0 25.191.7653.0	
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts	unmarked with insulating plate horizontal	marked with insulating plate horizontal
upon request	upon request	25.193.6253.0 25.193.6353.0 25.193.6453.0	upon request
		25.193.6553.0 25.193.6653.0 25.193.6753.0	
		25.193.6853.0 25.193.6953.0 25.193.7053.0	
		25.193.7153.0 25.193.7253.0 25.193.7353.0	
		25.193.7453.0 25.193.7553.0 25.193.7653.0	

wiecon PCB

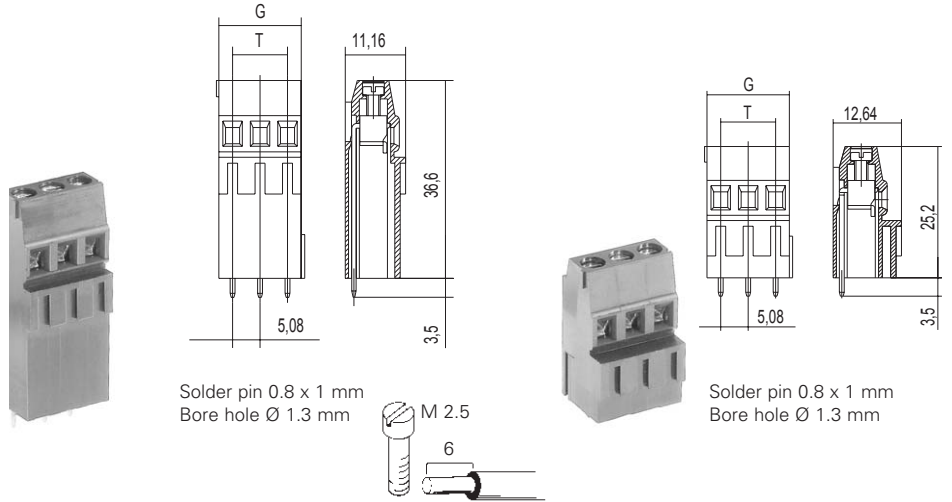
Rated cross section:
1.5 mm²

Rated current 15 A for type 8292 DH
Rated current 15 A for type 8292 EH
Rated current 15 A for type 8292 H

(related to an ambient temperature of 20 °C, the rated cross section and max. number of poles)

Connection range:
0.5 – 1.5 mm² solid/fine stranded

250 V/4 kV/3 – Overvoltage category III
250 V/4 kV/2 – Overvoltage category II
500 V/4 kV/1 – Overvoltage category I



Solder pin 0.8 x 1 mm
Bore hole Ø 1.3 mm

Solder pin 0.8 x 1 mm
Bore hole Ø 1.3 mm

Type 8292 DH

Type 8292 EH

Rated voltages VDE 0110

UL ratings field wiring

CSA ratings

Approvals

No. 24 – 14 AWG

300 V 10 A

No. 24 – 14 AWG

300 V 10 A



No. 24 – 14 AWG

300 V 10 A

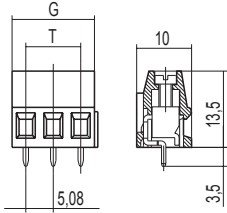
No. 24 – 14 AWG

300 V 10 A

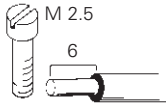


Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.08 mm				unmarked		unmarked	
100	10.16	5.08	2	27.000.4253.0		27.000.2253.0	
100	15.24	10.16	3	27.000.4353.0		27.000.2353.0	
				Customers are advised to ensure support for the 8292 DH		Customers are advised to ensure support for the 8292 EH	

wiecon



Solder pin 0.8 x 1 mm
Bore hole Ø 1.3 mm



Type 8292 H

No. 24 – 14 AWG
No. 24 – 14 AWG

300 V 10 A
300 V 10 A



Part no.	Part no.
unmarked	
27.000.0253.0	
27.000.0353.0	



PC board connectors, rising cable clamp system

Spacing: 5.00/5.08 mm

wiecon PCB

Rated cross section:
2.5 mm²

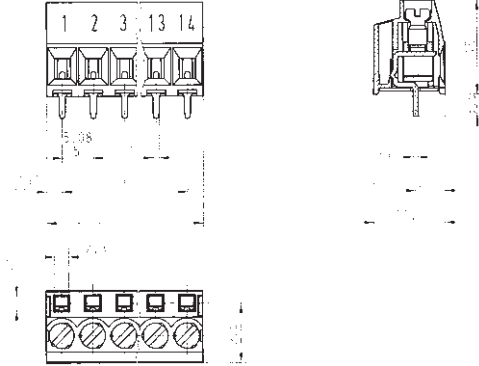
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

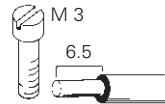
250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals



Material:
Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: nickel-plated brass
Contact clip with solder pin:
tin-plated E copper
Clamping screw: zinc-plated steel



Solder pin 1 x 0.8 mm
Bore hole Ø 1.3 mm

Upon request also with Philips screw

Type 81 – 8291 R
wire horizontal to PC board
(with integrated test point)

No. 22 – 12 AWG
No. 22 – 12 AWG

300 V 20/30 A
300 V 25 A



Std. pack	G	T	Poles	Part no.	Part no.
Spacing: 5.00 mm				unmarked with insulating plate	marked with insulating plate
Type 8191 R					
500	10.85	5	2	25.155.0253.0	25.155.2253.0
500	15.85	10	3	25.155.0353.0	25.155.2353.0
250	20.85	15	4	25.155.0453.0	25.155.2453.0
250	25.85	20	5	25.155.0553.0	25.155.2553.0
200	30.85	25	6	25.155.0653.0	25.155.2653.0
200	35.85	30	7	25.155.0753.0	25.155.2753.0
100	40.85	35	8	25.155.0853.0	25.155.2853.0
100	45.85	40	9	25.155.0953.0	25.155.2953.0
100	50.85	45	10	25.155.1053.0	25.155.3053.0
50	55.85	50	11	25.155.1153.0	25.155.3153.0
50	60.85	55	12	25.155.1253.0	25.155.3253.0
50	66.85	60	13	25.155.1353.0	25.155.3353.0
50	70.85	65	14	25.155.1453.0	25.155.3453.0
Spacing: 5.08 mm				unmarked with insulating plate	marked with insulating plate
Type 8291 R					
500	11.01	5.08	2	25.156.0253.0	25.156.2253.0
500	16.09	10.16	3	25.156.0353.0	25.156.2353.0
250	21.17	15.24	4	25.156.0453.0	25.156.2453.0
250	26.25	20.32	5	25.156.0553.0	25.156.2553.0
200	31.33	25.40	6	25.156.0653.0	25.156.2653.0
200	36.41	30.48	7	25.156.0753.0	25.156.2753.0
100	41.49	35.56	8	25.156.0853.0	25.156.2853.0
100	46.57	40.64	9	25.156.0953.0	25.156.2953.0
100	51.56	45.72	10	25.156.1053.0	25.156.3053.0
50	56.73	50.80	11	25.156.1153.0	25.156.3153.0
50	61.81	55.88	12	25.156.1253.0	25.156.3253.0
50	66.89	60.96	13	25.156.1353.0	25.156.3353.0
50	71.97	66.04	14	25.156.1453.0	25.156.3453.0

PC board connectors, rising cage clamp system

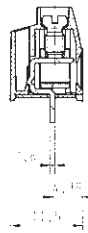
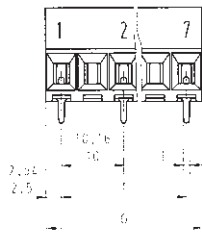
Spacing: 10.00/10.16 mm

Rated cross section:
2.5 mm²

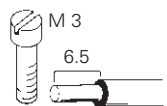
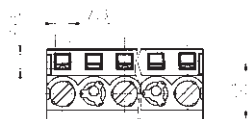
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

690 V/8 kV/3 – Overvoltage category III
1000 V/8 kV/2 – Overvoltage category II
1000 V/8 kV/1 – Overvoltage category I



Material:
Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: nickel-plated brass
Contact clip with solder pin:
tin-plated E copper
Clamping screw: zinc-plated steel



Solder pin 1 x 0.8 mm
Bore hole Ø 1.3 mm

Upon request also with Philips screw

Type 81 – 8291 R

wire horizontal to PC board
(with integrated test point, every second pole fitted)

No. 22 – 12 AWG 600 V 20/30 A
No. 22 – 12 AWG 600 V 25 A



Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

Std. pack	G	T	Poles	Part no.	Part no.
Spacing: 10.00 mm Type 8191 R				unmarked with insulating plate	marked with insulating plate
500	15	10	2	25.157.0253.0	25.157.1253.0
250	25	20	3	25.157.0353.0	25.157.1353.0
200	35	30	4	25.157.0453.0	25.157.1453.0
100	45	40	5	25.157.0553.0	25.157.1553.0
50	55	50	6	25.157.0653.0	25.157.1653.0
50	65	60	7	25.157.0753.0	25.157.1753.0
Spacing: 10.16 mm Type 8291 R				unmarked with insulating plate	marked with insulating plate
500	15.24	10.16	2	25.157.4253.0	25.157.5253.0
250	25.40	20.32	3	25.157.4353.0	25.157.5353.0
200	35.56	30.48	4	25.157.4453.0	25.157.5453.0
100	45.72	40.64	5	25.157.4553.0	25.157.5553.0
50	55.88	50.80	6	25.157.4653.0	25.157.5653.0
50	66.04	60.96	7	25.157.4753.0	25.157.5753.0

PC board connectors, rising cage clamps system

Spacing: 5.00/5.08/10.00 mm

wiecon PCB

Rated cross section:
2.5 mm²

Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

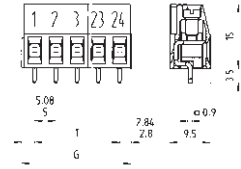
Rated voltages:
Spacing: 5.00/5.08 mm VDE 0110
250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

Rated voltages:
Spacing: 10.00 mm VDE 0110
690 V/8 kV/3 – Overvoltage category III
1000 V/8 kV/2 – Overvoltage category II
1000 V/8 kV/1 – Overvoltage category I

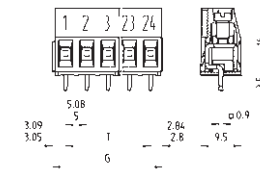
* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

Rated voltages VDE 0110
UL ratings field/factory wiring
CSA ratings
Approvals

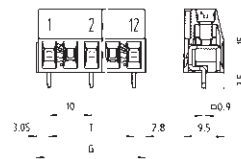
Spacing: 5.00/5.08 mm, without insulating plate



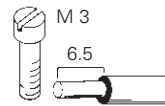
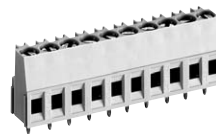
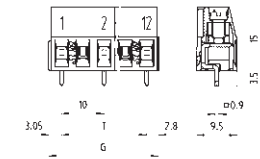
with insulating plate, without fixing bolts



Spacing: 10.00 mm, without insulating plate



with insulating plate, without fixing bolts



Solder pin 0.9 x 0.9 mm
Bore hole Ø 1.3 mm

Type 8191/8291
wire horizontal to PC board
(with exposed test point)

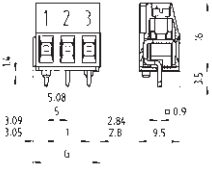
No. 22 – 12 AWG 300 V 20/30 A
No. 22 – 12 AWG 300 V 25 A



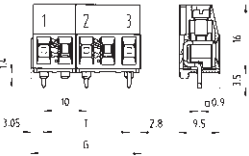
Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
Spacing: 5.00 mm							
100	10.85	5	2	25.161.0253.0	25.160.0253.0	25.171.0253.0	25.170.0253.0
100	15.85	10	3	25.161.0353.0	25.160.0353.0	25.171.0353.0	25.170.0353.0
50	20.85	15	4	25.161.0453.0	25.160.0453.0		
50	25.85	20	5	25.161.0553.0	25.160.0553.0		
50	30.85	25	6	25.161.0653.0	25.160.0653.0		
50	35.85	30	7	25.161.0753.0	25.160.0753.0		
50	40.85	35	8	25.161.0853.0	25.160.0853.0		
50	45.85	40	9	25.161.0953.0	25.160.0953.0		
50	50.85	45	10	25.161.1053.0	25.160.1053.0		
50	55.85	50	11	25.161.1153.0	25.160.1153.0		
50	60.85	55	12	25.161.1253.0	25.160.1253.0		
50	65.85	60	13	25.161.1353.0	25.160.1353.0		
50	70.85	65	14	25.161.1453.0	25.160.1453.0		
50	75.85	70	15	25.161.1553.0	25.160.1553.0		
50	80.85	75	16	25.161.1653.0	25.160.1653.0		
17 to 24pole upon request							
Spacing: 5.08 mm							
100	11.01	5.08	2	25.163.0253.0		25.173.0253.0	25.172.0253.0
100	16.09	10.16	3	25.163.0353.0		25.173.0353.0	25.172.0353.0
50	21.17	15.24	4	25.163.0453.0			
50	26.25	20.32	5	25.163.0553.0			
50	31.33	25.40	6	25.163.0653.0			
50	36.41	30.48	7	25.163.0753.0			
50	41.49	35.56	8	25.163.0853.0			
50	46.57	40.64	9	25.163.0953.0			
50	51.65	45.72	10	25.163.1053.0			
50	56.73	50.80	11	25.163.1153.0			
50	61.81	55.88	12	25.163.1253.0			
50	66.89	60.96	13	25.163.1353.0			
50	71.97	66.04	14	25.163.1453.0			
50	77.05	71.12	15	25.163.1553.0			
50	82.13	76.20	16	25.163.1653.0			
17 to 24pole upon request							
Spacing: 10.00 mm							
100	15.85	10	2	25.169.0253.0	25.168.0253.0	25.169.6253.0	25.168.6253.0
4 to 12pole upon requ.	50	25.85	20	25.169.0353.0	25.168.0353.0	25.169.6353.0	25.168.6353.0

wiecon

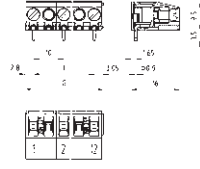
with insulating plate with fixing bolts



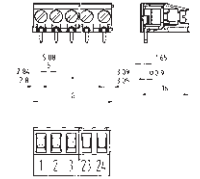
with insulating plate with fixing bolts



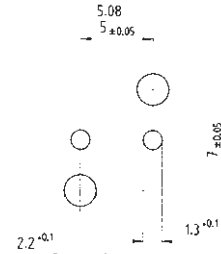
with insulating plate horizontal 5.00/5.08 mm



with insulating plate horizontal 10.00 mm

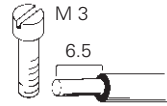
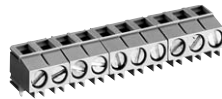


Bore hole plan for version with fixing bolts, spacing: 5.00/5.08 mm



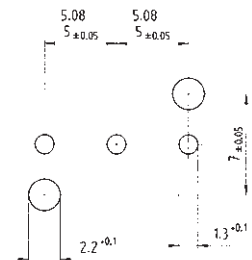
Solder pin 0.9 x 0.9 mm
Bore hole Ø 1.3 mm

Material:
Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: nickel-plated brass
Contact clip with solder pin:
tin-plated E copper
Clamping screw: zinc-plated steel
Brass Nickel-plated
available upon request

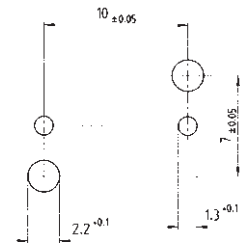
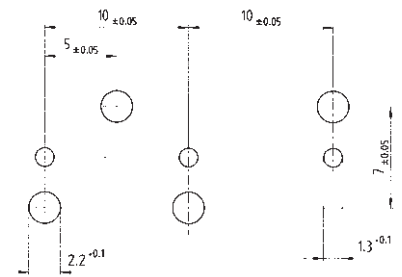


Type 8191 ZW/8291 ZW
wire vertical to PC board

No. 22 – 12 AWG 300 V 20/30 A
No. 22 – 12 AWG 300 V 25 A



Bore hole plan for version with fixing bolts, spacing: 10.00 mm



Part no.	Part no.	Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts	unmarked with insulating plate horizontal	marked with insulating plate horizontal
upon request	upon request	25.161.6253.0 25.161.6353.0 25.161.6453.0	25.160.6253.0 25.160.6353.0 25.160.6453.0
		25.161.6553.0 25.161.6653.0 25.161.6753.0	25.160.6553.0 25.160.6653.0 25.160.6753.0
		25.161.6853.0 25.161.6953.0 25.161.7053.0	25.160.6853.0 25.160.6953.0 25.160.7053.0
		25.161.7153.0 25.161.7253.0 25.161.7353.0	25.160.7153.0 25.160.7253.0 25.160.7353.0
		25.161.7453.0 25.161.7553.0 25.161.7653.0	25.160.7453.0 25.160.7553.0 25.160.7653.0
upon request	upon request	25.163.6253.0 25.163.6353.0 25.163.6453.0	25.162.6253.0 25.162.6353.0 25.162.6453.0
		25.163.6553.0 25.163.6653.0 25.163.6753.0	25.162.6553.0 25.162.6653.0 25.162.6753.0
		25.163.6853.0 25.163.6953.0 25.163.7053.0	25.162.6853.0 25.162.6953.0 25.162.7053.0
		25.163.7153.0 25.163.7253.0 25.163.7353.0	25.162.7153.0 25.162.7253.0 25.162.7353.0
		25.163.7453.0 25.163.7553.0 25.163.7653.0	25.162.7453.0 25.162.7553.0 25.162.7653.0
25.169.2253.0 25.169.2353.0	25.168.2253.0 25.168.2353.0	25.169.4253.0 25.169.4353.0	25.168.4253.0 25.168.4353.0

PC board connectors, rising cable clamp system

Spacing: 7.50/7.62 mm

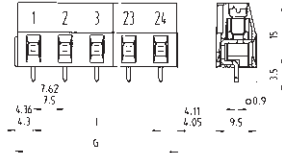
wiecon PCB

Rated cross section:
2.5 mm²

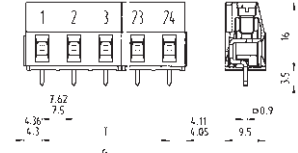
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

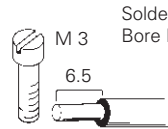
without insulating plate



with insulating plate, without fixing bolts



400 V/6 kV/3 – Overvoltage category III
1000 V/6 kV/2 – Overvoltage category II
1000 V/6 kV/1 – Overvoltage category I



Solder pin 0.9 x 0.9 mm
Bore hole Ø 1.3 mm

Material
Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: nickel-plated brass
Contact clip with solder pin:
tin-plated E copper
Clamping screw: zinc-plated steel
Brass Nickel-plated
available upon request

Type 8391/8491

wire horizontal to PC board

No. 22 – 12 AWG 300 V 20/30 A
No. 22 – 12 AWG 300 V 25 A

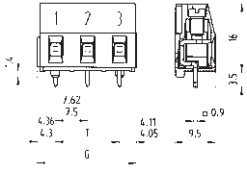


Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

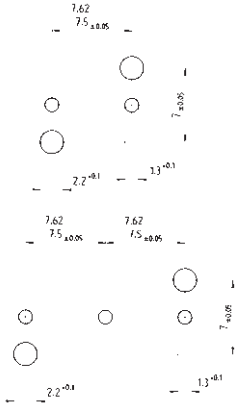
Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 7.50 mm				unmarked without insulating plate	unmarked with insulating plate without fixing bolts	unmarked with insulating plate with fixing bolts	marked without insulating plate
100	15.85	7.5	2	25.165.0253.0	25.165.3253.0	25.175.0253.0	25.164.0253.0
100	23.35	15.0	3	25.165.0353.0	25.165.3353.0	25.175.0353.0	25.164.0353.0
4 to 24pole upon request							
Spacing: 7.62 mm				unmarked without insulating plate	unmarked with insulating plate without fixing bolts	unmarked with insulating plate with fixing bolts	marked without insulating plate
100	16.09	7.62	2	25.167.0253.0	25.167.3253.0	25.177.0253.0	25.166.0253.0
100	23.71	15.24	3	25.167.0353.0	25.167.3353.0	25.177.0353.0	25.166.0353.0
4 to 24pole upon request							

wiecon

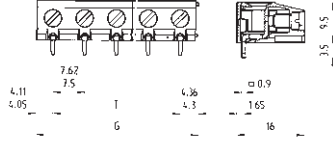
with insulating plate with fixing bolts



Bore hole plan for version with fixing bolts



with insulating plate horizontal



Solder pin 0.9 x 0.9 mm
Bore hole Ø 1.3 mm



Type 8391 ZW/8491 ZW

wire vertical to PC board

No. 22 – 12 AWG

300 V 20/30 A

No. 22 – 12 AWG

300 V 25 A



Part no.	Part no.	Part no.	Part no.
marked with insulating plate without fixing bolts	marked with insulating plate with fixing bolts	unmarked with insulating plate horizontal	marked with insulating plate horizontal
25.164.3253.0 25.164.3353.0	25.174.0253.0 25.174.0353.0	25.165.6253.0 25.165.6353.0	25.164.6253.0 25.164.6353.0
marked with insulating plate without fixing bolts	marked with insulating plate with fixing bolts	unmarked with insulating plate horizontal	marked with insulating plate horizontal
25.166.3253.0 25.166.3353.0	25.176.0253.0 25.176.0353.0	25.167.6253.0 25.167.6353.0	25.166.6253.0 25.166.6353.0

wiecon

wiecon PCB

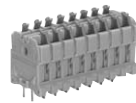
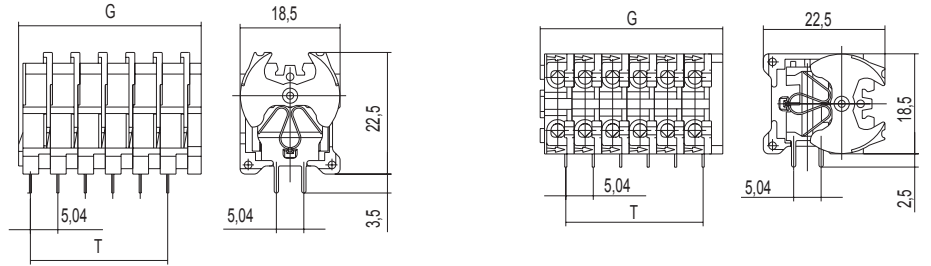
Rated cross section:
1.5 mm²

Rated current:
16 A

(related to an ambient temperature of 20 °C,
the rated cross section and max. number of poles)

Connection range:
0.50 – 2.5 mm² solid/
0.50 – 1.5 mm² fine stranded

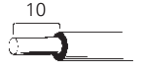
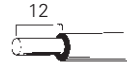
250 V/4 kV/3 – Overvoltage category III



Solder pin 0.8 x 0.4 mm
Bore hole Ø 1.3 mm



Solder pin 0.8 x 0.4 mm
Bore hole Ø 1.3 mm



Type 8152 TOP V

Type 8152 TOP H

Rated voltages VDE 0110

UL ratings

CSA ratings

Approvals

field wiring

No. 26 – 14 AWG

No. 22 – 14 AWG



300 V 10 A

300 V 10 A

No. 26 – 14 AWG

No. 22 – 14 AWG



300 V 10 A

300 V 10 A

Std. pack	G	T	Poles	Part no.	Part no.
Spacing: 5.00 mm					
100	8.34	5.04	1	27.720.0153.0	27.730.0153.0
100	13.38	10.08	2	27.720.0253.0	27.730.0253.0
100	18.42	15.12	3	27.720.0353.0	27.730.0353.0
50	23.46	20.16	4	27.720.0453.0	27.730.0453.0
50	28.50	25.20	5	27.720.0553.0	27.730.0553.0
50	33.54	30.24	6	27.720.0653.0	27.730.0653.0
50	38.58	35.28	7	27.720.0753.0	27.730.0753.0
50	43.62	40.32	8	27.720.0853.0	27.730.0853.0
50	48.66	45.30	9	27.720.0953.0	27.730.0953.0
50	53.70	50.40	10	27.720.1053.0	27.730.1053.0

PC board connectors, TOP connection

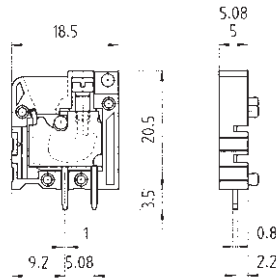
Spacing: 5.00/5.08 mm

Rated cross section:
2.5 mm²

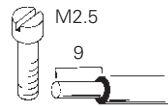
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Material
Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: zinc-plated steel
Contact clip with solder pin:
tin-plated E copper
Clamping piece: zinc-plated steel
Clamping screw: zinc-plated steel



Solder pin 0.8 x 1.0 mm
Bore hole Ø 1.3 mm

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

field/factory wiring

Type 8185 TOP V

wire vertical to PC board
No. 22/30 – 12 AWG
No. 22 – 12 AWG

300 V 20/25 A
300 V 20 A



Type 8285 TOP V

No. 22/30 – 12 AWG
No. 22 – 12 AWG

300 V 20/25 A
300 V 20 A



Connector assemblies	Type	Part no.	Std. pack	Type	Part no.	Std. pack	
	Spacing: 5.00 mm			Spacing: 5.08 mm			
2-pole	8185 TOP V	25.741.0253.0	100	8285 TOP V	25.751.0253.0	100	
3-pole	8185 TOP V	25.741.0353.0	100	8285 TOP V	25.751.0353.0	100	
4-pole	8185 TOP V	25.741.0453.0	50	8285 TOP V	25.751.0453.0	50	
5-pole	8185 TOP V	25.741.0553.0	50	8285 TOP V	25.751.0553.0	50	
6-pole	8185 TOP V	25.741.0653.0	50	8285 TOP V	25.751.0653.0	50	
7-pole	8185 TOP V	25.741.0753.0	50	8285 TOP V	25.751.0753.0	50	
8-pole	8185 TOP V	25.741.0853.0	50	8285 TOP V	25.751.0853.0	50	
9-pole	8185 TOP V	25.741.0953.0	50	8285 TOP V	25.751.0953.0	50	
10-pole	8185 TOP V	25.741.1053.0	50	8285 TOP V	25.751.1053.0	50	
11-pole	8185 TOP V	25.741.1153.0	50	8285 TOP V	25.751.1153.0	50	
12-pole	8185 TOP V	25.741.1253.0	50	8285 TOP V	25.751.1253.0	50	
13-pole	8185 TOP V	25.741.1353.0	50	8285 TOP V	25.751.1353.0	50	
14-pole	8185 TOP V	25.741.1453.0	50	8285 TOP V	25.751.1453.0	50	
15-pole	8185 TOP V	25.741.1553.0	50	8285 TOP V	25.751.1553.0	50	
16-pole	8185 TOP V	25.741.1653.0	50	8285 TOP V	25.751.1653.0	50	
Single poles, snap together							
Spacings: 5.00 and 5.08 mm	1pole	8185 TOP V	25.741.0053.0	100	8285 TOP V	25.751.0053.0	100
End plate		AP 8385 TOP N	07.300.4753.0	50	AP 8385 TOP N	07.300.4753.0	50
Marking tag carrier, snap-on	1pole		04.242.4253.0	100		04.242.4253.0	100
Marking tag carrier, snap-on, for group marking, 5.00 mm wide		BZ 8185 TOP N	04.242.5853.0	50			
Marking tag strips	unmarked	9705 A/5/10	04.242.5053.0	25			
	¹⁾ marked	9705 A/5/10 B	04.842.5053.0	25			
Tear-off marking strip	marked 1, 2, 3 ... 0	9704 A/1-0 B	04.841.2150.0	25			
Single tag	unmarked	9705 A	04.242.0800.0				
	¹⁾ marked	9705 AB	04.842.0850.0	500			
Adhesive marking tag strip	1 – 12 (100 x)		04.007.4089.0	1			
	13 – 24 (100 x)		04.007.4189.0	1			
¹⁾ Marking upon request							

PC board connector, TOP system components.com

Spacing: 5.00/5.08 mm

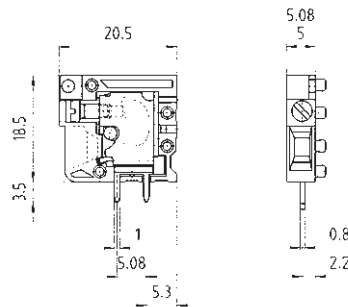
wiecon PCB

Rated cross section:
2.5 mm²

Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

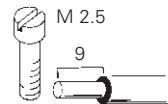
250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Material

Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: zinc-plated steel
Contact clip with solder pin:
tin-plated E copper
Clamping piece: zinc-plated steel
Clamping screw: zinc-plated steel

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV



Solder pin 0.8 x 1.0 mm
Bore hole Ø 1.3 mm

Rated voltages VDE 0110
UL ratings field/factory wiring
CSA ratings
Approvals

Type 8185 TOP H

wire horizontal to PC board

No. 22/30 – 12 AWG 300 V 20/25 A
No. 22 – 12 AWG 300 V 20 A



Type 8285 TOP H

No. 22/30 – 12 AWG 300 V 20/25 A
No. 22 – 12 AWG 300 V 20 A



Connector assemblies					Connector assemblies				
Spacing: 5.00 mm					Spacing: 5.08 mm				
Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack	
2-pole	8185 TOP H 25.741.3253.0	100	2-pole	8285 TOP H 25.751.3253.0	100	2-pole	8285 TOP H 25.751.3253.0	100	
3-pole	8185 TOP H 25.741.3353.0	100	3-pole	8285 TOP H 25.751.3353.0	100	3-pole	8285 TOP H 25.751.3353.0	100	
4-pole	8185 TOP H 25.741.3453.0	50	4-pole	8285 TOP H 25.751.3453.0	50	4-pole	8285 TOP H 25.751.3453.0	50	
5-pole	8185 TOP H 25.741.3553.0	50	5-pole	8285 TOP H 25.751.3553.0	50	5-pole	8285 TOP H 25.751.3553.0	50	
6-pole	8185 TOP H 25.741.3653.0	50	6-pole	8285 TOP H 25.751.3653.0	50	6-pole	8285 TOP H 25.751.3653.0	50	
7-pole	8185 TOP H 25.741.3753.0	50	7-pole	8285 TOP H 25.751.3753.0	50	7-pole	8285 TOP H 25.751.3753.0	50	
8-pole	8185 TOP H 25.741.3853.0	50	8-pole	8285 TOP H 25.751.3853.0	50	8-pole	8285 TOP H 25.751.3853.0	50	
9-pole	8185 TOP H 25.741.3953.0	50	9-pole	8285 TOP H 25.751.3953.0	50	9-pole	8285 TOP H 25.751.3953.0	50	
10-pole	8185 TOP H 25.741.4053.0	50	10-pole	8285 TOP H 25.751.4053.0	50	10-pole	8285 TOP H 25.751.4053.0	50	
11-pole	8185 TOP H 25.741.4153.0	50	11-pole	8285 TOP H 25.751.4153.0	50	11-pole	8285 TOP H 25.751.4153.0	50	
12-pole	8185 TOP H 25.741.4253.0	50	12-pole	8285 TOP H 25.751.4253.0	50	12-pole	8285 TOP H 25.751.4253.0	50	
13-pole	8185 TOP H 25.741.4353.0	50	13-pole	8285 TOP H 25.751.4353.0	50	13-pole	8285 TOP H 25.751.4353.0	50	
14-pole	8185 TOP H 25.741.4453.0	50	14-pole	8285 TOP H 25.751.4453.0	50	14-pole	8285 TOP H 25.751.4453.0	50	
15-pole	8185 TOP H 25.741.4553.0	50	15-pole	8285 TOP H 25.751.4553.0	50	15-pole	8285 TOP H 25.751.4553.0	50	
16-pole	8185 TOP H 25.741.4653.0	50	16-pole	8285 TOP H 25.751.4653.0	50	16-pole	8285 TOP H 25.751.4653.0	50	
Single poles, snap together					Single poles, snap together				
Spacings: 5.00 and 5.08 mm	1pole	8185 TOP H 25.741.0153.0	100	8285 TOP H 25.751.0153.0	100	8285 TOP H 25.751.0153.0	100	100	
End plate		AP 8385 TOP N 07.300.4753.0	50	AP 8385 TOP N 07.300.4753.0	50	AP 8385 TOP N 07.300.4753.0	50	50	
Marking tag carrier, snap-on	1pole	04.242.4253.0	100	04.242.4253.0	100	04.242.4253.0	100	100	
Marking tag carrier, snap-on, for group marking, 5.00 mm wide		BZ 8185 TOP N 04.242.5853.0	50						
Marking tag strip unmarked		9705 A/5/10 04.242.5053.0	25						
Marking tag strip ¹⁾ marked		9705 A/5/10 B 04.842.5053.0	25						
Tear-off marking strip marked 1, 2, 3 ... 0		9704 A/1-0 B 04.841.2150.0	25						
Single tag unmarked		9705 A 04.242.0850.0	500						
Single tag ¹⁾ marked		9705 AB 04.842.0850.0	500						
Adhesive marking tag strip 1 – 12 (100 x)		04.007.4089.0	1						
Adhesive marking tag strip 13 – 24 (100 x)		04.007.4189.0	1						
¹⁾ Marking upon request									

PC board connector, TOP connection

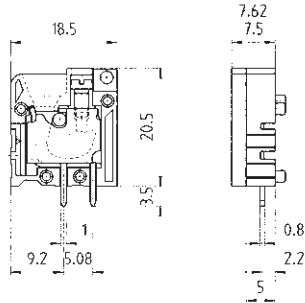
Spacing: 7.50/7.62 mm

Rated cross section:
2.5 mm²

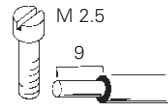
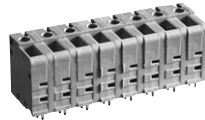
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

400 V/6 kV/3 – Overvoltage category III
1000 V/6 kV/2 – Overvoltage category II
1000 V/6 kV/1 – Overvoltage category I



Material
Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: zinc-plated steel
Contact clip with solder pin:
tin-plated E copper
Clamping piece: zinc-plated steel
Clamping screw: zinc-plated steel



Solder pin 0.8 x 1.0 mm
Bore hole Ø 1.3 mm

Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

field/factory wiring

Type 8385 TOP V

wire vertical to PC board
No. 22/30 – 12 AWG
No. 22 – 12 AWG

300 V 20/25 A
300 V 20 A



Type 8485 TOP V

No. 22/30 – 12 AWG
No. 22 – 12 AWG

300 V 20/25 A
300 V 20 A



Connector assemblies	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	Spacing: 7.50 mm			Spacing: 7.62 mm		
2-pole	8385 TOP V	25.761.0253.0	100	8485 TOP V	25.771.0253.0	100
3-pole	8385 TOP V	25.761.0353.0	100	8485 TOP V	25.771.0353.0	100
4-pole	8385 TOP V	25.761.0453.0	50	8485 TOP V	25.771.0453.0	50
5-pole	8385 TOP V	25.761.0553.0	50	8485 TOP V	25.771.0553.0	50
6-pole	8385 TOP V	25.761.0653.0	50	8485 TOP V	25.771.0653.0	50
7-pole	8385 TOP V	25.761.0753.0	50	8485 TOP V	25.771.0753.0	50
8-pole	8385 TOP V	25.761.0853.0	50	8485 TOP V	25.771.0853.0	50
Pre-assembled pole configurations upon request						
Single poles, snap together						
Spacings: 7.50 and 7.62 mm	8385 TOP V	25.761.0053.0	100	8485 TOP V	25.771.0053.0	100
End plate	AP 8385 TOP N	07.300.4753.0	50	AP 8385 TOP N	07.300.4753.0	50
Marking tag carrier, snap-on		04.242.4253.0	100		04.242.4253.0	100
Marking tag carrier, snap-on, for group marking, 5.00 mm wide	BZ 8185 TOP N	04.242.5853.0	50			
Marking tag strips	9705 A/7,5/10	04.242.7553.0	25			
	9705 A/7,5/10 B	04.842.7553.0	25			
Tear-off marking strips	9704 A/1-0 B	04.841.2150.0	25			
Single tags	9705 A	04.242.0850.0	500			
	9705 AB	04.842.0850.0	500			
¹⁾ Marking upon request						

PC board connector, TOP connection

Spacing: 7.50/7.62 mm

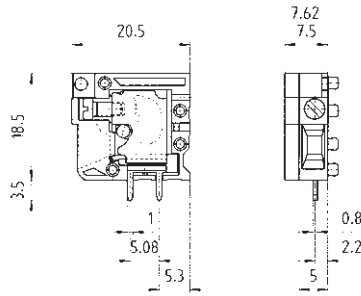
wiecon PCB

Rated cross section:
2.5 mm²

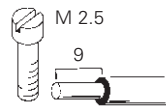
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

400 V/6 kV/3 – Overvoltage category III
1000 V/6 kV/2 – Overvoltage category II
1000 V/6 kV/1 – Overvoltage category I



Material
Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: zinc-plated steel
Contact clip with solder pin:
tin-plated E copper
Clamping piece: zinc-plated steel
Clamping screw: zinc-plated steel



Solder pin 0.8 x 1.0 mm
Bore hole Ø 1.3 mm

Rated voltages VDE 0110
UL ratings field/factory wiring
CSA ratings
Approvals

Type 8385 TOP H

wire horizontal to PC board
No. 22/30 – 12 AWG 300 V 20/25 A
No. 22 – 12 AWG 300 V 20 A



Type 8485 TOP H

No. 22/30 – 12 AWG 300 V 20/25 A
No. 22 – 12 AWG 300 V 20 A



Connector assemblies					Connector assemblies				
Spacing: 7.50 mm					Spacing: 7.62 mm				
Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack	
2pole	8385 TOP H	25.761.3253.0	100	8485 TOP H	25.771.3253.0	100	8485 TOP H	25.771.3253.0	100
3pole	8385 TOP H	25.761.3353.0	100	8485 TOP H	25.771.3353.0	100	8485 TOP H	25.771.3353.0	100
4pole	8385 TOP H	25.761.3453.0	50	8485 TOP H	25.771.3453.0	50	8485 TOP H	25.771.3453.0	50
5pole	8385 TOP H	25.761.3553.0	50	8485 TOP H	25.771.3553.0	50	8485 TOP H	25.771.3553.0	50
6pole	8385 TOP H	25.761.3653.0	50	8485 TOP H	25.771.3653.0	50	8485 TOP H	25.771.3653.0	50
7pole	8385 TOP H	25.761.3753.0	50	8485 TOP H	25.771.3753.0	50	8485 TOP H	25.771.3753.0	50
8pole	8385 TOP H	25.761.3853.0	50	8485 TOP H	25.771.3853.0	50	8485 TOP H	25.771.3853.0	50
Pre-assembled pole configurations upon request									
Single poles, snap together									
Spacings: 7.50 und 7.62 mm	1pole	8385 TOP H	25.761.0153.0	100	8485 TOP H	25.771.0153.0	100	8485 TOP H	25.771.0153.0
End plate		AP 8385 TOP N	07.300.4753.0	50	AP 8385 TOP N	07.300.4753.0	50	AP 8385 TOP N	07.300.4753.0
Marking tag carrier, snap-on	1pole		04.242.4253.0	100		04.242.4253.0	100		04.242.4253.0
Marking tag carrier, snap-on, for group marking, 5.00 mm wide		BZ 8185 TOP N	04.242.5853.0	50					
Marking tag strips	unmarked	9705 A/7,5/10	04.242.7553.0	25					
	¹⁾ marked	9705 A/7,5/10 B	04.842.7553.0	25					
Tear-off marking strip	marked 1, 2, 3 ... 0	9704 A/1-0 B	04.841.2150.0	25					
Single tags	unmarked	9705 A	04.242.0850.0	500					
	¹⁾ marked	9705 AB	04.842.0850.0	500					
¹⁾ Marking upon request									

PC board connector, spring clamp connection

Spacing: 5.00/5.08 mm

Rated cross section:
2.5 mm²

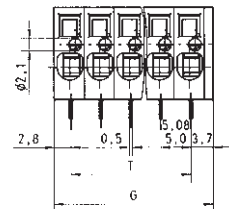
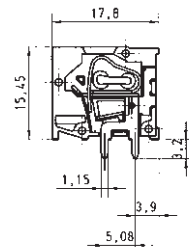
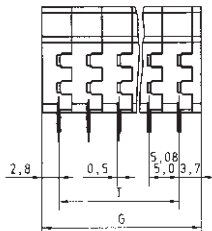
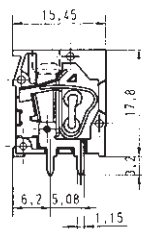
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

Material:
Insulating housing: PA 66/6 gray, UL 94-V-0
Clamping body: spring clamp
Contact clips with solder pin:
tin-plated E copper

* max. 600 V for ungrounded networks or expected
overvoltage ≤ 4 kV



Solder pin 0.5 x 1.15 mm
Bore hole Ø 1.3 mm



Solder pin 0.5 x 1.15 mm
Bore hole Ø 1.3 mm



Type 8158 TOP V
wire vertical to PC board
No. 22/30 – 12 AWG
No. 22 – 12 AWG

8258 TOP V

Type 8158 TOP H
wire horizontal to PC board
No. 22/30 – 12 AWG
No. 22 – 12 AWG

8258 TOP H

Rated voltages VDE 0110
UL ratings field/factory wiring
CSA ratings – pending
Approvals (UL + CSA pending)

Spacing: 5.00 mm		Type	Part no.	Std. pack	Type	Part no.	Std. pack
2pole	8158 TOP V	25.780.0253.0	100	8158 TOP H	25.790.0253.0	100	
	8158 TOP V	25.780.0353.0	100	8158 TOP H	25.790.0353.0	100	
	8158 TOP V	25.780.0453.0	50	8158 TOP H	25.790.0453.0	50	
3pole	8158 TOP V	25.780.0553.0	50	8158 TOP H	25.790.0553.0	50	
	8158 TOP V	25.780.0653.0	50	8158 TOP H	25.790.0653.0	50	
	8158 TOP V	25.780.0753.0	50	8158 TOP H	25.790.0753.0	50	
4pole	8158 TOP V	25.780.0853.0	50	8158 TOP H	25.790.0853.0	50	
	8158 TOP V	25.780.0953.0	50	8158 TOP H	25.790.0953.0	50	
	8158 TOP V	25.780.1053.0	50	8158 TOP H	25.790.1053.0	50	
5pole	8158 TOP V	25.780.1153.0	50	8158 TOP H	25.790.1153.0	50	
	8158 TOP V	25.780.1253.0	50	8158 TOP H	25.790.1253.0	50	
	8158 TOP V	25.780.1353.0	50	8158 TOP H	25.790.1353.0	50	
6pole	8158 TOP V	25.780.1453.0	50	8158 TOP H	25.790.1453.0	50	
	8158 TOP V	25.780.1553.0	50	8158 TOP H	25.790.1553.0	50	
	8158 TOP V	25.780.1653.0	50	8158 TOP H	25.790.1653.0	50	
7pole	8158 TOP V	25.781.0253.0	100	8258 TOP H	25.791.0253.0	100	
	8258 TOP V	25.781.0353.0	100	8258 TOP H	25.791.0353.0	100	
	8258 TOP V	25.781.0453.0	50	8258 TOP H	25.791.0453.0	50	
8pole	8258 TOP V	25.781.0553.0	50	8258 TOP H	25.791.0553.0	50	
	8258 TOP V	25.781.0653.0	50	8258 TOP H	25.791.0653.0	50	
	8258 TOP V	25.781.0753.0	50	8258 TOP H	25.791.0753.0	50	
9pole	8258 TOP V	25.781.0853.0	50	8258 TOP H	25.791.0853.0	50	
	8258 TOP V	25.781.0953.0	50	8258 TOP H	25.791.0953.0	50	
	8258 TOP V	25.781.1053.0	50	8258 TOP H	25.791.1053.0	50	
10pole	8258 TOP V	25.781.1153.0	50	8258 TOP H	25.791.1153.0	50	
	8258 TOP V	25.781.1253.0	50	8258 TOP H	25.791.1253.0	50	
	8258 TOP V	25.781.1353.0	50	8258 TOP H	25.791.1353.0	50	
11pole	8258 TOP V	25.781.1453.0	50	8258 TOP H	25.791.1453.0	50	
	8258 TOP V	25.781.1553.0	50	8258 TOP H	25.791.1553.0	50	
	8258 TOP V	25.781.1653.0	50	8258 TOP H	25.791.1653.0	50	
12pole	8258 TOP V	04.007.4089.0	1	Adhesive marking strips	1 – 12 (100 x)	04.007.4089.0	1
	8258 TOP V	04.007.4189.0	1	Adhesive marking strips	13 – 24 (100 x)	04.007.4189.0	1
	8258 TOP V	Z5.553.2921.0	10	Test plug		Z5.553.2921.0	10

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PC board connectors, spring clamp connection

Spacing: 7.50/7.62 mm

wiecon PCB

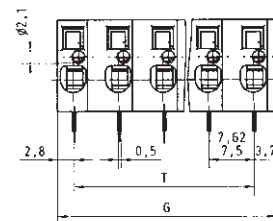
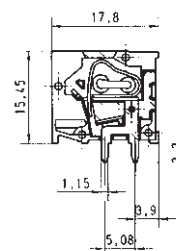
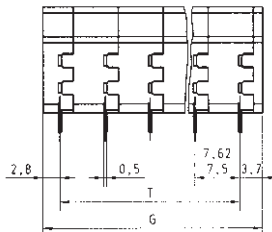
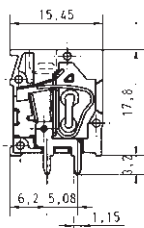
Rated cross section:
2.5 mm²

Rated current:
16 A

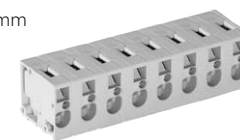
Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

400 V/6 kV/3 – Overvoltage category III
1000 V/6 kV/2 – Overvoltage category II
1000 V/6 kV/1 – Overvoltage category I

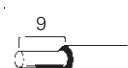
Material:
Insulating housings: PA 66/6 gray, UL 94-V-0
Clamping body: spring clamp
Contact clip with solder pin:
tin-plated E copper



Solder pin 0.5 x 1.15 mm
Bore hole Ø 1.3 mm



Solder pin 0.5 x 1.15 mm
Bore hole Ø 1.3 mm



Type 8358 TOP V
wire vertical to PC board
No. 22/30 – 12 AWG
No. 22 – 12 AWG

8458 TOP V

Type 8358 TOP H
wire horizontal to PC board
No. 22/30 – 12 AWG
No. 22 – 12 AWG

8458 TOP H

Rated voltages VDE 0110

UL ratings field/factory wiring

CSA ratings

Approvals (UL + CSA pending)

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Spacing: 7.50 mm						
2pole	8358 TOP V	25.782.0253.0	100	8358 TOP H	25.792.0253.0	100
3pole	8358 TOP V	25.782.0353.0	100	8358 TOP H	25.792.0353.0	100
4pole	8358 TOP V	25.782.0453.0	50	8358 TOP H	25.792.0453.0	50
5pole	8358 TOP V	25.782.0553.0	50	8358 TOP H	25.792.0553.0	50
6pole	8358 TOP V	25.782.0653.0	50	8358 TOP H	25.792.0653.0	50
7pole	8358 TOP V	25.782.0753.0	50	8358 TOP H	25.792.0753.0	50
8pole	8358 TOP V	25.782.0853.0	50	8358 TOP H	25.792.0853.0	50
9pole	8358 TOP V	25.782.0953.0	50	8358 TOP H	25.792.0953.0	50
10pole	8358 TOP V	25.782.1053.0	50	8358 TOP H	25.792.1053.0	50
11pole	8358 TOP V	25.782.1153.0	50	8358 TOP H	25.792.1153.0	50
12pole	8358 TOP V	25.782.1253.0	50	8358 TOP H	25.792.1253.0	50
13pole	8358 TOP V	25.782.1353.0	50	8358 TOP H	25.792.1353.0	50
14pole	8358 TOP V	25.782.1453.0	50	8358 TOP H	25.792.1453.0	50
15pole	8358 TOP V	25.782.1553.0	50	8358 TOP H	25.792.1553.0	50
16pole	8358 TOP V	25.782.1653.0	50	8358 TOP H	25.792.1653.0	50
further number of poles upon request						
Spacing: 7.62 mm						
2pole	8458 TOP V	25.783.0253.0	100	8458 TOP H	25.793.0253.0	100
3pole	8458 TOP V	25.783.0353.0	100	8458 TOP H	25.793.0353.0	100
4pole	8458 TOP V	25.783.0453.0	50	8458 TOP H	25.793.0453.0	50
5pole	8458 TOP V	25.783.0553.0	50	8458 TOP H	25.793.0553.0	50
6pole	8458 TOP V	25.783.0653.0	50	8458 TOP H	25.793.0653.0	50
7pole	8458 TOP V	25.783.0753.0	50	8458 TOP H	25.793.0753.0	50
8pole	8458 TOP V	25.783.0853.0	50	8458 TOP H	25.793.0853.0	50
9pole	8458 TOP V	25.783.0953.0	50	8458 TOP H	25.793.0953.0	50
10pole	8458 TOP V	25.783.1053.0	50	8458 TOP H	25.793.1053.0	50
11pole	8458 TOP V	25.783.1153.0	50	8458 TOP H	25.793.1153.0	50
12pole	8458 TOP V	25.783.1253.0	50	8458 TOP H	25.793.1253.0	50
13pole	8458 TOP V	25.783.1353.0	50	8458 TOP H	25.793.1353.0	50
14pole	8458 TOP V	25.783.1453.0	50	8458 TOP H	25.793.1453.0	50
15pole	8458 TOP V	25.783.1553.0	50	8458 TOP H	25.793.1553.0	50
16pole	8458 TOP V	25.783.1653.0	50	8458 TOP H	25.793.1653.0	50
further number of poles upon request						
Accessories						
Marking upon request						
Test plug		Z5.553.2921.0	10		Z5.553.2921.0	10

Spacing: 6.35 mm

wiecon

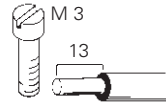
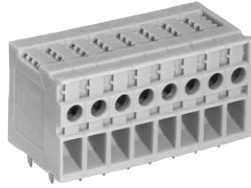
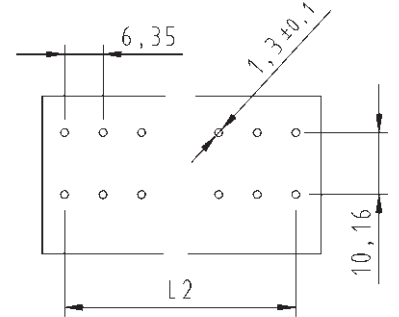
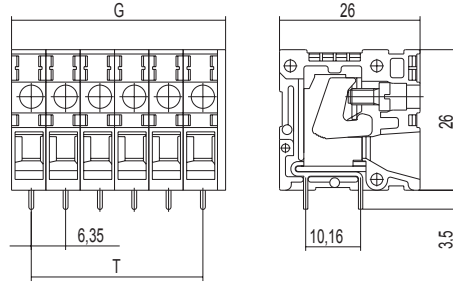
Rated cross section:
4.0 mm²

Rated current:
36 A

(related to an ambient temperature of 20 °C,
the rated cross section and max. number of poles)

Connection range:
0.5 – 6.0 mm² solid/
0.5 – 4.0 mm² fine stranded

320 V/4 kV/3 – Overvoltage category III
320 V/4 kV/2 – Overvoltage category II
320 V/4 kV/1 – Overvoltage category I



Solder pin Ø 0.8 x 0.9 mm
Bore hole Ø 1.3 mm

Type 7386 TOP H

Rated voltages VDE 0110

UL ratings field/factory wiring

CSA ratings

Approvals

No. 22 – 10 AWG
No. 22 – 10 AWG

300 V 30 A
300 V 30 A

Std. pack	G	T	Poles	Part no.
Spacing: 6.35 mm				
50	14.20	6.35	2	27.714.0253.0
50	20.55	12.70	3	27.714.0353.0
50	26.90	19.05	4	27.714.0453.0
50	33.25	25.40	5	27.714.0553.0
50	39.60	31.75	6	27.714.0653.0
50	45.95	38.10	7	27.714.0753.0
50	52.30	44.45	8	27.714.0853.0

wiecon PCB

Rated cross section:
4.0 mm²

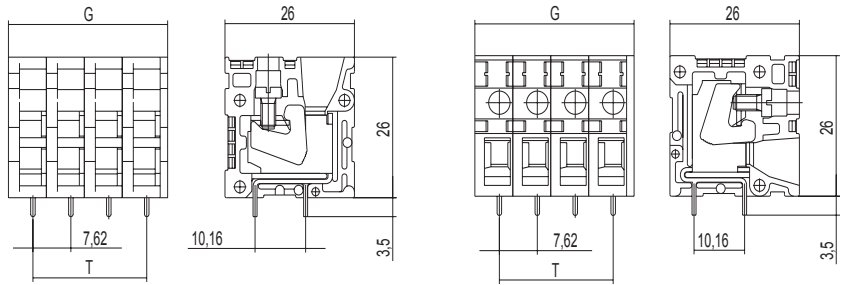
Rated current:
36 A

(related to an ambient temperature of 20°C,
the rated cross section and max. number of poles)

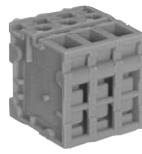
Connection range:

0.5 – 6.0 mm² solid/

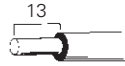
0.5 – 4.0 mm² fine stranded



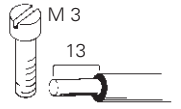
500 V/4 kV/3 – Overvoltage category III
630 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Solder pin 0.8 x 0.9 mm
Bore hole Ø 1.3 mm



Solder pin 0.8 x 0.9 mm
Bore hole Ø 1.3 mm



8486 TOP V

8486 TOP H

Rated voltages VDE 0110

UL ratings

CSA ratings

Approvals

field wiring

No. 22 – 10 AWG

No. 22 – 10 AWG



300 V 30 A

300 V 30 A

No. 22 – 10 AWG

No. 22 – 10 AWG

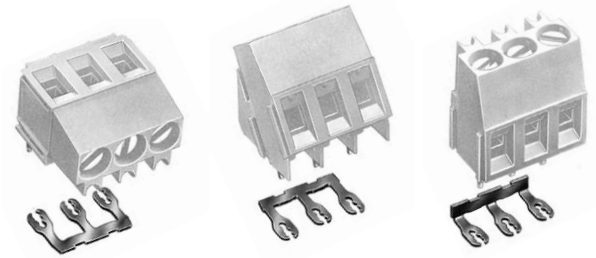


300 V 30 A

300 V 30 A

Std. pack	G	T	Poles	Part no.	Part no.
Spacing: 7.62 mm				unmarked	unmarked
50	16.74	7.62	2	27.703.0253.0	27.713.0253.0
50	24.36	15.24	3	27.703.0353.0	27.713.0353.0
50	31.98	22.86	4	27.703.0453.0	27.713.0453.0

Test plug and marking tag carrier for 8191 E / 8191 D / 8291 E / 8291 D can only be used in the upper tier.



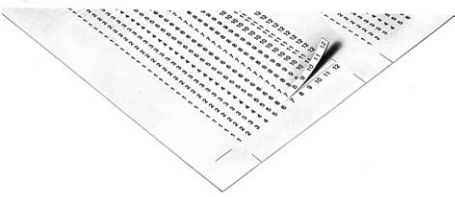
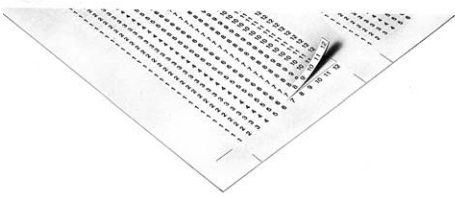
- Jumper bar 2 to 24pole for 5.00 and 5.08 mm spacing upon request
- PC board connector with assembled jumper bar upon request



**Type 8191 / 8191 E / 8191 D / 8192
Type 8291 / 8291 E / 8291 D**

Type 8391/8491

**Type 8135 / 8235
Type 8191 ZW / 8291 ZW / 8192**

Poles	Part no.	Std. pack	Poles	Part no.	Std. pack	Poles	Part no.	Std. pack
1	Test plug Z5.533.7121.0	100	1	Test Plug Z5.533.7121.0	100	1	Test plug Z5.533.7121.0	100
2	Z5.533.7221.0	100	2	Z5.533.8221.0	50	2	Z5.533.7221.0	100
1	Test plug, 1pole, 10 mm spacing Z5.533.7121.0	100				1	Test plug, 1pole, 10 mm spacing Z5.533.7121.0	100
	Marking tag carrier for 12 poles, divisible for smaller pole configurations 04.242.4653.0	50					Marking tag carrier for 12 poles, divisible for smaller pole configurations 04.242.4653.0	50
	Marking strips, unmarked 04.242.5053.0	25					Marking strips, unmarked 04.242.5053.0	25
	1 – 10, 11 – 20 etc. 991 – 999, marked 04.842.5053.0	25					1 – 10, 11 – 20 etc. 991 – 999, marked 04.842.5053.0	25
	Tear-off marking strip marked 1, 2, 3 ... 0 04.841.2150.0	25					Tear-off marking strip marked 1, 2, 3 ... 0 04.841.2150.0	25
	Single tag, unmarked 04.242.0850.0	500					Single tag, unmarked 04.242.0850.0	500
	marked 04.842.0850.0	500					marked 04.842.0850.0	500
								
	Adhesive marking strips (1 sheet = 100strips)			Adhesive marking strips (1 sheet = 100strips)				
1 – 12	04.007.4089.0	1	1 – 12	04.007.4089.0	1	1 – 12	04.007.4089.0	1
13 – 24	04.007.4189.0	1	13 – 24	04.007.4189.0	1	13 – 24	04.007.4189.0	1
25 – 36	04.007.4289.0	1	25 – 36	04.007.4289.0	1	25 – 36	04.007.4289.0	1
37 – 48	04.007.4389.0	1	37 – 48	04.007.4389.0	1	37 – 48	04.007.4389.0	1
49 – 60	04.007.4489.0	1	49 – 60	04.007.4489.0	1	49 – 60	04.007.4489.0	1
61 – 72	04.007.4589.0	1	61 – 72	04.007.4589.0	1	61 – 72	04.007.4589.0	1
73 – 84	04.007.4689.0	1	73 – 84	04.007.4689.0	1	73 – 84	04.007.4689.0	1
85 – 96	04.007.4789.0	1	85 – 96	04.007.4789.0	1	85 – 96	04.007.4789.0	1
97 – 108	04.007.4889.0	1	97 – 108	04.007.4889.0	1	97 – 108	04.007.4889.0	1

PC board connectors, rising cage clamp system

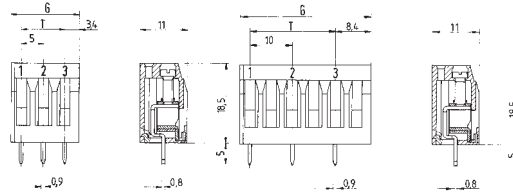
Spacing: 5.00/10.00 mm

wiecon PCB

Rated cross section:
2.5 mm²

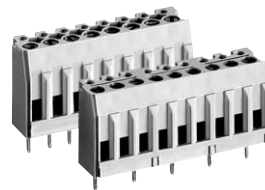
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

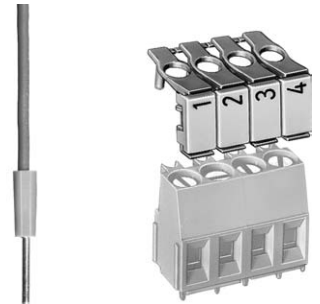
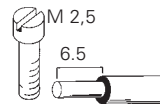


250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV



Solder pin 0.8 x 0.9 mm
Bore hole Ø 1.2 mm



Type 8190

wire horizontal to PC board

No. 22 – 12 AWG

300 V

15 A

No. 22 – 14 AWG

300 V

10 A



Accessories Type 8190

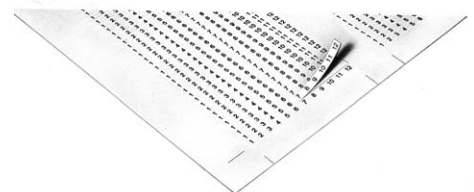
Rated voltages VDE 0110 (Spacing: 5 mm)

UL ratings

CSA ratings

Approvals

Std. pack	G	T	Poles	Part no.	Part no.	Poles	Part no.	Std. pack
Spacing: 5.00 mm								
				unmarked	marked			
100	10.86	5	2	25.131.0253.0	25.130.0253.0	1	Test plug, nominal current = 2A	
100	15.86	10	3	25.131.0353.0	25.130.0353.0	2	Z5.543.0153.0	100
50	20.86	15	4	25.131.0453.0	25.130.0453.0		Z5.543.0253.0	100
							Marking tag carrier	
50	25.86	20	5	25.131.0553.0	25.130.0553.0		for 12 poles, divisible for smaller pole configurations	
50	30.86	25	6	25.131.0653.0	25.130.0653.0		04.242.4653.0	50
50	35.86	30	7	25.131.0753.0	25.130.0753.0		Marking strips, unmarked	
							04.242.5053.0	25
50	40.86	35	8	25.131.0853.0	25.130.0853.0		1 – 10, 11 – 20 etc. 991 – 999, marked	
50	45.86	40	9	25.131.0953.0	25.130.0953.0		04.842.5053.0	25
50	50.86	45	10	25.131.1053.0	25.130.1053.0			
50	55.86	50	11	25.131.1153.0	25.130.1153.0		Tear-off marking strip	
50	60.86	55	12	25.131.1253.0	25.130.1253.0		marked 1, 2, 3 ... 0	25
50	65.86	60	13	25.131.1353.0	25.130.1353.0		04.841.2150.0	
50	70.86	65	14	25.131.1453.0	25.130.1453.0		Single tag, unmarked	
50	75.86	70	15	25.131.1553.0	25.130.1553.0		04.242.0850.0	500
50	80.86	75	16	25.131.1653.0	25.130.1653.0		marked	
							04.842.0850.0	500
17 to 24pole upon request								
Spacing: 10.00 mm								
				unmarked	marked			
50	20.86	10	2	25.133.0253.0	25.132.0253.0			
50	30.86	20	3	25.133.0353.0	25.132.0353.0			
50	40.86	30	4	25.133.0453.0	25.132.0453.0			
50	50.86	40	5	25.133.0553.0	25.132.0553.0			
50	60.86	50	6	25.133.0653.0	25.132.0653.0			
50	70.86	60	7	25.133.0753.0	25.132.0753.0			
50	80.86	70	8	25.133.0853.0	25.132.0853.0			
50	90.86	80	9	25.133.0953.0	25.132.0953.0			
50	100.86	90	10	25.133.1053.0	25.132.1053.0			
50	110.86	100	11	25.133.1153.0	25.132.1153.0			
50	120.86	110	12	25.133.1253.0	25.132.1253.0			
Rated voltages: (spacing: 10.00 mm): VDE 0110				Material: Insulating housing: PA 6/66, UL 94-V-0 Clamping body: zinc-plated steel Clamping with solder pin: Contact clip with solder pin: tin-plated E copper Clamping screw: zinc-plated steel		Adhesive marking strips (1 sheet = 100strips)		
690 V/8 kV/3 – Overvoltage category III						1 – 12	04.007.4089.0	1
1000 V/8 kV/2 – Overvoltage category II						13 – 24	04.007.4189.0	1
1000 V/8 kV/1 – Overvoltage category I						25 – 36	04.007.4289.0	1
						37 – 48	04.007.4389.0	1
						49 – 60	04.007.4489.0	1
						61 – 72	04.007.4589.0	1
						73 – 84	04.007.4689.0	1
						85 – 96	04.007.4789.0	1
						97 – 108	04.007.4889.0	1



PC board connectors, rising cage clamp system

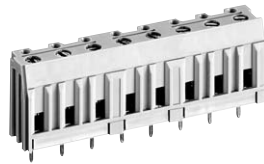
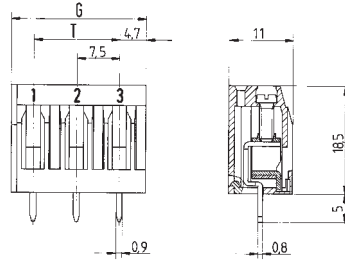
Spacing: 7.50 mm

Rated cross section:
2.5 mm²

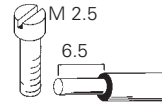
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

500 V/6 kV/3 – Overvoltage category III
1000 V/6 kV/2 – Overvoltage category II
1000 V/6 kV/1 – Overvoltage category I



Solder pin 0.8 x 0.9 mm
Bore hole Ø 1.2 mm



Type 8390

wire horizontal to PC board

Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

No. 22 – 12 AWG 300 V 15 A
No. 22 – 14 AWG 300 V 10 A



Accessories Type 8390

Std. pack	G	T	Poles	Part no.	Part no.	Poles	Part no.	Std. pack
Spacing: 7.50 mm								
				unmarked	marked			
100	15.86	7.5	2	25.151.0253.0	25.150.0253.0	1	Test plug / nominal current = 2 A	
100	23.36	15.0	3	25.151.0353.0	25.150.0353.0	2	Z5.543.0153.0	100
50	30.86	22.5	4	25.151.0453.0	25.150.0453.0		Z5.543.0253.0	100
50	38.36	30.0	5	25.151.0553.0	25.150.0553.0			
50	45.86	37.5	6	25.151.0653.0	25.150.0653.0			
50	53.36	45.0	7	25.151.0753.0	25.150.0753.0			
50	60.86	52.5	8	25.151.0853.0	25.150.0853.0			
50	68.36	60.0	9	25.151.0953.0	25.150.0953.0			
50	75.86	67.5	10	25.151.1053.0	25.150.1053.0			
50	83.36	75.0	11	25.151.1153.0	25.150.1153.0			
50	90.86	82.5	12	25.151.1253.0	25.150.1253.0			
				Material: Insulating housing: PA 6/66, UL 94-V-0 Clamping body: zinc-plated steel Contact clip with solder pin: tin-plated E copper Clamping screw: zinc-plated steel				

PC board connectors, rising cage clamp system

Spacing: 5.00/5.08 mm

wiecon PCB

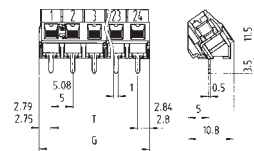
Rated cross section:
1.5 mm²

Rated current:
10 A

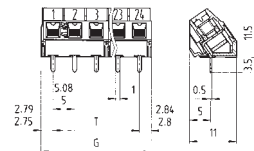
Connection range:
0.14 – 2.5 mm² solid/
0.14 – 1.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

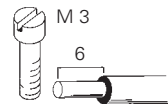
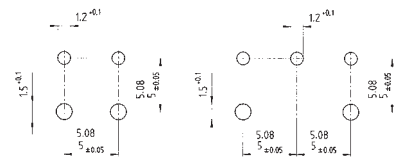
without insulating plate



with insulating plate, without fixing bolts



Bore hole plan for version with fixing bolts



Solder pin 0.5 x 1.0 mm
Bore hole Ø 1.2 mm

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

Type 8134/8234
wire 35° to PC board

Rated voltages VDE 0110

UL ratings field/factory wiring

CSA ratings

Approvals

No. 30 – 14 AWG

300 V 15/16 A

No. 30 – 14 AWG

300 V 15 A



Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with fixing bolts
Spacing: 5.00 mm							
100	10.55	5	2	25.501.0253.0	25.500.0253.0	25.501.6253.0	25.500.6253.0
100	15.55	10	3	25.501.0353.0	25.500.0353.0	25.501.6353.0	25.500.6353.0
50	20.55	15	4	25.501.0453.0	25.500.0453.0		
50	25.55	20	5	25.501.0553.0	25.500.0553.0		
50	30.55	25	6	25.501.0653.0	25.500.0653.0		
50	35.55	30	7	25.501.0753.0	25.500.0753.0		
50	40.55	35	8	25.501.0853.0	25.500.0853.0		
50	45.55	40	9	25.501.0953.0	25.500.0953.0		
50	50.55	45	10	25.501.1053.0	25.500.1053.0		
50	55.55	50	11	25.501.1153.0	25.500.1153.0		
50	60.55	55	12	25.501.1253.0	25.500.1253.0		
50	65.55	60	13	25.501.1353.0	25.500.1353.0		
50	70.55	65	14	25.501.1453.0	25.500.1453.0		
50	75.55	70	15	25.501.1553.0	25.500.1553.0		
50	80.55	75	16	25.501.1653.0	25.500.1653.0		
17 to 24pole upon request							
Spacing: 5.08 mm							
100	10.71	5.08	2	25.503.0253.0	25.502.0253.0	25.503.6253.0	25.502.6253.0
100	15.79	10.16	3	25.503.0353.0	25.502.0353.0	25.503.6353.0	25.502.6353.0
50	20.87	15.24	4	25.503.0453.0	25.502.0453.0		
50	25.95	20.32	5	25.503.0553.0	25.502.0553.0		
50	31.03	25.40	6	25.503.0653.0	25.502.0653.0		
50	36.11	30.48	7	25.503.0753.0	25.502.0753.0		
50	41.19	35.56	8	25.503.0853.0	25.502.0853.0		
50	46.27	40.64	9	25.503.0953.0	25.502.0953.0		
50	51.35	45.72	10	25.503.1053.0	25.502.1053.0		
50	56.42	50.80	11	25.503.1153.0	25.502.1153.0		
50	61.51	55.88	12	25.503.1253.0	25.502.1253.0		
50	66.59	60.96	13	25.503.1353.0	25.502.1353.0		
50	71.67	66.04	14	25.503.1453.0	25.502.1453.0		
50	76.75	71.12	15	25.503.1553.0	25.502.1553.0		
50	81.83	76.20	16	25.503.1653.0	25.502.1653.0		
17 to 24pole upon request							

wiecon

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Material:
Insulating housing: PA 66/6 gray, UL 94-V-0
Clamping body: nickel-plated brass
Contact clip with solder pin:
tin-plated bronze
Clamping screw: zinc-plated steel
Brass Nickel-plated
available upon request

Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate with fixing bolts
upon request	upon request
upon request	upon request



PC board connectors, rising cable clamp system

Spacing: 5.00/5.08 mm

wiecon PCB

Rated cross section:
2.5 mm²

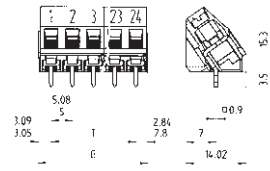
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

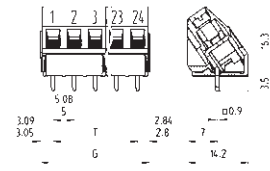
250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

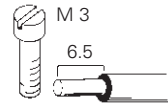
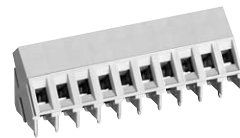
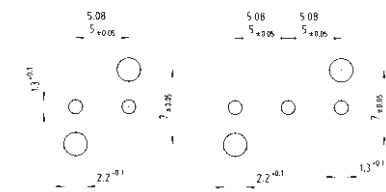
without insulating plate



with insulating plate, without fixing bolts



Bore hole plan for version with fixing bolts



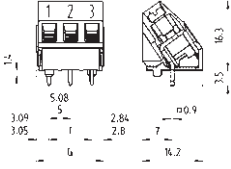
Solder pin 0.9 x 0.9 mm
Bore hole Ø 1.3 mm

Type 8135/8235
wire 35° to PC board

Rated voltages VDE 0110	field/factory wiring	No. 22 – 12 AWG	300 V	20/30 A
UL ratings		No. 22 – 12 AWG	300 V	25 A
CSA ratings				
Approvals				

Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
Spacing: 5.00 mm							
100	10.85	5	2	25.521.0253.0	25.520.0253.0	25.521.6253.0	25.520.6253.0
100	15.85	10	3	25.521.0353.0	25.520.0353.0	25.521.6353.0	25.520.6353.0
50	20.85	15	4	25.521.0453.0	25.520.0453.0		
50	25.85	20	5	25.521.0553.0	25.520.0553.0		
50	30.85	25	6	25.521.0653.0	25.520.0653.0		
50	35.85	30	7	25.521.0753.0	25.520.0753.0		
50	40.85	35	8	25.521.0853.0	25.520.0853.0		
50	45.85	40	9	25.521.0953.0	25.520.0953.0		
50	50.85	45	10	25.521.1053.0	25.520.1053.0		
50	55.85	50	11	25.521.1153.0	25.520.1153.0		
50	60.85	55	12	25.521.1253.0	25.520.1253.0		
50	65.85	60	13	25.521.1353.0	25.520.1353.0		
50	70.85	65	14	25.521.1453.0	25.520.1453.0		
50	75.85	70	15	25.521.1553.0	25.520.1553.0		
50	80.85	75	16	25.521.1653.0	25.520.1653.0		
17 to 24pole upon request							
Spacing: 5.08 mm							
100	11.01	5.08	2	25.523.0253.0	25.522.0253.0	25.523.6253.0	25.522.6253.0
100	16.09	10.16	3	25.523.0353.0	25.522.0353.0	25.523.6353.0	25.522.6353.0
50	21.17	15.24	4	25.523.0453.0	25.522.0453.0		
50	26.25	20.32	5	25.523.0553.0	25.522.0553.0		
50	31.33	25.40	6	25.523.0653.0	25.522.0653.0		
50	36.41	30.48	7	25.523.0753.0	25.522.0753.0		
50	41.49	35.56	8	25.523.0853.0	25.522.0853.0		
50	46.57	40.64	9	25.523.0953.0	25.522.0953.0		
50	51.65	45.72	10	25.523.1053.0	25.522.1053.0		
50	56.73	50.80	11	25.523.1153.0	25.522.1153.0		
50	61.81	55.88	12	25.523.1253.0	25.522.1253.0		
50	66.89	60.96	13	25.523.1353.0	25.522.1353.0		
50	71.97	66.04	14	25.523.1453.0	25.522.1453.0		
50	77.05	71.12	15	25.523.1553.0	25.522.1553.0		
50	82.13	76.20	16	25.523.1653.0	25.522.1653.0		
17 to 24pole upon request							

with insulating plate, with fixing bolts



Material:
 Insulating housing: PA 66/6 gray, UL 94-V-0
 Clamping body: nickel-plated brass
 Contact clip with solder pin:
 tin-plated E copper
 Clamping screw: zinc-plated steel
 Brass Nickel-plated
 available upon request

Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts
upon request	upon request
upon request	upon request



PC board connectors, rising cable clamp system

Spacing: 5.00/5.08 mm

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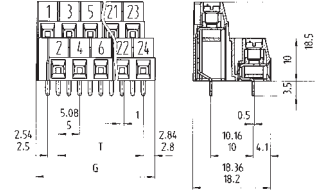
Rated cross section:
1.5 mm²

Rated current:
10 A

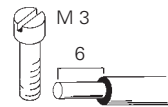
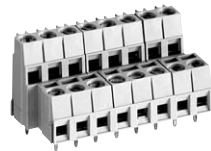
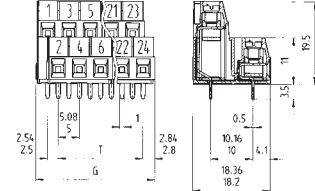
Connection range:
0.14 – 2.5 mm² solid/
0.14 – 1.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

without insulating plate



with insulating plate, without fixing bolts



Solder pin 0.5 x 1.0 mm
Bore hole Ø 1.2 mm

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

Type 8192 E/8292 E

wire horizontal to PC board

Rated voltages VDE 0110

UL ratings field/factory wiring

CSA ratings

Approvals

No. 30 – 14 AWG

300 V 15/16 A

No. 30 – 14 AWG

300 V 15 A



Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
Spacing: 5.00 mm							
50	13.05	5	4	25.198.5253.0	25.198.0253.0	25.198.9253.0	25.198.4253.0
50	18.05	10	6	25.198.5353.0	25.198.0353.0	25.198.9353.0	25.198.4353.0
50	23.05	15	8	25.198.5453.0	25.198.0453.0		
50	28.05	20	10	25.198.5553.0	25.198.0553.0		
50	33.05	25	12	25.198.5653.0	25.198.0653.0		
50	38.05	30	14	25.198.5753.0	25.198.0753.0		
50	43.05	35	16	25.198.5853.0	25.198.0853.0		
50	48.05	40	18	25.198.5953.0	25.198.0953.0		
50	53.05	45	20	25.198.6053.0	25.198.1053.0		
50	58.05	50	22	25.198.6153.0	25.198.1153.0		
50	63.05	55	24	25.198.6253.0	25.198.1253.0		
Spacing: 5.08 mm							
50	13.25	5.08	4	25.199.5253.0	25.199.0253.0	25.199.9253.0	25.199.4253.0
50	18.33	10.16	6	25.199.5353.0	25.199.0353.0	25.199.9353.0	25.199.4353.0
50	23.41	15.24	8	25.199.5453.0	25.199.0453.0		
50	28.49	20.32	10	25.199.5553.0	25.199.0553.0		
50	33.57	25.40	12	25.199.5653.0	25.199.0653.0		
50	38.65	30.48	14	25.199.5753.0	25.199.0753.0		
50	43.73	35.56	16	25.199.5853.0	25.199.0853.0		
50	48.81	40.64	18	25.199.5953.0	25.199.0953.0		
50	53.89	45.72	20	25.199.6053.0	25.199.1053.0		
50	58.97	50.80	22	25.199.6153.0	25.199.1153.0		
50	64.05	55.88	24	25.199.6253.0	25.199.1253.0		

Tear-off marking strip with 10 marking tags

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Material: Polyamide 6/66 white/markings black	Marking per tree	Type	Part no.	Std. pack
unmarked		9704 A	04.241.1150.0	25
marked with the same number	1 1 1 1 1 1 1 1 1 1	9704 A/1 B	04.841.1150.0	25
	2 2 2 2 2 2 2 2 2 2	9704 A/2 B	04.841.1250.0	25
	3 3 3 3 3 3 3 3 3 3	9704 A/3 B	04.841.1350.0	25
	4 4 4 4 4 4 4 4 4 4	9704 A/4 B	04.841.1450.0	25
	5 5 5 5 5 5 5 5 5 5	9704 A/5 B	04.841.1550.0	25
	6 6 6 6 6 6 6 6 6 6	9704 A/6 B	04.841.1650.0	25
	7 7 7 7 7 7 7 7 7 7	9704 A/7 B	04.841.1750.0	25
	8 8 8 8 8 8 8 8 8 8	9704 A/8 B	04.841.1850.0	25
	9 9 9 9 9 9 9 9 9 9	9704 A/9 B	04.841.1950.0	25
	0 0 0 0 0 0 0 0 0 0	9704 A/0 B	04.841.2050.0	25
	marked with consecutive numbers	1 2 3 4 5 6 7 8 9 0	9704 A/1-0 B	04.841.2150.0	25
marked with the same capital letters	A A A A A A A A A A	9704 A/AG B	04.841.2250.0	25
	B B B B B B B B B B	9704 A/BG B	04.841.2350.0	25
	C C C C C C C C C C	9704 A/CG B	04.841.2450.0	25
	D D D D D D D D D D	9704 A/DG B	04.841.2550.0	25
	E E E E E E E E E E	9704 A/EG B	04.841.2650.0	25
	F F F F F F F F F F	9704 A/FG B	04.841.2750.0	25
	G G G G G G G G G G	9704 A/GG B	04.841.2850.0	25
	H H H H H H H H H H	9704 A/HG B	04.841.2950.0	25
	I I I I I I I I I I	9704 A/IG B	04.841.3050.0	25
	J J J J J J J J J J	9704 A/JG B	04.841.3150.0	25
	K K K K K K K K K K	9704 A/KG B	04.841.3250.0	25
	L L L L L L L L L L	9704 A/LG B	04.841.3350.0	25
	M M M M M M M M M M	9704 A/MG B	04.841.3450.0	25
	N N N N N N N N N N	9704 A/NG B	04.841.3550.0	25
	O O O O O O O O O O	9704 A/OG B	04.841.3650.0	25
	P P P P P P P P P P	9704 A/PG B	04.841.3750.0	25
	Q Q Q Q Q Q Q Q Q Q	9704 A/QG B	04.841.3850.0	25
	R R R R R R R R R R	9704 A/RG B	04.841.3950.0	25
	S S S S S S S S S S	9704 A/SG B	04.841.4050.0	25
	T T T T T T T T T T	9704 A/TG B	04.841.4150.0	25
	U U U U U U U U U U	9704 A/UG B	04.841.4250.0	25
	V V V V V V V V V V	9704 A/VG B	04.841.4350.0	25
	W W W W W W W W W W	9704 A/WG B	04.841.4450.0	25
	X X X X X X X X X X	9704 A/XG B	04.841.4550.0	25
	Y Y Y Y Y Y Y Y Y Y	9704 A/YG B	04.841.4650.0	25
	Z Z Z Z Z Z Z Z Z Z	9704 A/ZG B	04.841.4750.0	25
marked with the same lower case letters	a a a a a a a a a a	9704 A/AK B	04.841.4850.0	25
	b b b b b b b b b b	9704 A/BK B	04.841.4950.0	25
	c c c c c c c c c c	9704 A/CK B	04.841.5050.0	25
	d d d d d d d d d d	9704 A/DK B	04.841.5150.0	25
	e e e e e e e e e e	9704 A/EK B	04.841.5250.0	25
	f f f f f f f f f f	9704 A/FK B	04.841.5350.0	25
	g g g g g g g g g g	9704 A/GK B	04.841.5450.0	25
	h h h h h h h h h h	9704 A/HK B	04.841.5550.0	25
	i i i i i i i i i i	9704 A/IK B	04.841.5650.0	25
	j j j j j j j j j j	9704 A/JK B	04.841.5750.0	25
	k k k k k k k k k k	9704 A/KK B	04.841.5850.0	25
	l l l l l l l l l l	9704 A/LK B	04.841.5950.0	25
	m m m m m m m m m m	9704 A/MK B	04.841.6050.0	25
	n n n n n n n n n n	9704 A/NK B	04.841.6150.0	25
	o o o o o o o o o o	9704 A/OK B	04.841.6250.0	25
	p p p p p p p p p p	9704 A/PK B	04.841.6350.0	25
	q q q q q q q q q q	9704 A/QK B	04.841.6450.0	25
	r r r r r r r r r r	9704 A/RK B	04.841.6550.0	25
	s s s s s s s s s s	9704 A/SK B	04.841.6650.0	25
	t t t t t t t t t t	9704 A/TK B	04.841.6750.0	25
	u u u u u u u u u u	9704 A/UK B	04.841.6850.0	25
	v v v v v v v v v v	9704 A/VK B	04.841.6950.0	25
	w w w w w w w w w w	9704 A/WK B	04.841.7050.0	25
	x x x x x x x x x x	9704 A/XK B	04.841.7150.0	25
	y y y y y y y y y y	9704 A/YK B	04.841.7250.0	25
	z z z z z z z z z z	9704 A/ZK B	04.841.7350.0	25
marked with the same symbols	+ + + + + + + + + +	9704 A/+ B	04.841.7450.0	25
	- - - - - - - - - -	9704 A/- B	04.841.7550.0	25
	/ / / / / / / / / /	9704 A// B	04.841.7650.0	25
	. . . . . . . . . .	9704 A/. B	04.841.7750.0	25
1 set of the same numbers = 10 x 25 strips = 2500 numbers	1 1 1 ... 0 0 0	111 to 000	04.841.9050.0	1
1 set of cap. letters = 26 x 25 strips = 6500 letters	A A A ... Z Z Z	A to Z GB	04.841.9150.0	1
1 set of lower case letters = 26 x 25 strips = 6500 letters	a a a ... z z z	a to z KB	04.841.9250.0	1

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PC board connectors, rising cable clamp system

Spacing: 5.00/5.08 mm

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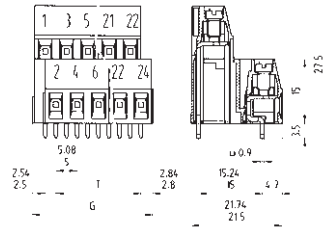
Rated cross section:
2.5 mm²

Rated current:
16 A

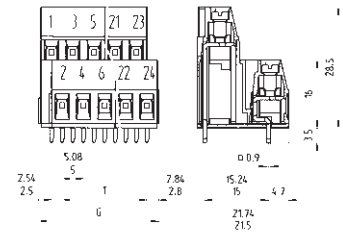
Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

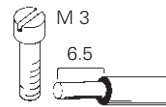
without insulating plate



with insulating plate, without fixing bolts



Solder pin 0.9 x 0.9 mm
Bore hole Ø 1.3 mm



* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

Type 8191 E/8291 E

wire horizontal to PC board

Rated voltages VDE 0110

UL ratings field/factory wiring

CSA ratings

Approvals

No. 22 – 12 AWG

300 V 20/30 A

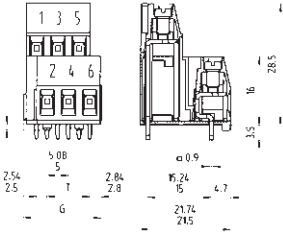
No. 22 – 12 AWG

300 V 25 A

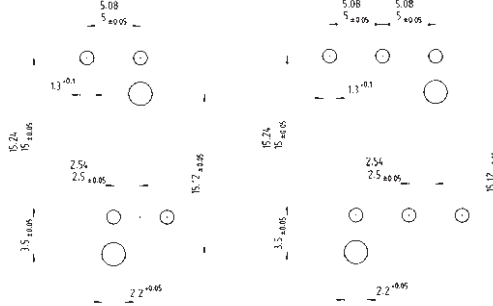


Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
Spacing: 5.00 mm							
50	13.05	5	4	25.178.5253.0	25.178.0253.0	25.178.9253.0	25.178.4253.0
50	18.05	10	6	25.178.5353.0	25.178.0353.0	25.178.9353.0	25.178.4353.0
50	23.05	15	8	25.178.5453.0	25.178.0453.0		
50	28.05	20	10	25.178.5553.0	25.178.0553.0		
50	33.05	25	12	25.178.5653.0	25.178.0653.0		
50	38.05	30	14	25.178.5753.0	25.178.0753.0		
50	43.05	35	16	25.178.5853.0	25.178.0853.0		
50	48.05	40	18	25.178.5953.0	25.178.0953.0		
50	53.05	45	20	25.178.6053.0	25.178.1053.0		
50	58.05	50	22	25.178.6153.0	25.178.1153.0		
50	63.05	55	24	25.178.6253.0	25.178.1253.0		
Spacing: 5.08 mm							
50	13.25	5.08	4	25.179.5253.0	25.179.0253.0	25.179.9253.0	25.179.4253.0
50	18.33	10.16	6	25.179.5353.0	25.179.0353.0	25.179.9353.0	25.179.4353.0
50	23.41	15.24	8	25.179.5453.0	25.179.0453.0		
50	28.49	20.32	10	25.179.5553.0	25.179.0553.0		
50	33.57	25.40	12	25.179.5653.0	25.179.0653.0		
50	38.65	30.48	14	25.179.5753.0	25.179.0753.0		
50	43.73	35.56	16	25.179.5853.0	25.179.0853.0		
50	48.81	40.64	18	25.179.5953.0	25.179.0953.0		
50	53.89	45.72	20	25.179.6053.0	25.179.1053.0		
50	58.97	50.80	22	25.179.6153.0	25.179.1153.0		
50	64.05	55.88	24	25.179.6253.0	25.179.1253.0		

with insulating plate, with fixing bolts



Bore hole plan for version with fixing bolts



Material:
 Insulating housing: PA 66/6 gray, UL 94-V-2
 Clamping body: nickel-plated brass
 Contact clip with solder pin:
 tin-plated E copper
 Clamping screw: zinc-plated steel

Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts
upon request	upon request
upon request	upon request

PC board connector, rising cage clamp system

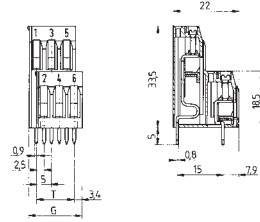
Spacing: 5.00 mm

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Rated cross section:
2.5 mm²

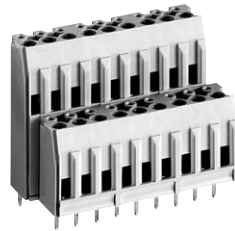
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

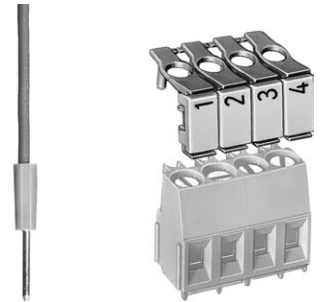
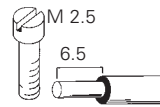


250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV



Solder pin 0.8 x 0.9 mm
Bore hole Ø 1.2 mm



Type 8190 E

wire horizontal to PC board

No. 22 – 12 AWG

300 V 15 A

No. 22 – 14 AWG

300 V 10 A

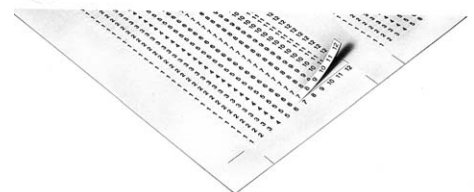


Accessories

Type 8190 E

Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

Spacing: 5.00 mm	Std. pack	G	T	Poles	Part no.	Part no.	Poles	Part no.	Std. pack	
					unmarked	marked				
	50	13.36	5	4	25.131.3253.0	25.130.3253.0	1	Test plug, nominal current = 2A		
	50	18.36	10	6	25.131.3353.0	25.130.3353.0	2	Z5.543.0153.0	100	
	50	23.36	15	8	25.131.3453.0	25.130.3453.0		Z5.543.0253.0	100	
								Marking tag carrier		
								for 12 poles, divisible for smaller pole configurations		
	50	28.36	20	10	25.131.3553.0	25.130.3553.0		04.242.4653.0	50	
	50	33.36	25	12	25.131.3653.0	25.130.3653.0		Marking strips, unmarked		
	50	38.36	30	14	25.131.3753.0	25.130.3753.0		04.242.5053.0	25	
	50	43.36	35	16	25.131.3853.0	25.130.3853.0		1 – 10, 11 – 20 etc. 991 – 999, marked		
	50	48.36	40	18	25.131.3953.0	25.130.3953.0		04.842.5053.0	25	
	50	53.36	45	20	25.131.4053.0	25.130.4053.0		Tear-off marking strip		
	50	58.36	50	22	25.131.4153.0	25.130.4153.0		marked 1, 2, 3 ... 0		
	50	63.36	55	24	25.131.4253.0	25.130.4253.0		04.841.2150.0	25	
								Single tag, unmarked		
								04.242.0850.0	500	
								marked		
								04.842.0850.0	500	
								Adhesive marking strips		
								(1 sheet = 100strips)		
								1 – 12	04.007.4089.0	1
								13 – 24	04.007.4189.0	1
								25 – 36	04.007.4289.0	1
								37 – 48	04.007.4389.0	1
								49 – 60	04.007.4489.0	1
								61 – 72	04.007.4589.0	1
								73 – 84	04.007.4689.0	1
								85 – 96	04.007.4789.0	1
								97 – 108	04.007.4889.0	1
Material:										
Insulating housing: PA 6/66, UL 94-V-0										
Clamping body: zinc-plated steel										
Contact clip with solder pin:										
tin-plated E copper										
Clamping screw: zinc-plated steel										



wiecon

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PC board connectors, rising cable clamp system

Spacing: 5.00/5.08 mm

wiecon PCB

Rated cross section:
2.5 mm²

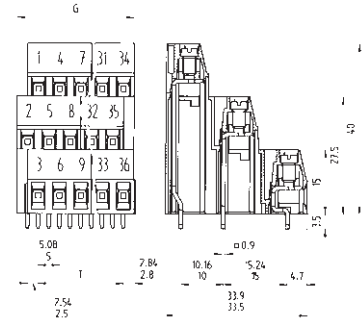
Rated current:
16 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

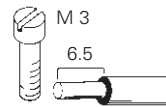
250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



without insulating plate



Solder pin 0.9 x 0.9 mm
Bore hole Ø 1.3 mm



* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

Type 8191 D/8291 D

wire horizontal to PC board

Rated voltages VDE 0110

UL ratings field/factory wiring

CSA ratings

Approvals

No. 22 – 12 AWG

300 V 20/30 A

No. 22 – 12 AWG

300 V 25 A



Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
Spacing: 5.00 mm							
50	12.8	5	6	25.180.5253.0	25.180.0253.0	25.180.9253.0	25.180.4253.0
50	17.8	10	9	25.180.5353.0	25.180.0353.0	25.180.9353.0	25.180.4353.0
50	22.8	15	12	25.180.5453.0	25.180.0453.0		
50	27.8	20	15	25.180.5553.0	25.180.0553.0		
50	32.8	25	18	25.180.5653.0	25.180.0653.0		
50	37.8	30	21	25.180.5753.0	25.180.0753.0		
50	42.8	35	24	25.180.5853.0	25.180.0853.0		
50	47.8	40	27	25.180.5953.0	25.180.0953.0		
20	52.8	45	30	25.180.6053.0	25.180.1053.0		
20	57.8	50	33	25.180.6153.0	25.180.1153.0		
20	62.8	55	36	25.180.6253.0	25.180.1253.0		
Spacing: 5.08 mm							
50	12.70	5.08	6	25.181.5253.0	25.181.0253.0	25.181.9253.0	25.181.4253.0
50	17.78	10.16	9	25.181.5353.0	25.181.0353.0	25.181.9353.0	25.181.4353.0
50	22.86	15.24	12	25.181.5453.0	25.181.0453.0		
50	27.94	20.32	15	25.181.5553.0	25.181.0553.0		
50	33.02	25.40	18	25.181.5653.0	25.181.0653.0		
50	38.10	30.48	21	25.181.5753.0	25.181.0753.0		
50	43.18	35.56	24	25.181.5853.0	25.181.0853.0		
50	48.26	40.64	27	25.181.5953.0	25.181.0953.0		
20	53.34	45.72	30	25.181.6053.0	25.181.1053.0		
20	58.42	50.80	33	25.181.6153.0	25.181.1153.0		
20	63.50	55.88	36	25.181.6253.0	25.181.1253.0		

PC board connectors, rising cable clamps system

Spacing: 5.00 mm

wiecon PCB

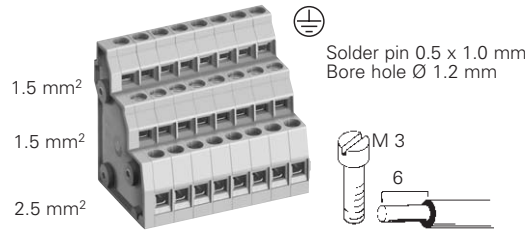
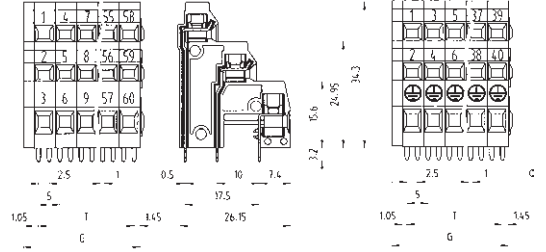
Rated cross section:
1.5 mm², PE 2.5 mm²

Rated current:
10 A

Connection range:
0.5 – 2.5 mm² solid 0.5 – 4.0 mm² (PE)
0.5 – 1.5 mm² fine stranded 0.5 – 2.5 mm² (PE)

250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV



Material: **Type 8195 D/...** and **Type 8195 V/...**
Insulating housing: PA 6/66, UL 94-V-0
Clamping body: tin-plated brass
Contact clip with solder pin: tin-plated
Clamping screw: zinc-plated steel

Type 8195 D/...

wire horizontal to PC board

Rated voltages VDE 0110							
UL ratings	field/factory wiring	No. 30 – 14 AWG	300 V	10 A	No. 20 – 12 AWG for PE		
CSA ratings		No. 30 – 14 AWG	300 V	10 A	No. 20 – 12 AWG for Ground		
Approvals							

Std. pack	G	T	Poles	Part no.	Part no.
Spacing: 5.00 mm				unmarked	marked
50	12.50	7.50	6	25.153.2253.0	25.153.0253.0
50	17.50	12.50	9	25.153.2353.0	25.153.0353.0
50	22.50	17.50	12	25.153.2453.0	25.153.0453.0
50	27.50	22.50	15	25.153.2553.0	25.153.0553.0
50	32.50	27.50	18	25.153.2653.0	25.153.0653.0
50	37.50	32.50	21	25.153.2753.0	25.153.0753.0
50	42.50	37.50	24	25.153.2853.0	25.153.0853.0
20	47.50	42.50	27	25.153.2953.0	25.153.0953.0
20	52.50	47.50	30	25.153.3053.0	25.153.1053.0
			33 to 60pole upon request		
Initiator connectors				Type 8195 D/... VB1	
Spacing: 5.00 mm				unmarked	marked
			jumpered		
50		2 PE + 4		25.153.6253.0	25.153.4253.0
50		3 PE + 6		25.153.6353.0	25.153.4353.0
50		4 PE + 8		25.153.6453.0	25.153.4453.0
50		5 PE + 10		25.153.6553.0	25.153.4553.0
50		6 PE + 12		25.153.6653.0	25.153.4653.0
50		7 PE + 14		25.153.6753.0	25.153.4753.0
50		8 PE + 16		25.153.6853.0	25.153.4853.0
50		9 PE + 18		25.153.6953.0	25.153.4953.0
20		10 PE + 20		25.153.7053.0	25.153.5053.0
		11 PE + 22 up to 20 PE + 40 upon request			

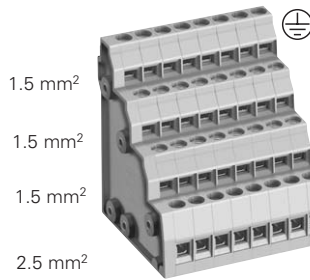
Rated cross section:
1.5 mm², PE 2.5 mm²

Rated current:
10 A

Connection range:
0.5 – 2.5 mm² solid 0.5 – 4.0 mm² (PE)
0.5 – 1.5 mm² fine stranded 0.5 – 2.5 mm² (PE)

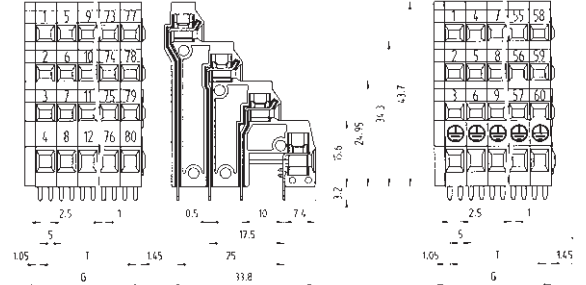
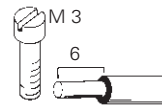
250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV



1.5 mm²
1.5 mm²
1.5 mm²
2.5 mm²

Solder pin 0.5 x 1.0 mm
Bore hole Ø 1.2 mm



Type 8195 V/... wire horizontal to PC board

Rated voltages VDE 0110

UL ratings field/factory wiring

CSA ratings

Approvals

No. 30 – 14 AWG

No. 30 – 14 AWG



300 V

300 V

10 A

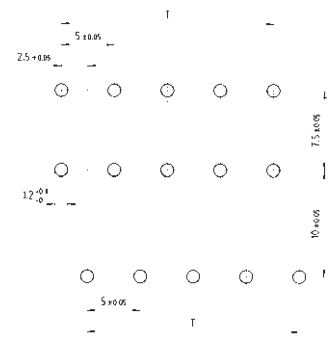
10 A

No. 20 – 12 AWG for PE

No. 20 – 12 AWG for Ground

Std. pack	G	T	Poles	Part no.	Part no.
Spacing: 5.00 mm				unmarked	marked
50	12.50	7.50	8	25.154.2253.0	25.154.0253.0
50	17.50	12.50	12	25.154.2353.0	25.154.0353.0
50	22.50	17.50	16	25.154.2453.0	25.154.0453.0
50	27.50	22.50	20	25.154.2553.0	25.154.0553.0
50	32.50	27.50	24	25.154.2653.0	25.154.0653.0
50	37.50	32.50	28	25.154.2753.0	25.154.0753.0
50	42.50	37.50	32	25.154.2853.0	25.154.0853.0
20	47.50	42.50	36	25.154.2953.0	25.154.0953.0
20	52.50	47.50	40	25.154.3053.0	25.154.1053.0
44 to 80pole upon request					
Initiator connectors				Type 8195 V/... VB1	
Spacing: 5.00 mm				unmarked	marked
⊕ jumpered					
50		2 PE + 6		25.154.6253.0	25.154.4253.0
50		3 PE + 9		25.154.6353.0	25.154.4353.0
50		4 PE + 12		25.154.6453.0	25.154.4453.0
50		5 PE + 15		25.154.6553.0	25.154.4553.0
50		6 PE + 18		25.154.6653.0	25.154.4653.0
50		7 PE + 21		25.154.6753.0	25.154.4753.0
50		8 PE + 24		25.154.6853.0	25.154.4853.0
50		9 PE + 27		25.154.6953.0	25.154.4953.0
20		10 PE + 30		25.154.7053.0	25.154.5053.0
11 PE + 33 up to 20 PE + 60 upon request					

Bore hole plan **Type 8195 D/...** and **Type 8195 V/...**



PC board connectors, rising cable clamps system

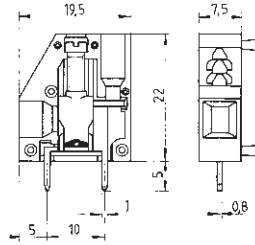
Spacing: 7.50 mm

wiecon PCB

Rated cross section:
4.0 mm²

Rated current:
30 A

Connection range:
0.14 – 6.0 mm² solid/
0.14 – 4.0 mm² fine stranded



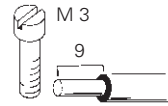
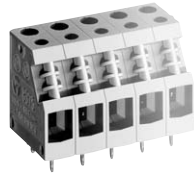
Material:

Insulating housing: PA 66/6 gray, UL 94-V-0
Clamping body: zinc-plated steel
Contact clip with solder pin:
tin-plated E copper
Clamping screw: zinc-plated steel

Rated voltages:

Spacing: 7.50 mm
500 V/6 kV/3 – Overvoltage category III
1000 V/6 kV/2 – Overvoltage category II
1000 V/6 kV/1 – Overvoltage category I

Spacing: 10.00 mm, UL 600 V, CSA 600 V
690 V/8 kV/3 – Overvoltage category III
1000 V/8 kV/2 – Overvoltage category II
1000 V/8 kV/1 – Overvoltage category I



Solder pin 0.8 x 1.0 mm
Bore hole Ø 1.3 mm

Rated voltages VDE 0110

UL ratings

CSA ratings

Approvals

field/factory wiring

Type 8375

wire horizontal to PC board

No. 22/30 – 10 AWG

300 V 30/35 A

No. 22 – 10 AWG

300 V/600 V* 30 A



		Type	Part no.	Std. pack
Spacing: 7.50 mm				
Single poles, snap together	1pole	8375	25.700.0153.0	100
Accessories				
Spacing: 10.00 mm				
Spacer (to increase the contact spacing from 7.50 to 10.00 mm)			07.300.2753.0	50
Test plug, red		ST 2/2,3	Z5.553.2921.0	10
Marking strips	unmarked	9705 A/7,5/10	04.242.7553.0	25
1 – 10, 11 – 20 usw. 991 – 999	¹⁾ marked	9705 A/7,5/10 B	04.842.7553.0	25
Tear-off marking strip	marked. 1, 2, 3 ... 0	9704 A/1-0 B	04.841.2150.0	25
Single tags	unmarked	9705 A	04.242.0850.0	500
	¹⁾ marked	9705 AB	04.842.0850.0	500
¹⁾ marking upon request				
* 600 V with spacer between each pole				

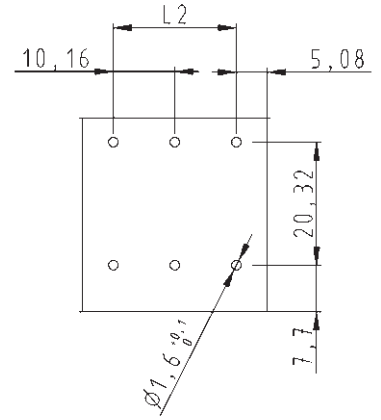
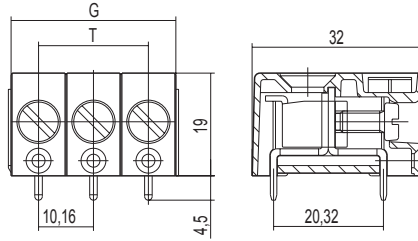
wiecon

Rated cross section: 10.0 mm²

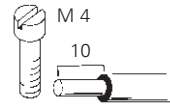
Rated current: 59 A
 (related to an ambient temperature of 20°C,
 the rated cross section and max. number of poles)

Connection range:
 0.50 – 10.0 mm² ein-/fine stranded

400 V/6 kV/3 – Overvoltage category III
 690 V/6 kV/2 – Overvoltage category II
 1000 V/6 kV/1 – Overvoltage category I



Solder pin 1.2 x 1.4 mm
 Bore hole Ø 1.6 mm



available from 09/2001

Type 7573 L2.../W

Rated voltages VDE 0110

UL ratings field/factory wiring

CSA ratings

Approvals

No. 22 – 8 AWG 300 V 10 A
 No. 22 – 8 AWG 300 V 10 A



Std. pack	G	T	Poles	Part no.
Spacing: 10.16 mm				
				unmarked
50	10.16		1	27.002.6153.0
50	30.48	20.32	3	27.002.6353.0
50	40.64	30.48	4	27.002.6453.0



wiecon PCB

Rated cross section:
10 mm²

Rated current:
57 A

(related to an ambient temperature of 20°C,
the rated cross section and max. number of poles)

Connection range:

0.50 – 16.0 mm² solid/
0.50 – 10.0 mm² fine stranded

Rated voltages:

4 solder pins

250 V/4 kV/3 – Overvoltage category III

400 V/4 kV/2 – Overvoltage category III

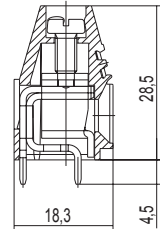
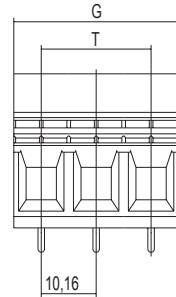
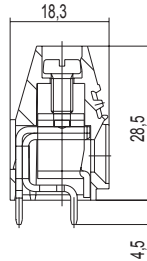
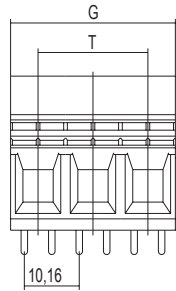
630 V/4 kV/2 – Overvoltage category II

2 solder pins

630 V/8 kV/3 – Overvoltage category III

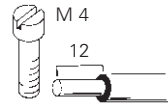
800 V/8 kV/2 – Overvoltage category III

1000 V/8 kV/2 – Overvoltage category II



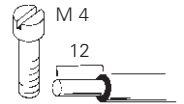
Solder pin 1.2 x 1.2 mm
Bore hole Ø 1.6 mm

4 solder pins



Solder pin 1.2 x 1.2 mm
Bore hole Ø 1.6 mm

2 solder pins



Type 7572 L4

No. 22 – 8 AWG
No. 22 – 8 AWG



Type 7572 L2

300/150 V 10/40 A
300 V 10 A

No. 22 – 8 AWG
No. 22 – 8 AWG



300/150 V 10/40 A
300 V 10 A

Rated voltages VDE 0110

UL ratings

field/factory wiring

CSA ratings

Approvals

Std. pack	G	T	Poles	Part no.	Part no.
Spacing: 10.16 mm					
50	20.32	10.16	2	27.002.0253.0	unmarked
50	30.48	20.32	3	27.002.0353.0	27.002.2253.0 27.002.2353.0

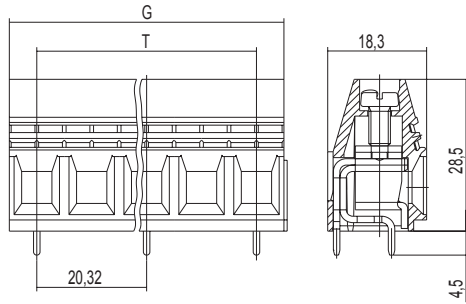
Rated cross section:
10 mm²

Rated current:
57 A

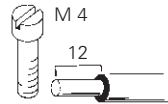
(related to an ambient temperature of 20°C,
the rated cross section and max. number of poles)

Connection range:
0.50 – 16.0 mm² solid/
0.50 – 10.0 mm² fine stranded

Rated voltages:
1000 V/8 kV/3 – Overvoltage category III



Solder pin 1.2 x 1.2 mm
Bore hole Ø 1.6 mm



Type 7572 L2

Rated voltages VDE 0110

CSA
Approvals

No. 22 – 6 AWG

600 V 60 A



Std. pack	G	T	Poles	Part no.
Spacing: 20.32 mm				
50	30.48	20.32	2	unmarked
50	50.64	40.48	3	27.002.4253.0 27.002.4353.0

PC board connectors, rising cable clamp system

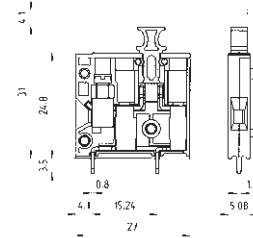
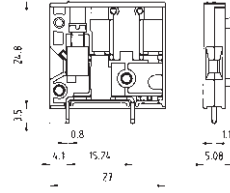
Spacing: 5.08 mm

wiecon PCB

Rated cross section:
4.0 mm² solid/
2.5 mm² fine stranded

Rated current type 8276: 26 A
Rated current type 8276 TKS: 15 A

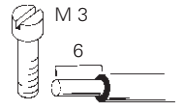
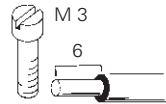
Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded



250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

Solder pin 0.8 x 1.1 mm
Bore hole Ø 1.4 mm

Solder pin 0.8 x 1.1 mm
Bore hole Ø 1.4 mm



Rated voltages VDE 0110
UL ratings field/factory wiring
CSA ratings
Approvals

Type 8276
Feed through block
No. 30 – 14 AWG
No. 30 – 14 AWG

300 V 15/23 A
300 V 20 A



Type 8276 TKS
Plunger disconnect block
No. 30 – 14 AWG
No. 30 – 14 AWG

300 V 15 A
300 V 15 A



	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Spacing: 5.08 mm						
Single poles, snap together 1pole Pre-assembled pole configurations upon request	8276	25.720.1353.0	100	8276 TKS	25.720.1453.0	100
Accessories						
Adhesive marking strips						
	1 – 12 13 – 24 25 – 36 37 – 48 49 – 60 61 – 72 73 – 84 85 – 96 97 – 108	04.007.4089.0 04.007.4189.0 04.007.4289.0 04.007.4389.0 04.007.4489.0 04.007.4589.0 04.007.4689.0 04.007.4789.0 04.007.4889.0	1 1 1 1 1 1 1 1 1	1 – 12 13 – 24 25 – 36 37 – 48 49 – 60 61 – 72 73 – 84 85 – 96 97 – 108	04.007.4089.0 04.007.4189.0 04.007.4289.0 04.007.4389.0 04.007.4489.0 04.007.4589.0 04.007.4689.0 04.007.4789.0 04.007.4889.0	1 1 1 1 1 1 1 1 1
Test plug, red	ST 2/2,3	Z5.553.2921.0		ST 2/2,3	Z5.553.2921.0	10
	Material: Type 8276 Insulating housing: PA 66/6 gray, UL 94-V-0 Clamping body: nickel-plated brass Contact clip with solder pin: tin-plated E copper Clamping screw: zinc-plated steel			Material: Type 8276 TKS Insulating housing: PA 66/6 gray, UL 94-V-0 Plunger: PA 66/6 orange, UL 94-V-0 Clamping body: nickel-plated brass Contact spring with solder pin: special copper alloy, tin-plated Clamping screw: zinc-plated steel Disconnect knife: tin-plated E copper		

PC board connectors, rising cage clamp system

Spacing: 5.08 mm

Rated cross section:
2.5 mm²

Rated current:
6.3 A**

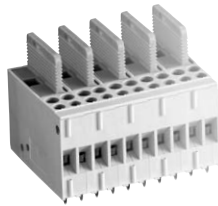
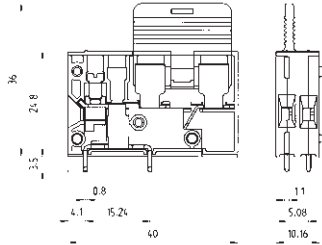
Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III
*690 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

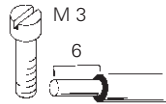
* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

** voltage and current ratings are determined by the inserted G fuse.
6.3 A up to a loss of 1.6 W

For the selection and use of G fuses follow IEC 60 127-2/DIN VDE 0820 T2.



Solder pin 0.8 x 1.1 mm and 0.5 x 1.1 mm
Bore hole Ø 1.4 mm



Type 8276 Si-D

Ground feed through block (for 5 x 20 fuses)

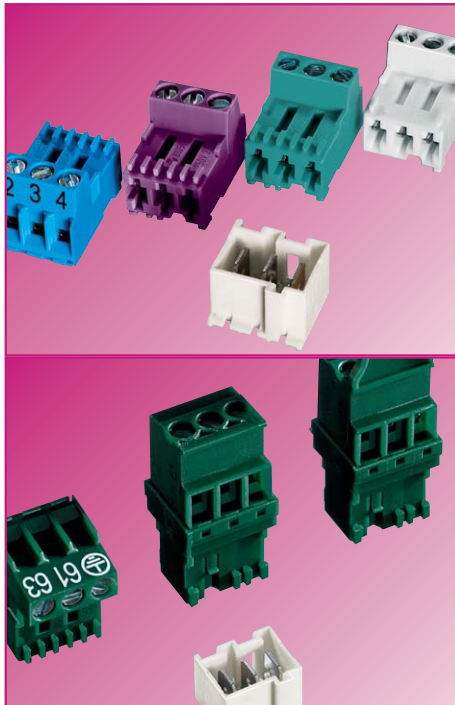
No. 30 – 14 AWG 300 V 6,3 A
No. 30 – 14 AWG 300 V 6,3 A



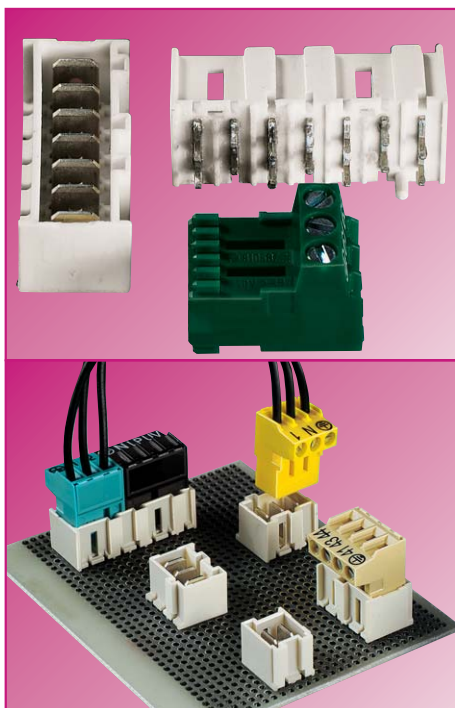
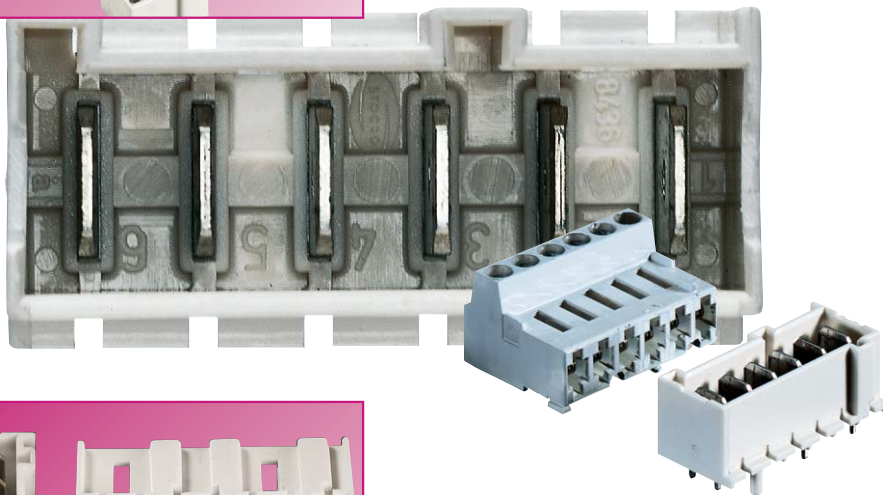
Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

	Type	Part no.	Std. pack
Spacing: 5.08 mm			
Single poles, snap together 1pole	8276 Si-D	25.720.1653.0	100
Pre-assembled pole configurations upon request			
Accessories			
Adhesive marking strips			
	1 – 12	04.007.4089.0	1
	13 – 24	04.007.4189.0	1
	25 – 36	04.007.4289.0	1
	37 – 48	04.007.4389.0	1
	49 – 60	04.007.4489.0	1
	61 – 72	04.007.4589.0	1
	73 – 84	04.007.4689.0	1
	85 – 96	04.007.4789.0	1
	97 – 108	04.007.4889.0	1
unmarked for own marking		04.007.3989.0	1
Test plug, red	ST 2/2,3	Z5.553.2921.0	10
	Material: Type 8276 Si-D Insulating housing: PA 66/6 gray, UL 94-V-0 Fuse holder: PA 66/6 orange, UL 94-V-0 Clamping body: nickel-plated brass Contact clip with solder pin: special copper alloy, tin-plated Contact spring with solder pin: special copper alloy, tin-plated Clamping screw: zinc-plated steel		

Type 8105 B, RAST 5 connection www.wieland-components.com
 PC board pluggables, tab connectors
wieland PCB



Technological advancements often appear first in electrical appliances. Printed circuit boards, which centralize and conduct signal and power to equipment, serve as a primary and essential function in this technology. Wieland Electric has designed advanced pluggable PC board screw connectors as an integral component to printed circuit boards. Using RAST 5 technology, a European standard for appliance wiring and component design, Wieland offers a wide selection of PC board connectors for the manufacture of advanced electrical appliances.



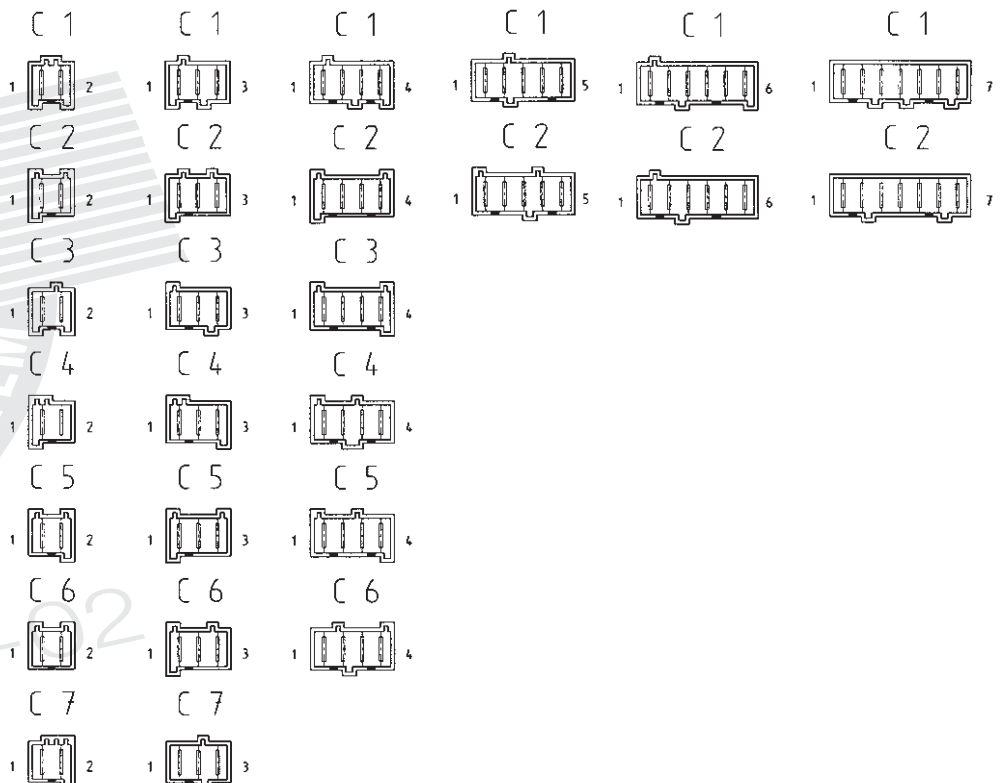
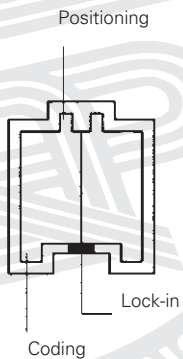
The fixed coding facilities (without coding strip) of the 8105 type are designed for the RAST 5 standard and meets all current requirements of "white goods". The same applies for the different versions, i.e. with vertical connection right and left in addition to the horizontal one, or flat blade connectors in straight design.

They are all based on a rated current of 10A. The pole configurations range from 2 to 7 poles. Both fine stranded wires of 0.14 mm² to 2.5 mm², with and without ferrules, and solid wires of 0.14 mm² to 4 mm² can be connected.



		Page 382	Page 382	Page 383	Page 383	Page 383
Type		8105 B/... C...	8105 B/...C...VR	8105 B/...C...VL	8105 F/...GC...	8105 F/WC...
Spacing	mm	5.00	5.00	5.00	5.00	5.00
Cross section	mm²	2.5	2.5	2.5	-	-
Number of poles		2 - 7	2 - 7	2 - 7	2 - 7	2 - 7

RAST 5 Coding plan



RAST 5

PC board pluggables, spacing: 5.00 mm

wiecon PCB

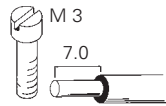
onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Rated cross section:
2.5 mm²

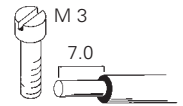
Rated current: 10 A

Connection range:
0.20 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Type 8105 B/... C... OB



Type 8105 B/... C... VR OB

Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

No. 26 – 12 AWG
No. 26 – 12 AWG

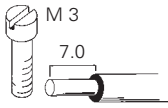
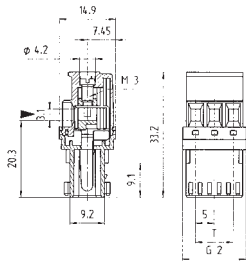
300 V 10 A
300 V 10 A

No. 26 – 12 AWG
No. 26 – 12 AWG

300 V 10 A
300 V 10 A



Std. pack	Poles	Code	Part no.	Part no.
PC board pluggables / tab connectors				
			unmarked	unmarked
100	2	C0	15.000.0253.0	15.020.0253.0
100		C1	15.001.0253.0	15.021.0253.0
100		C2	15.002.0253.0	15.022.0253.0
100	3	C3	15.003.0253.0	15.023.0253.0
100		C4	15.004.0253.0	15.024.0253.0
100		C5	15.005.0253.0	15.025.0253.0
100	4	C6	15.006.0253.0	15.026.0253.0
100		C7	15.007.0253.0	15.027.0253.0
100	3	C0	15.000.0353.0	15.020.0353.0
100		C1	15.001.0353.0	15.021.0353.0
100		C2	15.002.0353.0	15.022.0353.0
100	4	C3	15.003.0353.0	15.023.0353.0
100		C4	15.004.0353.0	15.024.0353.0
100		C5	15.005.0353.0	15.025.0353.0
100	5	C6	15.006.0353.0	15.026.0353.0
100		C7	15.007.0353.0	15.027.0353.0
50	4	C0	15.000.0453.0	15.020.0453.0
50		C1	15.001.0453.0	15.021.0453.0
50		C2	15.002.0453.0	15.022.0453.0
50	5	C3	15.003.0453.0	15.023.0453.0
50		C4	15.004.0453.0	15.024.0453.0
50		C5	15.005.0453.0	15.025.0453.0
50	6	C6	15.006.0453.0	15.026.0453.0
50		C7		
50	5	C0	15.000.0553.0	15.020.0553.0
50		C1	15.001.0553.0	15.021.0553.0
50		C2	15.002.0553.0	15.022.0553.0
50	6	C0	15.000.0653.0	15.020.0653.0
50		C1	15.001.0653.0	15.021.0653.0
50		C2	15.002.0653.0	15.022.0653.0
50	7	C0	15.000.0753.0	15.020.0753.0
50		C1	15.001.0753.0	15.021.0753.0
50		C2	15.002.0753.0	15.022.0753.0

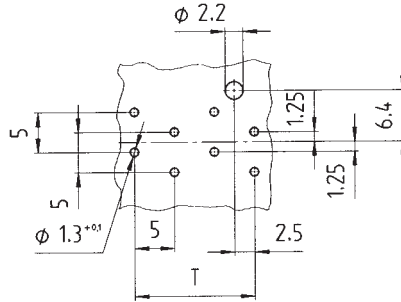


Type 8105 B/... C... VL OB

No. 26 – 12 AWG 300 V 10 A
No. 26 – 12 AWG 300 V 10 A

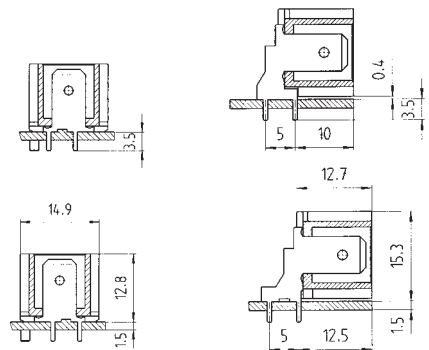


Bore hole plan, side view



No positioning stud for version
8105 F/... WC ...OB

Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals



**Type 8105 F/... GC ... OB /
8105 F/... WC... OB**

No. 26 – 12 AWG 300 V 10 A
No. 26 – 12 AWG 300 V 10 A



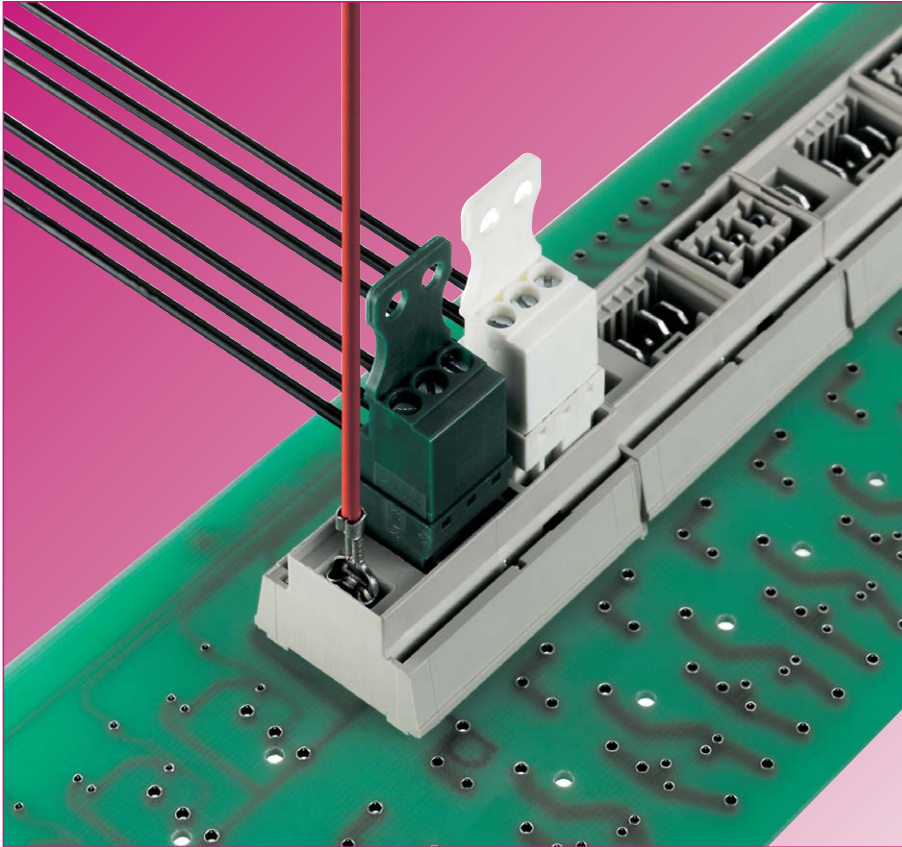
Part no.	Std. pack	G1	G2	G3	T	Part no.	Part no.
unmarked					RAST 5	unmarked	unmarked
15.010.0253.0	100	10	11.8		5	15.301.0258.9	15.311.0258.9
15.011.0253.0	100	10	11.8	12	5	15.302.0258.9	15.312.0258.9
15.012.0253.0	100	10	11.8	12	5	15.303.0258.9	15.313.0258.9
15.013.0253.0	100	10	11.8	12	5	15.304.0258.9	15.314.0258.9
15.014.0253.0	100	10	11.8	12	5	15.305.0258.9	15.315.0258.9
15.015.0253.0	100	10	11.8	12	5	15.306.0258.9	15.316.0258.9
15.016.0253.0	100	10	11.8	12	5	15.307.0258.9	15.317.0258.9
15.010.0353.0	100	15	16.8		10	15.301.0358.9	15.311.0358.9
15.011.0353.0	100	15	16.8	17	10	15.302.0358.9	15.312.0358.9
15.012.0353.0	100	15	16.8	17	10	15.303.0358.9	15.313.0358.9
15.013.0353.0	100	15	16.8	17	10	15.304.0358.9	15.314.0358.9
15.014.0353.0	100	15	16.8	17	10	15.305.0358.9	15.315.0358.9
15.015.0353.0	100	15	16.8	17	10	15.306.0358.9	15.316.0358.9
15.016.0353.0	100	15	16.8	17	10	15.307.0358.9	15.317.0358.9
15.010.0453.0	50	20	21.8		15	15.301.0458.9	15.311.0458.9
15.011.0453.0	50	20	21.8	22	15	15.302.0458.9	15.312.0458.9
15.012.0453.0	50	20	21.8	22	15	15.303.0458.9	15.313.0458.9
15.013.0453.0	50	20	21.8	22	15	15.304.0458.9	15.314.0458.9
15.014.0453.0	50	20	21.8	22	15	15.305.0458.9	15.315.0458.9
15.015.0453.0	50	20	21.8	22	15	15.306.0458.9	15.316.0458.9
15.016.0453.0	50	20	21.8	22	15	15.307.0458.9	15.317.0458.9
15.010.0553.0	50	25	26.8		20	15.301.0558.9	15.311.0558.9
15.011.0553.0	50	25	26.8	27	20	15.302.0558.9	15.312.0558.9
15.012.0553.0	50	25	26.8	27	20	15.303.0658.9	15.313.0658.9
15.010.0653.0	50	30	31.8		25	15.301.0658.9	15.311.0658.9
15.011.0653.0	50	30	31.8	32	25	15.302.0658.9	15.312.0658.9
15.012.0653.0	50	30	31.8	32	25	15.303.0758.9	15.313.0758.9
15.010.0753.0	50	35	36.8		30	15.301.0758.9	15.311.0758.9
15.011.0753.0	50	35	36.8	37	30	15.302.0758.9	15.312.0758.9
15.012.0753.0	50	35	36.8	37	30		

RAST 5 connection

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Potential distributor for PC board, spacing: 5.00 mm

wiecon PCB



Custom connection modules in RAST 5 connection style

Main field of application:

RAST 5 connection style:
"white" and "red goods"

Major benefits of RAST 5:

- fixed integrated coding
- potential for mismatching eliminated
- available in different colors
(benefit: plug connectors and headers are immediately and correctly assigned e. g. in assembly line mounting)
- ideal for off-site harness assembly

Wieland offers custom modifications e. g.

- RAST 5 connection module units with
 - integrated jumper
(e. g. ground connection)
 - plug connectors and headers in the connection module for potential distribution (current-carrying part must always be the plug connector)
 - any plug connector/header combination in different pole configurations
 - different colors

Rated cross section:
2.5 mm²

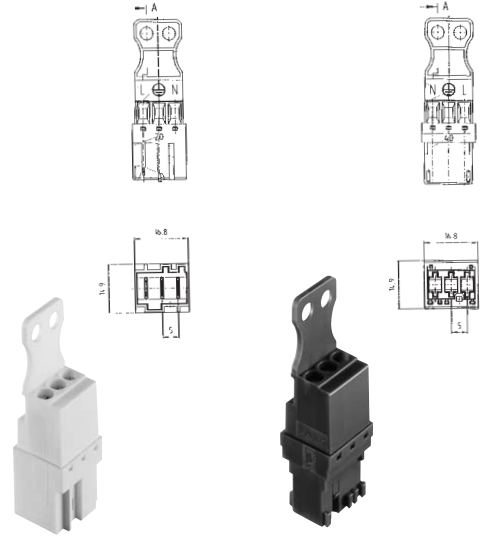
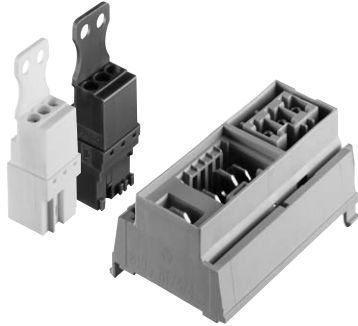
Rated current: 10 A

Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

250 V/2.5 kV/3 – Overvoltage category III
*690 V/2.5 kV/2 – Overvoltage category II
1000 V/2.5 kV/1 – Overvoltage category I

Number of poles: 2 – 7

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV



Type 8105 BF/3/4

Header

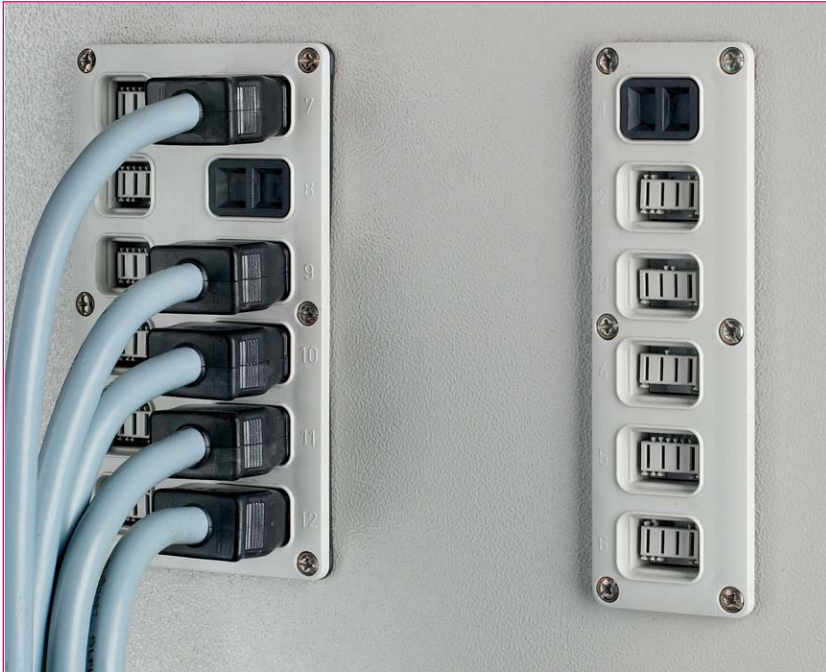
Plug

Rated voltages VDE 0110
UL ratings
CSA ratings – pending
Approvals



Spacing: 5.00 mm	Type	Part no.	Std. pack	Type	Part no.	Std. pack
		99.243.3564.7	100	Header with handle, white	99.239.3564.7	100
				Plug with handle, green	99.259.3564.7	100





External wiring



Internal wiring

RAST 5 connection (IP 54 rated) Termination Modules for Industrial Plant Construction

The time consuming hard wiring cable connections to control cabinets can now be avoided. The modular *RAST 5* termination module by Wieland is a low cost and faster method to connect control cabinets for industrial plant construction.

This wiring system with its pre-assembled cable harness and coded connectors was developed to optimize the "start-up" of industrial plants.

Because the wires and codings are 100 percent tested, manufacturing is time and cost efficient and installation is vastly simplified.

The benefits compared to former PG gland wiring are obvious:

- installation times reduced by 80 % compared to traditional techniques
- time and cost saving pre-assembled cables
- Cable connections are IP 54 rated
- no errors as mismatching is impossible
- no specialists required to complete external wiring

wiecon



The external *RAST 5* connectors are available in 3 to 5 pole configurations. Their secure coding prevents mismatching. By means of marking labels the headers can be quickly assigned to the plug connectors in multi-pole modules.

External connection lines with special connectors, which provide sealing with IP 54 protection, are delivered with pre-assembled custom cables.

The other cable ends can also be fitted with further components such as DIN outlet boxes for temperature signal conditioners.

Internal wiring is completed either with insulated

- *RAST 5* tab connectors
- *RAST 5* screw connectors
- *RAST 5* crimp connectors

System design

- 2 basic modules are available
- module with 6 slots = TM 6
 - module with 12 slots = TM 12

All these versions are coded to prevent mismatching, meaning that the slots in the module are all different. Two different versions are available for each type.

Cable types for the external lines

The following standard cable types are available:

- Ölflex Quattro 150 in 3, 4 and 5 pole configurations
- Ölflex Quattro 150 CY (shielded version) in 3, 4, and 5 pole configurations

The system provides a large number of combinations of modules, codings and cables and enables various custom wiring solutions.

Depending on the order quantities, special module versions and cables are also possible.

To try out the variations, you can order the function set TM 6-5 with cables.

Technical information on the TM modules and external cables:

Connector cross section:
1.5 mm² (standard)

Rated voltage:
250 V/4 kV/3 – Overvoltage category III

Rated current: 10 A

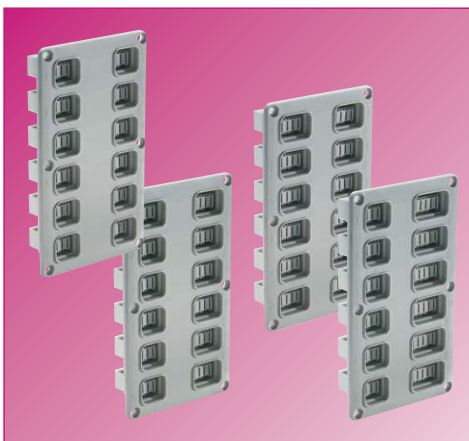
Approvals (pending):
UL, CSA and VDE



TM 6

The TM6 module is available in versions:

- 6 slots, 3pole = type **TM 6-3**
- 6 slots, 4pole = type **TM 6-4**
- 6 slots, 5pole = type **TM 6-5**

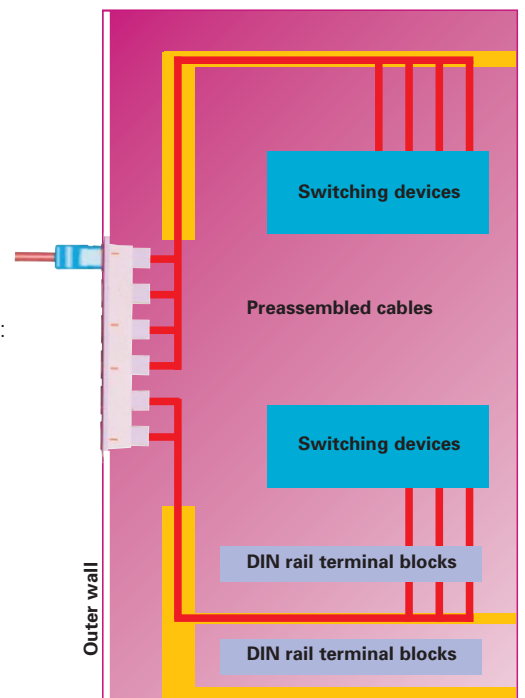


TM 12

The TM 12 module is available in versions:
12 slots in two rows of 6

- 3pole / 3pole = type **TM 12-33**
- 3pole / 4pole = type **TM 12-34**
- 4pole / 4pole = type **TM 12-44**
- 3pole / 5pole = type **TM 12-35**

Example of TM module 6/12 in a control cabinet

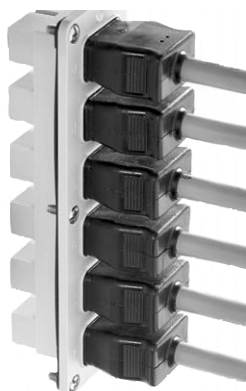


Function set TM 6

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

wiecon TER

Function set consisting of
1 x TM 6-5, incl. cable set 6 x 10 m
type Ölflex Quattro 5 x 1.5 mm²
with one 5pole connector each in tab version



6 slots, 3pole =
type **TM 6-3**



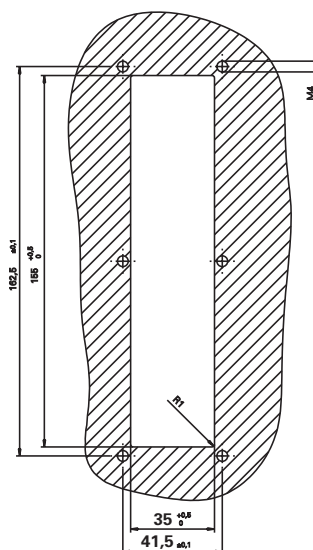
6 slots, 4pole =
type **TM 6-4**

Typ TM 6-5 F

Typ TM 6-3

Typ TM 6-4

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
TM 6-5 F	99.483.0000.0		TM 6-3		upon request	TM 6-4		upon request
			coding upon request		coding upon request	coding upon request		coding upon request



or bore hole
D = 3.8 mm for
self-tapping
screw
05.084.0212.0

Outer dimensions, cut-out and bore hole
configuration are the same for all
TM 6 versions



6 slots, 5pole =
type **TM 6-5**



TM 6 cover

fits all pole configurations



Locking piece

Typ TM 6-5

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
TM 6-5		upon request	TM 6-X	15.800.9956.0		3pole	05.562.5957.1	
coding upon request						4pole	05.562.6557.1	
						5pole	05.562.8257.1	



12 slots,
in two rows of 6
3pole / 3pole =
type **TM 12-33**



12 slots,
in two rows of 6
3pole / 4pole =
type **TM 12-34**



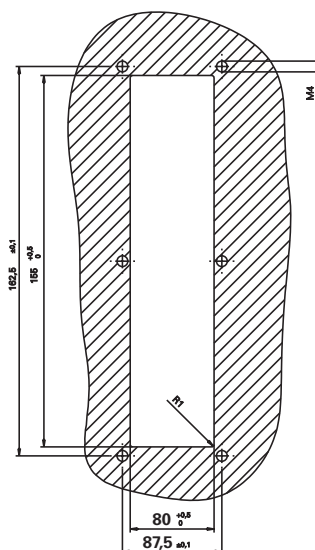
12 slots,
in two rows of 6
4pole / 4pole =
type **TM 12-44**

Typ TM 12-33

Typ TM 12-34

Typ TM 12-44

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
TM 12-33		upon request	TM 12-34		upon request	TM 12-44		upon request
coding upon request			coding upon request			coding upon request		



or bore hole
D = 3.8 mm for
self-tapping
screw
05.084.0212.0

Outer dimensions, cut-out and bore hole configuration are the same for all TM 6 versions



12 slots,
in two rows of 6
3pole / 5pole =
type **TM 12-35**



TM 12 cover

fits all TM 12-XX pole configurations



Locking piece

Typ TM 12-55

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
TM 12-35		upon request	TM 12-XX	15.800.8856.0		3pole	05.562.5957.1	
coding upon request						4pole	05.562.6557.1	
						5pole	05.562.8257.1	

In-line connector (insulation displacement connection)

Spacing: 5.00/5.08 mm

wiecon ASI CON

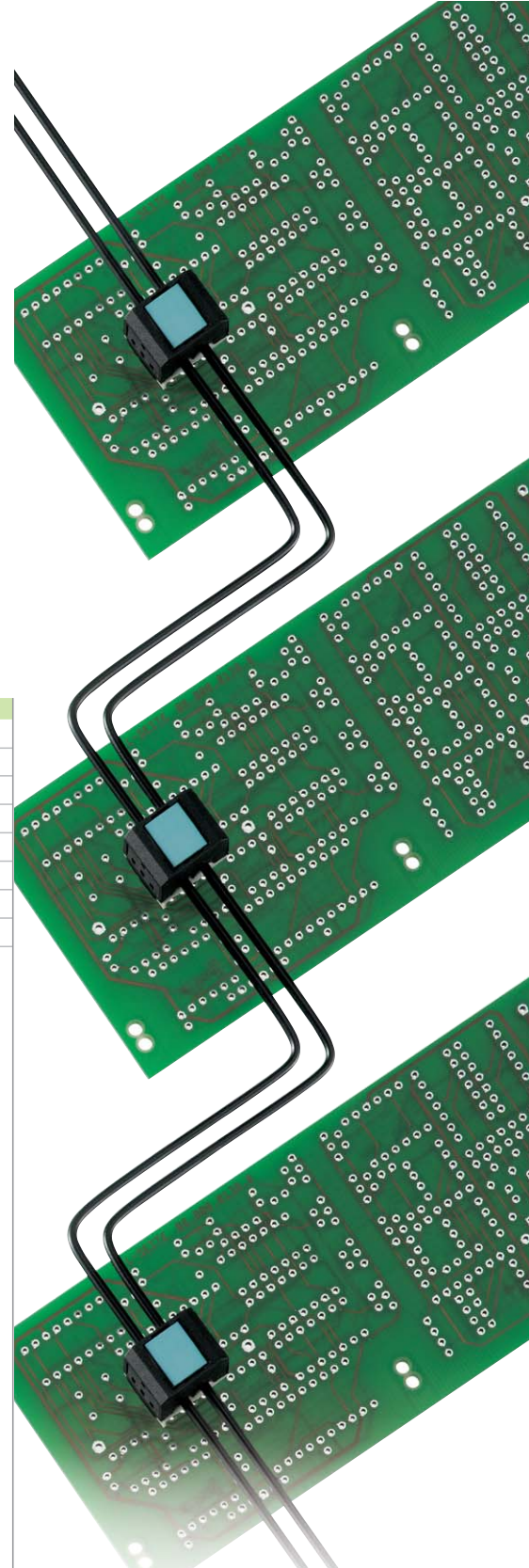
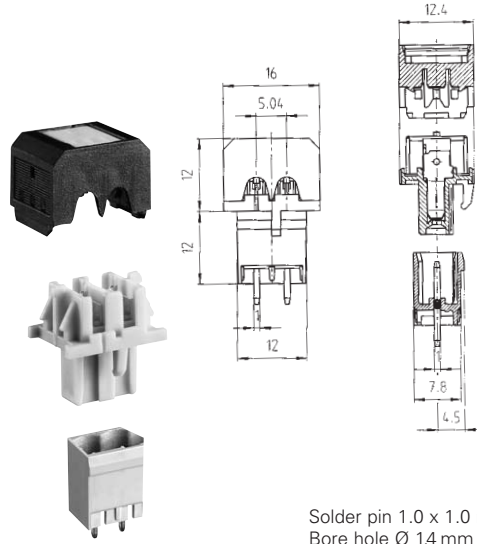
Rated cross section:
0.75 mm²

Rated current:
3 A

Connection range:
0.50 – 0.75 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

Current range:
from 3 mA up to 3 A



Typ 8113 BSK/2

Rated voltages VDE 0110

UL ratings field/factory wiring

No. 20 – 18 AWG

300 V

3 A

CSA ratings

No. 20 – 18 AWG

300 V

3 A

Approvals



		Type	Part no.	Std. pack
Spacing: 5.00/5.08 mm				
ASI in-line connector	2pole			
Cover	black		25.399.9853.0	100
Cover	yellow		25.399.9853.8	100
Cover	red		25.399.9853.5	100
(color of plug housing: gray)				
Marking tag	green		04.240.0953.0	100

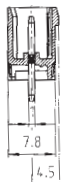
Cables with PVE- and PE-insulated wires can be connected. For others consult factory. The fine stranded copper conductor must have a minimum wire diameter of 0.2 mm. The wire design is based on DIN VDE 0295.

Insulated header for PC boards onlinecomponents.com

Spacing: 5.00/5.08 mm

Rated current:
12 A

250 V/4 kV/3 – Overvoltage category III
400 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Solder pin 1.0 x 1.0 mm
Bore hole Ø 1.4 mm

Typ 8113 S/... G, 8213 S/... G

plug-in vertical to PC board

No. 22 – 12 AWG 250 V 15 A

No. 22 – 12 AWG 300 V 15 A



Rated voltages VDE 0110
UL ratings
CSA ratings
Approvals

Std. pack	G	T	Pole	Part no.
Spacing: 5.00 mm				
100	11.40	5	2	unmarked 25.330.3253.0
Spacing: 5.08 mm				
100	11.56	5.08	2	unmarked 25.350.3253.0

ASI in-line connector in insulation displacement technology

The ASI connector was developed for both ASI bus systems and LON and EIBA systems. In these systems, auxiliary supply and information are transferred via two wires of the bus line. The ASI in-line connector, a pluggable PC board connector with insulation displacement technology (IDC), facilitates the required signal tap-off from the actuator or sensor. Wiring of the ASI connector is both easy and effective. Both wires are inserted in the open clamping body of the connector and afterwards the cover is pressed on by means of a vertical closing tool. Connection to the printed circuit board is made by plugging it on to a 2 pole header.

Note:

Instead of the special ASI cable, much less expensive standard conductors are used.

Material:

Insulating housing: PA 66/6
CI-index: ≥ 600
Flammability class UL 94-V-0

Contact parts:
Plating: special copper alloy

Assembly:
Special tools for high-volume assembly upon request.

Marking accessories

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Material:
Polyamide 66/6
Color: black numbers on white background





Marking strip Spacing: 10 mm

Marking tag 3-digit

Single tag

Marking strip Spacing: 10 mm

Type	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
for 5 connectors, marked (every 2nd tag)			unmarked			unmarked		
9705 A/5/10/5 B	04.842.5553.0	25	9705 A	04.242.0850.0	500	9705 A/5/10	04.242.5053.0	25
			marked*			marked*		
			9705 AB	04.842.0850.0	500	9705 A/5/10 B	04.842.5053.0	25
						with extended marking surface		
						9705 AL/5/10	04.242.5153.0	25
			* Please indicate the required marking together with the part number!			* Please indicate the required marking together with the part number!		
			Standard pack = 500 tags			Standard pack = 25 strips = 250 tags		
								
Marking tag carrier for WEB empty housing			Marking tag 8 digits			Marking strip Spacing: 5 mm		
	04.242.1050.0	200	unmarked			9705 A/5/9 B	04.842.4953.0	25
			9705 AL	04.242.1553.0	500			
			marked*					
			9705 ALB	04.842.1553.0	500			
			* Please indicate the required marking together with the part number!			Marking of the strips: 1 ... 9 1 ... 9		
			Standard pack = 500 tags			Standard pack = 25 strips = 225 tags		

Tear-off marking strip with 10 marking tags

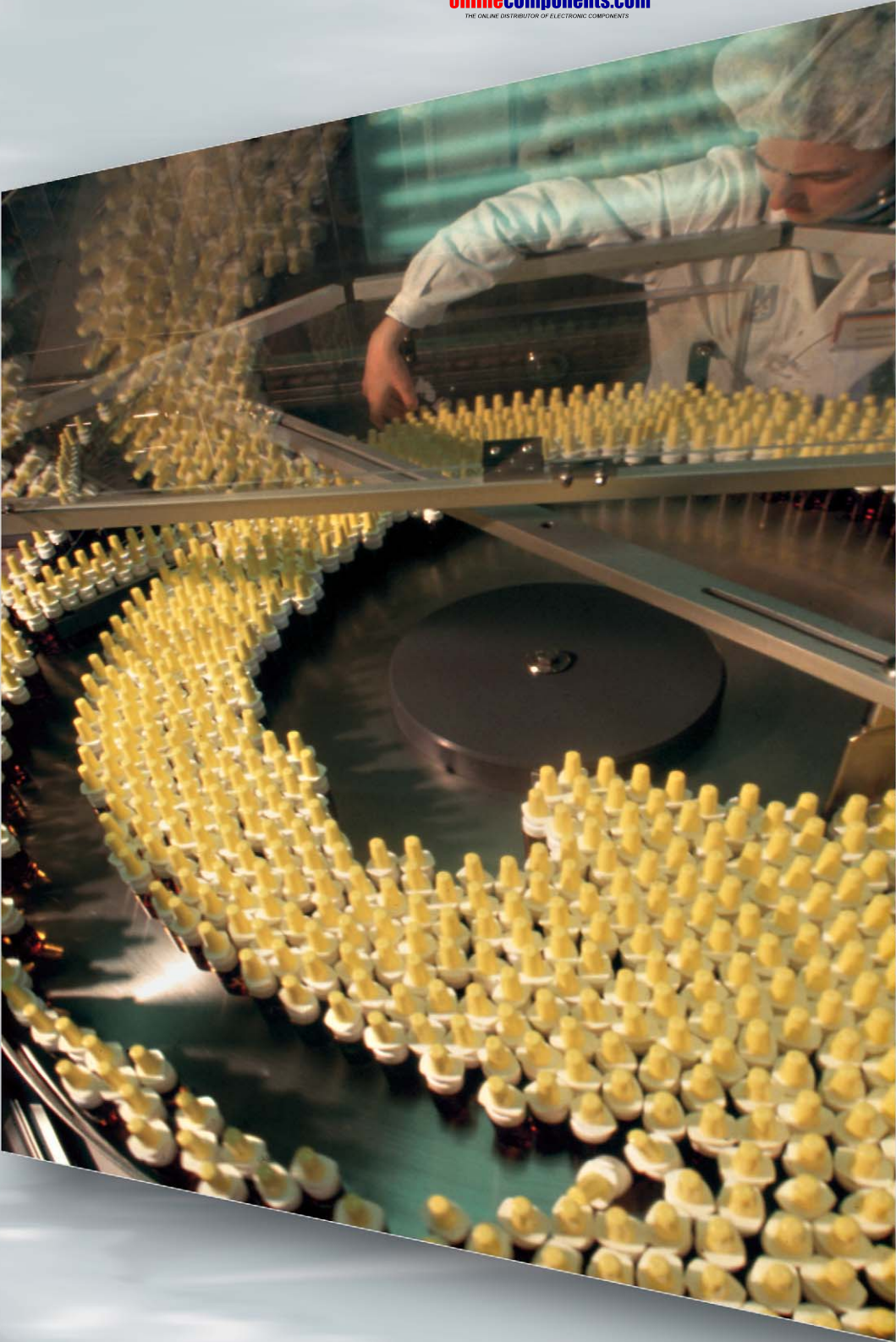
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Material: Polyamide 6/66 white/markings black	Marking per tree	Type	Part no.	Std. pack
unmarked		9704 A	04.241.1150.0	25
marked with the same number	1 1 1 1 1 1 1 1 1 1	9704 A/1 B	04.841.1150.0	25
	2 2 2 2 2 2 2 2 2 2	9704 A/2 B	04.841.1250.0	25
	3 3 3 3 3 3 3 3 3 3	9704 A/3 B	04.841.1350.0	25
	4 4 4 4 4 4 4 4 4 4	9704 A/4 B	04.841.1450.0	25
	5 5 5 5 5 5 5 5 5 5	9704 A/5 B	04.841.1550.0	25
	6 6 6 6 6 6 6 6 6 6	9704 A/6 B	04.841.1650.0	25
	7 7 7 7 7 7 7 7 7 7	9704 A/7 B	04.841.1750.0	25
	8 8 8 8 8 8 8 8 8 8	9704 A/8 B	04.841.1850.0	25
	9 9 9 9 9 9 9 9 9 9	9704 A/9 B	04.841.1950.0	25
	0 0 0 0 0 0 0 0 0 0	9704 A/0 B	04.841.2050.0	25
	marked with consecutive numbers	1 2 3 4 5 6 7 8 9 0	9704 A/1-0 B	04.841.2150.0	25
marked with the same capital letters	A A A A A A A A A A	9704 A/AG B	04.841.2250.0	25
	B B B B B B B B B B	9704 A/BG B	04.841.2350.0	25
	C C C C C C C C C C	9704 A/CG B	04.841.2450.0	25
	D D D D D D D D D D	9704 A/DG B	04.841.2550.0	25
	E E E E E E E E E E	9704 A/EG B	04.841.2650.0	25
	F F F F F F F F F F	9704 A/FG B	04.841.2750.0	25
	G G G G G G G G G G	9704 A/GG B	04.841.2850.0	25
	H H H H H H H H H H	9704 A/HG B	04.841.2950.0	25
	I I I I I I I I I I	9704 A/IG B	04.841.3050.0	25
	J J J J J J J J J J	9704 A/JG B	04.841.3150.0	25
	K K K K K K K K K K	9704 A/KG B	04.841.3250.0	25
	L L L L L L L L L L	9704 A/LG B	04.841.3350.0	25
	M M M M M M M M M M	9704 A/MG B	04.841.3450.0	25
	N N N N N N N N N N	9704 A/NG B	04.841.3550.0	25
	O O O O O O O O O O	9704 A/OG B	04.841.3650.0	25
	P P P P P P P P P P	9704 A/PG B	04.841.3750.0	25
	Q Q Q Q Q Q Q Q Q Q	9704 A/QG B	04.841.3850.0	25
	R R R R R R R R R R	9704 A/RG B	04.841.3950.0	25
	S S S S S S S S S S	9704 A/SG B	04.841.4050.0	25
	T T T T T T T T T T	9704 A/TG B	04.841.4150.0	25
	U U U U U U U U U U	9704 A/UG B	04.841.4250.0	25
	V V V V V V V V V V	9704 A/VG B	04.841.4350.0	25
	W W W W W W W W W W	9704 A/WG B	04.841.4450.0	25
	X X X X X X X X X X	9704 A/XG B	04.841.4550.0	25
	Y Y Y Y Y Y Y Y Y Y	9704 A/YG B	04.841.4650.0	25
	Z Z Z Z Z Z Z Z Z Z	9704 A/ZG B	04.841.4750.0	25
marked with the same lower case letters	a a a a a a a a a a	9704 A/AK B	04.841.4850.0	25
	b b b b b b b b b b	9704 A/BK B	04.841.4950.0	25
	c c c c c c c c c c	9704 A/CK B	04.841.5050.0	25
	d d d d d d d d d d	9704 A/DK B	04.841.5150.0	25
	e e e e e e e e e e	9704 A/EK B	04.841.5250.0	25
	f f f f f f f f f f	9704 A/FK B	04.841.5350.0	25
	g g g g g g g g g g	9704 A/GK B	04.841.5450.0	25
	h h h h h h h h h h	9704 A/HK B	04.841.5550.0	25
	i i i i i i i i i i	9704 A/IK B	04.841.5650.0	25
	j j j j j j j j j j	9704 A/JK B	04.841.5750.0	25
	k k k k k k k k k k	9704 A/KK B	04.841.5850.0	25
	l l l l l l l l l l	9704 A/LK B	04.841.5950.0	25
	m m m m m m m m m m	9704 A/MK B	04.841.6050.0	25
	n n n n n n n n n n	9704 A/NK B	04.841.6150.0	25
	o o o o o o o o o o	9704 A/OK B	04.841.6250.0	25
	p p p p p p p p p p	9704 A/PK B	04.841.6350.0	25
	q q q q q q q q q q	9704 A/QK B	04.841.6450.0	25
	r r r r r r r r r r	9704 A/RK B	04.841.6550.0	25
	s s s s s s s s s s	9704 A/SK B	04.841.6650.0	25
	t t t t t t t t t t	9704 A/TK B	04.841.6750.0	25
	u u u u u u u u u u	9704 A/UK B	04.841.6850.0	25
	v v v v v v v v v v	9704 A/VK B	04.841.6950.0	25
	w w w w w w w w w w	9704 A/WK B	04.841.7050.0	25
	x x x x x x x x x x	9704 A/XK B	04.841.7150.0	25
	y y y y y y y y y y	9704 A/YK B	04.841.7250.0	25
	z z z z z z z z z z	9704 A/ZK B	04.841.7350.0	25
marked with the same symbols	+ + + + + + + + + +	9704 A/+ B	04.841.7450.0	25
	- - - - - - - - - -	9704 A/- B	04.841.7550.0	25
	/ / / / / / / / / /	9704 A// B	04.841.7650.0	25
	. . . . . . . . . .	9704 A/. B	04.841.7750.0	25
1 set of the same numbers = 10 x 25 strips = 2500 numbers 1 set of cap. letters = 26 x 25 strips = 6500 letters 1 set of lower case letters = 26 x 25 strips = 6500 letters	1 1 1 ... 0 0 0 A A A ... Z Z Z a a a ... z z z	111 to 000 A to Z GB a to z KB	04.841.9050.0 04.841.9150.0 04.841.9250.0	1 1 1

wiecon





Electronic components



electronics

<p>Decentralised I/O module</p>	<p><i>ricos</i></p>	
<p>Relay module Terminal relay 6,2 mm</p> <p>Time relay</p> <p>Solid state relays</p>	<p><i>flare</i></p> <p>WEG RAB WR WRS</p> <p><i>flare</i> WRS</p> <p><i>flare</i> WRS M-PB</p>	
<p>Analog measurement technology Signal Conditioners</p> <p>Wieland Analog Systems</p>	<p><i>dipos</i></p> <p><i>cores</i> AKB AKT UET UET-P KSQ / dipos <small>KSQ</small></p>	
<p>Wieland power Supply Switched mode power supply units</p>	<p><i>wipos</i> WPS NTU BGL FSR</p>	
<p>Wieland function module</p>	<p><i>ce mos</i> TMS LPB / SBS SSM DNU / DSU DRA</p> <p>SSW</p>	
<p>Wieland interface system</p>	<p>D-SUB FLK S5</p>	
<p>Electronic empty housing</p>	<p><i>dipos</i> WEB WEB 1001/1002 WEG wieBOX</p> <p>Subject to change without prior notice</p>	

electronics

<ul style="list-style-type: none"> ● ● ricos ● ricos ● ricos ● ricos ● ricos ● ricos ● 	<ul style="list-style-type: none"> Introduction to field bus systems Field bus couplers Decentralised I/O module Binary I/O modules Function modules Analogue I/O- modules Compact modules General Data 	<ul style="list-style-type: none"> Page 404 Page 410 Page 412 Page 416 Page 422 Page 424 Page 428 Page 430
<ul style="list-style-type: none"> ● ● flare ● flare MOVE ● WEG ● RAB ● WR ● WRS ● flare ● WRS ● ● flare ● WRS ● M-PB ● 	<ul style="list-style-type: none"> Introduction to relay technology Mechanical terminal relay Plug-in terminal relay Single relay in enclosed housing Multipole relay modules 24 V Multipole relay modules 115 V / 230 V Wieland relay system Time relay 6,2 mm Time relay General data Introduction to solid state relay technology Solid state relay Solid state relay Multipole solid stat relay General data 	<ul style="list-style-type: none"> Page 438 Page 442 Page 444 Page 446 Page 454 Page 456 Page 460 Page 462 Page 463 Page 464 Page 477 Page 478 Page 479 Page 482 Page 488
<ul style="list-style-type: none"> ● ● dipos ● ● cores ● AKB ● AKT ● UET ● UET-P ● KSQ / dipos KSQ ● 	<ul style="list-style-type: none"> Introduction to analog measurement technology RTD/Pt100 / TC General data Instrument amplifier for RTD/Pt100 Analog conversion module Analog isolating module Isolating trip amplifier Isolating trip amplifier, isolated Constant voltage source General data 	<ul style="list-style-type: none"> Page 496 Page 498 Page 501 Page 502 Page 504 Page 505 Page 506 Page 507 Page 508 Page 510
<ul style="list-style-type: none"> ● ● wipos ● WPS ● NTU ● BGL ● FSR ● 	<ul style="list-style-type: none"> Introduction to <i>wipos</i> switch mode power supply units Single phase/three phase switched mode Power supply 24 V / 0,3-1 A Universal power transformer Rectifier module Fixed voltage regular General data 	<ul style="list-style-type: none"> Page 516 Page 518 Page 524 Page 525 Page 526 Page 528 Page 530
<ul style="list-style-type: none"> ● ● ceмос ● TMS ● LPB / SBS ● SSM ● DNU / DSU ● DRA ● ● SSW ● 	<ul style="list-style-type: none"> Introduction to <i>ceмос</i>/thermal overload/system monitoring Electronic contactors Thermistor overload relay Lamp test module/fuse module Centralised fault indication Three phase system monitoring / fuse monitoring Rotation indicator General data Introduction to SSW interface convertor Interface converter General data 	<ul style="list-style-type: none"> Page 536 Page 537 Page 539 Page 540 Page 541 Page 542 Page 543 Page 544 Page 552 Page 553 Page 555
<ul style="list-style-type: none"> ● ● D-SUB ● FLK ● S5 ● 	<ul style="list-style-type: none"> Introduction to interface modules D-SUB on screw terminal IDC header on screw terminal Interface modules and I/O plug system for Siemens S5 General data 	<ul style="list-style-type: none"> Page 559 Page 560 Page 561 Page 562 Page 570
<ul style="list-style-type: none"> ● ● dipos ● WEB ● WEB 1001/1002 ● WEG ● wieBOX ● Electronic empty housing ● 	<ul style="list-style-type: none"> Introduction to empty housing systems General data 	<ul style="list-style-type: none"> Page 578 Page 580 Page 584 Page 588 Page 592 Page 594 Page 596 Page 600

ricos

Introduction to field bus systems

Field bus couplers

Digital I/O's

Function modules

Analogue I/O's

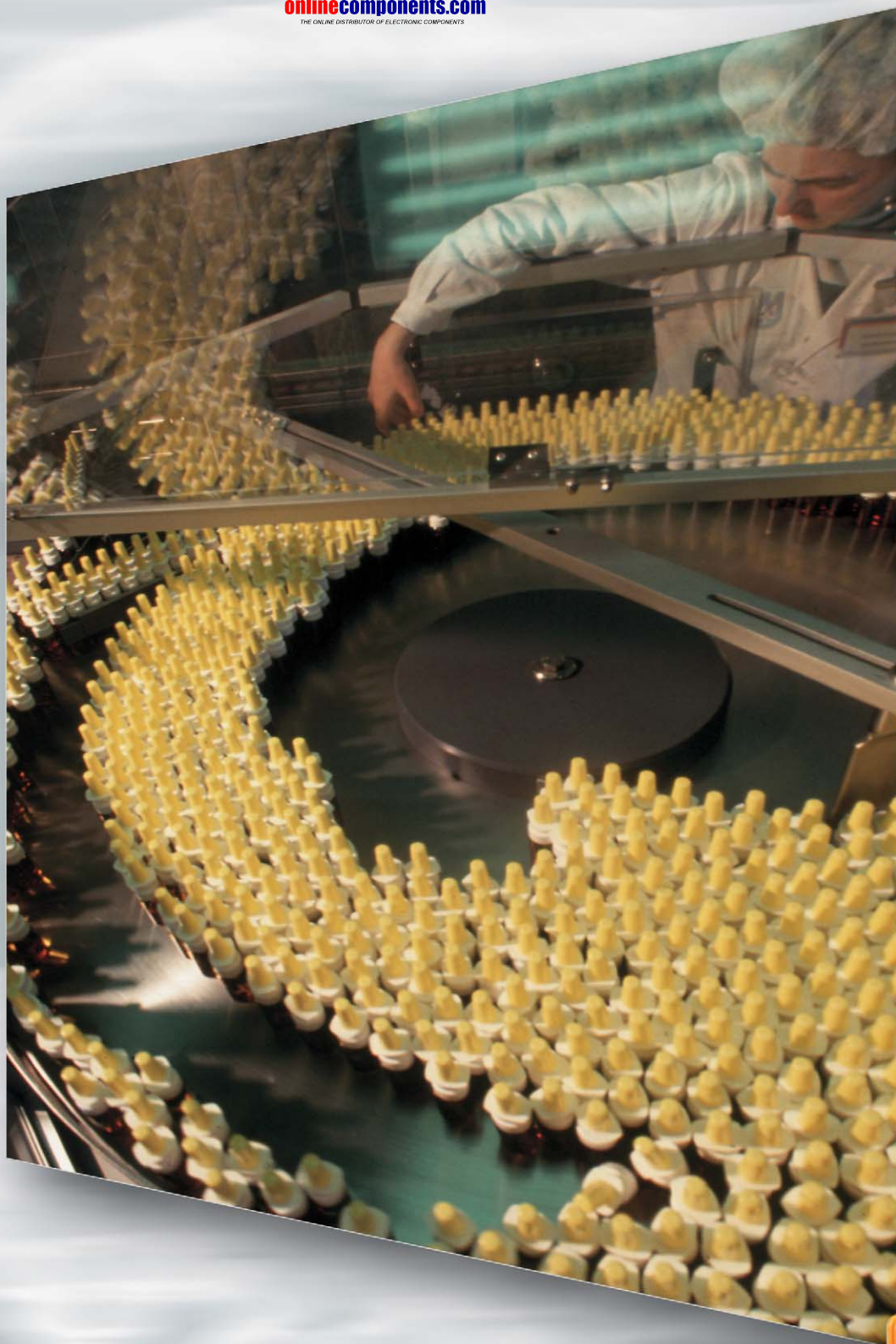
Compact module

General data

ricos offers

- Field bus couplers for all major field bus systems
- Freely configurable modules for digital/analogue systems
- Modular assembly of field bus nodes
- Spring-clamp terminal for secure and rapid connection
- Economy bus couplers
- Components can be replaced without disconnecting the wiring
- High degree of EMC resistance due to integrated earth connection to the mounting rail
- Compact housing dimensions
- Universal labelling

All Wieland Components which require **CE** general certification are **CE** certified, and identified with the **CE** logo.



Electronic Components

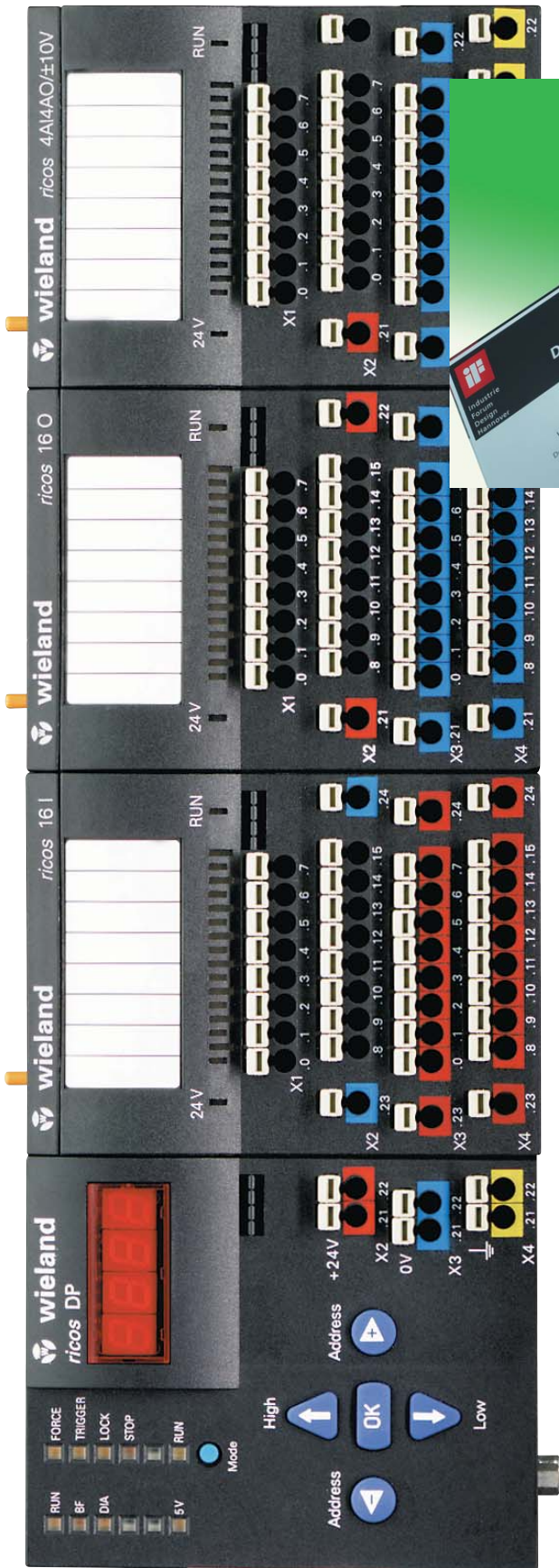
Decentralised I/O module



Living with the variety and competition of the fieldbus systems

ricos

competition.com
THE ONLY DISTRIBUTOR OF ELECTRONIC COMPONENTS



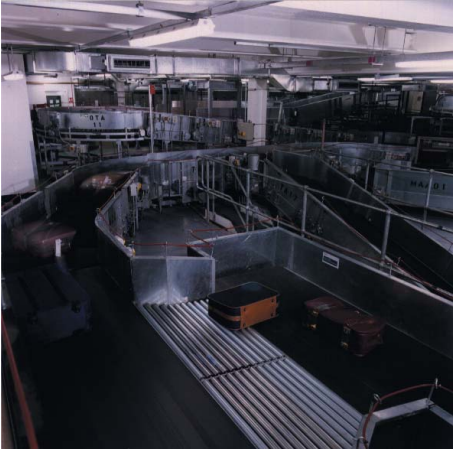
One of the remarkable features of a fieldbus system is its higher performance levels as compared to traditional wiring technology. A key advantage of fieldbus technology is that signal processing is possible in field devices, allowing intelligence to be distributed into the field.

A great number of functional and topological variations are available in today's market. This wide variety of hardware and protocols has formed due to the many different application requirements, company preferences, and the regulatory environment.

Wieland, as a globally active company, meets all fieldbus requirements and – with the **ricos** system – offers the user a universal system:

- Fieldbus couplers for all major fieldbus systems
- Freely configurable modules for binary and analog signals
- Modular-type combined fieldbus nodes
- The diagnosis tools integrated into the buscoupler provide start-up functions such as Force, Trigger and Lock without requiring further software
- Complete range of functionalities
- Spring cage clamp terminals for fast and safe connections
- Economy buscoupler to operate all functionalities
- Replacing function cards without disconnecting the wires
- High EMI resistance due to integrated diversion to the mounting rail
- Compact housing dimensions
- Consistent marking

ricos



Heathrow airport:
ricos insures proper luggage routing



Saving space and costs in paper manufacturing



Getting fit with **ricos** – fast and safe

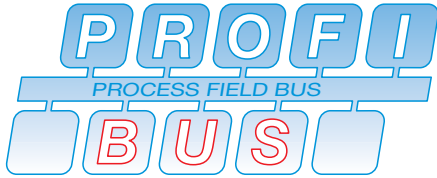
A key feature of the **ricos** remote I/O system is its high level of reliability. This reliability level is the result of the quality of the electronic components used in the system, as well as the advanced techniques used during the manufacturing process. It is the combination of this reliability and resulting safety record which has convinced our customers to use the **ricos** system.

One such customer, Winkler+Dünnebier, manufactures special machinery for the production of envelopes and hygiene items. The company is the international market leader in these sectors. In paper manufacturing alone their marketshare is approximately two thirds of the global market. When developing their "hygiene" business division W+D were in unknown territory as most manufactures of this type product had traditionally built all of their own machinery. The way they were able to change this custom and gain their

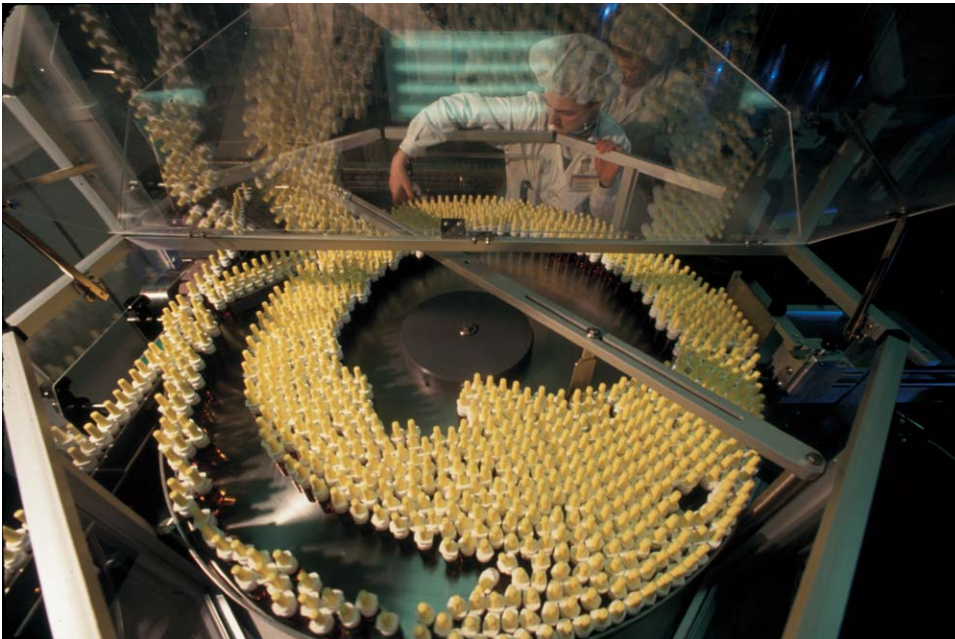
international leadership position was through the revolutionary way they built their machines. W+D decided to produce the machines for their hygiene division using a modular concept. This design allowed for a high degree of flexibility and individual end product options.

During one machine development project, W+D was searching for a distributed connection of actuator and sensor technology via PROFIBUS. Using this system they wanted to bring their modular concepts to cover not only the mechanical aspects, but also the control technology of their machines. After comparing all available I/O systems, wieland's **ricos** system was chosen for use in the hygienes division. For a manufacturer of special purpose machines the block design of the **ricos**

modules is a better fit than the slice design. Since the exact number of inputs and outputs cannot be planned in advance it is necessary to plan on reserve channels. For this reason, **ricos** modules were of great interest, as its channels can be used both as inputs and outputs. The decisive factor for choosing the **ricos** system was its clear and easy to use wiring system.



PROFIBUS DP (distributed I/Os), defined in DIN 19 245, part 3, and integrated in the European field bus standard EN 20 170, is a PROFIBUS variant with an optimized transmission rate to serve the needs of the object-oriented system sector and the sensor-actuator sector. It is designed to fit the requirements of the fast, efficient data exchange between the automation devices and the distributed devices such as binary or analog input/output modules and drives in timesensitive applications,



while the layer 7 service is not used. This shift of PROFIBUS DP into the field level enables cost savings in cabling. The field bus PROFIBUS DP is not new, but uses well-proven characteristics of the PROFIBUS transmission technology and the bus access protocol (DIN 19245, part 1 and 2). It is reduced by certain functions in order to meet the high requirements of the system responsetime in the field of distributed I/O devices.

It is also possible to operate PROFIBUS FMS and PROFIBUS DP in one single cable. And there are especially interesting options when using so-called combination devices which use the characteristics of both variants.

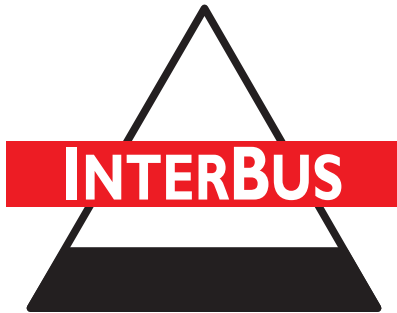
The remarkable features of PROFIBUS DP are:

- Short response times
- High immunity
- Replaces the cost-intensive measured value transmission by a 0(4) to 20mA technology

Data transfer via distributed devices (slaves) is mainly done cyclically in the master-slave procedure. The central control system (master) reads the input information of the slaves and writes the output data to the slaves. PROFIBUS DP V1 also supports, among others the acyclic data interchange PROFIBUS DP operates with a transmission rate of up to 12 Mbits/s and enables the transmission of 1024 bit input/output data distributed among 32 nodes in less than 2 ms.

Characteristics:

- Line structure (with passive bus coupling)
- Max. length of 9.6 km in an electrical installation; up to 90 km in an optical one
- Area-covering networking by subdividing the system in 5 bus segments (via repeater) of up to 1.5 Mbit/s
- Number of the repeaters used and therefore the transmission distance depending on the baud rate
- Max. 124 nodes (throughout all bus segments), max. 32 nodes per segment
- Bus access in the token passing procedure; normal operation only with a master and polling request
- High transmission rate (real-time capability of PLCs is the major motive for DP)
- Data transmission via two-wire cable or optical fibre (active bus coupling)
- Electrical installation with screened, twisted-pair cable and RS485 interface
- Bit coding in NRZ code (non return to zero)
- I/O and field devices can be coupled and uncoupled during operation
- Extensive diagnostic options
- Open system (DIN E 19 245; EN 50 170)



The INTERBUS system was developed especially for machine system applications and fast processes.

This fieldbus system is therefore mainly used in automated manufacturing on system level, and as object-oriented fieldbus used to connect sensors and actuators. Standard PLC applications and industrial PC applications are possible with a minimum of costs and effort [Phoe97] [BaMü98].



The INTERBUS is set up from point-to-point connections as actively coupled ring. The bus nodes use separate lines each in both directions. This avoids a return from the last to the first node as usually required in ring-connected systems. The forward and return lines are both carried in one cable. This makes the INTERBUS resemble a public service bus in terms of installation, as only one cable is drawn from node to node. A complete bus system is thus implemented with different bus nodes, called interface module, bus coupler, bus network devices and local bus devices.

An interface module (master) operates as central unit for data communication in the bus network. The interface module also connects the INTERBUS system with the higher-level control system. The remote bus network can be set up with max. 512 stations and max. 400 m distance

between 2 nodes with a data transmission rate of 500 kbit/s. The RS485 standard is used for data transmission on a two-wire line. The remote bus nodes are all equipped with a separate auxiliary power supply and function as repeaters due to their active couplings, thus enabling long distances. They are furthermore electrically isolated from the advancing INTERBUS segment. Remote bus nodes are both input/output devices and couplers of lower-level sub-rings. There are also mixed versions, the so-called I/O bus couplers.

As INTERBUS does not define any addresses for the nodes in the protocol, the max. number of bus nodes is determined by the master firmware. Implemented firmware allows up to 512 remote bus network nodes. In theory, a distance of 102 km is therefore possible for an INTERBUS system using copper wires. However, a max. system expansion of 13 km is currently guaranteed only. Longer distances can be achieved by using other transfer media such as fiber optic cables which currently allow total expansions of 100 km.

Characteristics:

- Ring-type structure with active node coupling
- Bus network with max. 512 nodes, max. distance of 400 m, max. total expansion of 13 km with copper cables, and 100 km with fiber optic cable
- Local bus with 8 nodes, max. distance of 1.5 m, max. total expansion of 10 m
- Node addressing according to their order assignment in the ring
- Transmission rate: Bus network with 500 kbit/s, local bus with 300 kbit/s
- Bus network using an interface based on RS485 two-wire technology
- Local bus using CMOS level, and 4 wire pairs for transmission
- Possible degree of protection up to IP 65
- High data security; several protection mechanisms (such as CRC)
- Open system (DIN E 19 258; EN 50 254)

CAN

In 1983 the automotive industry phrased their demand for a bus system to be used in motor vehicles. An electrical two-wire bus was to replace the extensive cable harnesses used to connect electrical systems. This was absolutely necessary, as the classical cable harnesses in motor vehicles had already reached lengths of more than 2 km and a weight over 100 kg. Requirements came up that could not be met by the bus systems available at that time.

In 1985 the solution in form of the Controller Area Network (CAN) was presented. CAN was developed in a cooperation between Robert Bosch GmbH and INTEL Semiconductor. In the meantime, CAN has gained a wide field of applications, not only in the motor vehicle technology, but also in the automation technology. Nowadays we find CAN in mobile systems, as machine-internal or system-internal communication system, in production automation, in the bottom field segment of process automation, even in building instrumentation and control, and in many other applications.

Since 1992 the user organization CiA (CAN in automation) has existed. More than 200 manufacturers and users of automation devices, sensors, actuators, software and services are participating in it [Trum95]. CAN is internationally standardized in ISO 11898 and is therefore an open bus system.

The reason for the widespread acceptance of CAN lies not only in the mentioned performance features, but especially also in the availability of very low-cost circuits due to the high quantities guaranteed in the automotive industry [Law2/97]. Characteristics:

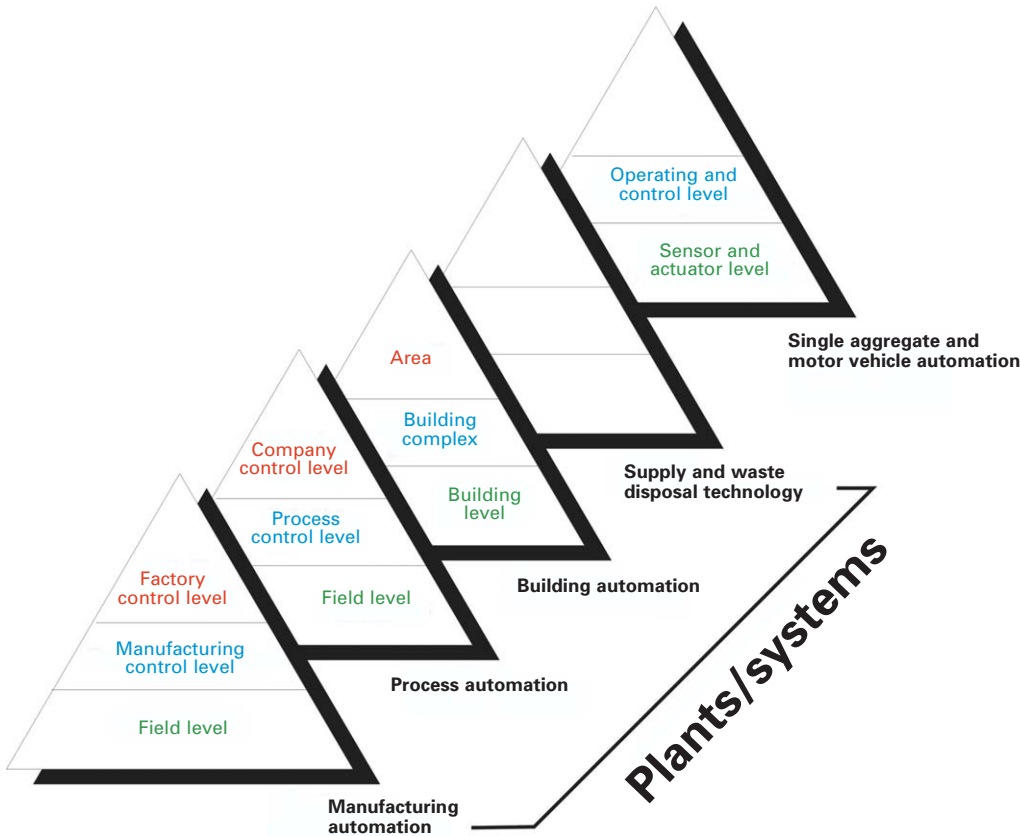
- Line structure
(with passive bus coupling)
- Number of nodes limited by the performance of the driver modules only
- Expansion depending on the transmission rate 40 m at 1 Mbit/s; 1000 m at 50 kbit/s
- Twisted-pair cables with terminating resistors and optical fibre
- Object-oriented messages, broadcasting and multicasting with acceptance check
- Multi-master network
- Bus access via bit-by-bit arbitration according to the CSMA/CA procedure; real-time capable for high-priority messages
- Max. transmission rate of 1 Mbit/s
- Very high data security (HD = 6); error detection and error signaling; automatic power-off of defect stations (node guarding)
- Different chips and micro-controllers support the protocol
- Open system (ISO 11898 and CiA DS 301)



The major requirements:

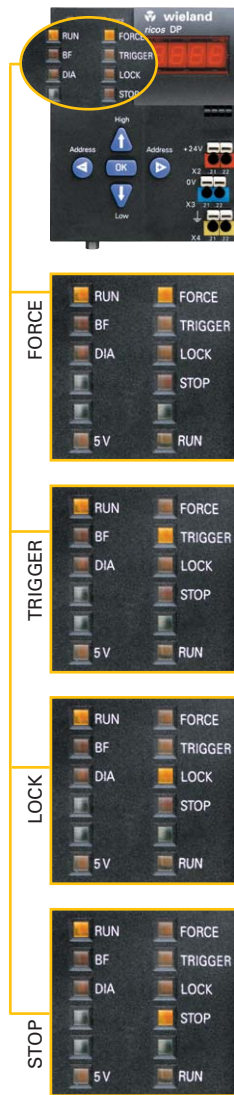
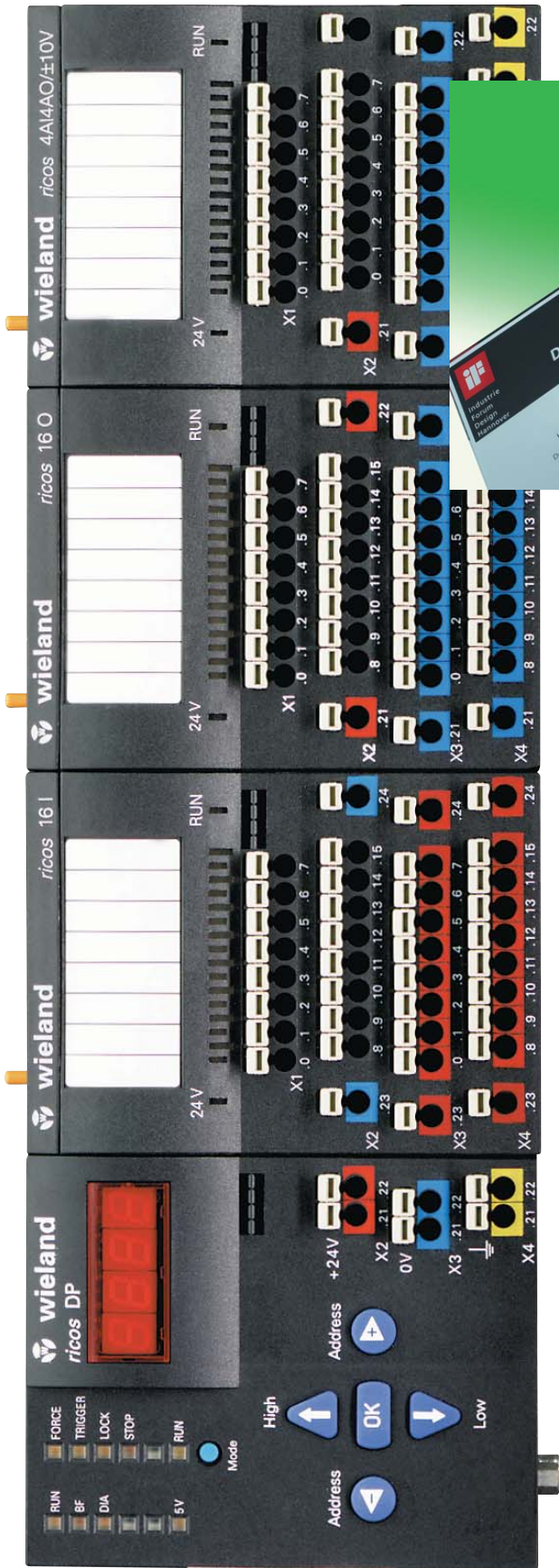
- High protection against electromagnetic interference
- Real-time capability for fast procedures such as ignition and ABS
- High reliability
- Favorable price for large batch applications

ricos



	Plant – (System) Automation					Stand-alone automation	
Communication levels	Production (solid goods)	Process (gas, fluid, steam...)	Building	Supply and waste disposal	Environment monitoring	Machines devices aggregates	vehicles, means of transport
WAN Wide Area Network	high-speed glass fibre (FDDI), Internet (www)						
LAN Local Area Network	Industry-Ethernet						
	MMS-Companion Standard: Robot, NC, PLC	MMS-Companion Standard: Process, Control					
FAN (Field bus)–system level	PROFIBUS (FMS) FP INTERBUS MODBUS FF (IEC NORM)	PROFIBUS (FMS) FP P-NET ARCNET FF (IEC NORM)	PROFIBUS (FMS) LON	PROFIBUS (FMS) DIN MESSBUS	PROFIBUS (FMS) DIN MESSBUS		
Object-oriented system level	PROFIBUS (DP) INTERBUS CAN SERCOS	PROFIBUS (DP) HART (BUS) BITBUS CAN	LON EIB CAN	DIN MESSBUS	DIN MESSBUS	PROFIBUS (DP) INTERBUS SERCOS	CAN P NET
Sensor/actuator–system level	AS-INTERFACE INTERBUS-LOOS	HART (PKT/PKT) PROFIBUS PA	EIB M-BUS Ebus	DIN MESSBUS M-BUS	DIN MESSBUS	AS-INTERFACE INTERBUS-LOOS M-BUS Ebus	

ricos

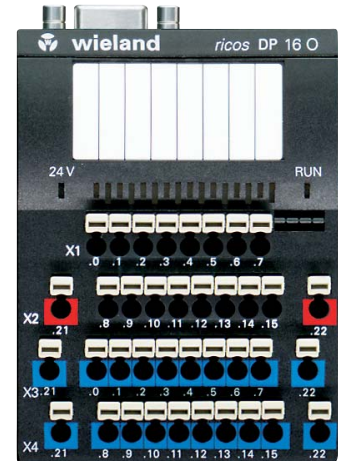


With or without a fieldbus being connected (offline), binary and analog I/O channels can be operated manually.
 → in the FORCE mode

The last 20 process images of the node can be recorded and displayed
 → in the TRIGGER mode

Analog and binary I/O channels can be freely chosen and "frozen" to a defined switching status in order to simulate certain elements of the system.
 → in the LOCK mode

The outputs are switched off and the inputs are faded out.
 → STOP mode.



Would you like to ...

- ...use more than one fieldbus?
- ...reduce your start-up times?
- ...simulate signals offline – on site without programming unit?
- ...set I/Os without PLC?
- ...read analog values on site?
- Start-up without field bus connection
- Troubleshooting on site
- Displaying signal states of all inputs and outputs for binary and analog values

... then use the **ricos** bus coupler with operating and display functionality!

The **ricos** buscoupler provides you with:

- Connection to the most common fieldbus systems such as PROFIBUS DP, Interbus, CANopen and DeviceNet
- Modules for fast mounting to DIN rails or panel mount
- Wiring with spring connectors
- Supplied with open clamping body
- Module wiring at the front
- Pluggable potential distributors on the module
- Compact module dimensions
- Up to 8 modules can be connected to a bus coupler in line, enabling up to 128 I/O signals per bus node
- Electronics can be replaced without disconnecting the wiring

If you do not require the operating and display functionality of the standard **ricos** buscoupler ...

... then we recommend our **ricos** economy buscoupler.

If your control requirements are more complex ...

... then we can offer you our **ricos** compact modules.

ricos compact modules

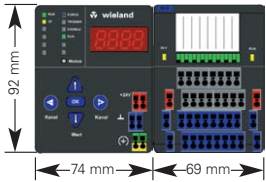
- 4 compact module types each used for digital signal sensing in the fieldbus systems:
- PROFIBUS DP
 - Interbus
 - CANopen
 - DeviceNet
- All modules are slaves with buscoupler functionality
- Efficient and space-saving extension for only a few I/Os

Distributed I/O Modules

Buscoupler

ricos

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS



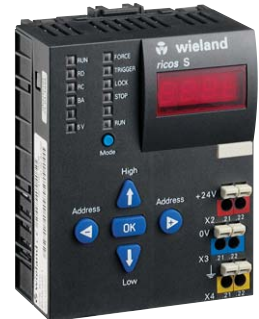
Depth: 51 mm
(incl. mounting rail TS 35/7.5 mm)

Dimensions (mm): W x H x D
74 x 92 x 51



Modular buscoupler PROFIBUS DP

CE; Approvals: ULus, Profibus certification



Modular bus coupler Interbus

CE; Approvals: ULus, Interbus certification

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Buscoupler with diagnosis function	BC DP	83.030.0000.1	1	BC S	83.031.0000.1	1
	Mode display:			Mode display:		
	FORCE mode: LED yellow			FORCE mode: LED yellow		
	TRIGGER mode: LED yellow			TRIGGER mode: LED yellow		
	LOCK mode: LED yellow			LOCK mode: LED yellow		
	STOP mode: LED yellow			STOP mode: LED yellow		
	RUN mode: LED green			RUN mode: LED green		
Wiring diagrams, derating curves	see page 430			see page 430		
System data						
Max. number of nodes	126			256		
Transmission medium	screened copper cable 2 x 0.25 mm ² /AWG 23			screened copper cable 5 x 0.25 mm ² /AWG 23		
Max. network expansion	100 m–1200 m (depending on baud rate/cable)			400 m (remote bus)		
Baud rate	9.6 kBaud...12 Mbaud			500 kBaud		
Internal bus refresh	2 ms			2 ms		
Bus connection	1 x D-SUB 9, screened female connector			2 x D-SUB 9, screened female and male connectors		
Technical information						
Max. number of I/O bytes	64 E-Byte/64 A-Byte			64 E-Byte/64 A-Byte		
Number of I/O modules per node	8			8		
Number of digital I/O points per node	128			128		
Number of analog I/O points per node	32			32		
Address setting	3...126 (via keyboard)			automatically as per system		
Stet	PC or PLC			PC or PLC		
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple			24 V DC, ±20 %, max. 5 % residual ripple		
Current input	< 125 mA (at 24 V and without I/O modules)			< 125 mA (at 24 V and without I/O modules)		
	< 500 mA (at 24 V with I/O modules)			< 500 mA (at 24 V with I/O modules)		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 kV air; 4 kV contact			EN 61000-4-2; 8 kV air; 4 kV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	2 kV accord. to DIN EN 61000-4-4			2 kV accord. to DIN EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area- fine stranded / solid	26 –14 AWG / 26 –16 AWG			26 –14 AWG / 26 –16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	–25 °C...+75 °C (accord. to DIN 40040)			–25 °C...+75 °C (accord. to DIN 40040)		
Bus-specific status display	RUN LED green		RUN	RUN LED green		RUN
	bus error LED red		BF	remote bus disabled LED red		RD
	diagnosis LED red		DIA	remote bus connected LED green		RC
	operating voltage LED green		5 V	bus access LED green		BA
				operating voltage LED green		5 V
Accessories						
Bus connector, vertical	83.030.0010.0 (node)			83.031.0010.0 (input line)		
Bus connector, vertical	83.030.0011.0 (termination)			83.031.0010.0 (output line)		
Bus connector, horizontal (pending)	83.030.0012.0 (switch)					
Manual, German	05.591.3389.0			05.591.3389.0		
Manual, English	05.562.1389.0			05.562.1389.0		
GSD file and Word template for labels	05.591.3255.0			05.591.3255.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		



**Modular buscoupler
DeviceNet**

CE; Approvals: US

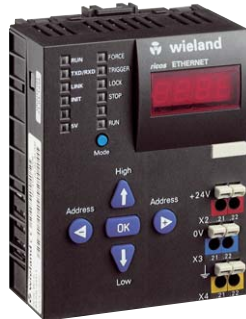


**Modular buscoupler
CANopen**

CE; Approvals: US in preparation

Dimensions (mm): W x H x D
74 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Buscoupler with diagnosis function	BC-DEVICENET	83.032.0000.1	1	BC-CANOPEN	83.033.0000.1	1
Mode display:	incl. 1 busconnector			incl. 1 busconnector		
	FORCE mode: LED yellow			FORCE mode: LED yellow		
	TRIGGER mode: LED yellow			TRIGGER mode: LED yellow		
	LOCK mode: LED yellow			LOCK mode: LED yellow		
	STOP mode: LED yellow			STOP mode: LED yellow		
	RUN mode: LED green			RUN mode: LED green		
Wiring diagrams, derating curves	see page 430			see page 430		
System data						
Max. number of nodes	64 with repeater			256		
Transmission medium	screened copper cable trunk line AWG 15, 18 screened copper cable drop line AWG 22, 24			screened copper cable 3 x 0.25 mm ² /AWG 23		
Max. network expansion	100 m–500 m (depending on baud rate / cable)			100 m–500 m (depending on baud rate / cable)		
Baud rate	125/250/500 kBaud (setting via keyboard)			10 kBaud...1 MBaud (setting via keyboard)		
Internal bus refresh	2 ms			2 ms		
Bus connection	5pole connector, screw			5pole connector, screw		
Technical information						
Max. number of I/O bytes	64 E-Byte/64 A-Byte			9 R-PDOs; 9 T-PDOs		
Number of I/O modules per node	8			6		
Number of digital I/O points per node	128			96		
Number of analog I/O points per node	32			24		
Address setting (MAC ID)	1...63 (via keyboard)			1...126 (via keyboard)		
Stet	PC or PLC			PC or PLC		
Operating voltage	24 V DC, ±20%, max. 5% residual ripple			24 V DC, ±20%, max. 5% residual ripple		
Current input	< 125 mA (at 24 V and without I/O modules) < 500 mA (at 24 V with I/O modules)			< 125 mA (at 24 V and without I/O modules) < 500 mA (at 24 V with I/O modules)		
Insulation voltage	350 V AC, 50 Hz (system/supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	2 kV accord. to DIN EN 61000-4-4			2 kV accord. to DIN EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	–25 °C...+75 °C (accord. to DIN 40040)			–25 °C...+75 °C (accord. to DIN 40040)		
Bus-specific status display	RUN LED green		RUN	RUN LED green		RUN
	status to master LED green/red		NET	network status LED green/red		NET
	ready for operation LED green/red		MOD	module status LED green/red		MOD
	operating voltage LED green		5 V	operating voltage LED green		5 V
Accessories						
Bus connector	25.323.3501.0			25.323.3501.0		
Manual, German	05.591.3389.0			05.591.3389.0		
Manual, English	05.562.1389.0			05.562.1389.0		
EDS file and Word template for labels	05.591.3255.0			05.591.3255.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		



Modular Buscoupler Ethernet TCP/IP

CE, Approvals: CE, cUL_{us} pending

Dimensions (mm): W x H x D 74 x 92 x 51
 (incl. mounting rail TS 35; DIN EN 60715)

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Buscoupler with diagnostic features	BC-Ethernet	83.034.0000.1	1			
Mode display:						
	FORCE mode: LED yellow					
	TRIGGER mode: LED yellow					
	LOCK mode: LED yellow					
	STOP mode: LED yellow					
	RUN mode: LED green					
System Data						
Max. number of nodes	limited by Ethernet specifications					
Transmission medium	CAT5 twisted pair 10/100 base T					
Protocols	MODBUS/TCP, HTTP, Boot-P					
Baud rate	10/100 Mbit/Autodetection					
Internal Bus Refresh	2 ms					
Bus connection	RJ 45					
Technical Information						
Max. number of I/O Bytes	64 E-Byte/64 A-Byte					
Max. number of I/O modules per node	8					
Max. number of digital I/O points per node	128					
Max. number of analog I/O points per node	32					
Address setting	keypad & Boot P					
Configuration	PC/PLC					
Power Input	24 V DC ±20%, max 5% residual ripple					
Power Consumption	<3.5 W (without I/O module)					
Isolation voltage	350 V AC, 50 Hz (system/supply)					
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178					
Electrostatic discharge	EN 61000-4-2; 8 KV air; KV contact					
Electromagnetic fields	ENV 50140; 10 V/m; 30 ... 1000 MHz					
Immunity/emittedinterference	EN 50082-2/EN 55011, limit value class A, group 1					
Burst	2 kV accord. to DIN EN 61000-4-4					
Connection Style	spring connection					
Cross-section area fine stranded/solid	0.14 – 1.5 mm ² / 26-14 AWG / 0,5 – 2,5 mm ² / 26-16 AWG					
Ambient temperature	0° C ... +55° C					
Storage temperature	-25° C ... +70° C					
Bus-specific status display	RUN	LED yellow	RUN			
	Operating voltage	LED green	TxD/RxD			
	Net Available	LED green	LINK			
	Operating voltage	LED yellow	5 V			
	Fieldbus not initiated	LED red	INIT			
Accessories						
Bus connector, vertical						
Bus connector, vertical						
Bus connector, horizontal (pending)						
Manual, German		05.591.3389.0				
Manual, English		05.562.1389.0				
GSD file and Word template for labels		05.591.3255.0				
Marking tag, 8-digit, unmarked		04.242.1553.0				
Marking tag, 8-digit, marked (upon request)						
End Clamp for DIN rail		Z5.522.8553.0				

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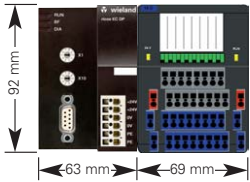
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Distributed I/O Modules

Buscoupler

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Depth: 51 mm
(incl. mounting rail TS 35/7.5 mm)

Dimensions (mm): W x H x D
63 x 92 x 51



Modular economy buscoupler PROFIBUS DP

CE; Approvals: ULus , Profibus certification
in preparation



Modular economy buscoupler Interbus

CE; Approvals: ULus , Interbus certification
in preparation

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Economy buscoupler	EC DP	83.030.0001.1	1	EC S	83.031.0001.1	1
Mode display	RUN – processor operating LED yellow BF – no bus connected (bus fail): LED red DIA – diagnosis message sent off: LED red			RUN – processor operating LED yellow RD - remote bus disabled LED red RC - remote bus connected LED green BA – bus access LED green		
Wiring diagrams, derating curves	see page 430			see page 430		
System data						
Max. number of nodes	126			256		
Transmission medium	screened copper cable 2 x 0.25 mm ² /AWG 23			screened copper cable 5 x 0.25 mm ² /AWG 23		
Max. network expansion	100 m – 1200 m (depending on baud rate / cable)			400 m (remote bus)		
Baud rate	9.6 kBaud...12 Mbaud			500 kBaud		
Internal bus refresh	2 ms			2 ms		
Bus connection	1 x D-SUB 9, screened female connector			2 x D-SUB 9, screened female and male connectors		
Technical information						
Max. number of I/O bytes	64 E-Byte/64 A-Byte			64 E-Byte/64 A-Byte		
Number of I/O modules per node	8			8		
Number of digital I/O points per node	128			128		
Number of analog I/O points per node	32			32		
Address setting	3...126 (switch)			automatically as per system		
Stet	PC or PLC			PC or PLC		
Operating voltage	24 V DC, $\pm 20\%$, max. 5% residual ripple			24 V DC, $\pm 20\%$, max. 5% residual ripple		
Current input	< 125 mA (at 24 V and without I/O modules) < 500 mA (at 24 V with I/O modules)			< 125 mA (at 24 V and without I/O modules) < 500 mA (at 24 V with I/O modules)		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 kV air; 4 kV contact			EN 61000-4-2; 8 kV air; 4 kV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	2 kV accord. to DIN EN 61000-4-4			2 kV accord. to DIN EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	-25 °C...+75 °C (accord. to DIN 40040)			-25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Bus connector, vertical	83.030.0010.0 (node)			83.031.0010.0 (input line)		
Bus connector, vertical	83.030.0011.0 (termination)			83.031.0010.0 (output line)		
Bus connector, horizontal (pending)	83.030.0012.0 (switch)					
Manual, German	05.591.3389.0			05.591.3389.0		
Manual, English	05.562.1389.0			05.562.1389.0		
GSD file and Word template for labels	05.591.3255.0			05.591.3255.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		



Modular economy buscoupler DeviceNet

CE; Approvals: in preparation



Modular economy buscoupler CANopen

CE; Approvals: in preparation

Dimensions (mm): W x H x D
63 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Buscoupler with diagnosis function	EC-DEVICENET	83.032.0001.1	1	EC-CANOPEN	83.033.0001.1	1
	incl. 1 busconnector			incl. 1 busconnector		
Mode display:	RUN – processor operating LED yellow			RUN – processor operating LED yellow		
	NET - status display to master LED green/red			NET - status display to master LED green/red		
	MOD – ready for operation LED green/red			MOD – ready for operation LED green/red		
Wiring diagrams, derating curves	see page 430			see page 430		
System data						
Max. number of nodes	64 with repeater			256		
Transmission medium	screened copper cable trunk line AWG 15, 18 screened copper cable drop line AWG 22, 24			screened copper cable 3 x 0.25 mm ² /AWG 23		
Max. network expansion	100 m–500 m (depending on baud rate / cable)			100 m–500 m (depending on baud rate / cable)		
Baud rate	125/250/500 kBaud (DIP switch)			10 kBaud...1 MBaud (DIP switch)		
Internal bus refresh	2 ms			2 ms		
Bus connection	5pole connector, screw			5pole connector, screw		
Technical information						
Max. number of I/O bytes	64 E-Byte/64 A-Byte			9 R-PDOs; 9 T-PDOs		
Number of I/O modules per node	8			6		
Number of digital I/O points per node	128			96		
Number of analog I/O points per node	32			24		
Address setting (MAC ID)	1...63 (via keyboard)			1...126 (via keyboard)		
Stet	PC or PLC			PC or PLC		
Operating voltage	24 V DC, ±20%, max. 5% residual ripple			24 V DC, ±20%, max. 5% residual ripple		
Current input	< 125 mA (at 24 V and without I/O modules) < 500 mA (at 24 V with I/O modules)			< 125 mA (at 24 V and without I/O modules) < 500 mA (at 24 V with I/O modules)		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	2 kV accord. to DIN EN 61000-4-4			2 kV accord. to DIN EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	–25 °C...+75 °C (accord. to DIN 40040)			–25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Bus connector	25.323.3501.0			25.323.3501.0		
Manual, German	05.591.3389.0			05.591.3389.0		
Manual, English	05.562.1389.0			05.562.1389.0		
EDS file and Word template for labels	05.591.3255.0			05.591.3255.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		

ricos

Binary I/O modules

Configurable as input or output,
for 2-wire, 3-wire and 4-wire connections
Electronic components can be replaced
without disconnecting the wiring



**Binary I/O module 24 V DC
8 inputs or 8 outputs**

CE; Approvals:



**Binary I/O module 24 V DC
16 inputs**

CE; Approvals:

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	ricos 8 I/O	83.035.3100.1	1	ricos 16 I	83.035.3000.1	1
Mode display:						
	24 V – supply voltage connected: LED yellow			24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow			RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green			channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow			channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see pages 431 – 434			see pages 431 – 434		
Module data						
Number of inputs	max. 8			16		
Number of outputs	max. 8			0		
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple			24 V DC, ±20 %, max. 5 % residual ripple		
Power input	< 0.5 W			< 0.5 W		
Stet	not required			not required		
Required space on control side	1 input byte/1 output byte			2 input byte		
Input data						
Switching level "0" (EN 61131-2)	–30 V...+5 V DC			–30 V...+5 V DC		
Switching level "1" (EN 61131-2)	+15 V...+30 V DC			+15 V...+30 V DC		
Input current/channel (at 24 V DC)	6.1 mA			4.5 mA		
Status display	LED green			LED green		
Output data						
Output voltage	operating voltage – 0.5 V DC					
Output current per channel	1000 mA DC					
Max. total current per module	8 A DC					
Simultaneity	100 %					
Load types	resistive, inductive					
Status display	LED green					
Output response	resistant to overload and short-circuit					
General						
Signal delay per I/O channel	< 100 µs			< 100 µs		
Max. voltage power contacts	30 V DC			30 V DC		
Max. current power contacts	8 A DC			8 A DC		
Insulation voltage	350 V AC, 50 Hz (system/supply)			350 V AC, 50 Hz (system/supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4			accord. to EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	–25 °C...+75 °C (accord. to DIN 40040)			–25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1			83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0			05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0			Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		
Manual, English	05.562.1389.0			05.562.1389.0		

ricos



**Binary I/O module 115 V AC
4 inputs**

CE; Approvals: in preparation



**Binary I/O module 230 V AC
4 inputs**

CE; Approvals: in preparation

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	ricos 4I 115 V	83.035.5000.1	1	ricos 4I 230 V	83.035.5005.1	1
Mode display:						
	24 V – supply voltage connected: LED yellow			24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow			RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green			Channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow			Channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see pages 431 – 434			see pages 431 – 434		
Module data						
Number of inputs	4			4		
Number of outputs	0			0		
Operating voltage	115 V AC, ± 10 %			230 V AC, ± 10 %		
Power input	< 0.5 W			< 0.5 W		
Stet	not required			not required		
Required space on control side	1 input byte			1 input byte		
Input data						
Switching level "0" (EN 61131-2)	0 V...20 V AC			0 V...40 V AC		
Switching level "1" (EN 61131-2)	79 V...130 V AC			164 V...250 V AC		
Input current / channel (at 24 V DC)	typically 5 mA			typically 5 mA		
Status display	LED green			LED green		
Output data:						
Output voltage						
Output current per channel						
Max. total current per module						
Simultaneity						
Load types						
Status display						
Output response						
General						
Signal delay per I/O channel	max. 10 ms			max. 10 ms		
Max. voltage power contacts	250 V AC			250 V AC		
Max. current power contacts	8 A AC			8 A AC		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4			accord. to EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	-25 °C...+75 °C (accord. to DIN 40040)			-25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1			83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0			05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0			Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		
Manual, English	05.562.1389.0			05.562.1389.0		

ricos

Binary I/O modules
for 2-wire, 3-wire and 4-wire connections
Electronic components can be replaced
without disconnecting the wiring



Binary I/O module,
4 relay outputs
CE; Approvals: cULus in preparation

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack
	ricos 40 RELAY	83.035.5200.1	1
Mode display:			
	24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see pages 431 – 434		
Module data			
Number of inputs	0		
Number of outputs	4		
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple		
Power input	< 1 W		
Stet	not required		
Required space on control side	1 output byte		
Input data			
Switching level "0" (EN 61131-2)			
Switching level "1" (EN 61131-2)			
Input current/channel (at 24 V DC)			
Status display			
Output data:			
Output voltage	250 V AC, 30 V DC		
Output current per channel	5 A AC/DC		
Max. total current per module	12 A AC/DC		
Simultaneity	100 %		
Load types	resistive / inductive		
Status display	LED green		
Output response			
General			
Signal delay per I/O channel	< 10 ms		
Max. voltage power contacts	250 V AC/DC		
Max. current power contacts	8 A AC/DC		
Insulation voltage	350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4		
Connection style	spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	-25 °C...+75 °C (accord. to DIN 40040)		
Accessories			
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0		
Marking tag, 8-digit, marked (upon request)			
End clamp for DIN rail	Z5.522.8553.0		
Manual, English	05.562.1389.0		

Binary I/O modules
Configurable as input or output,
for 2-wire, 3-wire and 4-wire connections
Electronic components can be replaced
without disconnecting the wiring



Binary module
16 outputs
CE, Approvals:



Binary I/O module 8 inputs and
8 inputs/outputs
CE, Approvals:

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	ricos 16O	83.035.3200.1	1	ricos 8I I/O	83.035.3300.1	1
Mode display:						
	24 V – supply voltage connected: LED yellow			24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow			RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green			channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow			channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see pages 431 – 434			see pages 431 – 434		
Module data						
Number of inputs	0			8 + max. 8		
Number of outputs	16			max. 8		
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple			24 V DC, ±20 %, max. 5 % residual ripple		
Power input	< 0.5 W			< 0.5 W		
Stet	not required			not required		
Required space on control side	2 output byte			2 input byte and 1 output byte		
Input data						
Switching level "0" (EN 61131-2)				-30 V...+5 V DC		
Switching level "1" (EN 61131-2)				+15 V...+30 V DC		
Input current / channel (at 24 V DC)				4.5 mA/6.5 mA (combin. I/O)		
Status display				LED green		
Output data:						
Output voltage	operating voltage – 0.5 V DC			operating voltage – 0.5 V DC		
Output current per channel	1000 mA DC			1000 mA DC		
Max. total current per module	8 A DC			8 A DC		
Simultaneity	50 %			100 %		
Load types	resistive, inductive			resistive, inductive		
Status display	LED green			LED green		
Output response	resistant to overload and short-circuit			resistant to overload and short-circuit		
General						
Signal delay per I/O channel	< 100 µs			< 100 µs		
Max. voltage power contacts	30 V DC			30 V DC		
Max. current power contacts	8 A DC			8 A DC		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4			accord. to EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	-25 °C...+75 °C (accord. to DIN 40040)			-25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1			83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0			05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0			Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		
Manual, English	05.562.1389.0			05.562.1389.0		

ricos

Binary I/O modules
for 2-wire, 3-wire and 4-wire connections
Electronic components can be replaced
without disconnecting the wiring



**Binary I/O module 24 V DC
4 outputs 2 A DC**
CE; Approvals: in preparation



**Binary I/O module 24 V DC
8 outputs, negative switching**
CE; Approvals: in preparation

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	ricos 40 DC 2A	83.035.3005.1	1	ricos 80 NEG	83.035.3210.1	1
Mode display:						
	24 V – supply voltage connected: LED yellow			24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow			RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green			channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow			channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see pages 431 – 434			see pages 431 – 434		
Module data						
Number of inputs	0			0		
Number of outputs	4			8		
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple			24 V DC, ±20 %, max. 5 % residual ripple		
Power input	< 0.5 W			< 0.5 W		
Stet	not required			not required		
Required space on control side	1 output byte			1 output byte		
Input data						
Switching level "0" (EN 61131-2)						
Switching level "1" (EN 61131-2)						
Input current / channel (at 24 V DC)						
Status display						
Output data						
Output voltage	operating voltage –0.5 V DC			operating voltage –0.5 V DC		
Output current per channel	2 A DC			1000 mA DC		
Max. total current per module	8 A DC			8 A DC		
Simultaneity	100 %			100 %		
Load types	resistive, inductive			resistive, inductive		
Status display	LED green			LED green		
Output response	resistant to overload and short-circuit			resistant to overload and short-circuit		
General						
Signal delay per I/O channel	< 100 µs			< 100 µs		
Max. voltage power contacts	30 V DC			30 V DC		
Max. current power contacts	8 A DC			8 A DC		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4			accord. to EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	–25 °C...+75 °C (accord. to DIN 40040)			–25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1			83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0			05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0			Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		
Manual, English	05.562.1389.0			05.562.1389.0		

ricos

Counter/positioning modules

2 or 4 counters per module

up to 2 threshold values can be set

Positioning module for 2 axes

Electronic components can be replaced without disconnecting the wiring



Binary I/O module
2–32 bit / 4–16 bit counter
CE; Approvals: cULus in preparation



Binary I/O module,
positioning module
CE; Approvals: cULus in preparation

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	ricos COUNTER	83.035.5400.1	1	ricos POSITION	83.035.5410.1	1
Mode display:						
	24 V – supply voltage connected: LED yellow			24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow			RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green			channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow			channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see page 434			see page 434		
Module data						
Number of ...	counters: 4 x 16 Bit or 2 x 32 Bit			controllable axes: 2		
Counting range	0 to 2 ¹⁶ or 0 to 2 ³²			–2 ³¹ up to 2 ³¹ –1		
Number of inputs/outputs	12/4 or 6/4			10/6		
Counting frequency	200 Hz, 2 kHz, 20 kHz, 200 kHz configurable			max. 200 kHz		
Configurable	via PC or PLC			via PC or PLC		
Required space on control side	3 to 5 words			5 words		
Input data						
Switching level "0" (EN 61131-2)	–30 V...+5 V DC			–30 V...+5 V DC		
Switching level "1" (EN 61131-2)	+15 V...+30 V DC			+15 V...+30 V DC		
Input current / channel (at 24 V DC)	7.5 mA			7.5 mA		
Status display	LED green			LED green		
Output data:						
Output voltage	operating voltage –0.5 V DC			operating voltage –0.5 V DC		
Output current per channel	1000 mA DC			1000 mA DC		
Max. total current per module	4 A DC			6 A DC		
Simultaneity	100 %			100 %		
Load types	resistive, inductive			resistive, inductive		
Status display	LED green			LED green		
Output response	resistant to overload and short-circuit			resistant to overload and short-circuit		
Operating voltage / power input	24 V DC, ±20 %, max. 5 % residual ripple/< 3 W			24 V DC, ±20 %, max. 5 % residual ripple/< 3 W		
General						
Signal delay input/output	< 1 us/< 300 µs			< 100 µs		
Max. voltage power contacts	30 V DC			30 V DC		
Max. current power contacts	8 A DC			8 A DC		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4			accord. to EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	–25 °C...+75 °C (accord. to DIN 40040)			–25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1			83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0			05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0			Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		
Manual, English	05.562.1389.0			05.562.1389.0		

ricos

PT/TC Modules

4 sensor inputs per module,
self-setting to PT100/PT1000 sensors for
2-wire, 3-wire and 4-wire connection
for thermocouples type J/K



Analog module
4 inputs PT 100/1000
CE; Approvals: in preparation



Analog module,
4 inputs TC J/K, T
CE; Approvals: in preparation

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Mode display:	ricos 4AI Pt100	83.035.4040.1	1	ricos 4AI TC	83.035.4050.1	1
	24 V – supply voltage connected: LED yellow			24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow			RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green			channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow			channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see page 434			see page 434		
Module data	Module data (accessories)			Module data (accessories)		
Number of inputs	4			4		
Temperature probe	PT 100; PT 1000; self-setting			J, K, T		
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple			24 V DC, ±20 %, max. 5 % residual ripple		
Power input	< 3 W			< 3 W		
Configurable	PC, PLC, diagnosis code 9 bus coupler			PC, PLC, diagnosis code 9 bus coupler		
Required space on control side	1 to 4 input words (depending on configuration)			1 to 4 input words (depending on configuration)		
Technical information						
Measuring range	-100 °C...+450 °C			-100...+1370 °C		
Resolution	16 Bit			14 Bit + sign		
Sampling frequency	2 ms			2 ms		
Resolution	< 0.1 °C			0.1 °C		
Accuracy	±1 °C			0.5% over total measuring range		
Power supply sensor	supply via PT 100 module					
Measuring time	< 100 ms			< 100 ms		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4			accord. to EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	-25 °C...+75 °C (accord. to DIN 40040)			-25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1					
Adhesive labels, DIN A4 sheet	05.591.3255.0					
2pole jumper for parallel output switching	Z7.258.1225.0					
Marking tag, 8-digit, unmarked	04.242.1553.0					
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0					
Manual, English	05.562.1389.0			05.562.1389.0		

ricos

Analog I/O modules

for default signals of 0...10 V or ± 10 V
for 2-wire, 3-wire and 4-wire connection
Electronic components can be replaced
without disconnecting the wiring



**Analog I/O module
4 inputs 0 to 10 V**
CE; Approvals: in preparation



**Analog I/O module
4 inputs ± 10 V**
CE; Approvals:

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Mode display:	ricos 4AI/0...10 V	83.035.4001.1	1	ricos 4AI/ ± 10 V	83.035.4000.1	1
	24 V – supply voltage connected: LED yellow			24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow			RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green			channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow			channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see page 433			see page 433		
Module data						
Number of inputs	4			4		
Number of outputs	0			0		
Operating voltage	24 V DC, $\pm 20\%$, max. 5% residual ripple			24 V DC, $\pm 20\%$, max. 5% residual ripple		
Power input	< 2.5 W			< 2.5 W		
Configurable	PC, PLC, diagnosis code 9 bus coupler			PC, PLC, diagnosis code 9 bus coupler		
Required space on control side	1 to 4 input words (depending on configuration)			1 to 4 input words (depending on configuration)		
Technical information						
Measuring range	0...+9.995 V			-10...+9.995 V		
Resolution	12 Bit			12 Bit		
Sampling frequency	< 2 ms			< 2 ms		
Offset error	typ. 0.5 LSB; max. 1 LSB			typ. 0.5 LSB; max. 1 LSB		
Channel crosstalk	-74 dB (f < 100 Hz)			-74 dB (f < 100 Hz)		
Gain error	typ. 0.08% FSR; max. 0.2% FSR			typ. 0.08% FSR; max. 0.2% FSR		
Noise voltage	typ. 0.5 LSB; max. 2 LSB			typ. 0.5 LSB; max. 2 LSB		
Offset error due to source impedance	+3 LSB/kOhm (U _{input} = 0 V)			+3 LSB/kOhm (U _{input} = 0 V)		
Galvanic isolation	75 V (AGND/shield)			75 V (AGND/shield)		
Common mode range	+12.8 V DC			-12.8 V/+12.8 V DC		
Input resistance	1 MOhm			1 MOhm		
Input current	typ. 15 μ A			typ. 15 μ A		
Short-circuit current / short-circuit duration	-			-		
Ripple	-			-		
Voltage range for open-circuit recognition on both sides	9.9 V (floating source)			-10V/9.9 V (floating source)		
Common mode rejection	87 dB (f = DC); 70 dB (f = 50 Hz); 60 dB (f = 1 kHz)			87 dB (f = DC); 70 dB (f = 50 Hz); 60 dB (f = 1 kHz)		
Common mode input resistance	500 kOhm (inputs short-circuited against AGND)			500 kOhm (inputs short-circuited against AGND)		
Capacitive common mode input resistance	4.4 nF (inputs short-circuited against AGND)			4.4 nF (inputs short-circuited against AGND)		
Dynamic common mode input resistance	1.1 kOhm (f > 100 kHz)			1.1 kOhm (f > 100 kHz)		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity/emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4			accord. to EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	-25 °C...+75 °C (accord. to DIN 40040)			-25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1			83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0			05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0			Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		
Manual, English	05.562.1389.0			05.562.1389.0		

Analog I/O modules
for default signals of 0...10 V or ± 10 V
for 2-wire, 3-wire and 4-wire connection
Electronic components can be replaced
without disconnecting the wiring



Analog I/O module
4 inputs and 4 outputs 0 to 10 V
CE; Approvals: in preparation



Analog I/O module
4 inputs and 4 outputs ± 10 V
CE; Approvals:

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Mode display:	ricos 4AI4AO/0...10 V	83.035.4101.1	1	ricos 4AI4AO/ ± 10 V	83.035.4100.1	1
	24 V – supply voltage connected: LED yellow			24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow			RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green			channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow			channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see page 433			see page 433		
Module data						
Number of inputs	4			4		
Number of outputs	4			4		
Operating voltage	24 V DC, $\pm 20\%$, max. 5% residual ripple			24 V DC, $\pm 20\%$, max. 5% residual ripple		
Power input	< 2.5 W			< 2.5 W		
Configurable	PC, PLC, diagnosis code 9 bus coupler			PC, PLC, diagnosis code 9 bus coupler		
Required space on control side	1 to 4 input / output words (depending on configuration)			1 to 4 input / output words (depending on configuration)		
Technical information						
Measuring range	0...+9.995 V			-10...+9.995 V		
Resolution	12 Bit			12 Bit		
Sampling frequency	< 2 ms			< 2 ms		
Offset error	typ. 0.5 LSB; max. 1 LSB			typ. 0.5 LSB; max. 1 LSB		
Channel crosstalk	-74 dB (f < 100 Hz)			-74 dB (f < 100 Hz)		
Gain error	Input: max. 0.2% FSR; output: max. 0.12% FSR			typ. 0.08% FSR; max. 0.2% FSR		
Noise voltage	typ. 0.5 LSB; max. 2 LSB			typ. 0.5 LSB; max. 2 LSB		
Offset error	Input: +3 LSB/kOhm (U _{input} = 0 V); output: max. 10 mV			+3 LSB/kOhm (U _{input} = 0 V)		
Galvanic isolation	75 V (AGND/shield)			75 V (AGND/shield)		
Common mode range	+12.8 V DC			-12.8 V/+12.8 V DC		
Input resistance	1 MOhm			1 MOhm		
Input current/output current	typ. 15 μ A/10 mA			typ. 15 μ A		
Short-circuit current / short-circuit duration	20 mA/100% ON			20 mA/100% ON		
Ripple	5 mV			5 mV		
Voltage range for open-circuit recognition on both sides	9.9 V (floating source)			-10V/9.9 V (floating source)		
Common mode rejection	87 dB (f = DC); 70 dB (f = 50 Hz); 60 dB (f = 1 kHz)			87 dB (f = DC); 70 dB (f = 50 Hz); 60 dB (f = 1 kHz)		
Common mode input resistance	500 kOhm (inputs short-circuited against AGND)			500 kOhm (inputs short-circuited against AGND)		
Capacitive common mode input resistance	4.4 nF (inputs short-circuited against AGND)			4.4 nF (inputs short-circuited against AGND)		
Dynamic common mode input resistance	1.1 kOhm (f > 100 kHz)			1.1 kOhm (f > 100 kHz)		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4			accord. to EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	-25 °C...+75 °C (accord. to DIN 40040)			-25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1			83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0			05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0			Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		
Manual, English	05.562.1389.0			05.562.1389.0		

ricos

Analog I/O modules

for default signals of 0...20 mA
for 2-wire, 3-wire and 4-wire connection
Electronic components can be replaced without disconnecting the wiring



Analog I/O module
4 inputs 0 to 20 mA
CE; Approvals:

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack
	ricos 4AI/0-20 mA	83.035.4010.1	1
Mode display:	24 V – supply voltage connected: LED yellow RUN – internal data transmission in progress: LED yellow channel LED – switching status: LED green channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see page 433		
Module data			
Number of inputs	4		
Number of outputs	0		
Operating voltage	24 V DC, ± 20 %, max. 5 % residual ripple		
Power input	< 2.5 W		
Configurable	PC, PLC, diagnosis code 9 bus coupler		
Required space on control side	1 to 4 input words (depending on configuration)		
Technical information			
Measuring range	0...+19.995 mA		
Resolution	12 Bit		
Sampling frequency	2 ms		
Offset error	typ. 0.5 LSB; max. 1 LSB		
Channel crosstalk	-74 dB (f < 100 Hz)		
Gain error	max. 0.45 % FSR		
Noise voltage	typ. 0.5 LSB; max. 2 LSB		
Drift rate	-		
Galvanic isolation	75 V (AGND/shield)		
Output load	max. 100.1 Ohm		
Continuous input current	40 mA bei 100 % ON		
Continuous input voltage	4 V bei 100 % ON		
Short-circuit current / short-circuit duration	-		
Ripple	-		
Dynamic common mode input resistance	1.1 kOhm (f > 100 kHz)		
Insulation voltage	350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4		
Connection style	spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	-25 °C...+75 °C (accord. to DIN 40040)		
Accessories			
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0		
Marking tag, 8-digit, marked (upon request)			
End clamp for DIN rail	Z5.522.8553.0		
Manual, English	05.562.1389.0		

Analog I/O modules
for default signals of 0...20 mA or 4...20 mA
for 2-wire, 3-wire and 4-wire connection
Electronic components can be replaced
without disconnecting the wiring



Analog I/O module
4 inputs and 4 outputs 0 to 20 mA
CE; Approvals: in preparation



Analog I/O module
4 inputs and 4 outputs 4–20 mA
CE; Approvals: in preparation

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Mode display:	ricos 4AIAO/0–20 mA	83.035.4110.1	1	ricos 4AIAO/4–20 mA	83.035.4111.1	1
	24 V – supply voltage connected: LED yellow			24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow			RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green			channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow			channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see page 433			see page 433		
Module data						
Number of inputs	4			4		
Number of outputs	4			4		
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple			24 V DC, ±20 %, max. 5 % residual ripple		
Power input	< 2.5 W			< 2.5 W		
Configurable	PC, PLC, diagnosis code 9 bus coupler			PC, PLC, diagnosis code 9 bus coupler		
Required space on control side	1 to 4 input / output words (depending on configuration)			1 to 4 input / output words (depending on configuration)		
Technical information						
Measuring range	0...+19.995 mA			4...+19.995 mA		
Resolution	12 Bit			12 Bit		
Sampling frequency	2 ms			2 ms		
Offset error	Input: max. 1 LSB; output: max. 4 uA			Input: max. 1 LSB; output: max. 4 uA		
Channel crosstalk	–74 dB (f < 100 Hz)			–74 dB (f < 100 Hz)		
Gain Error	Input: max. 0.45 % FSR; output: max. 0.5 % FSR			Input: max. 0.45 % FSR; output: max. 0.5 % FSR		
Noise voltage	typ. 0.5 LSB; max. 2 LSB			typ. 0.5 LSB; max. 2 LSB		
Drift rate	4 uA/ms			4 uA/ms		
Galvanic isolation	75 V (AGND/shield)			75 V (AGND/shield)		
Output load	Input: max. 100.1 Ohm; output: 500 Ohm			Input: max. 100.1 Ohm; output: 500 Ohm		
Continuous input current	40 mA bei 100 % ON			40 mA bei 100 % ON		
Continuous input voltage	4 V bei 100 % ON			4 V bei 100 % ON		
Short-circuit current / short-circuit duration	20 mA; 100 % ON			20 mA; 100 % ON		
Ripple	10 uA			10 uA		
Dynamic common mode input resistance	1.1 kOhm (f > 100 kHz)			1.1 kOhm (f > 100 kHz)		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4			accord. to EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	–25 °C...+75 °C (accord. to DIN 40040)			–25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1			83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0			05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0			Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		
Manual, English	05.562.1389.0			05.562.1389.0		

Distributed I/O Modules

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THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

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Field bus coupler including DI/DO channels
Compact modules configurable as input or output for 2-wire, 3-wire and 4-wire connection
Electronic components can be replaced without disconnecting the wiring



Compact modules PROFIBUS DP
 CE; Approvals: ULus, Profibus certification

Compact modules Interbus
 CE; Approvals: ULus, Interbus certification

Dimensions (mm): W x H x D
 69 x 92 x 51

	Compact modules PROFIBUS DP	Compact modules Interbus
8 DI or 8 DO (configurable)	ricos com-dp 8 I/O 83.030.1100.1 1	ricos com-s 8 I/O 83.031.1100.1 1
16 DI	ricos com-dp 16 I 83.030.1000.1 1	ricos com-s 16 I 83.031.1000.1 1
16 DO	ricos com-dp 16 O 83.030.1200.1 1	ricos com-s 16 O 83.031.1200.1 1
8 DI and 8 DI/8 DO configurable*	ricos com-dp 8 I/O 83.030.1300.1 1	ricos com-s 8 I/O 83.031.1300.1 1
Mode display:		
	24 V – supply voltage connected: LED yellow	24 V – supply voltage connected: LED yellow
	RUN – internal data transmission in progress: LED yellow	RUN – internal data transmission in progress: LED yellow
	channel LED – switching status: LED green	channel LED – switching status: LED green
	channel LED – channel cursor: LED yellow	channel LED – channel cursor: LED yellow
Wiring diagrams, derating curves	see page 431	see page 431
System data		
Max. number of nodes	126	256
Transmission medium	screened copper cable 2 x 0.25 mm ² /AWG 23	screened copper cable 5 x 0.25 mm ² /AWG 23
Max. network expansion	100 m–1200 m (depending on baud rate / cable)	400 m (remote bus)
Baud rate	9.6 kBaud...12 Mbaud	500 kBaud
Internal bus refresh	2 ms	2 ms
Bus connection	1 x D-SUB 9, screened female connector	2 x D-SUB 9, screened female and male connectors
Input data		
Switching level "0" (EN 61131-2)	–30 V...+5 V DC	–30 V...+5 V DC
Switching level "1" (EN 61131-2)	+15 V...+30 V DC	+15 V...+30 V DC
Input current / channel (at 24 V DC)	4.5 mA/6.5 mA (combin. I/O)	4.5 mA/6.5 mA (combin. I/O)
Status display	LED green	LED green
Output data:		
Output voltage	operating voltage –0.5 V DC	operating voltage –0.5 V DC
Output current per channel	1000 mA DC	1000 mA DC
Max. total current per module	8 A DC	8 A DC
Simultaneity	100 % at max. 500 mA per channel	100 % at max. 500 mA per channel
Load types	resistive, inductive	resistive, inductive
Status display	LED green	LED green
Output response	resistant to overload and short-circuit	resistant to overload and short-circuit
General		
Signal delay per I/O channel	< 100 µs	< 100 µs
Max. voltage power contacts	30 V DC	30 V DC
Max. current power contacts	8 A DC	8 A DC
Insulation voltage	350 V AC, 50 Hz (system / supply)	350 V AC, 50 Hz (system / supply)
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178	DIN EN 61131-2; DIN EN 50178
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact	EN 61000-4-2; 8 KV air; 4 KV contact
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz	ENV 50140; 10 V/m; 30...1000 MHz
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1	EN 61000-6-2/EN 55011, limit value class A, group 1
Burst	accord. to EN 61000-4-4	accord. to EN 61000-4-4
Connection style	spring connection	spring connection
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG	26 – 14 AWG / 26 – 16 AWG
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)	0 °C...+55 °C (accord. to DIN 40040)
Storage temperature	–25 °C...+75 °C (accord. to DIN 40040)	–25 °C...+75 °C (accord. to DIN 40040)
Accessories		
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1	83.039.0000.1
Adhesive labels, DIN A4 sheet	05.591.3255.0	05.591.3255.0
2pole jumper for parallel output switching	Z7.258.1225.0	Z7.258.1225.0
Marking tag, 8-digit, unmarked	04.242.1553.0	04.242.1553.0
Marking tag, 8-digit, marked (upon request)		
End clamp for DIN rail	Z5.522.8553.0	Z5.522.8553.0
GSD file and Word template for labels	05.591.3255.0	05.591.3255.0
Manual, English	05.562.1389.0	05.562.1389.0

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Field bus coupler including DI/DO channels
Compact modules
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Electronic components can be replaced without disconnecting the wiring



Compact modules DeviceNet
CE; Approvals: US



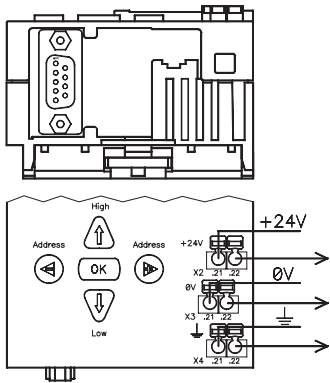
Compact modules CANopen
CE; Approvals: US in preparation

Dimensions (mm): W x H x D
69 x 92 x 51

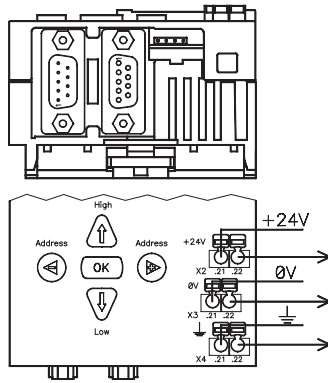
Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
8 DI or 8 DO (configurable)	ricos com-dn 8I/O	83.032.1100.1	1	ricos com-co 8I/O	83.033.1100.1	1
16 DI	ricos com-dn 16I	83.032.1000.1	1	ricos com-co 16I	83.033.1000.1	1
16 DO	ricos com-dn 16O	83.032.1200.1	1	ricos com-co 16O	83.033.1200.1	1
8 DI and 8 DI/8 DO configurable	ricos com-dn 8I 8I/O	83.032.1300.1	1	ricos com-co 8I 8I/O	83.033.1300.1	1
Mode display:	24 V – supply voltage connected: LED yellow			24 V – supply voltage connected: LED yellow		
	RUN – internal data transmission in progress: LED yellow			RUN – internal data transmission in progress: LED yellow		
	channel LED – switching status: LED green			channel LED – switching status: LED green		
	channel LED – channel cursor: LED yellow			channel LED – channel cursor: LED yellow		
Wiring diagrams, derating curves	see page 431			see page 431		
System data						
Max. number of nodes	64 with repeater			256		
Transmission medium	screened copper cable trunk line AWG 15.18 screened copper cable drop line AWG 22,24			screened copper cable 3 x 0.25 mm ² /AWG 23		
Max. network expansion	100 m–500 m (depending on baud rate / cable)			100 m–500 m (depending on baud rate / cable)		
Baud rate	125/250/500 kBaud (setting via keyboard)			10 kBaud...1 MBaud (setting via keyboard)		
Internal bus refresh	2 ms			2 ms		
Bus connection	5pole connector, screw			5pole connector, screw		
Input data						
Switching level "0" (EN 61131-2)	–30 V...+5 V DC			–30 V...+5 V DC		
Switching level "1" (EN 61131-2)	+15 V...+30 V DC			+15 V...+30 V DC		
Input current / channel (at 24 V DC)	4.5 mA/6.5 mA (combin. I/O)			4.5 mA/6.5 mA (combin. I/O)		
Status display	LED green			LED green		
Output data:						
Output voltage	operating voltage –0.5 V DC			operating voltage –0.5 V DC		
Output current per channel	1000 mA DC			1000 mA DC		
Max. total current per module	8 A DC			8 A DC		
Simultaneity	100 % at max. 500 mA per channel			100 % at max. 500 mA per channel		
Load types	resistive, inductive			resistive, inductive		
Status display	LED green			LED green		
Output response	resistant to overload and short-circuit			resistant to overload and short-circuit		
General						
Signal delay per I/O channel	< 100 us			< 100 us		
Max. voltage power contacts	30 V DC			30 V DC		
Max. current power contacts	8 A DC			8 A DC		
Insulation voltage	350 V AC, 50 Hz (system / supply)			350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178			DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact			EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30...1000 MHz			ENV 50140; 10 V/m; 30...1000 MHz		
Immunity/emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1			EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	accord. to EN 61000-4-4			accord. to EN 61000-4-4		
Connection style	spring connection			spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG			26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C...+55 °C (accord. to DIN 40040)			0 °C...+55 °C (accord. to DIN 40040)		
Storage temperature	–25 °C...+75 °C (accord. to DIN 40040)			–25 °C...+75 °C (accord. to DIN 40040)		
Accessories						
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1			83.039.0000.1		
Adhesive labels, DIN A4 sheet	05.591.3255.0			05.591.3255.0		
2pole jumper for parallel output switching	Z7.258.1225.0			Z7.258.1225.0		
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0		
Marking tag, 8-digit, marked (upon request)						
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0		
EDS file and Word template for labels	05.591.3255.0			05.591.3255.0		
Manual, English	05.562.1389.0			05.562.1389.0		

Wiring diagrams of the Buscoupler

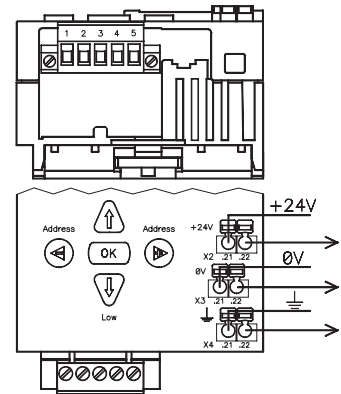
PROFIBUS DP



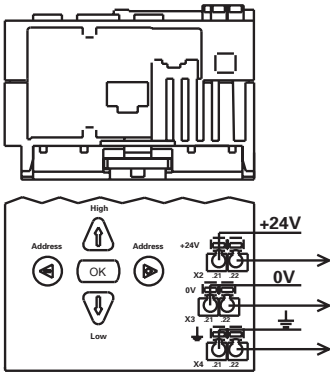
Interbus



DeviceNet and CANopen

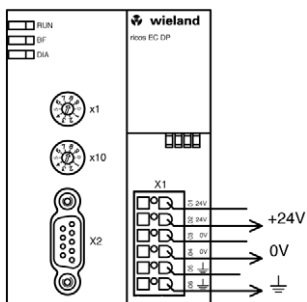


Ethernet

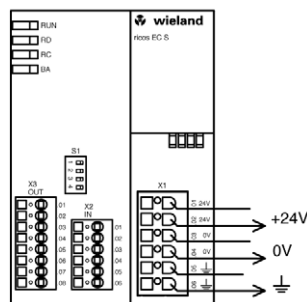


Wiring diagrams of economy Buscoupler

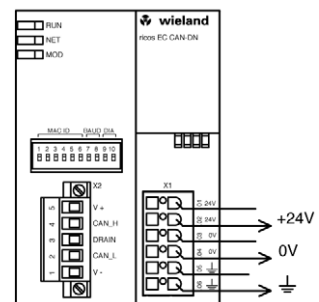
PROFIBUS DP



Interbus

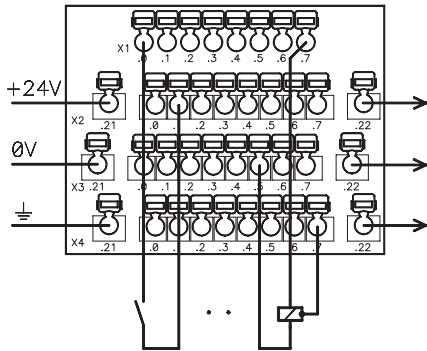


DeviceNet and CANopen

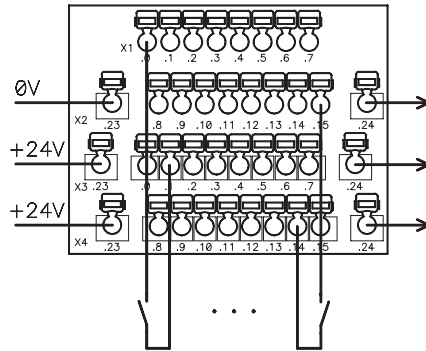


Wiring diagrams of binary and compact modules

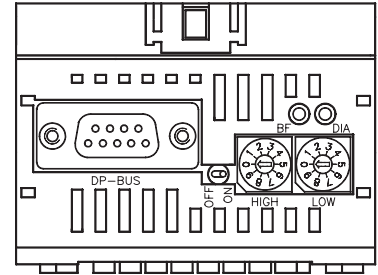
ricos 8I/O and ricos COM 8I/O



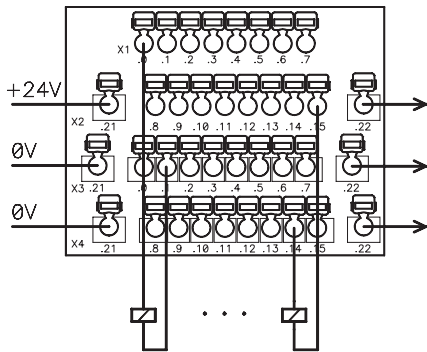
ricos 16I and ricos COM 16I



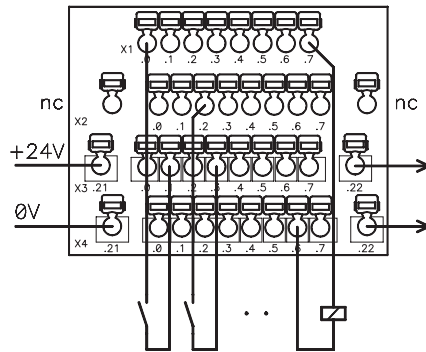
ricos COM-DP



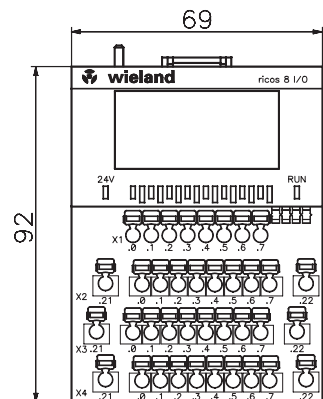
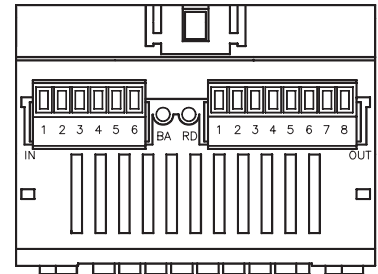
ricos 16O and ricos COM 16O



ricos 8I 8I/O and ricos COM 8I 8I/O

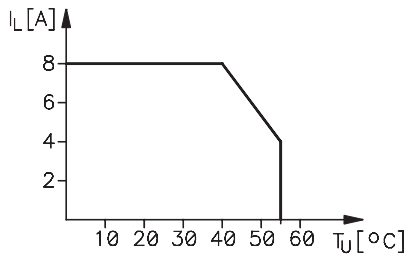


ricos COM-S

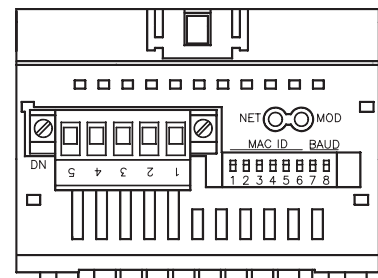


Derating

Total current



ricos COM CAN DN
ricos COM CANopen

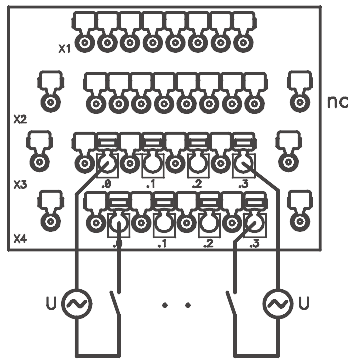
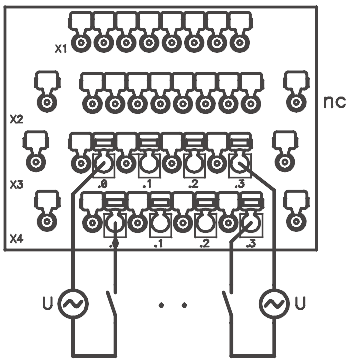


ricos

Wiring diagrams of binary modules

ricos 4I 115 V

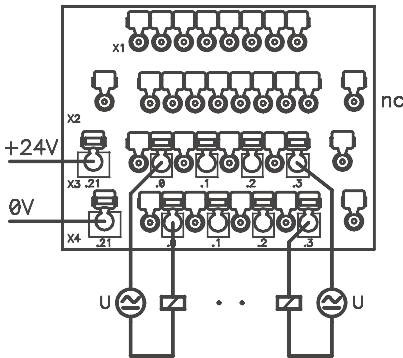
ricos 4I 230 V



ricos 4O RELAY

ricos 80 DC 2 A

ricos 80 NEG

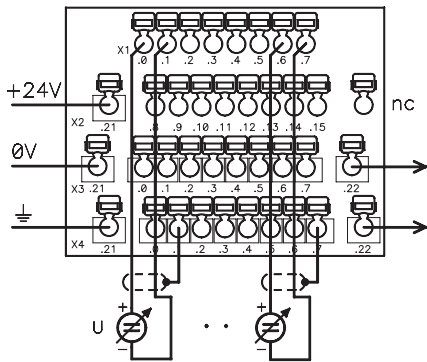


in preparation

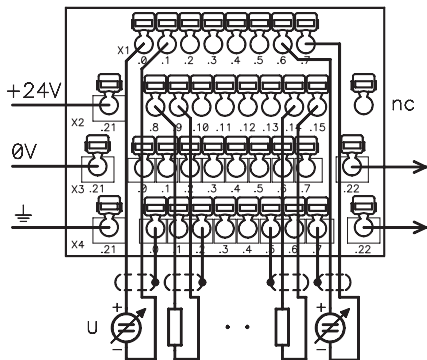
in preparation

Wiring diagrams of analog modules

ricos 4AI/0...10 V
ricos 4 AI/±10 V
ricos 4AI/0...20 mA



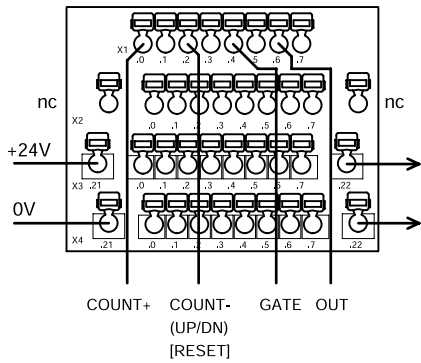
ricos 4AI4AO/0...10 V
ricos 4AI4AO/±10 V
ricos 4AI4AO/0...20 mA
ricos 4AI4AO/4...20 mA



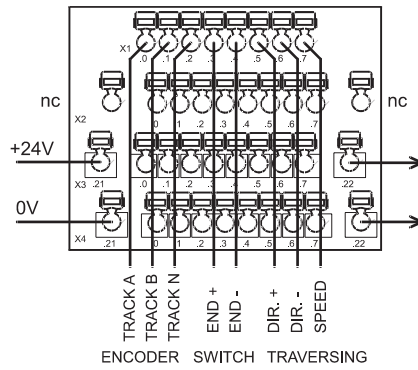
ricos

Wiring diagrams of the counter and positioning modules

ricos COUNTER

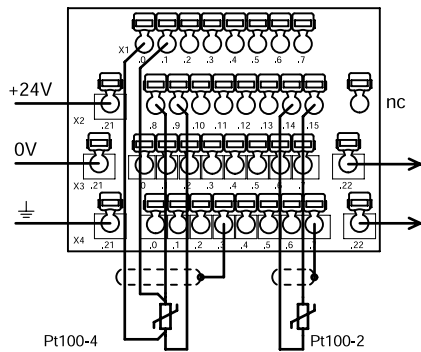


ricos POSITION

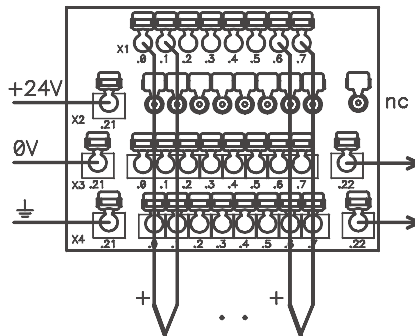


Wiring diagrams of the PT100 and TC modules

ricos 4AI Pt100

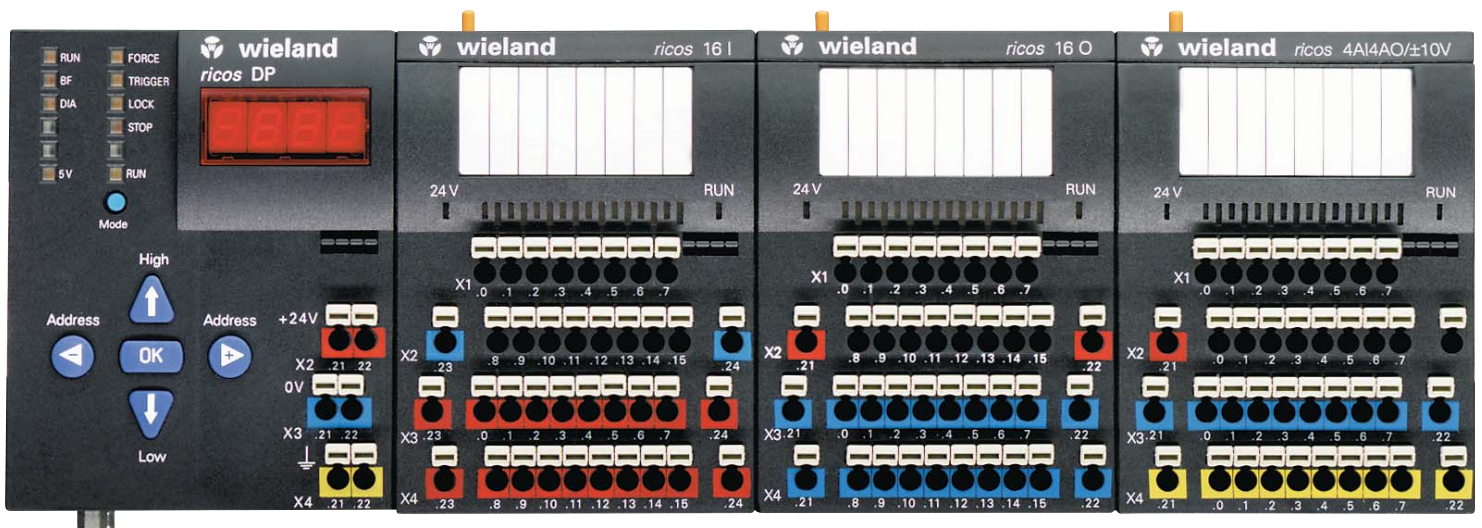


ricos 4AI TC



ricos housing data

Material	Makrolon 2805, Lexan 161R, Polyamid 6.0 GF20
Colour	black
Flammability class	in accordance DIN VDE 0304 T3 (IEC 707) in accordance UL 94-V-2
Resistance to creepage	in accordance DIN VDE 0303 T1/06.84 CT1 = 600
Thermal stability	in accordance DIN VDE 0304 20.000 h/5.000 h 100/115 °C
Electric strength	in accordance DIN VDE 0303 T2 (DIN 53481)/>15 kV/mm
Protection class	Class I in accordance IEC 536
Type of protection	IP20 in accordance EN 60529
Drop test	Height of fall (DIN IEC 68-2-32), with packaging
Shock resistance	in accordance IEC 68 Section 2, see "Drop test"
Relative humidity	10...95%, no moisture condensation
Air pressure during operation	860...1060 hPa
Insulation strip length of cables	10 mm
Opening in terminal compartment	2.4 x 1.5 mm in accordance IEC 999
Mounting rail	TS35
Weight	approx.190 g



relais

Introduction to relay technology

Modular DIN rail mounted relays

Plug-in DIN rail mounted relays

Multiple chassis mounted relays

Timer relays

The relay modules offer features such as

- Overall width of 6,2 mm
- Screw or spring-clamp connection
- Separation into input or output relays
- Multipole relay modules
- 4 kV isolation at a creepage and clearance distance of 8 mm
- Timer relay with ON delay
- Multi function time relay
- Solid state relays

All Wieland Components which require **CE** general certification are **CE** certified, and identified with the **CE** logo.



Electronic components

Relay modules



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Wieland relay modules – the reliable way to implement an application-related interface

In the microchip age, many believed that electromechanical relays would no longer play a role. This is however far from the truth. Switching relays have reliably carried out important tasks for many years, working in a “symbiotic relationship” with the electronics. Relays have demonstrated a high degree of flexibility over the years. The core characteristics have been maintained or even improved such as:

- Overload capability without costly protection measures
- Contact rating of μA up to $>10\text{ A}$
- Various types and number of the contacts
- High level of insensitivity to electrical interference
- Switching without dependence on the direction of current (AC/DC) up to the GHz range
- Low level of switching power loss
- Electrical isolation between all contacts and the coil

Wieland offers a complete range of relay modules with a combination of properties outlined above. Depending on the required applications, relay modules are available with various operating voltages, contact arrangements, contact materials and housing designs. Timer relays or HAND-0-AUTO relays can be supplied in addition to relays with pure monostable functionality.

Product range:

flare move, Plug-in, process interface relay with an overall width of 6.2 mm

flare, Process interface relay / time relay with an overall width of 6.2 mm

WEG, Switching relay modules with an overall width up to 22.5 mm

WR, WRS, RAB, Multiple switching relay modules with mounting base

Overview of the technical data

Control side – operating voltage

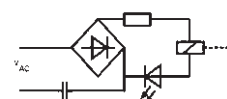
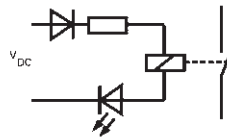
Wieland relay modules can be controlled within a defined temperature range, given operating voltage and relevant tolerance

band to a 100% duty cycle.

Control side – Suppression circuit

AC/DC relay modules are available. DC relays are equipped with a polarised diode and a free-wheeling diode in the input. These functions are taken over by a power rectifier in the case of AC or AC/DC modules. All relay modules have an LED for status display in the input circuit.

Suppression circuit of input for DC operation



Suppression circuit of input for AC operation

Control side – residual voltage

To ensure the safe operation of the relay the residual voltage in the coil circuits must not exceed 5% DC and 15% AC of the operating voltage in accordance with VDE 0435. Values above this will result in the relay remaining closed after switch off.

Residual voltages can occur from semiconductor devices in circuit, induced voltages from high current cabling or other inductive or capacitive interference factors.

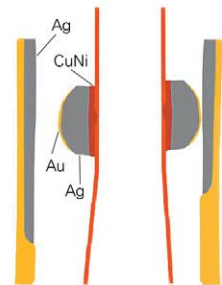
Corrective measures may involve the re-routing of cables away from interference or the parallel connection of RC elements.

Load side – contact material

The contacts are used to route control signals in a power range of mW up to more than 1000 VA. The contact material

that is used is largely determined by the load expected during operation (particularly with regard to current carrying capacity, switching frequency, operating speed as well as any corrosive environmental influences). Wieland uses the universally accepted AgSnO contacts for power ranges up to 1500 VA. In the lower power range, the same material is used but with a gold-plated finish.

Modules with gold-flashed AgCu contacts, AgCdO or gold-plated AgNi contacts are



also available. Table 1 gives an overview of other contact materials.

Cut-out of a 3-layer welded contact with a linear contact closure

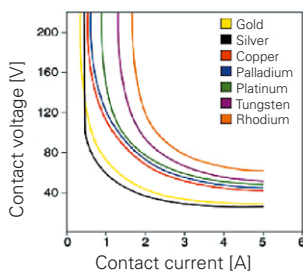
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Contact material	Attacked by		Typical properties	Typical applications	Scope
	Sulphur	Oxidisation			
Gold silver AuAg10	no	no	Low and constant contact resistance at minimum switching capacity	Dry switching circuits, measuring circuits, unfiltered communication routes	mV...60 V mA...300 mA
Gold nickel AuNi5	no	slightly	Free of material transfer in broad loading ranges, small contact resistance, slight electric arcs occur at low switching capacities, higher number of operations and greater contact follow-through, interference possible due to friction oxides	Used in low and medium voltage and current ranges	100 mV...60 V 1 mA...300 mA
Fine grained silver AgNi0,15	yes	no	Higher mechanical strength, low welding tendency and higher arc resistance than Ag, relatively smaller contact resistance	Universal use in medium-sized loads at higher voltage than gold nickel	>12 V 1 mA...1 A
Hard silver AgCu3	yes	when switching	Higher mechanical strength, low welding tendency and higher arc resistance than fine silver but a greater contact resistance	Used in medium-sized loads	>12 V 10 mA...10 A
Silver nickel AgNi10	yes	no	Higher arc resistance, low welding tendency, greater contact resistance	Switching circuits for medium to high loads, d.c. circuit	>17 V >5 mA
Silver cadmium Oxid AgCdO10	yes	no	Low welding tendency, high arc resistance at greater switching capacities	Particularly suitable for switching inductive loads	>12 V >100 mA
Silver tin oxide AgSnO10	yes	no	Low welding tendency, very high arc resistance at high switching capacities, low rate of material transfer	Switching circuits with high loads during opening and closing, d.c. circuits	>17 V >5 mA
AgNi0,15+ 5 µ Au	no	yes	Good corrosion properties, good contact resistance	Small switching capacities for dry circuits	µV...30 V µA...200 mA
AuAg10 over AgNi+Au	no	yes	Behaves as 5 m gold contact but its resistance to wear is five times greater	Switching capacity: 10 ⁶ W/VA up to 100 W / 1 kVA	> 100 mV > 10 µA

Table 1: Overview of contact materials

Contact side – reduction of arcs

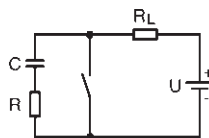
When the arc limit voltage (see diagram) which is dependent on the switching current and contact material is exceeded, discharge processes take place on the relay contact. Material transfer occurs which damages the contact. To achieve a long service life and a high level of reliability despite this type of contact loading, circuit elements are required for arc suppression. Several options are available.



Arc limit of pure contact metals

D.C. circuits with a resistive load

An RC element which is connected in parallel to the contact can be used for arc suppression.



RC element parallel

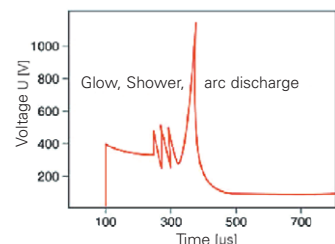
At the point of disconnection, the voltage U_c at the contact jumps from zero to the value $U \times R / (R + R_L)$ and then rises according to the function $U_c = U (1 - e^{-t/\tau})$ whereby $\tau = (R + R_L) \times C$. The resistance R must be high enough so that the combined total of the condenser discharge current and the switching current at start-up is less than the maximum permitted starting current.

$$R > U / (I_{zul} U / R)$$

At a switching frequency $1/T$, the capacitor should have discharged its load again before the contact is reopened. This is essentially guaranteed if $C < T/2R$ has been selected.

D.C. circuits with an inductive load

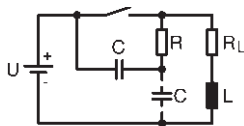
While the maximum switching voltage U is applied when a resistive load is present at the contact, voltage peaks that are approximately 10 times as high can occur in the case of an inductive load.



Voltage characteristics at the relay contact for inductive loads

flare

To avoid harmful discharge processes, it is necessary to prevent a sudden disruption in the flow of current and simultaneously ensure that the voltage rise at the contact, which is limited by the degradation of the magnetic field, takes place at a slower rate than the opening of the contact. This counteracts the occurrence of a discharge process and an air gap is therefore created as quickly as possible after the opening of the contact whose igniting voltage far exceeds the voltage building up at the contacts. An RC element which lies parallel to the contact can also be used for this purpose.



RC element for inductive load

When the contact opens, a charging current which is subsiding after an e function, flows into the capacitor. This slows down the absorption of the current that is flowing through the inductor and the peak value of the voltage at the contact is simultaneously reduced. The following serves as a practical, approximate value for the rating of the capacitor

$$C (\mu F) \cong I^2 / 10 (A)$$

where **I** represents the respective switching current. The resistance must be rated so that the combined total of the capacitor discharge current and the switching current is again less than the permitted starting current.

Another possibility is the parallel connection of an RC element to the load itself (see diagram above). This protective measure is equally effective. The disadvantage of both arrangements is the use of relatively large and therefore expensive capacitors.

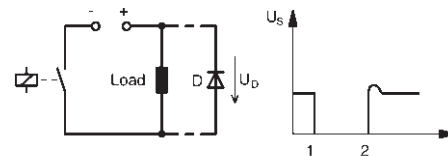
RC circuit for a.c. load

A VDR resistor (Voltage Dependent Resistor) or varistor can be connected in parallel to the load in this application in order to protect the contact. The resistance of this component is low for high voltage levels and high for low voltage levels. Varistors are therefore extremely suitable for the suppression of arcs in a.c. circuits. Table 2 gives an overview of further possibilities for arc suppression.

Protective circuit for load	Additional dropout delay	Defined limit for induced voltage	Bipolar attenuation	Benefits / Disadvantages
Diode	long	yes (U_D)	no	Benefits: Simple implementation Cost effective Reliable Non-critical dimensioning Small induced voltage Disadvantages: Attenuation only via load resistance Long dropout delay
Series-connected diode / Zener diode	medium to short	yes (U_{ZD})	no	Benefit: Non-critical dimensioning Disadvantage: Attenuation only above U_{ZD}
Suppressor diode	medium to short	yes (U_{ZD})	yes	Benefits: Cost effective Non-critical dimensioning Suitable for AC voltage Limit of positive peaks Disadvantage: Attenuation only above U_{ZD}
Varistor	medium to short	yes (U_{VDR})	yes	Benefits: High absorption of energy Non-critical dimensioning Suitable for AC voltage Disadvantage: Attenuation only above U_{VDR}
RC Combination	medium to short	no	yes	Benefits: HF attenuation of stored energy Suitable for AC voltage Attenuation is not dependent on the level Disadvantages: Exact values required High inrush current Sensitive to harmonic waves

Table 2: Overview of protective measures on the switch output

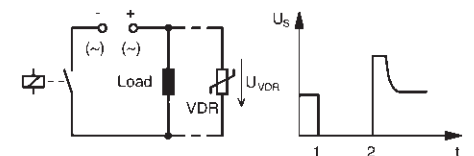
Diode:



Benefit: Can be used for all capacities, low overvoltage, compact, cost-effective

Disadvantage: Very high resetting time

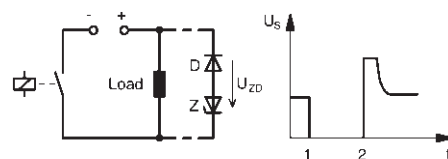
Varistor:



Benefit: Low resetting time, cost-effective

Disadvantage: Cannot be used for all operating voltages and capacities

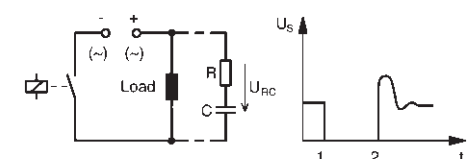
Diode and Zener diode:



Benefit: Low overvoltage (defined by Zener diode), low resetting time

Disadvantage: Cannot be used for large capacities

RC combination:

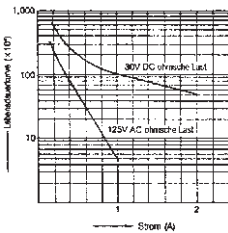


Benefit: Low overvoltage, low resetting time

Disadvantage: High current loading of the contacts at start-up, more costly and time-consuming with increased capacity

Endurance

A distinction is made in relay modules between mechanical and electrical endurance. The mechanical endurance defines the maximum number of operating cycles without contact loading while the electrical endurance describes the switching frequency at a maximum switching capacity for resistive load. A low switching capacity increases these values considerably. The following diagram indicates the typical waveform between the switching current and endurance of a relay. Figures for each relay module is shown on the relevant catalogue data page.



Typical endurance curve of a relay

Safety separation – VDE 0106

The safety separation of coupled switching circuits in the relay modules means that the isolating voltage between the control and load circuit is retained even in the event of a mechanical failure (bent soldered pin, broken coil winding or spring). When using solid-state relays or electronic relays, this requirement is met using double or reinforced insulation. The norms DIN 50178, VDE 0106 and 109 form the basis for safety separation. VDE 0884 also applies to solid-state relays.

All Wieland modules meet these requirements.

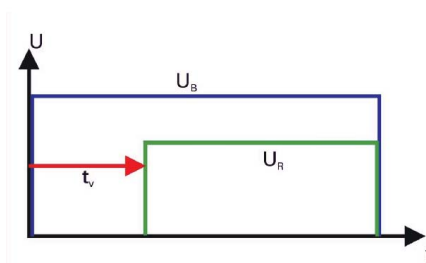
Timer relay modules

Wieland timer relays are electromechanical relays with an integrated time response. The time response is defined according to VDE 0435 section 201/5.83. The respective time range is either fixed or set via a DIP switch depending on the type. Fine-tuning within the time range can also be carried out via a potentiometer. An integrated LED indicates the switching state of the relay.

Definition of the time response

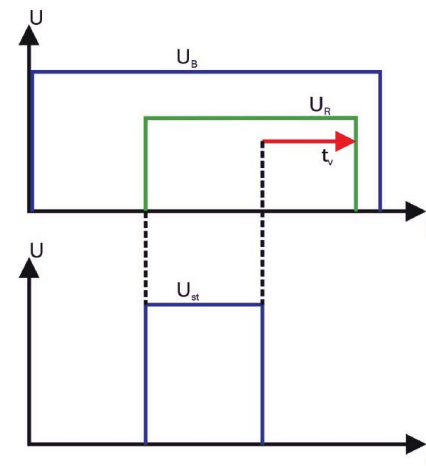
On delay

Operating voltage is applied; the relay switches to operating position after a set delay.



Operating voltage is applied; the relay remains in normal position

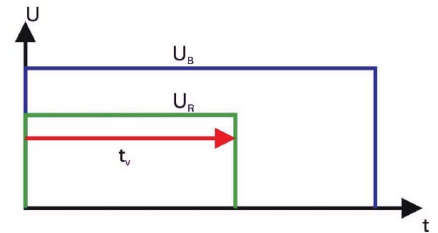
Off delay with control voltage



Control voltage is applied; the relay switches to operating position

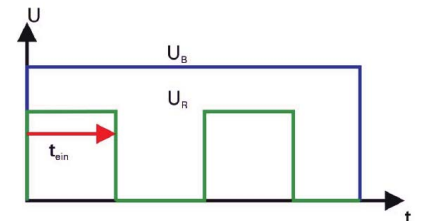
Control voltage is interrupted; time delay is activated; the relay drops out after the period has elapsed.

Single Shot

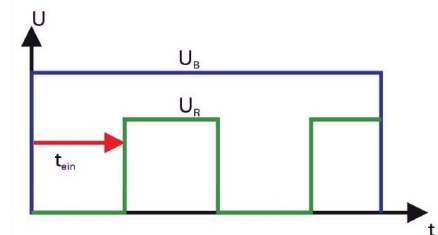


Operating voltage is applied; the relay switches to operating position and drops out after the set period

Cycle On – "pulsing"



Operating voltage is applied; relay starts clock pulse operation over the set period; relationship between pulse and pause is 1:1



Cycle Off – "pulsing delay"

Operating voltage is applied; relay starts clock pause operation over the set period; relationship between pulse and pause is 1:1

flare



**250 V AC / 300 V DC, 6 A
1 Changeover contact (SPDT)**

Approvals: , CSA



**48 V DC, 20 mA
1 Changeover contact (SPDT)**

Approvals: , CSA

Overall width 6.2 mm
Screw or spring clamp terminal
can be selected
Dimensions (mm): W x H x D
6.2 x 89 x 70

Operating voltage	Screw terminal	Spring-clamp	Std. pack	Screw terminal	Spring-clamp	Std. pack
12 V DC		80.010.4106.0	10			
24 V DC	80.010.4000.0	80.010.4100.0	10			
12 V AC/DC						
24 V AC/DC				80.010.4005.0	80.010.4105.0	10
115 V AC		80.010.4131.0	10			
230 V AC		80.010.4141.0	10			
Wiring diagram, derating curve, limit curve	See pages 464-465			See pages 464-465		
Coil circuit						
Operating voltage	12 V DC	24 V DC	115 V DC	230 V DC		
Range of voltage	UB +25 %/-20 %				UB +25 %/-20 %	
Nominal input current	18 mA	ca. 14 mA	3.9 mA	3 mA	ca. 14 mA	
Nominal input capacity	0.22 W	ca. 0.35 W	0.48 W	0.65 W	ca. 0.35 W	
Holding current at 20 °C	≥ 2.3 mA	> 1.2 mA	≥ 0.6 mA	≥ 0.3 mA	> 1.2 mA	
Connectable via plug-in jumper	Up to 50 modules				Up to 50 modules	
Status display	LED Green				LED Green	
Switching characteristics						
Maximum switching voltage	250 V AC / 300 V DC				48 V DC	
Maximum switching current	6 A AC / 2 A DC				20 mA	
Maximum switching capacity	1500 VA / 48 W				1 W	
Maximum starting current	10 A; 4 sec.					
Pickup/dropout delay	8 ms / 10 ms				8 ms / 10 ms	
Chatter time	2 ms				2 ms	
Maximum switching frequency	20 Hz				20 Hz	
Contact material	AgSnO ₂				AgSnO ₂ + 3µ Au	
Minimum switchable voltage	12 V				5 V	
Minimum switchable current	5 mA				1 mA	
Mechanical endurance	2 x 10 ⁷				2 x 10 ⁷	
Electrical endurance 24 V DC / 2 A	6 x 10 ⁵				6 x 10 ⁵	
Electrical endurance 230 V AC / 6 A	8 x 10 ⁴				8 x 10 ⁴	
Rated voltage						
Isolation voltage of input/output	4 kV _{eff}				4 kV _{eff}	
Overvoltage category	III (according to HD 625.1S1)				III (according to HD 625.1S1)	
Degree of pollution	2 (according to HD 625.1S1)				2 (according to HD 625.1S1)	
Ambient temperature	0 °C...+50 °C				0 °C...+50 °C	
Storage temperature	-40 °C...+55 °C				-40 °C...+55 °C	
Protection type/mounting rail	IP 20 / TS35				IP 20 / TS35	
Norms/specifications	VDE 0160; VDE 0106 T101				VDE 0160; VDE 0106 T101	
Emitted interference/interference immunity	EN 61000-6-3; EN 61000-6-2				EN 61000-6-3; EN 61000-6-2	
Wire range of screw terminal/spring clamp terminal	24 – 10 AWG / 24 – 12 AWG					
finely stranded	0.14 mm ² – 1.5 mm ²					
single core	0.5 mm ² – 2.5 mm ²					
CSA EX approval	Class I, Division 2, Groups A, B, C and D, T6				Class I, Division 2, Groups A, B, C and D, T6	
Accessories						
Plug-in jumper (U _{max} = 50 V, I _{max} = 2 A)	Z8.000.0200.8				Z8.000.0200.8	
8 digit marker tag, unmarked, 60 off	Z4.242.5153.0				Z4.242.5153.0	
Comb for potential distribution, red/blue*	Z8.000.0202.3 / Z8.000.0202.4				Z8.000.0202.3 / Z8.000.0202.4	
End caps for comb red/blue	Z8.000.0202.1 / Z8.000.0202.2				Z8.000.0202.1 / Z8.000.0202.2	
* for screw terminals only						



Overall width 12.4 mm
Spring clamp

Dimensions (mm): W x H x D
6.2 x 89 x 70

250 V AC / 300 V DC, 6 A (DPDT)
2 Changeover contacts
Approvals: , CSA

Operating voltage	Screw terminal	Spring-clamp	Std. pack
12 V DC			
24 V DC		80.010.4103.0	10
12 V AC/DC			
24 V AC/DC			
115 V AC			
230 V AC			
Wiring diagram, derating curve, limit curve	See pages 464-465		
Coil circuit			
Operating voltage	UB +25 %/-20 %		
Nominal input current	ca. 14 mA		
Nominal input capacity	ca. 0.35 W		
Holding current at 20 °C	> 1.2 mA		
Connectable via plug-in jumper	Up to 50 modules		
Status display	LED Green		
Switching characteristics			
Maximum switching voltage	250 V AC / 300 V DC		
Maximum switching current	6 A AC / 2 A DC		
Maximum switching capacity	1500 VA / 48 W		
Maximum starting current	10 A; 4 sec.		
Pickup/dropout delay	8 ms / 10 ms		
Chatter time	2 ms		
Maximum switching frequency	20 Hz		
Contact material	AgSnO ₂		
Minimum switchable voltage	24 V		
Minimum switchable current	5 mA		
Mechanical endurance	2 x 10 ⁷		
Electrical endurance 24 V DC / 2 A	6 x 10 ⁵		
Electrical endurance 230 V AC / 6 A	8 x 10 ⁴		
Rated voltage			
Isolation voltage of input/output	4 kV _{eff.}		
overvoltage category	III (according to HD 625.1S1)		
Degree of pollution	2 (according to HD 625.1S1)		
Ambient temperature	0 °C...+50 °C		
Storage temperature	-40 °C...+55 °C		
Protection type/mounting rail	IP 20 / TS35		
Norms/specifications	VDE 0160; VDE 0106 T101		
Emitted interference/interference immunity	EN 61000-6-3; EN 61000-6-2		
Wire range of screw terminal/spring clamp terminal	24 – 10 AWG / 24 – 12 AWG		
finely stranded	0.14 mm ² – 1.5 mm ²		
single core	0.5 mm ² – 2.5 mm ²		
Accessories			
Plug-in jumper (U _{max} = 50 V, I _{max} = 2 A)	Z8.000.0200.8		
8 digit marker tag, unmarked, 60 off	Z4.242.5153.0		

Relay modules Plug-in relays

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flare MOVE



Overall width: 6.2 mm
plug-in relay, screw clamp

Dimensions (mm): W x H x D
6.2 x 88 x 76

**Coil voltage 12 V DC / Output
250 V AC / 6 A / 1 Changeover contact
(SPDT)**

**Coil voltage 24 V DC / Output
250 V AC / 6 A / 1 Changeover contact
(SPDT)**

Operating voltage	AgSnO ₂	AgSnO ₂ + Au (5 μ)VPE	AgSnO ₂	AgSnO ₂ + Au (5 μ) VPE
12 V DC Relays c/w Base	80.010.4501.0	80.010.4501.1 10		
24 V DC Relays c/w Base			80.010.4502.0	80.010.4502.1 10
Coil circuit (identical for both types of contact material)				
Nominal operating voltage	12 V DC	12 V AC/DC	24 V DC	24 V AC/DC
Maximum operating voltage	16.8 V DC	16.8 V DC	33.6 V DC	33.6 V DC
Minimum operating voltage	8.4 V DC	9.1 V DC	16.8 V DC	18.2 V DC
Nominal input current	15.2 mA	15.2 mA	9.4 mA	9.4 mA
Nominal input capacity AC/DC	0.2 W	0.25 VA	0.23 W	0.3 VA
Operating range	(0.7...2.2) U _N	(0.85...1.1) U _N	(0.7...2.2) U _N	(0.85...1.1) U _N
Connectable via plug-in jumper	Up to 20 modules		Up to 20 modules	
Status display	LED Green		LED Green	
Switching characteristics	AgSnO₂	AgSnO₂ + Au (5 μ)	AgSnO₂	AgSnO₂ + Au (5 μ)
Maximum switching voltage	400 V AC		400 V AC	
Nominal switching voltage	250 V AC		250 V AC	
Maximum switching current	6 A AC/DC		6 A AC/DC	
Maximum switching capacity	1500 VA / 150 W		1500 VA / 150 W	
Maximum starting current	30 A (0.5 sec.)		30 A (0.5 sec.)	
Pickup/dropout delay (including chatter)	7 ms / 11 ms		7 ms / 11 ms	
Maximum switching frequency	20 Hz (without load); 0.1 Hz (at full load)		20 Hz (without load); 0.1 Hz (at full load)	
Contact material	AgSnO ₂	AgSnO ₂ + Au (5 μm)	AgSnO ₂	AgSnO ₂ + Au (5 μm)
Minimum switchable voltage	12 V AC/DC	5 V AC/DC	12 V AC/DC	5 V AC/DC
Minimum switchable current	10 mA AC/DC	2 mA AC/DC	10 mA AC/DC	2 mA AC/DC
Minimum switching capacity	500 mW	50 mW	500 mW	50 mW
Mechanical endurance	1 x 10 ⁷		1 x 10 ⁷	
Electrical endurance 230 V AC / 6 A	6 x 10 ⁴		6 x 10 ⁴	
Rated voltage	250 V		250 V	
Isolation voltage of input/output	4 kV _{eff.}		4 kV _{eff.}	
Overvoltage category	III (according to HD 625.1S1)		III (according to HD 625.1S1)	
Degree of pollution	2 (according to HD 625.1S1)		2 (according to HD 625.1S1)	
Ambient temperature	0 °C...+50 °C		0 °C...+50 °C	
Storage temperature	-40 °C...+55 °C		-40 °C...+55 °C	
Protection type/mounting rail	IP 20 / TS35		IP 20 / TS35	
Norms/specifications				
Wire range of screw terminal:	24 – 12 AWG		24 – 12 AWG	
finely stranded/single core	0.14 mm ² –1.5 mm ² / 0.5 mm ² –2.5 mm ²		0.14 mm ² –1.5 mm ² / 0.5 mm ² –2.5 mm ²	
Accessories	Relay type	Part no.	Std. pack	Relay-Type
Relay 12 V DC	AgSnO ₂	80.063.4031.0	10	AgSnO ₂
Relay 12 V DC	AgSnO ₂ + Au (5 μ)	80.063.4031.1	10	AgSnO ₂ + Au (5 μ)
Relay 24 V DC	AgSnO ₂	80.063.4032.0	10	AgSnO ₂
Relay 24 V DC	AgSnO ₂ + Au (5 μ)	80.063.4032.1	10	AgSnO ₂ + Au (5 μ)
Insulating plate	IP SF38	80.063.4009.1		IP SF38
Comb-shaped jumper, continuous current 36 A	KB SF38	80.063.4029.3		KB SF38
Marker tag (plastic, white)	BZ SF38	80.063.4029.3		BZ SF38
Labelling mat	BM SF38	80.063.4129.3		BM SF38

flare MOVE



Overall width: 6.2 mm
plug-in relay, screw clamp

Dimensions (mm): W x H x D
6.2 x 88 x 76

**Coil voltage 110 V AC/DC / Output
250 V AC / 6 A / 1 Changeover contact
(SPDT)**

**Coil voltage 230 V AC/DC/Output
250 V AC / 6 A / 1 Changeover contact
(SPDT)**

Operating voltage	AgSnO ₂	AgSnO ₂ + Au (5 μ)	AgSnO ₂	AgSnO ₂ + Au (5 μ)		
110 V AC/DC Relay c/w Base	80.010.4525.0	80.010.4525.1				
230 V AC/DC Relay c/w Base			80.010.4526.0	80.010.4526.1		
Coil circuit						
Nominal operating voltage	110 V AC/DC (50/60 Hz)		230 V AC/DC (50/60 Hz)			
Maximum operating voltage	132 V AC		255 V AC			
Minimum operating voltage	83.5 V AC		175 V AC			
Nominal input current	3.1 mA		3.1 mA			
Nominal input capacity AC/DC	0.6 VA		0.9 VA			
Operating range	(0.85...1.1) U _N		(0.85...1.1) U _N			
Connectable via a plug-in jumper	Up to 20 modules		Up to 20 modules			
Status display	LED Green		LED Green			
Switching characteristics						
	AgSnO ₂	AgSnO ₂ + Au (5 μ)	AgSnO ₂	AgSnO ₂ + Au (5 μ)		
Maximum switching voltage	400 V AC		400 V AC			
Nominal switching voltage	250 V AC		250 V AC			
Maximum switching current	6 A AC/DC		6 A AC/DC			
Maximum switching capacity	1500 VA / 150 W		1500 VA / 150 W			
Maximum starting current	30 A (0.5 sec.)		30 A (0.5 sec.)			
Pickup/dropout delay (including chatter)	7 ms / 11 ms		7 ms / 11 ms			
Maximum switching frequency	20 Hz (without load); 0.1 Hz (at full load)		20 Hz (without load); 0.1 Hz (at full load)			
Contact material	AgSnO ₂	AgSnO ₂ + Au (5 μm)	AgSnO ₂	AgSnO ₂ + Au (5 μm)		
Minimum switchable voltage	12 V AC/DC	5 V AC/DC	12 V AC/DC	5 V AC/DC		
Minimum switchable current	10 mA AC/DC	2 mA AC/DC	10 mA AC/DC	2 mA AC/DC		
Minimum switching capacity	500 mW	50 mW	500 mW	50 mW		
Mechanical endurance	1 x 10 ⁷		1 x 10 ⁷			
Electrical endurance 230 V AC / 6 A	6 x 10 ⁴		6 x 10 ⁴			
Rated voltage	250 V		250 V			
Isolation voltage of input/output	4 kV _{eff.}		4 kV _{eff.}			
Overvoltage category	III (according to HD 625.1S1)		III (according to HD 625.1S1)			
Degree of pollution	2 (according to HD 625.1S1)		2 (according to HD 625.1S1)			
Ambient temperature	0 °C...+50 °C		0 °C...+50 °C			
Storage temperature	-40 °C...+55 °C		-40 °C...+55 °C			
Protection type/mounting rail	IP 20 / TS35		IP 20 / TS35			
Norms/specifications						
Wire range of screw terminal:						
finely stranded/single core	0.14 mm ² - 1.5 mm ² / 0.5 mm ² - 2.5 mm ² 24 - 12 AWG		0.14 mm ² - 1.5 mm ² / 0.5 mm ² - 2.5 mm ² 24 - 12 AWG			
Accessories						
	Relay-Type	Part no.	Std. pack	Relay-Type	Part no.	Std. pack
Relay 110 V AC/DC	AgSnO ₂	80.063.4034.0	10	AgSnO ₂	80.063.4034.0	10
Relay 110 V AC/DC	AgSnO ₂ + Au (5 μ)	80.063.4034.1	10	AgSnO ₂ + Au (5 μ)	80.063.4034.1	10
Relay 230 V AC/DC	AgSnO ₂	80.063.4026.0	10	AgSnO ₂	80.063.4026.0	10
Relay 230 V AC/DC	AgSnO ₂ + Au (5 μ)	80.063.4026.1	10	AgSnO ₂ + Au (5 μ)	80.063.4026.1	10
Insulating plate	IP SF38	80.063.4009.1		IP SF38	80.063.4009.1	
Comb-shaped jumper, continuous current 36 A	KB SF38	80.063.4029.3		KB SF38	80.063.4029.3	
Marker tag (plastic, white)	BZ SF38	80.063.4029.3		BZ SF38	80.063.4029.3	
Labelling mat	BM SF38	80.063.4129.3		BM SF38	80.063.4129.3	

flare



Overall width 6.2 mm
For input/output separation

Dimensions (mm): W x H x D
6.2 x 89 x 70

Isolating blade terminal relay (SPDT) Change over 1 contact

Approvals: , CSA

Hand-O-Auto relay (SPDT) 1 make contact

Approvals: , CSA

Operating voltage	Screw terminal	Spring-clamp	Std. pack	Screw terminal	Spring-clamp	Std. pack
12 V DC						
24 V DC						
12 V AC/DC						
24 V AC/DC		80.010.4120.0	10	80.010.4101.0		10
115 V AC						
230 V AC						
Wiring diagram, derating curve, limit curve	See pages 464-465			See pages 464-465		
Coil circuit						
Operating voltage	UB +25 %/-20 %			UB +25 %/-20 %		
Nominal input current	ca. 14 mA			ca. 14 mA		
Nominal input capacity	ca. 0.35 W			ca. 0.35 W		
Holding current at 20 °C	> 1.2 mA			> 1.2 mA		
Connectable via plug-in jumper	Up to 50 modules			Up to 50 modules		
Status display	LED Green			LED Green		
Switching characteristics						
Maximum switching voltage	250 V AC / 300 V DC			250 V AC / 300 V DC		
Maximum switching current	6 A AC / 2 A DC			6 A AC / 2 A DC		
Maximum switching capacity	1500 VA / 48 W			1500 VA / 48 W		
Maximum starting current	10 A; 4 sec.			10 A; 4 sec.		
Pickup/dropout delay	8 ms / 10 ms			8 ms / 10 ms		
Chatter time	2 ms			2 ms		
Maximum switching frequency	20 Hz			20 Hz		
Contact material	AgSnO ₂			AgSnO ₂		
Minimum switchable voltage	12 V			12 V		
Minimum switchable current	5 mA			5 mA		
Mechanical endurance	2 x 10 ⁷			2 x 10 ⁷		
Electrical endurance 24 V DC / 2 A	6 x 10 ⁵			6 x 10 ⁵		
Electrical endurance 230 V AC / 6 A	8 x 10 ⁴			8 x 10 ⁴		
Rated voltage						
Isolation voltage of input/output	4 kV _{eff.}			4 kV _{eff.}		
Overvoltage category	III (according to HD 625.1S1)			III (according to HD 625.1S1)		
Degree of pollution	2 (according to HD 625.1S1)			2 (according to HD 625.1S1)		
Ambient temperature	0 °C...+50 °C			0 °C...+50 °C		
Storage temperature	-40 °C...+55 °C			-40 °C...+55 °C		
Protection type/mounting rail	IP 20 / TS35			IP 20 / TS35		
Norms/specifications	VDE 0160; VDE 0106 T101			VDE 0160; VDE 0106 T101		
Emitted interference/interference immunity	EN 61000-6-3; EN 61000-6-2			EN 61000-6-3; EN 61000-6-2		
Wire range of screw terminal	-			-		
Wire range of spring clamp terminal	24 - 12 AWG			24 - 12 AWG		
finely stranded	0.14 mm ² - 1.5 mm ²			0.14 mm ² - 1.5 mm ²		
single core	0.5 mm ² - 2.5 mm ²			0.5 mm ² - 2.5 mm ²		
CSA EX approval in range	Class I, Division 2, Groups A, B, C and D, T6			Class I, Division 2, Groups A, B, C and D, T6		
Accessories						
Plug-in jumper (U _{max} = 50 V, I _{max} = 2 A)	Z8.000.0200.8			Z8.000.0200.8		
8 digit marker tag, unmarked, 60 off	Z4.242.5153.0			Z4.242.5153.0		
Comb for potential distribution, red/blue	Z8.000.0202.3 / Z8.000.0202.4			Z8.000.0202.3 / Z8.000.0202.4		
End caps for comb, red/blue	Z8.000.0202.1 / Z8.000.0202.2			Z8.000.0202.1 / Z8.000.0202.2		

Relay modules

Operating voltage: 24 V / 48 V

WEG



**250 V AC / 125 V DC, 3 A (SPST, N.O.)
1 Make contact**



**250 V AC / 250 V DC, 5 A (SPDT)
1 Changeover contact**

Overall width 20mm & 22.5mm
Screw clamp

Dimensions (mm): W x H x D

Approvals:
22.5 x 58 x 90.5

Operating voltage	Type	Part no.	Std. pack	Type	Part no.	Std. pack
24 V AC/DC	WEG-REL-1S-250V3A	57.800.0053.0	1	WEG-REL-1W-250V5A	57.800.5053.0	1
48 V AC/DC				WEG-REL-1W-250V5A	57.800.5053.0	1
115 V AC/DC						
230 V AC						
Wiring diagram, derating curve, limit curve	See pages 466-467			See pages 466-467		
Coil circuit						
Operating voltage	22 V AC/DC			24 V AC/DC ±10%	48 V AC/DC ±10%	
Nominal input current	22 mA AC / 14 mA DC			27 mA AC / 17 mA DC	21 mA AC / 18 mA DC	
Nominal input capacity	0.54 VA / 0.34 W			0.65 VA / 0.4 W	1.0 VA / 0,85 W	
Holding current at 20 °C	5.5 mA AC / 2.6 mA DC			7.4 mA AC / 3.5 mA DC	5.7 mA AC / 3.5 mA DC	
Switching characteristics						
Maximum switching voltage	250 V AC / 125 V DC ¹⁾			250 V AC / 250 V DC ¹⁾		
Maximum starting current	3 A AC/DC ¹⁾			5 A AC/DC ¹⁾		
Maximum switching capacity	1200 V A / 120 W ¹⁾			2000 V A / 100 W ¹⁾		
Maximum continuous current	16 A (25 ms)			16 A AC (max. 4 s, 10% ED)		
Pickup/dropout delay approx.	8.5 ms / 16 ms			9.4 ms / 17.6 ms		
Chatter time	2 ms			3 ms		
Maximum switching frequency						
Contact material	AgNi 0,15 + 1 μ Au			AgNi 0.15 + 0.2 μ Au		
Minimum switchable voltage	80 mV			12 V DC		
Minimum switchable current	50 μA			10 mA		
Mechanical endurance	> 20 x 10 ⁶			> 20 x 10 ⁶		
Electrical endurance at 24 V DC / 1 A	> 6 x 10 ⁵			> 6 x 10 ⁶		
Electrical endurance at 230 V AC / 3 A	> 1 x 10 ⁵			> 7 x 10 ⁵		
Rated voltage						
Isolation voltage of input/output	2 kV _{eff.}			2 kV _{eff.}		
Overvoltage category						
Degree of pollution						
Ambient temperature	-25 °C...Derating			-25 °C...Derating		
Storage temperature	-40 °C...+85°C			-40 °C...+85°C		
Protection type/mounting rail	IP 20/TS 32 or TS35			IP 20/TS 32 or TS 35		
Norms/specifications						
Emitted interference/interference immunity						
Wire range, finely stranded/single core	0.14 mm ² – 4 mm ² / 0.14 mm ² – 6 mm ² / 20 – 10 AWG			0.14 mm ² – 4 mm ² / 0.14 mm ² – 6 mm ² / 20 – 10 AWG		
Location of mounting rail	horizontal			horizontal		
Accessories						
¹⁾ see limit curve on page 465						

WEG



Overall width 22.5mm
Screw clamp

**250 V AC / 250 V DC 4 A (DPDT)
2 Changeover contact**

Approvals:
22.5 x 58 x 90.5

Dimensions (mm): W x H x D

Operating voltage	Type	Part no.	Std. pack
24 V AC/DC	WEG-REL-2W-250V5A	57.800.7053.0	1
48 V AC/DC			
115 V AC/DC			
230 V AC			
Wiring diagram, derating curve, limit curve	See pages 466-467		
Coil circuit			
Operating voltage	22 V AC/DC		
Nominal input current	31 mA AC / 29 mA DC		
Nominal input capacity	0.75 VA / 0.7 W		
Holding current at 20 °C	4.7 mA AC / 3.6 mA DC		
Switching characteristics			
Maximum switching voltage	250 V AC / 250 V DC ¹⁾		
Maximum starting current	4 A AC/DC ¹⁾		
Maximum switching capacity	1100 V A / 140 W ¹⁾		
Maximum continuous current	15 A AC (200 ms)		
Pickup/dropout delay approx.	16 ms / 20 ms		
Chatter time	3 ms		
Maximum switching frequency			
Contact material	AgCu ₃ + 0,2 μ Au		
Minimum switchable voltage	12 V DC		
Minimum switchable current	10 mA		
Mechanical endurance	> 3 x 10 ⁷		
Electrical endurance at 24 V DC / 1 A	> 2 x 10 ⁶		
Electrical endurance at 230 V AC / 3 A	> 6 x 10 ⁵		
Rated voltage			
Isolation voltage of input/output	2 kV _{eff.}		
Overvoltage category			
Degree of pollution			
Ambient temperature	-25 °C...Derating		
Storage temperature	-40 °C...+85 °C		
Protection type/mounting rail	IP 20/TS 32 or TS 35		
Norms/specifications			
Emitted interference/interference immunity			
Wire range, finely stranded/single core	0.14 mm ² – 4 mm ² / 0.14 mm ² – 6 mm ² / 20 – 10 AWG		
Location of mounting rail	horizontal		
Accessories			
¹⁾ see limit curve on page 465			

Relay modules

Operating voltage: 115 V / 230 V

WEG



**250 V AC / 125 V DC, 1 A (SPDT, N.O.)
1 Make contact**



**250 V AC / 250 V DC, 3 A (SPDT)
1 Changeover contact**

Approvals:
20 x 58 x 90.5

Overall width 20mm
Screw clamp

Dimensions (mm): W x H x D

Operating voltage	Type	Part no.	Std. pack	Type	Part no.	Std. pack
115 V AC/DC				WEG-DUO-1W-250V3A	57.800.5153.0	1
230 V AC	WEG-230-1S-250V1A	57.800.0353.0	1	WEG-DUO-1W-250V3A	57.800.5153.0	1
Wiring diagram, derating curve, limit curve	See pages 466-467			See pages 466-467		
Coil circuit						
Operating voltage	UB +6 %/-10 %			115 V AC/DC +6 %/-10 % 230 V AC/DC +6 %/-10 %		
Nominal input current	14 mA AC			12 mA AC/DC		10 mA AC/DC
Nominal input capacity	3.2 VA			1.3 VA / 1.3 W		2.3 V A / 2.3 W
Holding current at 20°C	4.4 mA AC			2.8 mA AC / 2.4 mA DC		3.6 mA AC / 2.6 mA DC
Switching characteristics						
Maximum switching voltage	250 V AC / 125 V DC ¹⁾			250 V AC / 250 V DC ¹⁾		
Maximum starting current	1 A AC/DC ¹⁾			3 A AC/DC ¹⁾		
Maximum switching capacity	1200 V A / 120 W ¹⁾			2000 V A / 100 W ¹⁾		
Maximum continuous current	16 A (25 ms)			16 A AC (max. 4 s, 10% ED)		
Pickup/dropout delay approx.	5.5 ms / 8.2 ms			12 ms / 8 ms		
Chatter time	2 ms			3 ms		
Maximum switching frequency						
Contact material	AgNi 0,15 + 1 µ Au			AgNi 0.15 + 0.2 µ Au		
Minimum switchable voltage	80 mV			12 V DC		
Minimum switchable current	50 µA			10 mA		
Mechanical endurance	> 20 x 10 ⁶			> 20 x 10 ⁶		
Electrical endurance at 24 V DC / 1 A	> 6 x 10 ⁶			> 6 x 10 ⁶		
Electrical endurance at 230 V AC / 3 A	> 1 x 10 ⁵			> 7 x 10 ⁵		
Rated voltage						
Isolation voltage of input/output	2 kV _{eff.}			2 kV _{eff.}		
Overvoltage category						
Degree of pollution						
Ambient temperature	-25 °C...Derating			-25 °C...Derating		
Storage temperature	-40 °C...+85 °C			-40 °C...+85 °C		
Protection type/mounting rail						
Norms/specifications	IP 20/TS 32 or TS 35			IP 20/TS 32 or TS 35		
Emitted interference/interference immunity						
Wire range, finely stranded/single core	0.14 mm ² – 4 mm ² / 0.14 mm ² – 6 mm ² / 20 – 10 AWG			0.14 mm ² – 4 mm ² / 0.14 mm ² – 6 mm ² / 20 – 10 AWG		
Location of mounting rail	horizontal			horizontal		

¹⁾ see limit curve on page 465

Relay modules
for current signals – 4...20 mA – 0...20 mA

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current relay



Overall width 22.5mm
Screw clamp

380 V AC / 125 V DC 7 A (SPDT)

1 Changeover contact

Approvals: , CSA

22.5 x 58 x 90.5

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack
0-20mA Trip Amplifier Relay	SR 4...20 mA	57802.3053.0	1
1 set point			
Wiring diagram	See page 468		
Coil circuit			
Operating voltage with filtering	9,5 V...40 V		
Operating voltage without filtering	8 V...27 V		
Nominal input current at 40 V			
	with relay off ca. 7 mA		
	with relay on ca. 35 mA		
Current input R, 100 Ω (max. 7 V)	4...20 mA		
Switching threshold (adjusted with potentiometer)	2...20 mA		
Residual ripple I _{max} at measured current 22 mA	5 mA _{SS} / 5 mA _{pp}		
Residual ripple I _{max} at measured current 2 mA	0.5 mA _{SS} / 0.5 mA _{pp}		
Switching hysteresis	ca. 0.4 mA		
Switching characteristics			
Maximum switching voltage	380 V AC / 125 V DC		
Maximum switching current	7 A		
Maximum switching capacity	1750 V A / 210 W		
Permitted minimum load	5 V DC / 10 mA		
Nominal current load	250 V AC, 7 A / 30 V DC, 7 A		
Isolation voltage of input/output	250 V _{eff}		
Isolation voltage of terminal TS	2 kV _{eff}		
Overvoltage category	III		
Degree of pollution	2		
Ambient temperature, connected in series without intervals	0 °C...50 °C		
Ambient temperature, connected in series with interval of 2 cm	0 °C...60 °C		
Storage temperature	-40 °C...+85 °C		
Protection type/mounting rail	IP 20/TS 35		
Norms/specifications			
Location of mounting rail	horizontal		
Wire range	20 – 10 AWG		
Accessories			

Relay modules



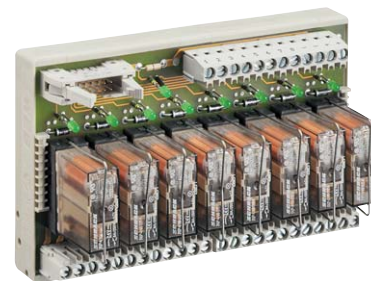
Relay output modules

- 1 relay
- 4 relay
- 8 relay
- 16 relay



**250 V AC / 24 V DC 5 A (SPDT)
1 Changeover contact**

Approvals:
12.5 x 80 x 58.3



**250 V AC / 24 V DC 5 A (SPDT)
1 Changeover contact**

Approvals:
70/128/280 x 80 x 71

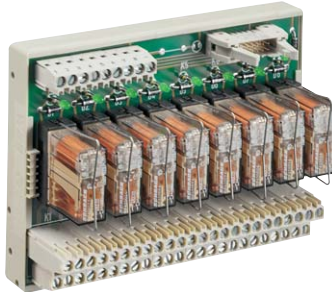
Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
1 relay	R12-12V-1W-250V5A	87.220.7553.0	10			
4 relay positive switching				RAB-SS 4	87.220.1853.0	1
8 relay positive switching				RAB-FSS 8	87.220.1953.3	1
16 relay positive switching				RAB-FSS 16	87.220.2253.3	1
4 relay negative switching				RAB-SS 4 M	87.221.5553.0	1
Wiring diagram, derating curve, limit curve	See page 469			See page 469		
Coil circuit						
Operating voltage	12 V AC/DC ±10%			24 V DC +10%/−15%		
Nominal input current per input	34 mA			25 mA		
Nominal power consumption	0.4 W			0.6 W		
Holding current at 20 °C	> 3.5 mA			> 2 mA		
Status display	LED Green			LED Green		
Switching characteristics						
Maximum switching voltage	250 V AC / ¹⁾ V DC			250 V AC / ¹⁾ V DC		
Maximum switching current	8 A AC/ ¹⁾ A DC			8 A AC/ ¹⁾ A DC		
Maximum switching capacity	2000 VA / 120 W			2000 VA / 120 W		
Maximum continuous current	5 A AC/DC ¹⁾			5 A AC/DC ¹⁾		
Pickup/dropout delay approx	9 ms / 12 ms			9 ms / 12 ms		
Chatter time	4 ms			4 ms		
Maximum switching frequency	40 Hz			40 Hz		
Contact material	AgCdO			AgCdO		
Minimum switchable voltage	12 V			12 V		
Minimum switchable current	100 mA			100 mA		
Mechanical endurance	3 x 10 ⁷			3 x 10 ⁷		
Electrical endurance at 24 V DC / 5 A	6 x 10 ⁵			6 x 10 ⁵		
Electrical endurance at 230 V AC / 5 A	6 x 10 ⁵			6 x 10 ⁵		
Rated voltage						
Isolation voltage of input/output	4 kV _{eff.}			4 kV _{eff.}		
Overvoltage category						
Degree of pollution						
Ambient temperature	−25 °C...Derating			−25 °C...Derating		
Storage temperature	−40 °C...+85 °C			−40 °C...+85 °C		
Mounting rail	TS 32 or TS 35			TS 32 or TS 35		
Norms/specifications						
Emitted interference/interference immunity						
Wire range, finely stranded/single core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG			0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG		
Location of mounting rail	horizontal			horizontal		
Accessories						
Replacement relay					Z8.000.0056.9	10
¹⁾ See limit curve on page 465						

RAB

Relay output modules

- 1 relay
- 4 relay
- 8 relay
- 16 relay



Important note for user:

In the case of multiple modules (1 changeover contact/2 changeover contacts), the outputs must be supplied from the same phase (e.g. L1)

250 V AC / 24 V DC, 5 A (DPDT) 2 Changeover contacts

Approvals:

70/128 x 80 x 71

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack
1 relay			
4 relay positive switching	RAB-SS 4/2	87.220.4753.3	1
8 relay positive switching	RAB-SS 8/2	87.220.4853.3	1
6 relay positive switching			
4 relay negative switching			
Wiring diagram, derating curve, limit curve	See page 469		
Coil circuit			
Operating voltage	24 V DC + 10 %/- 15 %		
Nominal input current	25 mA		
Nominal power consumption	0.6 W		
Holding current at 20 °C	> 2 mA		
Status display	LED Green		
Switching characteristics			
Maximum switching voltage	250 V AC / ¹⁾ V DC		
Maximum switching current	8 A AC/ ¹⁾ A DC		
Maximum switching capacity	2000 VA / 120 W		
Maximum continuous current	5 A AC/DC ¹⁾		
Pickup/dropout delay approx.	9 ms / 12 ms		
Chatter time	4 ms		
Maximum switching frequency	40 Hz		
Contact material	AgCdO		
Minimum switchable voltage	12 V		
Minimum switchable current	100 mA		
Mechanical endurance	3 x 10 ⁷		
Electrical endurance at 24 V DC / 5 A	6 x 10 ⁵		
Electrical endurance at 230 V AC / 5 A	6 x 10 ⁵		
Rated voltage			
Isolation voltage of input/output	4 kV _{eff.}		
Overvoltage category			
Degree of pollution			
Ambient temperature	-25 °C...Derating		
Storage temperature	-40 °C...+85 °C		
Mounting rail	TS 32 or TS 35		
Norms/specifications			
Emitted interference/interference immunity			
Wire range, finely stranded/single-core	0.5 mm ² - 2.5 mm ² / 0.5 mm ² - 4 mm ² / 22 - 12 AWG		
Location of mounting rail	horizontal		
Accessories			
Replacement relay		Z8.000.0035.5	10
¹⁾ See limit curve on page 465			

Relay modules



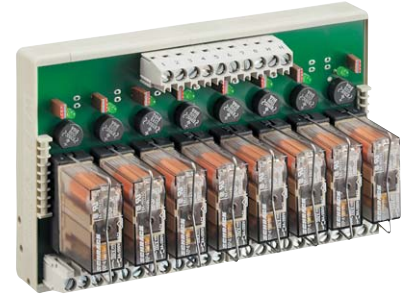
Relay modules input/output

- 1 relay
- 4 relay
- 8 relay



**250 V AC / 24 V DC 4 A (SPDT)
1 Changeover contact**

Approvals:
12.5 x 80 x 70



**250 V AC / 24 V DC 4 A (SPDT)
1 Changeover contact**

Approvals:
70/128 x 80 x 71

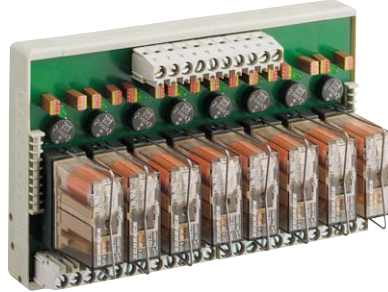
Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
1 relay						
4 relay				WR4-115-1W-250V4A	80.010.1102.0	1
8 relay				WR8-115-1W-250V4A	80.010.1110.0	1
Wiring diagram, derating curve, limit curve	See pages 470-471			See pages 470-471		
Coil circuit						
Operating voltage	230 V AC +6% / -10%			115 V AC +6% / -10%		
Nominal input current per input	ca. 4.5 mA AC			ca. 8.5 mA AC/DC		
Nominal power consumption	ca. 1.0 VA			ca. 0.95 VA/W		
Holding current at 20 °C	> 0.9 mA AC			> 1.3 mA AC / > 1.0 mA DC		
Suppression circuit for input	polarised diode, suppressor diode			polarised diode, suppressor diode		
Status display	LED Green			LED Green		
Switching characteristics						
Maximum switching voltage	250 V AC / ¹⁾ V DC			250 V AC / ¹⁾ V DC		
Maximum switching current	8 A AC / ¹⁾ A DC			8 A AC / ¹⁾ A DC		
Maximum switching capacity	2000 VA / 192 W			2000 VA / 192 W		
Maximum continuous current	4 A AC/DC			4 A AC/DC		
Pickup/dropout delay approx.	10 ms / 15 ms			12 ms / 13 ms		
Chatter time	4 ms			4,5 ms		
Maximum switching frequency	40 Hz			40 Hz		
Contact material	AgNi + 4...6 µ Au			AgNi 0.15 + 0.2 µ Au		
Minimum switchable voltage	µV			5 V		
Minimum switchable current	µA			10 mA		
Mechanical endurance	3 x 10 ⁷			3 x 10 ⁷		
Electrical endurance at 24 V DC / 4 A	3 x 10 ⁵			3 x 10 ⁵		
Electrical endurance at 230 V AC / 4 A	3 x 10 ⁵			3 x 10 ⁵		
Rated voltage						
Isolation voltage of input/output	4 kV _{eff.}			4 kV _{eff.}		
Overvoltage category						
Degree of pollution						
Ambient temperature	-25 °C...Derating			-25 °C...+50 °C		
Storage temperature	-40 °C...+80 °C			-40 °C...+80 °C		
Mounting rail	TS 32 or TS 35			TS 32 or TS 35		
Norms/specifications						
Emitted interference/interference immunity						
Wire range, finely stranded/single-core	0.5 mm ² - 2.5 mm ² / 0.5 mm ² - 4 mm ² / 22 - 12 AWG			0.5 mm ² - 2.5 mm ² / 0.5 mm ² - 4 mm ² / 22 - 12 AWG		
Location of mounting rail	horizontal			horizontal		
Accessories						
Replacement relay				Z8.000.0181.0		10
¹⁾ See limit curve on page 465						

WR

Relay module input/output

- 1 relay
- 4 relay
- 8 relay



250 V AC / 24 V DC 4 A (SPDT) 1 Changeover contact

Approvals:

70/128 x 80 x71

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack
1 relay			
4 relay	WR4-230-1W-250V4A	80.010.1106.0	1
8 relay	WR8-230-1W-250V4A	80.010.1114.0	1
Wiring diagram, derating curve, limit curve			
See pages 470-471			
Coil circuit			
Operating voltage	230 V AC/DC +6%/-10%		
Nominal input current per input	approx. 4.5 mA AC/DC		
Nominal power consumption	approx. 1.0 VA/W		
Holding current at 20 °C	> 0.7 mA AC / > 0.5 mA DC		
Suppression circuit for input	polarised diode, suppressor diode		
Status display	LED Green		
Switching characteristics			
Maximum switching voltage	250 V AC / ¹⁾ V DC		
Maximum switching current	8 A AC / ¹⁾ A DC		
Maximum switching capacity	2000 VA / 192 W		
Maximum continuous current	4 A AC/DC		
Pickup/dropout delay approx.	12 ms / 13 ms		
Chatter time	4.5 ms		
Maximum switching frequency	40 Hz		
Contact material	AgNi 0.15 + 0.2 µ Au		
Minimum switchable voltage	5 V		
Minimum switchable current	10 mA		
Mechanical endurance	3 x 10 ⁷		
Electrical endurance at 24 V DC / 4 A	3 x 10 ⁶		
Electrical endurance at 230 V AC / 4 A	3 x 10 ⁵		
Rated voltage			
Isolation voltage of input/output	4 kV _{eff.}		
Overvoltage category			
Degree of pollution			
Ambient temperature	-25 °C...+50 °C		
Storage temperature	-40 °C...+80 °C		
Mounting rail	TS 32 or TS 35		
Norms/specifications			
Emitted interference/interference immunity			
Wire range, finely stranded/single-core	0,5 mm ² – 2,5 mm ² / 0,5 mm ² – 4 mm ² / 22 – 12 AWG		
Location of mounting rail	horizontal		
Accessories			
Replacement relay		Z8.000.0181.0	10
¹⁾ See limit curve on page 465			

Relay modules



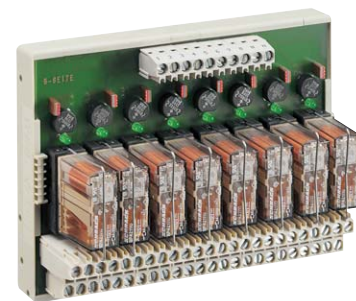
Relay modules input/output

- 1 relay
- 4 relay
- 8 relay



250 V AC / 24 V DC 5 A (DPDT) 2 Changeover contacts

Approvals of the relays:
22.5 x 80 x 68



250 V AC / 24 V DC 4 A (DPDT) 2 Changeover contacts

Approvals of the relays:
70/128 x 80 x 71

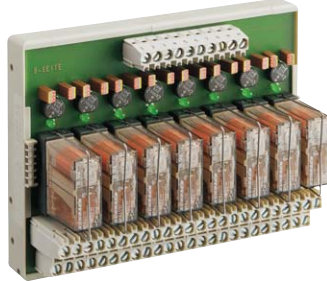
Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
1 relay						
4 relay						
8 relay						
Wiring diagram, derating curve, limit curve	See pages 470-471			See pages 470-471		
Coil circuit						
Operating voltage	115/230 V AC/DC +6%/-10%			115 V AC/DC +6%/-10%		
Nominal input current per input	ca. 4.8 mA / 4.8 mA AC/DC			ca. 9.5 mA AC/DC		
Nominal power consumption	ca. 0.5 VA/W / 1.1 VA/W			ca. 1.0 VA/W		
Holding current at 20 °C	> 1.0 mA AC / > 0.8 mA DC			> 1.5 mA AC / > 1.0 mA DC		
Suppression circuit for input	polarised diode, suppressor diode			polarised diode, suppressor diode		
Status display	LED Green			LED Green		
Switching characteristics						
Maximum switching voltage	250 V AC / ¹⁾ V DC			250 V AC / ¹⁾ V DC		
Maximum continuous current	6 A AC/ ¹⁾ A DC			6 A AC/ ¹⁾ A DC		
Maximum switching capacity	1500 VA / 192 W			1500 VA / 192 W		
Maximum switching current	6 A AC/DC (Derating beachten)			4 A AC/DC (Derating beachten)		
Pickup/dropout delay approx.	10 ms / 14 ms			< 12 ms / < 15 ms		
Chatter time	< 3 ms			< 4,5 ms		
Maximum switching frequency						
Contact material	AgNi 0.15 + 0.2 µ Au			AgNi 0,15 + 0,2 µ Au		
Minimum switchable voltage	5 V			5 V		
Minimum switchable current	10 mA			10 mA		
Mechanical endurance	3 x 10 ⁷			3 x 10 ⁷		
Electrical endurance at 24 V DC / 5 A	1,5 x 10 ⁵			1.5 x 10 ⁵		
Electrical endurance at 230 V AC / 5 A	1,5 x 10 ⁵			1.5 x 10 ⁵		
Rated voltage						
Isolation voltage of input/output	4 kV _{eff.}			4 kV _{eff.}		
Overvoltage category						
Degree of pollution						
Ambient temperature	-25 °C...Derating			-25 °C...Derating		
Storage temperature	-40 °C...+85 °C			-40 °C...+80 °C		
Mounting rail	TS 32 or TS 35			TS 32 or TS 35		
Norms/specifications						
Emitted interference/interference immunity						
Wire range, finely stranded/single-core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 –12 AWG			0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 –12 AWG		
Location of mounting rail	horizontal			horizontal		
Accessories						
Replacement relay		Z8.000.0176.2	10		Z8.000.0176.2	10
¹⁾ See limit curve on page 465						

WR

Relay modules input/output

- 1 relay
- 4 relay
- 8 relay



250 V AC / 24 V DC 4 A (DPDT) 2 Changeover contacts

Approvals of the relays:

70/128 x 80 x 71

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
1 relay						
4 relay	WR4-230-2W-250V4A	80.010.1108.0	1			
8 relay	WR8-230-2W-250V4A	80.010.1116.0	1			
Wiring diagram, derating curve, limit curve	See pages 468-469					
Coil circuit						
Operating voltage	230 V AC/DC +6%/-10%					
Nominal input current per input	ca. 4.5 mA AC/DC					
Nominal input capacity	ca. 1.0 VA/W					
Holding current at 20 °C	> 0.7 mA AC / > 0.5 mA DC					
Suppression circuit for input	polarised diode, suppressor diode					
Status display	LED Green					
Switching characteristics						
Maximum switching voltage	0250 V AC / ¹⁾ V DC					
Maximum continuous current	6 A AC / ¹⁾ A DC					
Maximum switching capacity	1500 VA / 192 W					
Maximum switching current	4 A AC/DC (Derating beachten)					
Pickup/dropout delay approx.	< 13 ms / < 16 ms					
Chatter time	< 4,5 ms					
Maximum switching frequency						
Contact material	AgNi 0,15 + 0,2 µ Au					
Minimum switchable voltage	5 V					
Minimum switchable current	10 mA					
Mechanical endurance	3 x 10 ⁷					
Electrical endurance at 24 V DC / 5 A	1.5 x 10 ⁶					
Electrical endurance at 230 V AC / 5 A	1.5 x 10 ⁵					
Rated voltage						
Isolation voltage of input/output	4 kV _{eff.}					
Overvoltage category						
Degree of pollution						
Ambient temperature	-25 °C...Derating					
Storage temperature	-40°C...+80 °C					
Mounting rail	TS 32 or TS 35					
Norms/specifications						
Emitted interference/interference immunity						
Wire range, finely stranded/single-core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 –12 AWG					
Location of mounting rail	horizontal					
Accessories						
Replacement relay		Z8.000.0176.2	10			
¹⁾ See limit curve on page 465						

Relay modules

Wieland Relay System

WRS

- 24 V input signal
- 4 kV separation between I/O at a creepage and clearance distance of 8 mm



250 V AC/DC 5 A 48 V DC 20 mA
1 Make contact (SPST, N.O.)

Approvals: CSA,
12.5 x 80 x 58.3



250 V AC/DC 5 A 48 V DC 20 mA
1 Changeover contact (SPDT)

Approvals: CSA,
12.5 x 80 x 60

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WRS Relay system	WRS-REL-1S-250V5A	80.010.0005.0	10	WRS-REL-1W-250V5A	80.010.0008.0	10
WRS Relay system	WRS-REL-1S-48V20M	80.010.0007.0	10	WRS-REL-1W-48V20M	80.010.0009.0	10
WRS high-current relays						
Wiring diagram, derating curve, limit curve	See pages 472-473			See pages 472-473		
Coil circuit						
Operating voltage	24 V AC/DC +10%/-15%			24 V DC +10%/-15%		
Nominal input current	25 mA			25 mA		
Nominal power consumption	ca. 0.6 W/VA			ca. 0.6 W/VA		
Holding current at 20 °C	≥ 2 mA			≥ 2 mA		
Parallel connection of max.	20 Relays			20 Relays		
Suppression circuit of input	polarised diode, suppressor diode			polarised diode, suppressor diode		
Status display	LED Green			LED Green		
Switching characteristics	Output	Input		Output	Input	
Maximum switching voltage	250 V AC/DC ²⁾	48 V DC		250 V AC/DC ²⁾	48 V DC	
Maximum switching current	8 A AC/DC ²⁾	20 mA		8 A AC/DC ²⁾	20 mA	
Maximum switching capacity	2000 VA / 192 W	1.2 W		2000 VA / 192 W	1,2 W	
Maximum continuous current	5 A AC/DC			5 A AC/DC		
Pickup/dropout delay approx.	8 ms / 8 ms	10 ms / 10 ms		8 ms / 8 ms	10 ms / 10 ms	
Chatter time	3 ms	3 ms		3 ms	3 ms	
Contact material	AgCdO	AgNi 0.15 + 10 µ Au		AgCdO	AgNi 0,15 + 10 µ Au	
Minimum switchable voltage	12 V	µV		12 V	µV	
Minimum switchable current	100 mA	µA		100 mA	µA	
Mechanical endurance	3 x 10 ⁷	3 x 10 ⁷		3 x 10 ⁷	3 x 10 ⁷	
Electrical endurance at 26 V DC / 15 mA		3 x 10 ⁵			3 x 10 ⁵	
Electrical endurance at 24 V DC / 5 A	2.5 x 10 ⁵			2.5 x 10 ⁵		
Electrical endurance at 230 V AC / 5 A	2.5 x 10 ⁵			2.5 x 10 ⁵		
Rated voltage						
Isolation voltage of input/output	4 kV _{eff.}	4 kV _{eff.}		4 kV _{eff.}	4 kV _{eff.}	
Overvoltage category						
Degree of pollution						
Ambient temperature	-25°C...Derating	-25 °C...+50 °C		-25 °C...Derating	-25 °C...+50 °C	
Storage temperature	-40 °C...+85 °C	-40 °C...+85 °C		-40 °C...+85 °C	-40 °C...+85 °C	
Mounting rail	TS 32 or TS 35			TS 32 or TS 35		
Norms/specifications						
Emitted interference/interference immunity						
Wire range, finely stranded/single-core	0.5 mm ² - 2.5 mm ² / 0.5 mm ² - 4 mm ² / 22 - 12 AWG			0.5 mm ² - 2.5 mm ² / 0.5 mm ² - 4 mm ² / 22 - 12 AWG		
Location of mounting rail	horizontal			horizontal		
Accessories						
Plug-in jumper (I _{max} = 0.5 A AC/DC)	Z8.000.0103.4	10		Z8.000.0103.4	10	
²⁾ See d.c. limit curve on page 471						

WRS

- 24 V input signal
- 4 kV separation between I/O at a creepage and clearance distance of 8 mm

High current relay for 16 A

Important note for user:

In the case of single modules with 2 changeover contacts, the two sets of contacts have to be supplied from the same phase (e.g. L1)



250 V AC/DC 5 A 48 V DC 20 mA
2 Changeover contact (DPDT)

Approvals: CSA,
22.5 x 80 x 60



250 V AC/DC 16 A
1 Changeover contact (SPDT)

Approvals: CSA,
22.5 x 80 x 58.3

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
WRS Relay system	WRS-REL2W-250V5A	80.010.1003.0	5			
WRS Relay system	WRS-REL2W-48V20M	80.010.1002.0	5			
WRS high-current relay				WRS-REL1W-250V16	80.010.0010.0	5
Wiring diagram, derating curve, limit curve	See pages 472-473			See pages 472-473		
Coil circuit	Output	Input				
Operating voltage	24 V AC/DC +10%/-15%	24 V DC +10%/-15%		24 V AC/DC +10%/-15%		
Nominal input current		25 mA		25 mA		
Nominal power consumption		ca. 0.6 W/VA		ca. 0.6 W/VA		
Holding current at 20 °C		≥ 2 mA		≥ 2 mA		
Parallel connection of max.	20 Relays			20 Relays		
Suppression circuit of input	Polarised diode					
Status display	LED Green			LED Green		
Switching characteristics	Output	Input				
Maximum switching voltage	250 V AC/DC ²⁾	48 V DC		250 V AC / V DC ²⁾		
Maximum switching current	6 A AC/DC ²⁾	20 mA		16 A AC / V DC ²⁾		
Maximum switching capacity	1500 VA / 144 W	1,2 W		4000 VA / 400 W ²⁾		
Maximum continuous current	5 A AC/DC			16 A AC/DC ²⁾		
Pickup/dropout delay approx.	10 ms / 5 ms	10 ms / 10 ms		10 ms / 5 ms		
Chatter time	3 ms	3 ms		3 ms		
Contact material	AgCdO	AgNi 0.15 + 10 μ Au		AgCdO		
Minimum switchable voltage	12 V	μV		12 V		
Minimum switchable current	100 mA	μA		100 mA		
Mechanical endurance	3 x 10 ⁷	3 x 10 ⁷		3 x 10 ⁷		
Electrical endurance at 26 V DC / 15 mA		3 x 10 ⁵				
Electrical endurance at 24 V DC / continuous current	2,5 x 10 ⁵			1,8 x 10 ⁵		
Electrical endurance at 230 V AC / continuous current	2,5 x 10 ⁵			1,8 x 10 ⁵		
Rated voltage						
Isolation voltage of input/output	4 kV _{eff.}	4 kV _{eff.}		4 kV _{eff.}		
Overvoltage category						
Degree of pollution						
Ambient temperature	-25 °C...+50 °C	-25 °C...+50 °C		-25 °C...Derating		
Storage temperature	-40 °C...+85 °C	-40 °C...+85 °C		-40 °C...+85 °C		
Mounting rail	TS 32 or TS 35			TS 32 or TS 35		
Norms/specifications						
Emitted interference/Interference immunity						
Wire range, finely stranded/single-core	0.5 mm ² - 2.5 mm ² / 0.5 mm ² - 4 mm ² / 22 - 12 AWG			0.5 mm ² - 2.5 mm ² / 0.5 mm ² - 4 mm ² / 22 - 12 AWG		
Location of mounting rail	horizontal			horizontal		
Accessories						
Plug-in jumper (I _{max} = 0.5 A AC/DC)		Z8.000.0103.4	10	Z8.000.0103.4	10	
²⁾ see d.c. limit curve and derating curve on page 471						

Relay modules

Timer relay

flare

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Multifunction timer relay

- on delay
- Single Shot
- Cycle Off – pulsing
- Cycle On – pulsing
- off delay
- timer range 0.1 sec – 300 sec

Timer relay on delay

- timer range 1 – 100 sec, 1 – 100 min

Dimensions (mm): W x H x D

6.2 x 89 x 70



Multifunction / On delay/off delay, Single Shot, cycle / 1 make contact (SPST N.O.)

Approvals: CSA

Timer on delay relay

Approvals: CSA

Time range	Screw terminal	Spring-clamp	Std. pack	Screw terminal	Spring-clamp	Std. pack
0.1 – 300 sec			81.020.4100.0 10			
1 – 100 sec				81.020.4101.0		10
1 – 100 min				81.020.4102.0		10
Wiring diagram, derating curve, limit curve	See pages 474			See pages 474		
Coil circuit						
Operating voltage	24 V DC +10%/-15%			24 V DC +10%/-15%		
Control voltage (TRIGGER)	24 V DC +10%/-15%			24 V DC +10%/-15%		
Nominal current	ca. 10 mA			ca. 10 mA		
Time setting	At the front (behind the hinged identification plate holder)			At the front (behind the hinged identification plate holder)		
Setting of function	DIP switch S1-S5/potentiometer			Potentiometer		
Status display	LED Green			Green LED		
Repeat accuracy	± 1% of selected range			± 1% of selected range		
Switching characteristics						
Maximum switching voltage	250 V AC / 300 V DC			250 V AC / 300 V DC		
Maximum switching current	6 A AC / 2 A DC			6 A AC / 2 A DC		
Maximum switching capacity	1500 VA / 48 W			1500 VA / 48 W		
Maximum starting current	10 A; 4 sec.			10 A; 4 sec.		
Pickup/dropout delay	1 ms / 5 ms			1 ms / 5 ms		
Chatter time	2 ms			2 ms		
Maximum switching frequency	20 Hz			20 Hz		
Contact material	AgSnO ₂			AgSnO ₂		
Minimum switchable voltage	12 V			12 V		
Minimum switchable current	8 mA			8 mA		
Mechanical endurance	2 x 10 ⁷			2 x 10 ⁷		
Electrical endurance 24 V DC / 2 A	6 x 10 ⁵			6 x 10 ⁵		
Electrical endurance 230 V AC / 6 A	8 x 10 ⁴			8 x 10 ⁴		
Rated voltage						
Isolation voltage of input/output	4 kV _{eff.}			4 kV _{eff.}		
Overvoltage category	III (according to HD 625.1S1)			III (according to HD 625.1S1)		
Degree of pollution	2 (according to HD 625.1S1)			2 (according to HD 625.1S1)		
Ambient temperature	0 °C...+50 °C			0 °C...+50 °C		
Storage temperature	-40 °C...+80 °C			-40 °C...+80 °C		
Protection type/mounting rail	IP 20 / TS35			IP 20 / TS35		
Norms/specifications	VDE 0160; VDE 0106 T101			VDE 0160; VDE 0106 T101		
Emitted interference/interference immunity	EN 61000-6-3; EN 61000-6-2			EN 61000-6-3; EN 61000-6-2		
Wire range of screw terminals	-			-		
Wire range of spring clamp terminals	24 – 12 AWG			24 – 12 AWG		
finely stranded	0.14 mm ² – 1.5 mm ²			0.14 mm ² – 1.5 mm ²		
single core	0.5 mm ² – 2.5 mm ²			0.5 mm ² – 2.5 mm ²		
CSA EX	Class I, Division 2, Groups A, B, C and D, T6			Class I, Division 2, Groups A, B, C and D, T6		
Accessories						
Plug-in jumper (U _{max.} = 50 V, I _{max.} = 2 A)	Z8.000.0200.8			Z8.000.0200.8		
8 digit marker tag, unmarked, 60 off	Z4.242.5153.0			Z4.242.5153.0		
Comb for potential distribution, red/blue	Z8.000.0202.3 / Z8.000.0202.4			Z8.000.0202.3 / Z8.000.0202.4		
End caps for comb, red/blue	Z8.000.0202.1 / Z8.000.0202.2			Z8.000.0202.1 / Z8.000.0202.2		

WRS

Multifunction time relay

- on delay
- Single Shot
- Cycle on, pulsing
- off delay
- timer range 0.1 sec – 255 sec



WRS Multifunction timer relay / 1 Changeover contact (SPDT)

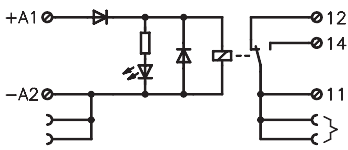
Approvals: CSA,

Dimensions (mm): W x H x D
38.7 x 80 x 60

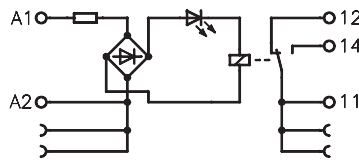
Multi function	Screw terminal	Spring-clamp	Std. pack
0.10 – 255.0 sec	WRS-TIMER-250V5A	81.020.3000.0	10
Wiring diagram, derating curve, limit curve			
See pages 475			
Coil circuit			
Operating voltage	24 V DC +10%/-15%		
Nominal input current	8.2/29 mA inactive/active		
Suppression circuit of input	Polarised diode		
Status display	Input	LED Green	
	Output	LED red	
Time setting	Potentiometer		
Parallel connection of max	20 Relays		
Switching characteristics			
Maximum switching voltage	250 V AC / V DC ¹⁾		
Maximum switching current	6 A AC / V DC ¹⁾		
Maximum switching capacity	1500 VA / 192 W ¹⁾		
Maximum continuous current	5 A AC / DC ¹⁾		
Pickup/dropout delay approx.	10 ms / 5 ms		
Chatter time	3 ms		
Contact material	AgNi 0.15 + 0.2 µ Au		
Minimum switchable voltage	5 V		
Minimum switchable current	10 mA		
Mechanical endurance	3 x 10 ⁷		
Electrical endurance at 24 V DC / continuous current	1.5 x 10 ⁵		
Electrical endurance at 230 V AC / continuous current	1.5 x 10 ⁵		
Insulation voltage of input/output	4 kV _{eff.}		
Ambient temperature	-25 °C...+50 °C		
Storage temperature	-40 °C...+85 °C		
Wire range	22 - 12 AWG		
finely stranded	0.5 mm ² – 2.5 mm ²		
single core	0.5 mm ² – 4 mm ²		
Mounting rail	TS 32 or TS 35		
Location of mounting rail	horizontal		
Accessories			
Plug-in jumper (I _{max.} = 0.5 A AC/DC)	Z8.000.0103.4		10
¹⁾ See limit curve on page 471			

Wiring diagrams: *flare* – Mechanical relay modules

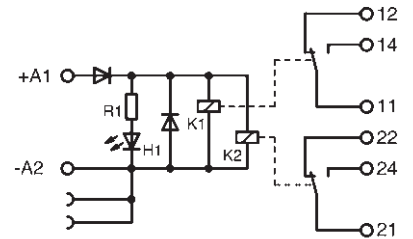
12-V-/24-V-Relay
1 Changeover contact (SPDT)



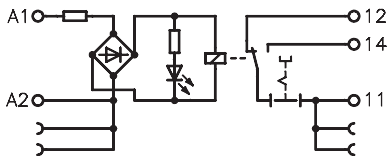
110-V-/230-V-Relay
1 Changeover contact (SPDT)



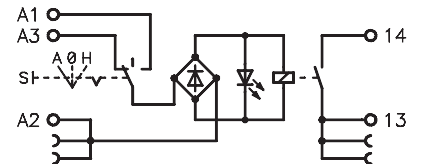
24-V-Relay
2 Changeover contact (DPDT)



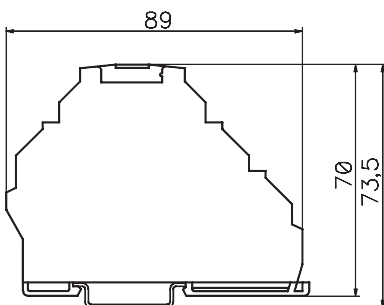
Isolating blade terminal relay
(SPDT)



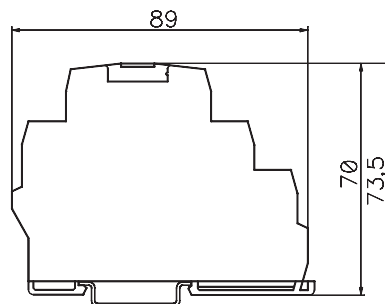
Hand-0-Auto-Relay
(SPST, N.O.)



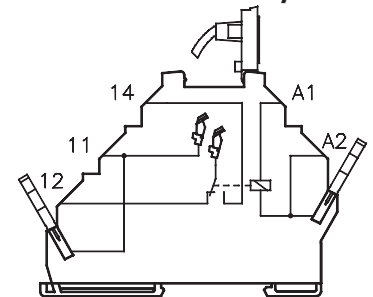
Housing with spring clamp terminals



Housing with screw terminals

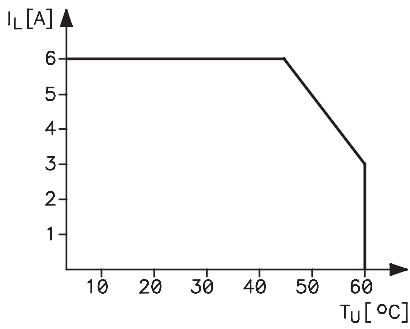


Connection of isolating blade terminal relay

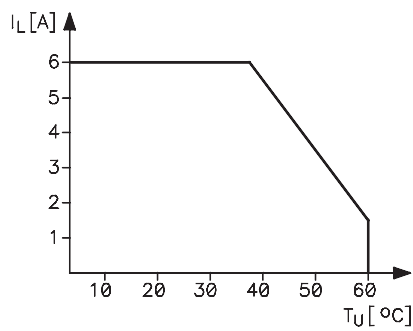


Derating: *flare* – Mechanical relay modules

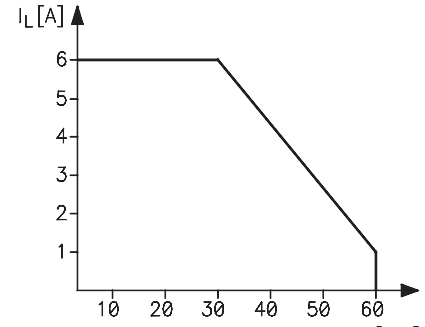
24-V-Relay
1/2 Changeover contact (SPDT/DPDT)
12-V-Relay 1 Changeover contact (SPDT)
Isolating blade terminal relay (SPDT)
HAND-0-AUTO-Relay (SPST, N.O.)
Time relay (SPST, N.O.)



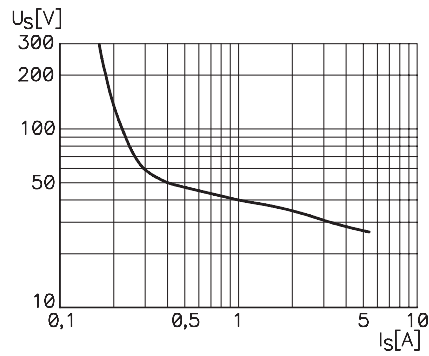
110-V-Relay 1 Changeover contact (SPDT)



230 V-Relay
1 Changeover contact (SPDT)



Derating curve for d.c. loads



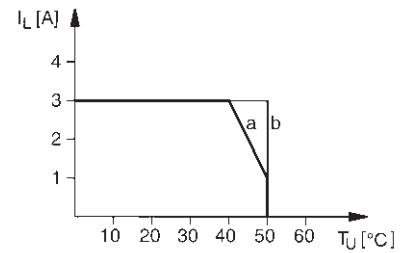
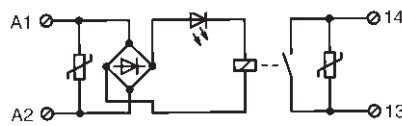
Switching capacity according to 60947-5.1

	resistive		inductive
	AC 12	AC 15	DC 13
V	A	A	A
24	6	3	1
110	6	3	0.2
230	6	3	0.1

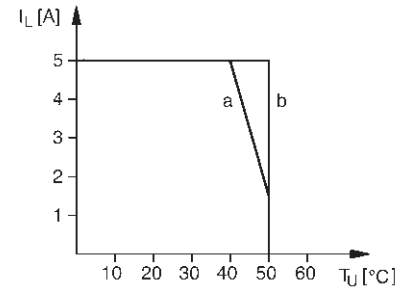
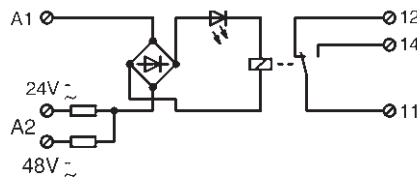
Wiring diagrams

Derating

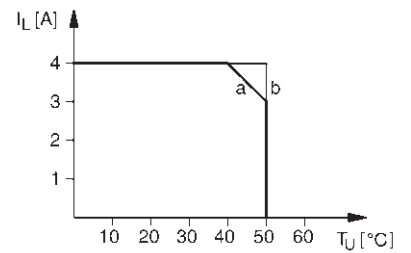
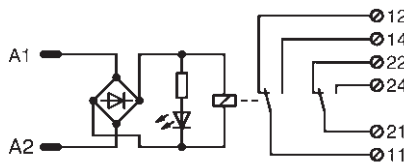
WEG-REL-1S 250 V 3 A



WEG-REL-1W 250 V 5 A



WEG-REL-2W 250 V 4 A

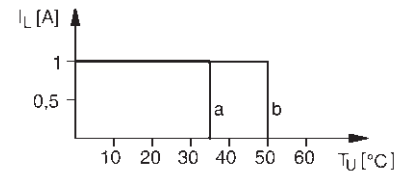
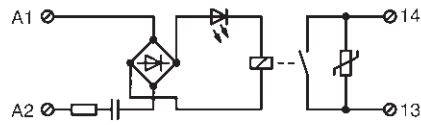


a = side by side without spacing
b = side by side with spacing > 20 mm

Wiring diagrams

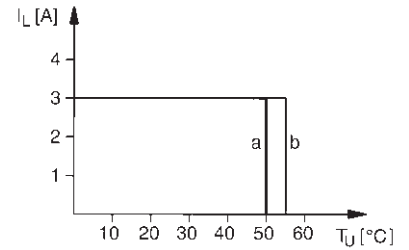
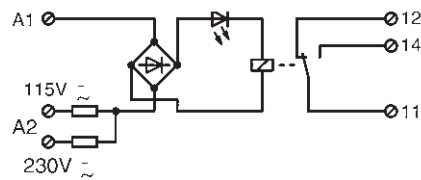
Derating

WEG-230-1S 250 V 1 A

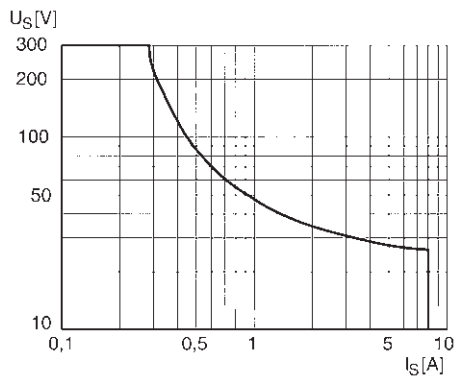


a = side by side without spacing
b = side by side with spacing > 20 mm

WEG-DUO-1W 250 V 3 A



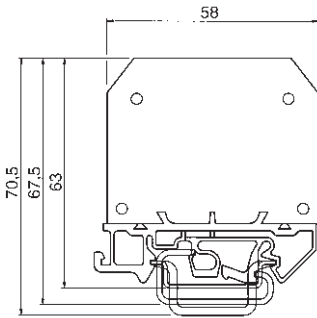
Limit curve (for resistive load)



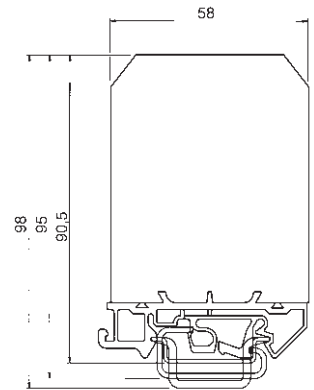


Dimensions

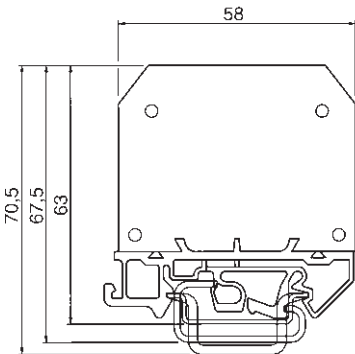
WEG-REL-1S 250 V 3 A



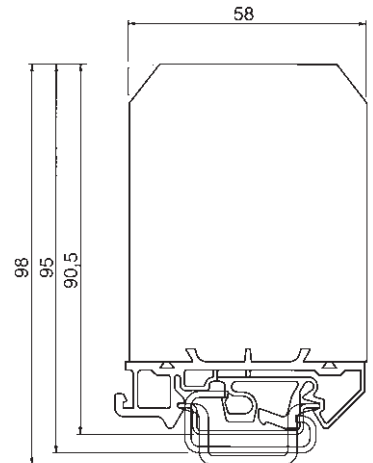
WEG-REL-1W 250 V 5 A and
WEG-REL-2W 250 V 4 A



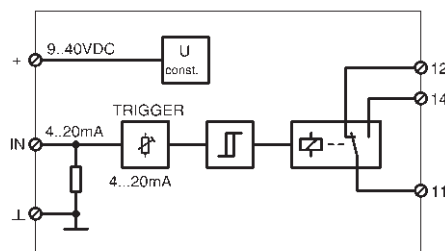
WEG-230-1S 250 V 1 A



WEG-DUO-1W 250 V 3 A
Current relay SR 4...20mA



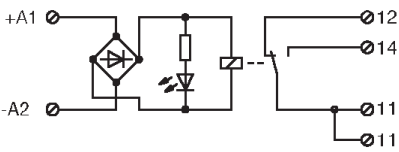
Wiring diagram
Current relay
SR 4...20 mA



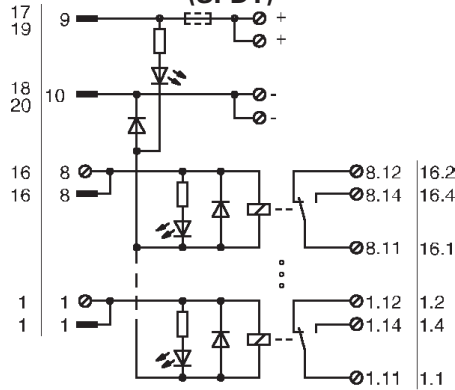


Wiring diagrams

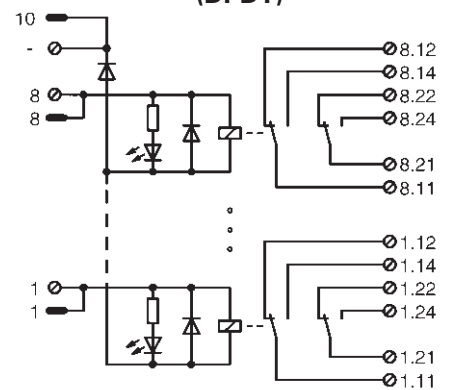
R12-12V-1W 250 V 5 A



RAB – 1 Changeover contact (SPDT)

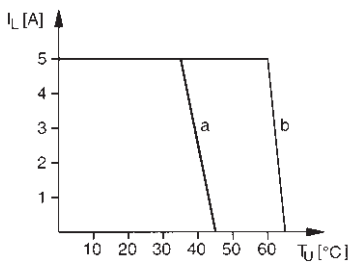


RAB – 2 Changeover contact (DPDT)



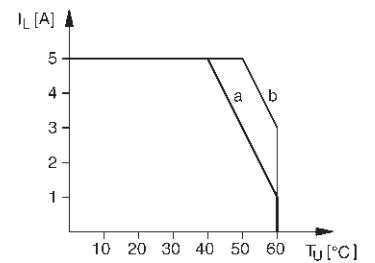
Derating

R12-12V-1W 250 V 5 A



a = continuous operation
b = switching operation 50% duty cycle

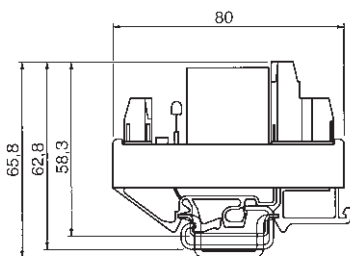
RAB-FSS and RAB-SS



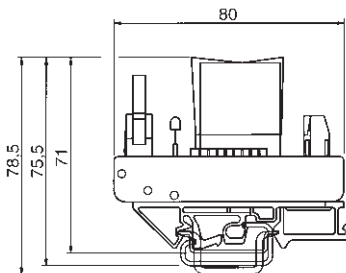
electronics

Dimensions

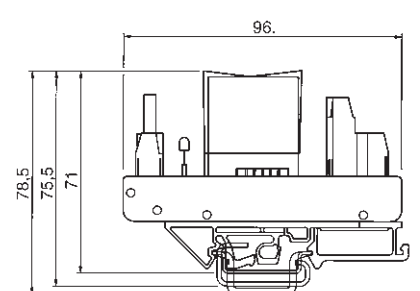
R12-12V-1W 250 V 5 A



RAB – 1 Changeover contact (SPDT)



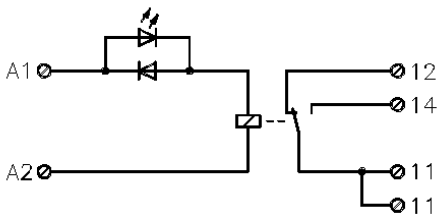
RAB – 2 Changeover contact (DPDT)



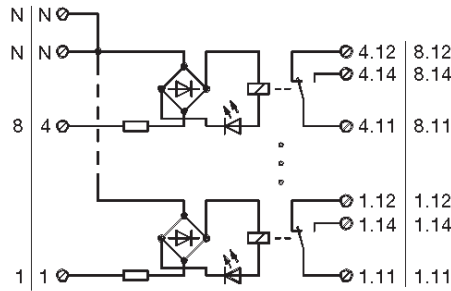


Wiring diagrams

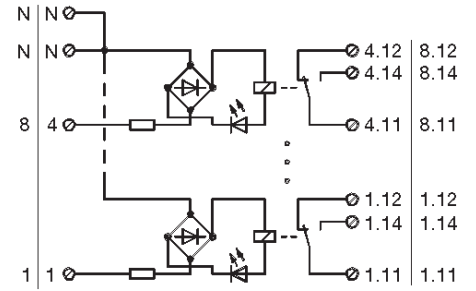
WR1-230-1W 250 V 4 A



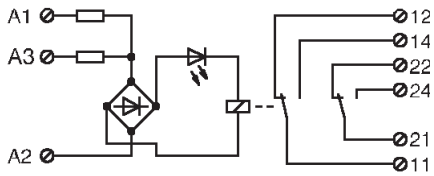
WR4/8-115-1W 250 V 4 A



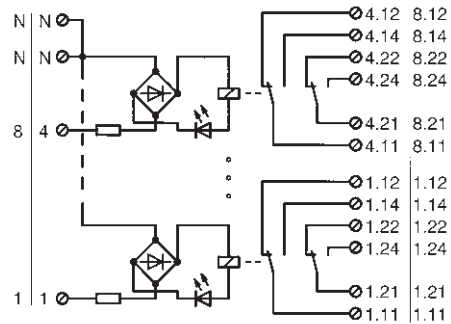
WR4/8-230-1W 250 V 4 A



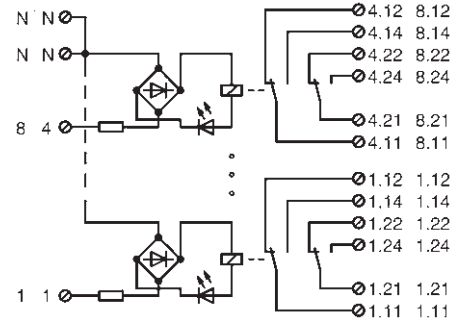
WR1-DUO-2W 250 V 5 A



WR4/8-115-2W 250 V 4 A



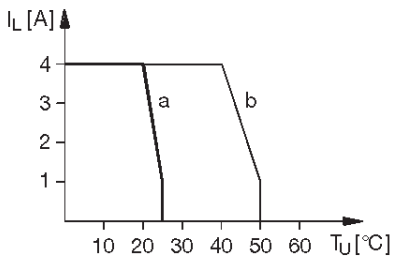
WR4/8-230-2W 250 V 4 A





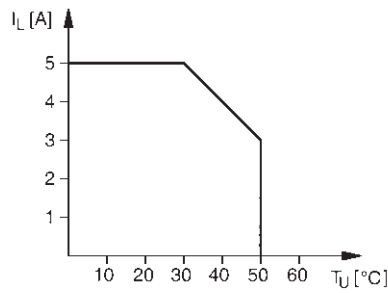
Derating

WR1 – 1 Changeover contact (SPDT)

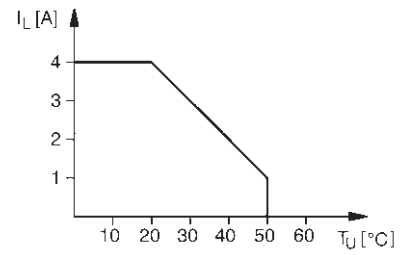


a = side by side without spacing
b = side by side with spacing of 5 mm

WR1 – DUO

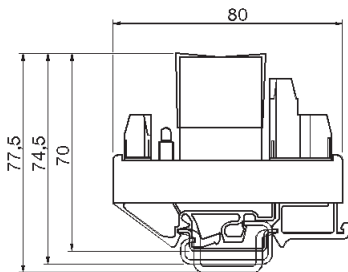


WR4/WR8 – 2 Changeover contact (DPDT)

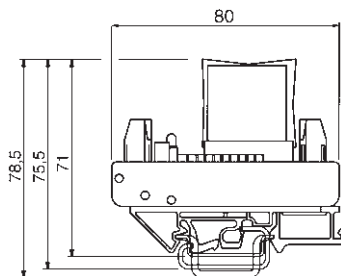


Dimensions

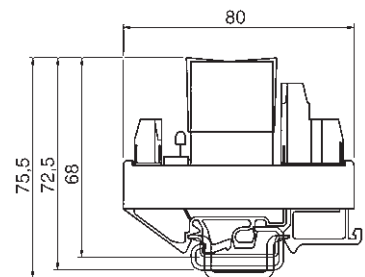
WR1 – 1 Changeover contact (SPDT)



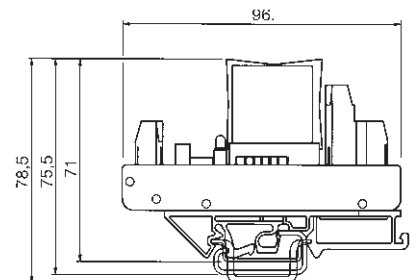
WR4/WR8 – 1 Changeover contact (SPDT)



WR1 – DUO



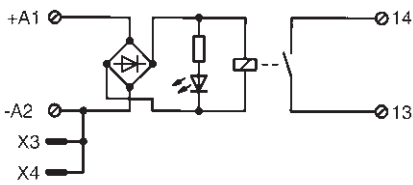
WR4/WR8 – 2 Changeover contact (DPDT)



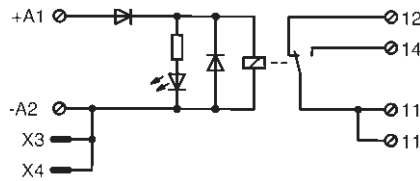


Wiring diagrams of relay couplers

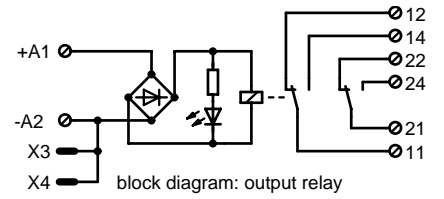
WRS-REL-1S 250 V 5 A



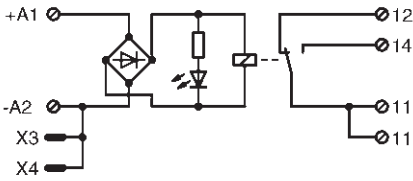
WRS-REL-1W 250 V 5 A



WRS-REL-2W 250 V 5 A

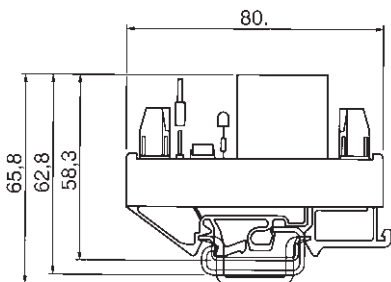


WRS-REL-1W 250 V 16 A

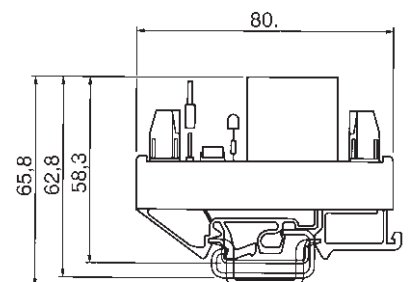


Dimensions

WRS-REL-1S 250 V 5 A
WRS-REL-1W 250 V 16 A

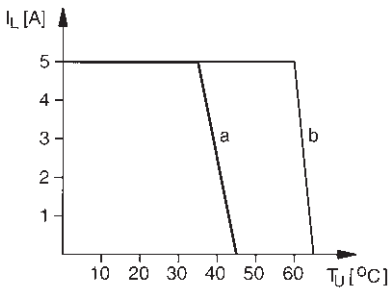


WRS-REL-1W 250 V 5 A
WRS-REL-2W 250 V 5 A



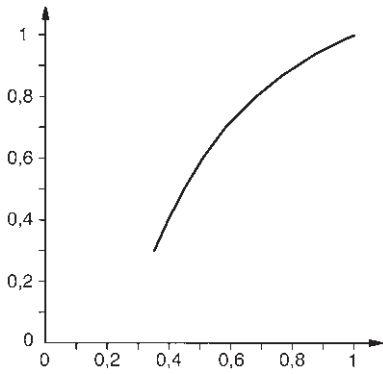
Derating

WRS-REL-1S 250 V 5 A
WRS-REL-1W 250 V 5 A



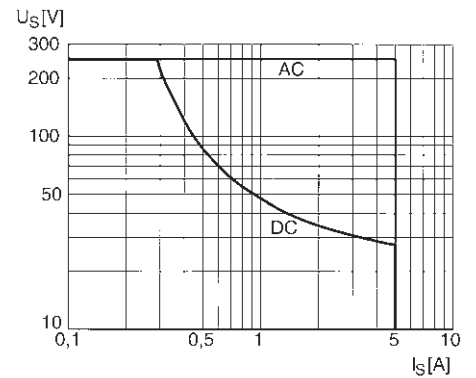
a = side by side without spacing
b = side by side with spacing > 20 mm

Contact loading:
WRS-REL-1S 250 V 5 A
WRS-REL-1W 250 V 5 A
WRS-REL-2W 250 V 5 A

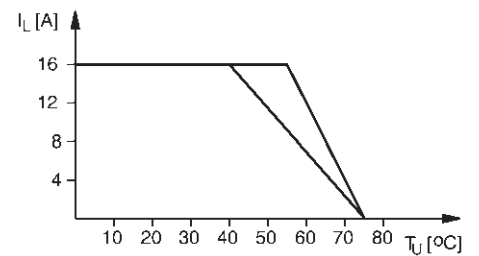
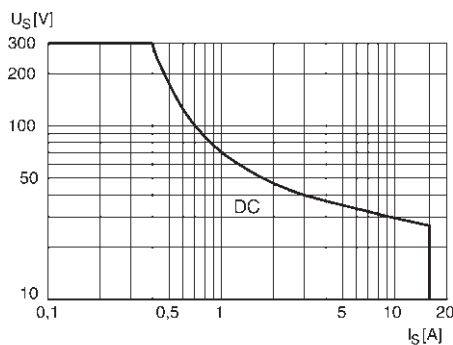


Limit curve:

WRS-REL-1S 250 V 5 A
WRS-REL-1W 250 V 5 A
WRS-REL-2W 250 V 5 A



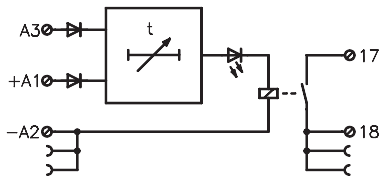
D.C. limit curve and derating curve:
WRS-REL-1W 250 V 16 A



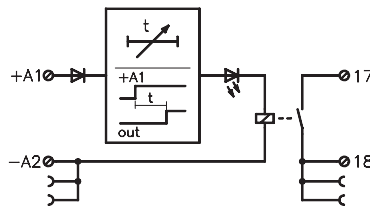
a = side by side without spacing
b = side by side with spacing of 5 mm

Block diagrams of *flare* timer relays

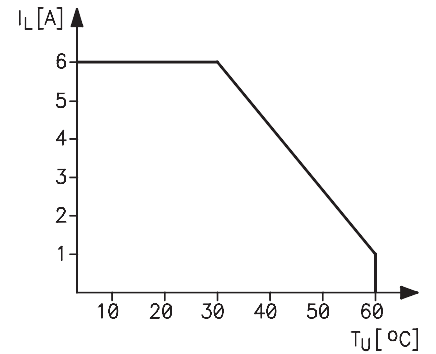
Multifunction



On delay



Derating: Timer relays

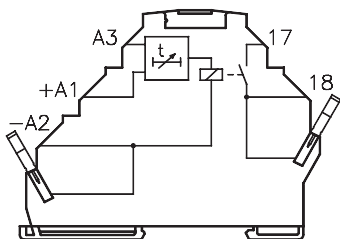
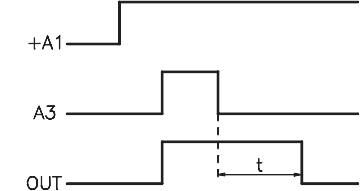
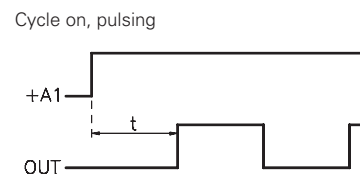
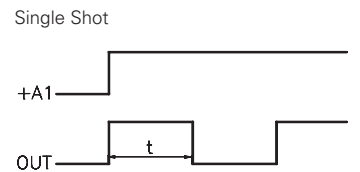
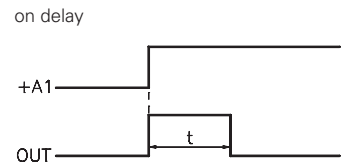
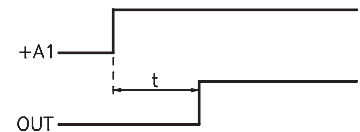


Setting the type of function

Function	DIP-Switch		
	1	2	3
on delay	on	on	on
Single Shot	on	off	on
Cycle on pulsing	on	on	off
Cycle off pulsing	on	off	off
off delay	off	off	off

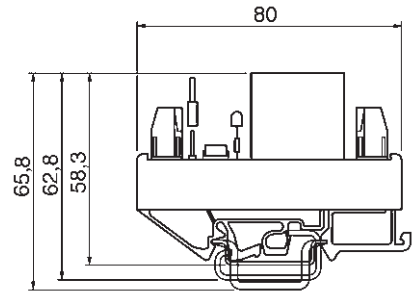
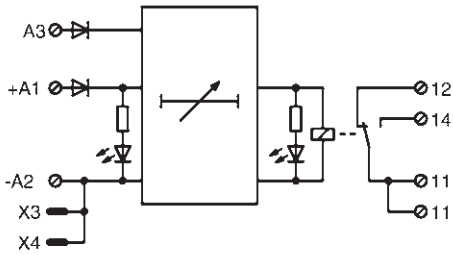
Setting the time ranges

timer range ± 20%		DIP-Switch	
t min	t max	4	5
0.1	1.2 sec	off	on
0.4	5 sec	on	off
3.5	40 sec	on	on
30	300 sec	off	off



Terminal assignment: Timer relay

Block diagram of multi function WRS timer relays

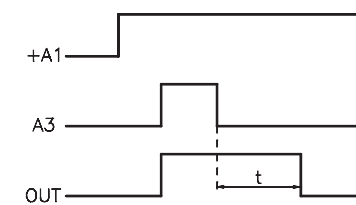
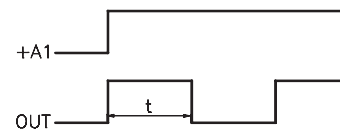
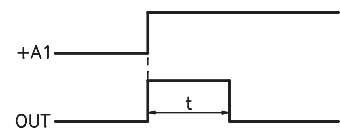
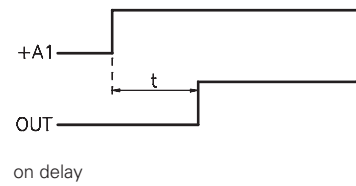


Setting the type of function

Function	DIP-switch		
	1	2	3
on delay	on	on	on
Single Shot	on	on	on
Cycle on, pulsing	off	on	off
off delay	off	off	off

Setting the time ranges

timer range $\pm 20\%$		DIP-switch	
t min	t max	4	5
0.1	1 sec	off	on
0.4	4 sec	on	off
3	30 sec	on	on
25	255 sec	off	off



Relay modules

Solid state relays

flare

Wieland solid-state relay modules, the powerful addition

Solid-state relays are used in the same way as electromechanical relays as a connecting element between field devices and electronic control and signalling equipment. These modules can offer additional functionalities to the switching tasks that are required during processing. The core characteristics of the solid-state relays are:

- High switching frequencies up to several kHz
- Almost unlimited service life due to lack of mechanics
- Insensitive to vibrations and impulse loads
- Bounce-free and noise-free switching
- Control power in the lower mW range

Wieland offers a full range of solid state relay modules with the properties outlined above. Depending on the required applications, a superior selection of relay modules are available with various operating voltages, output arrangements and housings.

Product ranges:

flare, Solid-state relays with an overall width of 6.2 mm with input voltages of 24 V DC up to 230 V AC and switching currents up to 2 A.

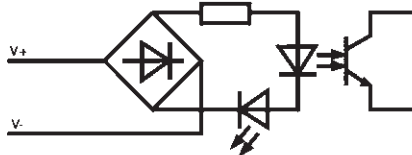
WRS, Solid-state relays in a mounting base with input voltages of 24 V DC up to 230 V AC and switching currents up to 6 A.

M-PB, Plug-in, one- to eight-channel solid-state relays in a mounting base with input voltage voltages of 24 V DC up to 230 V AC and switching currents up to 3 A.

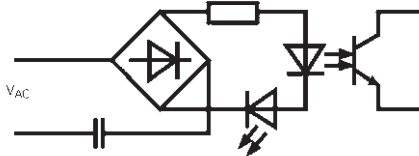
Overview of the technical data

Input circuit/control side

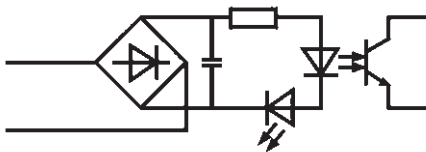
Wieland solid-state relays can be controlled with direct or alternating voltage, depending on their type. Each of the modules contains a suppression circuit against polarity reversal and an LED for status display in the input circuit.



Block diagram of DC input



Block diagram of AC input



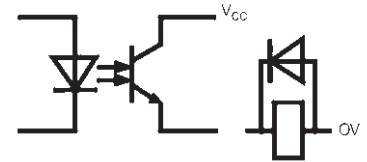
Block diagram of AC/DC input

To ensure safe operation of the relay the residual voltage in the control circuit must not exceed 5% DC or 15% AC of this operating voltage as specified in VDE 0435.

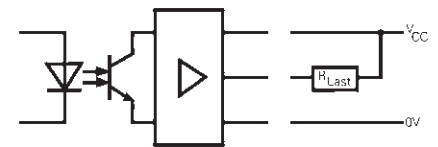
Output circuit/loadside

A solid-state relay for either DC or AC loads can be selected depending on the application. Also with DC outputs there are 2 types of connection available.

- 2 wire output
- 3 wire output, with negative switching



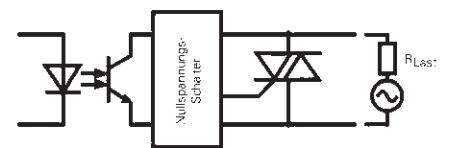
Block diagram of 2 wire output



Block diagram of 3 wire output

To guarantee error-free operation it is important to select a relay with a rating that meets the voltage and current requirement and also to add a protective circuit to the output as shown in the block diagram above - such as a varistor or RC element.

If a solid-state relay is operated with an inductive load, the load must be equipped with a protective suppression circuit such as a free-wheeling diode. In all cases, it must be ensured that the protection level of the protective device lies below the respective off-state voltage of the relay.



Block diagram of AC output

Solid state relays for the AC loads incorporate a triac as the switching element. A triac is a zero voltage switch and is used to avoid high inrush and back EMF peaks by connecting the load at zero voltage and disconnecting the load at zero current.

As for D.C. loads, care should be taken that the protection level of the protective measures lies below the off-state voltage of the Triac.

Relay modules Solid state relays

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flare



Overall width: 6.2 mm

Dimensions (mm): W x H x D
6.2 x 89 x 70

24 V DC / 48 V DC; 500 mA; 2 A
2 wire input/output

Approvals: , CSA

115 V AC/DC / 48 V DC; 500 mA
2 wire input

Approvals: , CSA

Description	24 V DC / 48 V DC; 500 mA; 2 A			115 V AC/DC / 48 V DC; 500 mA		
	Screw terminal	Spring clamp terminal	Std. pack	Screw terminal	Spring clamp terminal	Std. pack
24 V DC, 500 mA		80.020.4100.0	10			
24 V DC, 2 A		80.020.4101.0	10			
115 V AC/DC				80.020.4102.0		10
230 V AC						
Wiring diagram, derating curve, limit curve	See page 488–489			See page 488–489		
Control side	Input	Output				
Nominal input voltage	24 V DC	24 V DC		115 V AC/DC		
Voltage range "ON"	10 V...53 V DC	10 V...53 V DC		70 V...122 V AC/DC		
Voltage range "OFF"	0 V...5 V DC	0 V...5 V DC		0 V...30 V AC / 40 V DC		
Power consumption	ca. 6 mA	ca. 7 mA		ca. 3 mA		
Status display	LED Green	LED Green		LED Green		
Load side						
Nominal output voltage	48 V DC	48 V DC		48 V DC		
Min. switching voltage	4.4 V DC	4.4 V DC		4.4 V DC		
Max. switching voltage	53 V DC	53 V DC		53 V DC		
Min. switching current	1 mA	1 mA		0.1 mA		
Max. switching current	500 mA	2 A		500 mA		
On-state voltage	1.2 V DC	0.3 V DC		1.2 V DC		
Pickup delay	0.05 ms	4 ms		30 ms		
Dropout delay	0.2 ms	8 ms		20 ms		
Switching frequency (resistive load)	500 Hz	10 Hz		10 Hz		
Suppression circuit	Suppressor diode	Suppressor diode		Suppressor diode		
General data						
Rated voltage						
Isolation voltage of input/output	3.75 kV	2.5 kV		3.75 kV		
Overvoltage category		III		III		
Degree of pollution		2		2		
Ambient temperature		0 °C up to 50 °C		0 °C up to 50 °C		
Storage temperature		-40 °C up to +55 °C		-40 °C up to +55 °C		
Protection type/mounting rail		IP 20 / TS 35		IP 20 / TS 35		
Norms/specifications		VDE 0160; VDE 0106 T101		VDE 0160; VDE 0106 T101		
Emitted interference/interference immunity		EN 61000-6-3; EN 61000-6-2		EN 61000-6-3; EN 61000-6-2		
Wire range of screw terminal		-		-		
Wire range of spring-clamp terminal	24 – 12 AWG			24 – 12 AWG		
finely stranded		0.14 mm ² – 1.5 mm ²		0.14 mm ² – 1.5 mm ²		
single core		0.5 mm ² – 2.5 mm ²		0.5 mm ² – 2.5 mm ²		
CSA Ex approval	Class I, Division 2, Groups A, B, C and D, T6			Class I, Division 2, Groups A, B, C and D, T6		
Accessories		Part no.		Part no.		
Plug-in jumper (U _{max} = 50 V, I _{max} = 2 A)		Z8.000.0200.8		Z8.000.0200.8		
8 digit marker tag, unmarked, 60 off		Z4.242.5153.0		Z4.242.5153.0		

Overall width: 6.2 mm



230 V AC / 48 V DC; 500 mA
2 wire input
Approvals: , CSA

24 V DC / 230 V AC; 500 mA
2 wire output triac
Approvals: , CSA

Dimensions (mm): W x H x D
6.2 x 89 x 70

Description	Screw terminal	Spring clamp terminal	Std. pack	Screw terminal	Spring clamp terminal	Std. pack
24 V DC, 500 mA					80.020.4150.0	10
24 V DC, 2 A						
115 V AC/DC						
230 V AC		80.020.4103.0	10			
Wiring diagram, derating curve, limit curve	See page 488–489			See page 488–489		
Control side						
Nominal input voltage	230 V AC			24 V DC		
Voltage range "ON"	90...250 V AC			10 V...53 V DC		
Voltage range "OFF"	0...40 V AC			0 V...5 V DC		
Power consumption	ca. 7.5 mA			ca. 6 mA		
Status display	LED Green			LED Green		
Load side						
Nominal output voltage	48 V DC			230 V AC		
Min. switching voltage	4.4 V DC			12 V AC		
Max. switching voltage	53 V DC			250 V AC		
Min. switching current	0.1 mA			0.1 mA		
Max. switching current	500 mA			500 mA		
On-state voltage	1.2 V DC			1.4 V AC		
Pickup delay	30 ms			10 ms		
Dropout delay	20 ms			10 ms		
Switching frequency (resistive load)	10 Hz			20 Hz		
Minimum switchable voltage	Suppressordiode			Suppressordiode		
Suppression circuit	Suppressor diode			Suppressor diode		
General data						
Rated voltage						
Isolation voltage of input/output	3.75 kV			2,5 kV		
Overvoltage category	III			III		
Degree of pollution	2			2		
Ambient temperature	0 °C up to 50 °C			0 °C up to 50 °C		
Storage temperature	-40 °C up to +55 °C			-40 °C bis +55 °C -40 °C up to +55 °C		
Protection type/mounting rail	IP 20 / TS 35			IP 20 / TS 35		
Norms/specifications	VDE 0160; VDE 0106 T101			VDE 0160; VDE 0106 T101		
Emitted interference/interference immunity	EN 61000-6-3; EN 61000-6-2			EN 61000-6-3; EN 61000-6-2		
Wire range of screw terminal	-			-		
Wire range of spring-clamp terminal	24 - 12 AWG			24 - 12 AWG		
finely stranded	0.14 mm ² - 1.5 mm ²			0.14 mm ² - 1.5 mm ²		
single core	0.5 mm ² - 2.5 mm ²			0.5 mm ² - 2.5 mm ²		
CSA Ex approval in range	Class I, Division 2, Groups A, B, C and D, T6			Class I, Division 2, Groups A, B, C and D, T6		
Accessories						
Plug-in jumper (U _{max} = 50 V, I _{max} = 2 A)	Part no.			Part no.		
8 digit marker tag, unmarked, 60 off	Z8.000.0200.8			Z8.000.0200.8		
	Z4.242.5153.0			Z4.242.5153.0		

Relay modules Solid state relays

WRS

- 24 V Input signals
- 2.5-kV separation between I/O at a creepage and clearance distance of 8mm



24 V / 60 V DC / 3 A 2 wire output

Approvals: cULus, CSA
12.5 x 80 x 64



24 V / 60 V DC / 5 A 2 wire output

Approvals: cULus, CSA
12.5 x 80 x 59

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Wieland relay system	WRS-SSDC-60V3A	80.020.2003.0	10	WRS-SSDC-60V5A	80.020.2004.0	10
Wiring diagram, derating curve, limit curve	See page 490			See page 490		
Control side						
Operating voltage	24 V DC +10%/-15%			24 V DC +10%/-15%		
Nominal input current per input	16 mA			16 mA		
Power consumption	0.4 W			0.4 W		
Parallel connection of max	20 Relays			20 Relays		
Load side						
Nominal switching voltage	24 V DC			24 V DC		
Maximum switching voltage	60 V DC			60 V DC		
Minimum switching voltage	3 V DC			3 V DC		
Effective on-state voltage	1.5 V DC at I _{Nenn}			0.5 V DC		
Maximum effective current	3 A DC (Derating)			5 A DC		
Minimum effective current	20 mA			0 mA		
Maximum impulse current	5 A DC (1 sec.)			60 A DC (10 ms)		
Maximum residual current	1 mA at 60 V DC			1 µA DC		
Fusing, note I ² t value	-			FF		
Internal Suppression circuit	Z-Diode 68 V / 5 W			-		
Maximum pickup/dropout delay	100 µs			1 ms		
Maximum switching frequency	1 kHz			100 Hz		
Isolation voltage of input/output	4 kV _{eff}			2.5 kV _{eff}		
Capacity of input/output	8 pF			15 pF		
Overvoltage category						
Degree of pollution						
Ambient temperature	-25 °C...Derating			-20 °C...Derating		
Storage temperature	-25 °C...+85°C			-25 °C...+85°C		
Mounting rail	TS 32 or TS 35			TS 32 or TS 35		
Norms/specifications						
Emitted interference/interference immunity						
Wire range, finely stranded/single core	0.5 mm ² - 2.5 mm ² / 0.5 mm ² - 4 mm ² / 22 - 12 AWG			0.5 mm ² - 2.5 mm ² / 0.5 mm ² - 4 mm ² / 22 - 12 AWG		
Location of mounting rail	horizontal			horizontal		
Accessories						
Plug-in jumper	Z8.000.0103.4 10			Z8.000.0103.4 10		

WRS

- 24 V DL Input Signal



24 V DC / 250 V AC / 4 A 2 wire output

Approvals: UL, CSA
12.5 x 80 x 56



24 V DC / 250 V AC / 6 A 2 wire output

Approvals: CSA
25.6 x 80 x 70

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Wieland relay system	WRS-SSAC1-250 V4A	80.020.2001.0	10	WRS-SSAC1-250 V6A	80.020.0004.0	5
Wiring diagram, derating curve, limit curve	See page 490-491			See page 490-491		
Control side						
Operating voltage	24 V DC +10%/-15%			24 V DC +15%/-15%		
Nominal input current per input	20 mA			15 mA		
Power consumption	0,5 W			0,4 W		
Parallel connection of max	20 Relays			20 Relays		
Load side						
Nominal switching voltage	250 V AC			24 V-250 V AC		
Maximum switching voltage	280 V AC					
Minimum switching voltage	48 V AC					
Peak off-state voltage	1200 Vs			600 Vs		
Critical rate of rise of voltage	500 V/μs			500 V/μs		
Effective on-state voltage	1,4 V			1,6 V		
Maximum effective current	4 A AC			6 A AC		
Minimum effective current	60 mA			60 mA		
Maximum impulse current	250 A AC (20ms)			10 A AC		
Maximum residual current	0,1 mA			0,1 mA _{eff.}		
Power factor φ	> 0,5			> 0,5		
Zero sequence voltage switch	yes			yes		
I ² t value	260 A ² s			260 A ² s		
Fusing, note I ² t value	FF			FF		
Suppression circuit				Varistor		
Maximum pickup/dropout delay	10 ms			100 ms		
Maximum switching frequency	15 Hz			15 Hz		
Isolation voltage of input/output	4 kV _{eff.}			4 kV _{eff.}		
Capacity of input/output	10 pF			10 pF		
Overvoltage category						
Degree of pollution						
Ambient temperature	-25 °C...Derating			-25 °C...Derating		
Storage temperature	-25 °C...+85°C			-25 °C...+85°C		
Mounting rail	TS 32 or TS 35			TS 32 or TS 35		
Norms/specifications						
Emitted interference/interference immunity						
Wire range, finely stranded/single core	0,5 mm ² - 2,5 mm ² / 0,5 mm ² - 4 mm ² / 22 - 12 AWG			0,5 mm ² - 2,5 mm ² / 0,5 mm ² - 4 mm ² / 22 - 12 AWG		
Location of mounting rail	horizontal			horizontal		
Accessories						
Plug-in jumper		Z8.000.0103.4	10		Z8.000.0103.4	10

Relay modules Module boards

M-PB

Relay module boards

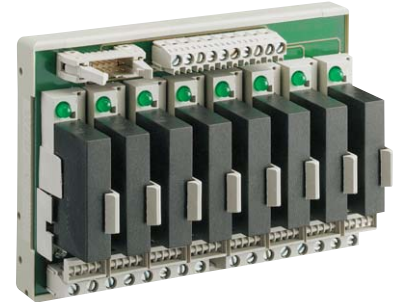
- 1 relay
- 4 relay
- 8 relay

The module boards are supplied without solid-state relays or miniature fuses



Module board 1 relay

26 x 96 x 70,3



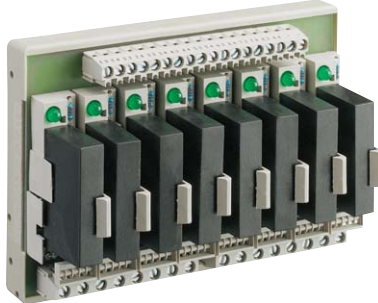
Module board 4/8 relays

70/138 x 96 x 70,3

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
1 relay module boards	M-PB 1 SR	87.220.1353.3	2			
4 relay module boards				M-PB 4 SP	87.220.0753.3	1
8 relay module boards				M-PB 8 SP	87.220.0853.3	1
Wiring diagram, derating curve, limit curve	See page 492–493			See page 492–493		
Switching variations						
Input without positive/negative switching	+ / -					
Output with positive/negative switching	+ / -			+		
Caution: Please allow for the voltage drop at the LED						
Switching behaviour						
See technical data of input/output relays on pages 478 to 481						
General data						
Voltage drop at the LED	2 V			2 V		
Ambient temperature	-30 °C...+40 °C			-30 °C...+40 °C		
Storage temperature	-25 °C...+85 °C			-25 °C...+85 °C		
IDC header DIN 41651	-			8 relay, 10 pole		
Miniature fuse holder	5 x 20 mm			5 x 20 mm		
Wire diameter of solid state relay connection	max 1.05 mm			max 1.05 mm		
Wire range, finely stranded/single core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG			0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG		
Mounting rail	TS 32 or TS 35					
Location of mounting rail	horizontal			horizontal		
Accessories						
Solid state relay input (See page 478)	M-IDC24	Z5.580.8100.0	10			
Solid state relay input (See page 478)	M-IAC24	Z5.580.7800.0	10			
Solid state relay output (See page 480)	ODC 3-32 V / 3-60 V	Z8.000.0169.8	10	ODC 3-32 V / 3-60 V	Z8.000.0169.8	10
Solid state relay output (See page 481)	ODC 3-32 V / 3-200 V	Z8.000.0169.9	10	ODC 3-32 V / 3-200 V	Z8.000.0169.9	10
Solid state relay output (See page 480)	OAC 3-32 V / 24-280 V	Z8.000.0156.9	10	OAC 3-32 V / 24-280 V	Z8.000.0156.9	10

M-PB



The module boards are supplied without solid state relays or miniature fuses.

Important notice

In the case of multiple modules (2 changeover contacts), the outputs must be supplied from the same phase (e.g. L1)

Module board 4/8 relay

70/138 x 96 x 70.3

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack
Module boards 1 relay			
Module boards 4 relay	M-PB 4 SG	87.220.1453.3	1
Module boards 8 relay	M-PB 8 SG	87.220.1553.3	1
Wiring diagram, derating curve, limit curve	See page 492–493		
Coil circuit			
Input without positive/negative switching	–		
Output with positive/negative switching	+ / –		
Caution: Please allow for the voltage drop at the LED			
Switching behaviour			
See technical data of input/relays on pages 478 to 481			
General data			
Voltage drop at the LED	2 V		
Ambient temperature	–30 °C...+40 °C		
Storage temperature	–25 °C...+85 °C		
IDC header DIN 41651	–		
Miniature fuse holder	5 x 20 mm		
Wire diameter of solid state relay connection	maximal 1,05 mm		
Wire range, finely stranded/single core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG		
Mounting rail	TS 32 or TS 35		
Location of mounting rail	horizontal		
Accessories			
Solid state relay input (See page 478)	M-IDC24	Z5.580.8100.0	10
Solid state relay input (See page 478)	M-IAC24	Z5.580.7800.0	10
Solid state relay output (See page 480)	ODC 3–32 V / 3–60 V	Z8.000.0169.8	10
Solid state relay output (See page 481)	ODC 3–32 V / 3–200 V	Z8.000.0169.9	10
Solid state relay output (See page 480)	OAC 3–32 V / 24–280 V	Z8.000.0156.9	10

Relay modules

Solid state relays

M-PB

For use with M-PB relay module boards



240 V AC / 5 mA
3 wire input AC



32 V DC / 32 mA
3 wire input DC

Dimensions (mm): W x H x D
10.2 x 26.3 x 43.2

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Solid state relay	M-IAC 24	Z5.580.7800.0	10	M-IDC 24	Z5.580.8100.0	10
Pin base input	See page 483			See page 483		
Pin base output	See page 483			See page 483		
Wiring diagram, derating curve, limit curve	See page 492-493			See page 492-493		
Control side						
Nominal operating voltage	240 V AC			32 V DC		
Maximum operating voltage	280 V AC/DC			3,3 V DC		
Minimum operating voltage	180 V AC/DC			32 mA DC		
Nominal input current	5 mA AC			1 mA DC		
Breaking current	1.5 mA AC			1 kΩ		
Resistance	75 kΩ					
Maximum voltage without reaction at output	50 V AC			2 V DC		
Maximum current without reaction at output	2 mA AC			1,5 mA DC		
Load side						
Nominal switching voltage	24 V DC			24 V DC		
Maximum switching voltage	30 V DC			30 V DC		
Minimum switching voltage	20 V DC			20 V DC		
Maximum current	16 mA DC			16 mA DC		
Leakage current	10 μA DC			10 μA DC		
Logic voltage	30 V DC			30 V DC		
Logic current	50 mA DC			50 mA DC		
Logic leakage current	10 μA DC			10 μA DC		
Logic voltage drop	200 mV DC			100 mV DC		
Maximum pickup/dropout delay	20 ms / 30 ms			1 ms / 1 ms		
Maximum switching frequency	10 Hz			1 kHz		
Mains frequency	47-63 Hz			-		
Isolation voltage of input/output	4 kV _{eff.} (1 sec.)			4 kV _{eff.} (1sec.)		
Capacity of input/output	8 pF			8 pF		
Overvoltage category						
Degree of pollution						
Ambient temperature	-30 °C...+40 °C			-30 °C...+40 °C		
Storage temperature	-40 °C...+100 °C			-40 °C...+100 °C		
Norms/specifications						
Emitted interference/interference immunity						
Accessories						
Pin base	See pin base on page 485			See pin base on page 485		

Relay modules

Solid state relays

M-PB

For use with M-PB relay module boards



230 V AC / 3 A
2 wire output
10.2 x 25.9 x 43.2



60 V DC / 3 A
2 wire output
10.2 x 26.3 x 43.2

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Solid state relay	OAC 3-32 V/24-280 V	Z8.000.0156.9	10	ODC 3-32 V/3-60 V	Z8.000.0169.8	10
Wiring diagram, derating curve, limit curve	See pages 492-493			See pages 492-493		
Coil circuit						
Operating voltage	3 – 32 V DC			3 – 32 V DC		
Nominal input current	1 – 22 mA			3 – 32 mA		
Minimum closing voltage	3 V DC			3 V DC		
Maximum opening voltage	1 V DC					
Maximum reverse voltage	6 V DC			6 V DC		
Resistance	1.5 kΩ			1 kΩ		
Switching behaviour						
Switching voltage	24 – 280 V AC			3 – 60 V DC		
Peak off-state voltage	600 Vs			60 V DC		
Critical rate of rise of voltage	100 V/μs			–		
Maximum effective on-state voltage	1.6 V			1,5 V		
Maximum effective current	3 A			3 A (5 A / 1 sec.)		
Minimum effective current	50 mA			–		
Maximum impulse current (20 ms)	90 Amp			–		
Maximum leakage current	5 mA			1 mA		
Power factor φ	≥ 0.5			–		
Zero sequence voltage switch	yes			–		
I ² t value	42 A ² s			–		
Fusing of solid state relay	FF 2.5 A			FF 2,5 A		
Fusing of load circuit	F 3.15 A			F 3,15 A		
Maximum pickup/dropout delay	11 ms			100 μs / 1 ms		
Maximum switching frequency	–			1 kHz		
Isolation voltage of input/output	4 kV _{eff.}			4 kV _{eff.}		
Capacity of input/output	8 pF			8 pF		
Overvoltage category						
Degree of pollution						
Ambient temperature	–20 °C...Derating			–40 °C...Derating		
Storage temperature	–40 °C...+100 °C			–40 °C...+100 °C		
Norms/specifications						
Emitted interference/interference immunity						
Accessories						
Pin base	See pin base on page 485			See pin base on page 485		

M-PB



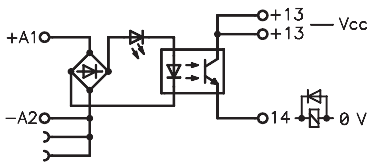
Dimensions (mm): W x H x D
10.2 x 26.3 x 43.2

200 V DC / 1A
2 wire output

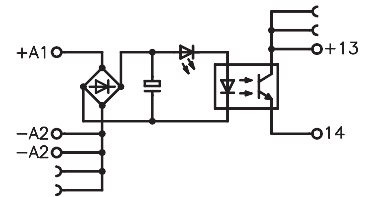
Description	Type	Part no.	Std. pack
Solid state relay	ODC 3-32 V/3-200 V	Z8.000.0169.9	10
Wiring diagram, derating curve, limit curve	See pages 492-493		
Coil circuit			
Operating voltage	3-32 V DC		
Nominal input current per input	3-32 mA		
Minimum closing voltage	3 V DC		
Maximum opening voltage	1 V DC		
Maximum reverse voltage	6 V DC		
Resistance	1 kΩ		
Switching behaviour			
Nominal switching voltage	3-200 V DC		
Peak off-state voltage	200 V DC		
Critical rate of rise of voltage	-		
Maximum effective on-state voltage	1.5 V		
Maximum effective current	1 A (2 A / 1 sec.)		
Minimum effective current	-		
Maximum impulse current	-		
Maximum residual current	1 mA		
Power factor φ	-		
Zero sequence voltage switch	-		
I ² t value	-		
Fusing, note I ² t value	FF 2.5 A F 1.25 A		
Maximum pickup/dropout delay	100 μs / 1 ms		
Maximum switching frequency	1 kHz		
Isolation voltage of input/output	4 kV _{eff.}		
Capacity of input/output	8 pF		
Overvoltage category			
Degree of pollution			
Ambient temperature	-40 °C...Derating		
Storage temperature	-40 °C...+100 °C		
Norms/specifications			
Emitted interference/interference immunity			
Accessories			
Pin base	See pin base on page 485		

Wiring diagrams: *flare* – Solid state relays

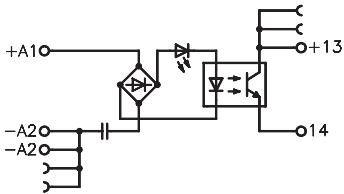
24 V/48 V DC; 500 mA; 2 A



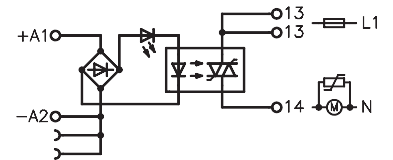
115 V AC/DC / 48 V DC; 500 mA



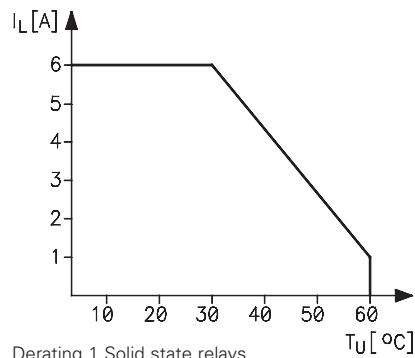
230 V AC / 48 V DC; 500 mA



24 V DC / 230 V AC; 500 mA



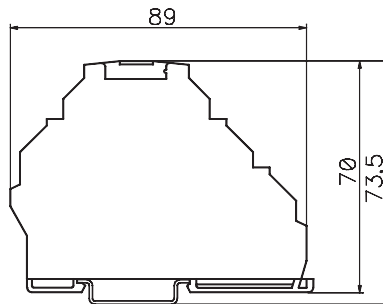
Derating: Solid State Relais



Derating 1 Solid state relays

Dimensions of *flare* – Relays

Housing with spring clamp terminals



Relay modules

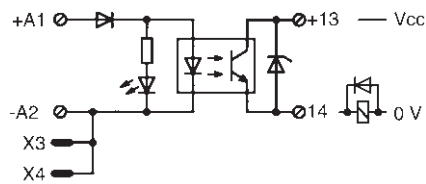
Solid state relays

WRS

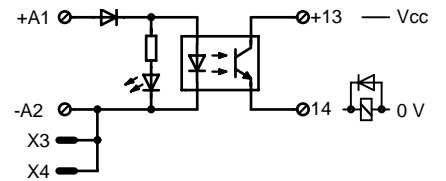
WRS Solid state relays

Wiring diagram

WRS-SSDC-60 V 3 A

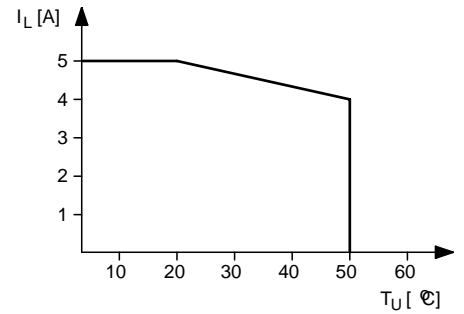
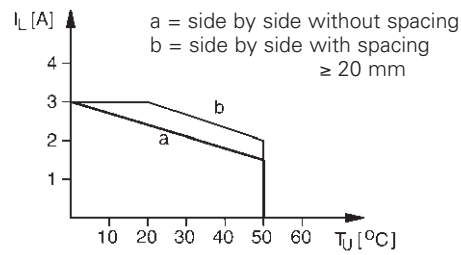


WRS-SSDC-60 V 5 A

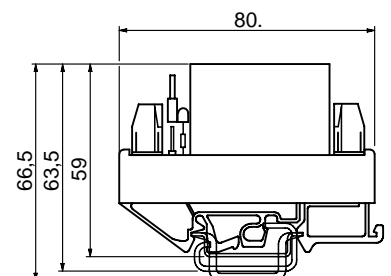
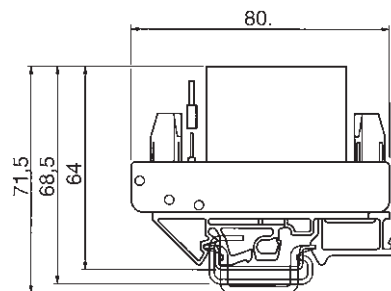


Derating

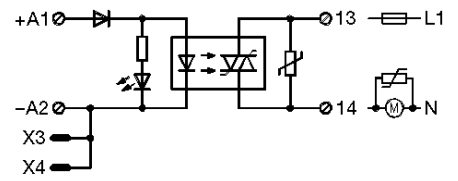
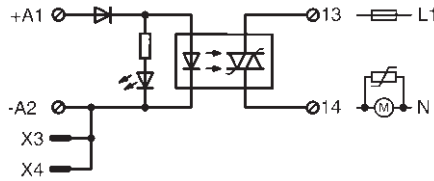
Derating
Solid state relay WRS-SSDC 60V 3A



Dimensions



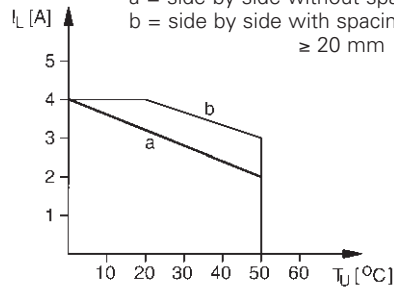
Wiring diagram



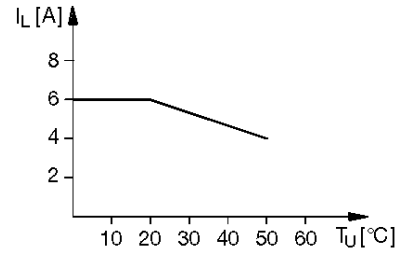
Derating

WRS-SSAC1-250 V 4 A

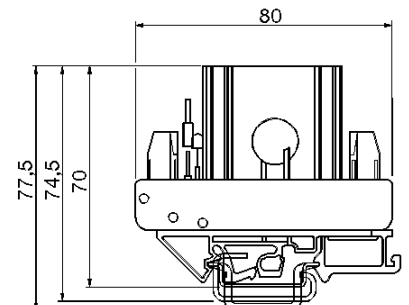
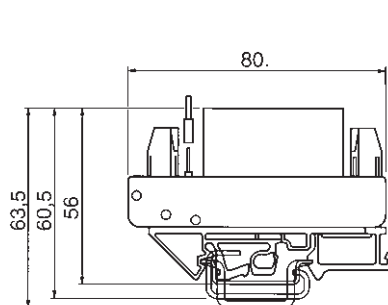
Derating
AC 1-phase



WRS-SSAC1-250 V 6 A



Dimensions



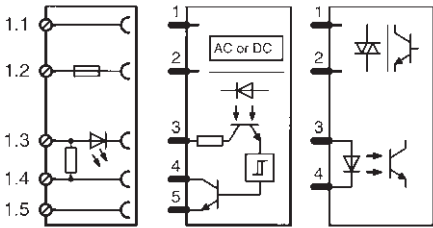
Relay modules

Solid state relays

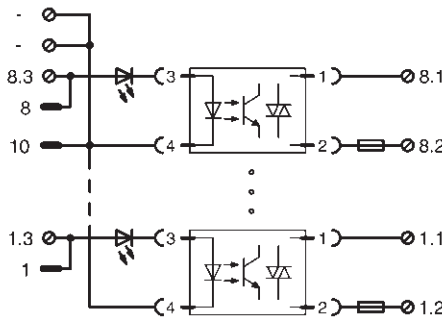
M-PB

Wiring diagrams: M-PB module boards

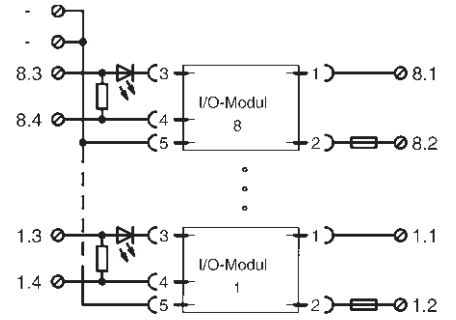
M-PB 1SR



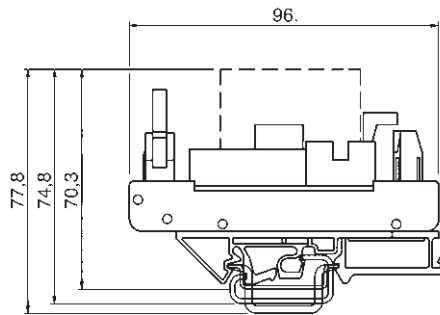
M-PB 4/8 SP



M-PB 4/8 SG

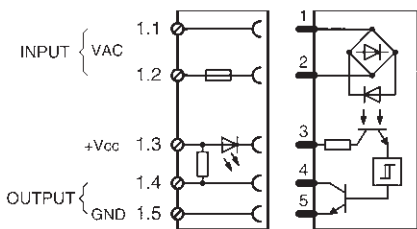


Dimensions of module boards

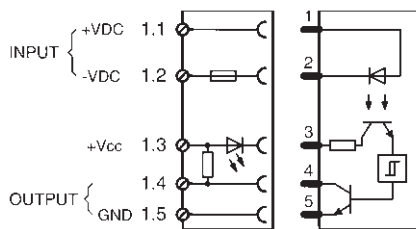


Wiring diagrams: M-PB Solid state relays

M-IAC 24

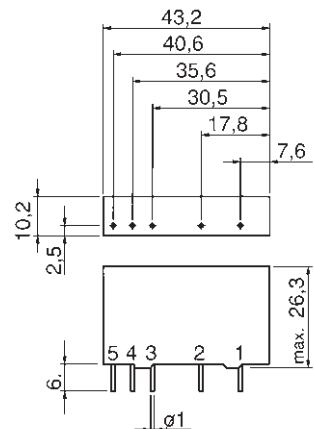


M-IDC 24



Dimensions

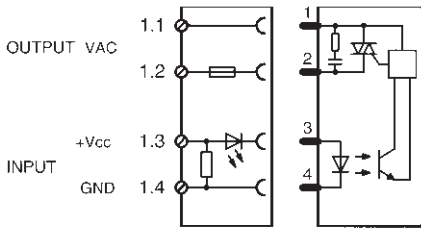
M-IAC 24 / M-IDC 24



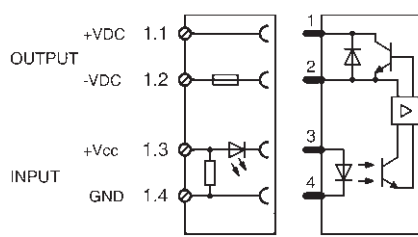
M-PB

Wiring diagrams + Derating: M-PB Solid state relays

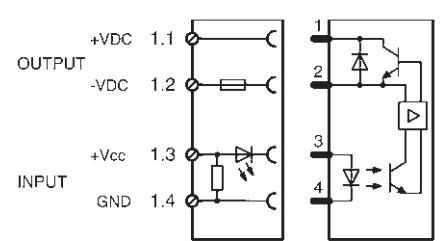
OAC 3-32 V/24-280 V



ODC 3-32 V/3-60 V

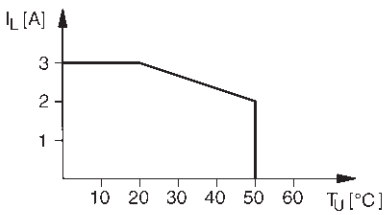


ODC 3-32 V/3-200 V

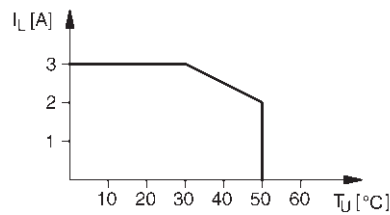


Derating

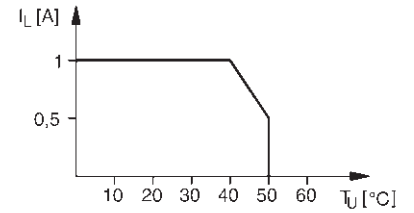
Output 230 V AC



Output 60 V DC

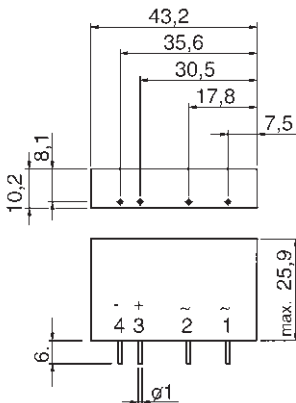


Output 200 V DC

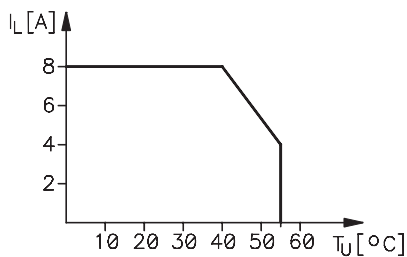


Dimensions

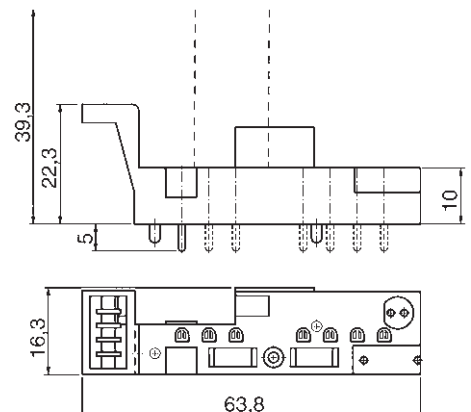
OAC 3-32 V/24-280 V



**ODC 3-32 V/3-60 V
ODC 3-32 V/3-200 V**



Pin base



analog

Pt100 (RTD)/TC

Sensor Amplifiers

Analog conversion module

Analog isolating module

Multifunctional signal conditioning

Measuring transducer with 3 way isolation

Isolating set point amplifiers

Isolating set point amplifiers – potential free

Constant voltage source

Analog measurement technology offers

- overall modules widths from 12,5 mm
- one modular system
- modules with screw and spring clamp terminals
- Isolating modules with 3 way isolation
- freely configurable modules
- freely adjustable input ranges for RTD Pt100/Pt1000
- modules with CJC compensation
- modules with “Smart Sense” function

All Wieland Components which require general certification are certified, and identified with the logo.



Electronic components

Analog measurement technology



Wieland signal conditioners for measurement and control technology.

The basis of modern automation is the preparation and transfer of physical variables such as temperature, pressure, speed or humidity. These variables are recorded by sensors which use interfaces to simultaneously convert them into electrically measurable, standardised signals. The most frequently used signals are 1-5 V, 0 – 10 V, ±10 V, 0–20 mA and 4–20 mA. In the reverse, controller modules or control systems supply these standardised signals as variables for actuators and indicators. There is often a distance between the recording and processing sites, whereby the transmission link invariably lies in a hostile industrial environment.

Wieland signal conditioners offer a reliable solution for the transmission of these relatively weak signals. Resistive, inductive or capacitive interference or earth loops are ruled out due to advanced technology. They ensure that the analog standard signals are electrically isolated. The signal input and output are supplied by integrated DC/DC transformers which are electrically isolated from the mains.

Apart from isolation for standardised signals, temperature input modules for Pt100/RTD sensors and thermocouples are also available, with or without electrical isolation. All the modules are intended for installation on standard DIN rail.



dipos signal conditioners offer the following benefits:

- Overall widths from 12,5 mm
- Modular system
- Permanent wiring via plug-in modules
- Settings can be secured against unauthorised access via a sealed cover
- 4 kV insulation voltage
- 100% earth connection if required
- Signals or supply voltages can be jumpered
- Screw or spring-clamp terminals
- Labelling of individual channels as well as groups

Product ranges

AKB, AKT

Signal conditioners for standardised signals that can be mounted on TS 35 rails, electrically isolated or with 3-way isolation.

UET, dipos UET

Isolating set point amplifiers for generating threshold-dependent switching points. The respective threshold value is represented via an LC display, depending on the module. The measured input value is potential-free.

cores, dipos Pt

RTD Signal conditioner modules for Pt100, Pt1000 and Ni temperature sensors.

The following types are available:

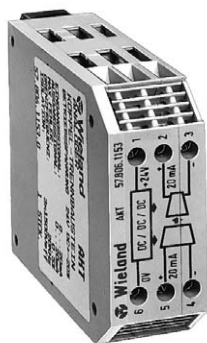
- One temperature input range/one standard signal output
- Two defined temperature input ranges/two standard signal outputs, input and output characteristics can be freely selected
- Four freely selectable temperature input ranges/two standard signals output with or without detection of wire breakage
- Freely adjustable temperature input ranges via DIP switches and standard signal outputs
- Software configurable module for temperature input ranges and standard signals outputs

dipos TC

Temperature transformer isolator modules for thermocouple elements sensors of type J and K.

The following types are available:

- One temperature input range/one standard signal output
- Two defined temperature input ranges/two standard signal outputs, input and output characteristics can be freely selected

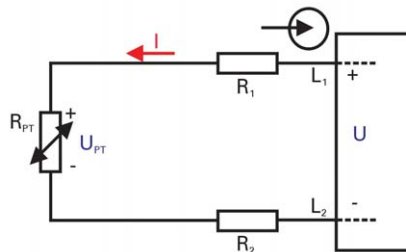


2, 3 or 4 wire connection technology for RTD/Pt sensors

The range provided by Wieland offers devices for all connection technologies. The appropriate technique is used, depending on the accuracy requirement. The individual measurement types are described in detail as follows.

The obvious benefit of a 2-wire connection lies in the minimum wiring costs. It should however be noted that greater errors can occur during measurement using this method. In the case of a Pt100 sensor, an additional resistance of only one ohm is sufficient for an error of 2.5°C. This error acts as an offset (zero displacement). This type of increase in resistance can be caused by cable resistances, contact resistances, soldered connections, plugs etc. In order to compensate for these errors, the Wieland modules offer a zero balance. This does not however prevent errors from occurring during operation that are caused by variations in the ambient temperature.

In practice, a 2-wire connection is only recommended if the application does not



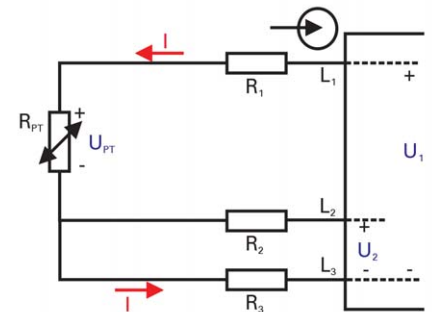
require a high level of accuracy.

In the case of a 3-wire connection, one of the sensor cables is used for measuring the cable and contact resistances. The influence of the additional resistances can thus be largely eliminated. This however only applies under one condition which is

often not observed:

The resistances of the three cables and the respective connectors must match exactly.

A differential of 0.39 ohm already causes an error of 1 degree (Pt100). Only the respective state can be equalized by carrying out an adjustment during commissioning. It is not possible to

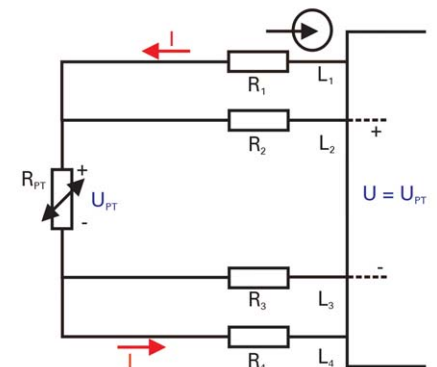


remedy the sources of error that are caused by temperature.

In the case of 4-wire technology, two cables take over the temperature measurement and two further cables measure at high resistance the voltage drop that arises via the resistance-type sensor.

All the effects caused by contact or cable resistances are fully eliminated.

The error is maximum 0.004% per ohm. There is practically no influence produced on the output variable. It is irrelevant if the resistances have different values and are subjected to different conditions due



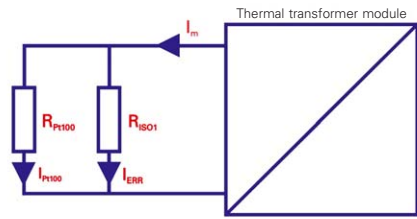
to the application.

The influence of the insulation resistance on the temperature measurement

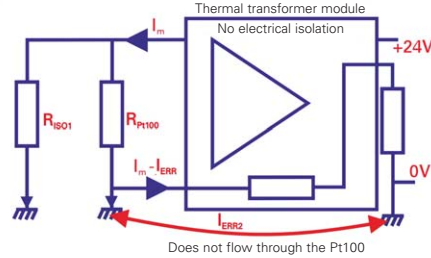
The design of RTD sensors can lead to measuring errors. This is independent of the type and manufacturer. One of the most frequent sources of error is the insulation in the sensor. If it is not sufficient, it can seriously impair the measurement. Causes of a low-resistance insulation can be heat, vibration, physical, chemical or radioactive influences.

Measurement with Pt100

The Pt100 element is a low-resistance sensor. If the insulation resistance is too low, the measurement is influenced.

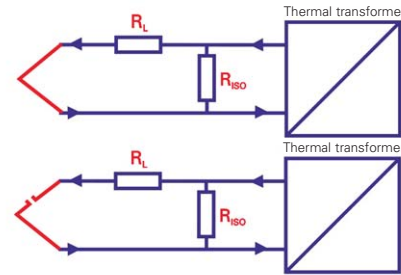


The diagram shows the electrical circuit diagram of the Pt100, connected to a RTD signal conditioner. Apart from the current flowing over the sensor, a minor current normally also flows over the insulation resistance R_{ISO1} . If the insulation resistance falls, the proportion that flows over the insulation resistance also naturally rises. Due to the constant current that is supplied by the RTD signal conditioner, the voltage drop is also reduced. This produces a measured temperature value that is too low, regardless of whether the RTD signal conditioner is operated with or without electrical isolation. During operation without electrical isolation, leakage current can however be caused between the sensor and earth if the insulation resistance is too low. This also leads to a lower temperature display. An isolated RTD signal conditioner rules this out.



Measurement via thermocouples

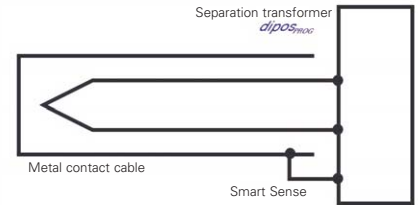
Limited by the principle of the thermocouples, other errors arise due to the extremely small insulation resistances. The EMF (electromotive force) of thermocouples is not particularly susceptible in the event of a low insulation resistance. The problem lies in the fact that a new measuring point occurs due to the low insulation resistance. If this measuring point is found in the vicinity of the existing point, the influence is negligible. However, if it is located where there is a temperature differential to the measuring point, the measuring error can be considerable. As a



result, it is almost impossible to diagnose a break in the sensor. The thermocouple signal conditioner **dipos** PROG is microprocessor-controlled and carries out measurements and checks beyond the standard. One of these checks is the display of the insulation resistance of the connected sensor. This function is called "Smart Sense". To implement this function, the sensor must be provided with an additional conductor. In the case of TC sensors, a special sensor is required which contains an additional conductor

that is not used for temperature measurement.

Under certain conditions, it is possible to



use the shield of the cable as the following diagram indicates:

An excessively low insulation resistance is indicated with a flashing LED at the module and the output signal is set to a preselected value. Smart sense not only monitors the sensor state but also the connections from the sensor to the thermal transformer module. This guarantees the complete control of the measuring point up to the thermocouple signal conditioner.



- Mounting width 12,5 mm
- 3 and 4 wire technology
- Current output can be toggled (0...20 mA and 4...20 mA)
- Adjustable zero/span
- Detection of wire breakage
- Overload signal at the output, red LED

RTD Signal Conditioner for Pt100 sensors

Approvals: , CSA in preparation

Dimensions (mm) W x H x D
12.5 x 100 x 100

Description	Output signal	Type	Part no.	Std. pack	Part no. key for input temperature range
dipos Pt100 RTD measuring transducer					XX = 01 0...100 °C**
in 3 and 4 wire technology for Pt100 Sensors					02 0...200 °C
	0...10 V	3 wire	82.011.30XX.0	1	03 0...300 °C
	0...10 V	4 wire	82.011.40XX.0	1	04 0...400 °C
	0(4(*)...20 mA	3 wire	82.011.37XX.0	1	05 0...500 °C**
	0(4(*)...20 mA	4 wire	82.011.47XX.0	1	20 -50...+50 °C**
	0...10 V / 0(4(*)...20 mA	3 wire	82.011.38XX.0*	1	21 -100...+100 °C**
	0...10 V / 0(4(*)...20 mA	4 wire	82.011.48XX.0*	1	31 0...150 °C
	(*) Supplied state				40 -50...+50 °C(*) / -100...+100 °C
					41 0...100 °C(*) / 0...500 °C
Wiring diagram, dimensions		See page 501			
Technical data					Ordering example:
Measured input					Pt100 3 wire, Input 0...400 °C, Output 0...10 V
Input		Pt100 in accordance with IEC 60751			Part no. 82.011.3004.0
Temperature ranges		-100...+100 °C / -50...+50 °C			
Supply current (Pt100)		0...100 °C / 150 °C / 200 °C / 300 °C / 400 °C / 500 °C			* versions only available with ** temperature ranges
		ca. 1 mA			
Measured output					
Output signal		0...10 V, 0(4)...20 mA			
Maximum load for voltage signal		5 mA			
Load for current signal		0...500 Ω (no load error)			
Output signal in event of wire breakage					
Voltage output:		ca. 13 V			
Current output:		ca. 26 mA			
Measuring accuracy					
Transmission error		≤ 0.2 % of final value (at 20 °C ambient temperature)			
Max. temperature co-efficient		100 ppm/K (ref. final value)			
Load error (deviation at 100 Ω load)		< 0.02 %/100 Ω			
Zero/span adjustment range		ca. 3% Approx. of scope of measuring range			
General data					
Supply data		24 V DC +25 % / -20 %, polarised			
Power consumption		ca. 15 mA + output current			
Ambient temperature range		0...60 °C (100 % capacity utilisation of device, series connected)			
Norms, specifications		DIN EN 50178, EMC guideline 89/336/EWG			
Isolation					
EMC					
Emitted interference		EN 60715/KI. B, EN 61000-6-1, CISPR 222/KI. B			
Interference immunity		EN 61000-4-2/3/4/5/6			
Accessories					
Module board, overall width of 12.5mm, 4 connections per side					
Screw terminal		80.060.0010.1	1		
Spring clamp terminal		80.060.0011.1	1		
Coding branch		Z5.563.0453.0	25		
Plug-in jumper		Z8.000.0229.5	50		
Large marker tag, white, blank		04.249.4053.0	500		
Small marker tag					
red, blank		04.249.1053.0	500		
blue, blank		04.249.1553.0	500		
white, blank		04.249.2053.0	500		



- Mounting width 12.5 mm
- CJC incorporated
- Current output can be toggled (0...20 mA and 4...20 mA)
- Adjustable zero/span
- Detection of wire breakage
- Overload signal at the output, red LED

Thermocouple Signal Conditioner Type J, K

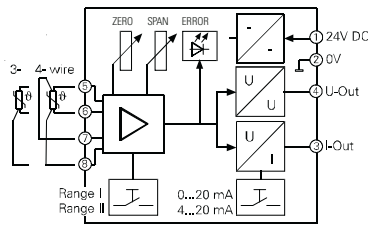
Approvals: , CSA in preparation

Dimensions (mm) W x H x D
12.5 x 100 x 100

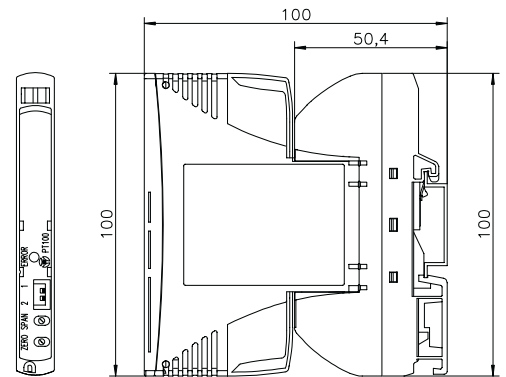
Description	Output signal	Type	Part no.	Std. pack	Part no. key for input temperature range
dipos Signal Conditioner TC for Type J and K thermocouples					XX = 03 0...300 °C 06 0...600 °C 12 0...1200 °C 31 0...150 °C
	0...10 V / 0(4(*))...20 mA	Type J	82.021.08XX.0	1	
	0...10 V / 0(4(*))...20 mA	Type K	82.021.18XX.0	1	
Wiring diagram, dimensions	See page 501				
Technical data	Ordering example:				
Measured input	TC Type K, Input 0...100 °C				
Input	Type J (Fe-CuNi) or Type K (NiCr-Ni) in accordance with				
Temperature ranges	0...150/300/600/1200 °C				
Measured output					
Output signal	0...10 V, 0(4)...20 mA				
Maximum load for voltage signal	5 mA				
Load for current signal	0...500 Ω (no load error)				
Output signal in event of wire breakage					
Voltage output:	ca. 13 V				
Current output:	ca. 26 mA				
Measuring accuracy					
Transmission error	≤ 1% of final value (at 20 °C ambient temperature)				
Transmission error for measuring range span ≤ 200K	≤ 2% of final value (at 20 °C ambient temperature)				
Max. temperature co-efficient	200 ppm/K (ref. final value)				
Load error (deviation at 100 Ω load)	< 0,02%/100 Ω				
CJC compensation	directly at the TC terminal				
Zero/span adjustment range	approx. 5% Approx. of scope of measuring range				
General data					
Supply data	24 V DC +25% / -20%, polarised				
Power consumption	ca. 25 mA + output current				
Ambient temperature range	0...60 °C (100% capacity utilisation of device, series connected)				
Norms, specifications	DIN EN 50178, EMC guideline 89/336/EWG				
EMV					
Emitted interference	EN 60715/KI. B, EN 61000-6-1, CISPR 22/KI. B				
Interference immunity	EN 61000-4-2/3/4/5/6				
Accessories					
Module board, overall width of 12.5mm, 4 connections per side					
Screw terminal	80.060.0030.1				1
Spring clamp terminal	80.060.0031.1				1
Coding branch	Z5.563.0453.0				25
Plug-in jumper	Z8.000.0229.5				50
Large marker tag, white, blank	04.249.4053.0				500
Small marker tag					
red, blank	04.249.1053.0				500
blue, blank	04.249.1553.0				500
white, blank	04.249.2053.0				500

RTD/Pt100

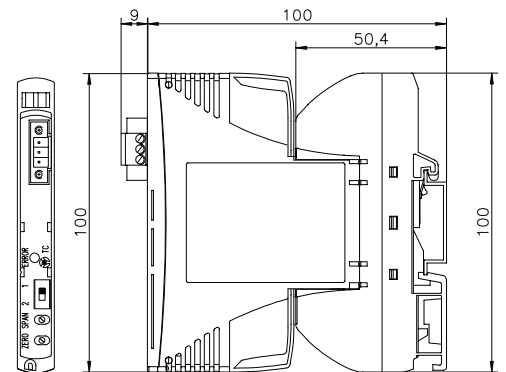
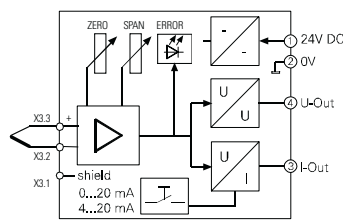
Block diagram



Dimension drawing



TC



cores



cores Pt100

Approvals: , CSA



cores Pt100 with alarm output

Approvals: , CSA

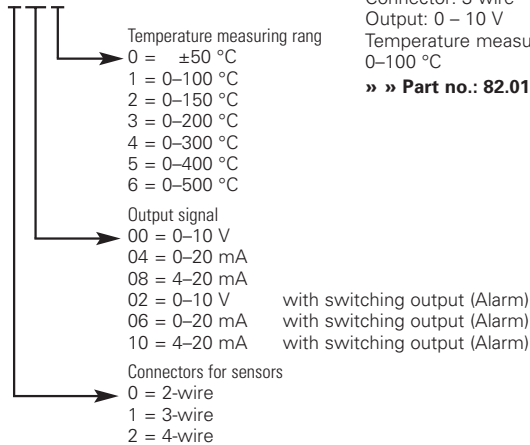
Dimensions (mm) W x H x D
 19 x 75 x 110.8

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
RTD Signal Conditioner for Pt100	See reference key for cores Pt100		1	See reference key for cores Pt100		
Dimensions	See page 510			See page 510		
General data						
Operating voltage	24 V DC $\pm 20\%$, polarised			24 V DC $\pm 20\%$, polarised		
Typical power consumption	20 mA at 24 V and output current			20 mA at 24 V and output current		
Measured input						
Sensor	Pt100 DIN IEC 751			Pt100 DIN IEC 751		
Measured current	ca. 1 mA			ca. 1 mA		
Sensor connection technology (adjustable with DIP switch)	2, 3, 4 wire connection			2, 3, 4 wire connection		
Temperature measuring range (adjustable with DIP switch)	See reference key			See reference key		
Input protection	Protective diodes, RC filter			Protective diodes, RC filter		
Measured output						
Voltage signal	See reference key			See reference key		
Current signal	0...20 mA, 4...20 mA			0...20 mA, 4...20 mA		
Internal resistance (for voltage signal)	100 Ω			100 Ω		
Maximum permitted output load, load	0...500 Ω			0...500 Ω		
Output protection	Suppressor diode			Suppressor diode		
Switch output, short circuit proof						
Transistor switch output, positive switching				24 V DC, maximum 50 mA		
Peak short circuit current: typical	–			0.5 A		
maximum	–			1.2 A		
Setting range for switching threshold						
at output signal 0...20 mA	–			–2...+12 V		
at output signal 4...20 mA	–			0...+12 V		
Setting accuracy	–			$\pm 1\%$ v. E.		
Setpoint with external voltmeter	–			Measuring pins behind front flap		
Measuring accuracy						
Intrinsic error at 20 °C ambient temperature	$\pm 0.4\%$ v. E.			$\pm 0.4\%$ v. E.		
Temperature coefficient	$\leq 0.02\%/K$			$\leq 0.02\%/K$		
Nominal load for current output	100 Ω			100 Ω		
Additional load error for current output	$\pm 0.02\%/100\ \Omega$ load			$\pm 0.02\%/100\ \Omega$ load		
Typical zero/span adjustment range	$\pm 3\%$ of scope of measuring range			$\pm 3\%$ of scope of measuring range		
Operating ambient temperature at 24V	0 ...50 °C			0 ...50 °C		
Storage temperature	–25...+55 °C			–25...+55 °C		
Wire range:						
finely stranded	0.5 – 2.5 mm ²			0.5 – 2,5 mm ²		
single core	0.5 – 4 mm ²			0.5 – 4 mm ²		
Location of mounting rail TS35	horizontal			horizontal		
Emitted interference	61000-6-3			61000-6-3		
Interference immunity	61000-6-2			61000-6-2		
Accessories						
Marking tag for housing		04.244.1853.0	100		04.244.1853.0	100

cores

Temperature measuring range	S1	S2	S8
-50...+50 °C	off	off	on
0...100 °C	off	off	off
0...150 °C	on	off	off
0...200 °C	on	on	off
Current output	S3	S4	
0...20 mA	on	off	
4...20 mA	off	on	
Input	S5	S6	S7
2 wire	off	on	on
3 wire	on	on	off
4 wire	off	off	off

Reference key for **cores** Pt100
82.010.XXXX.0



Example of how to order:

Connector: 3 wire
 Output: 0 - 10 V
 Temperature measuring range:
 0-100 °C
» » Part no.: 82.010.1001.0 « «

Caution: The part number determines the setting of the DIP switches within a variant.

They can be subsequently altered. But, care should be taken to ensure that the adjustment is within the parameters of the particular variant.

Functional overview

	Variant 1	Variant 2	Variant 3	Variant 4	Variant 5	Variant 6	Variant 7	Variant 8	
Temperature ranges	± 50 °C 0-100 °C 0-150 °C 0-200 °C	± 50 °C 0-100 °C 0-150 °C 0-200 °C	0-300 °C 0-400 °C 0-500 °C	0-300 °C 0-400 °C 0-500 °C	± 50 °C 0-100 °C 0-150 °C 0-200 °C	± 50 °C 0-100 °C 0-150 °C 0-200 °C	0-300 °C 0-400 °C 0-500 °C	0-300 °C 0-400 °C 0-500 °C	0-300 °C 0-400 °C 0-500 °C
Analog signal	0-10 V	0-20 mA 4-20 mA	0-10 V	0-20 mA 4-20 mA	0-10 V	0-20 mA 4-20 mA	0-10 V	0-20 mA 4-20 mA	
Alarm output					yes	yes	yes	yes	

Caution: Adjustment of the zero and span is required after every change of the DIP switches!

Analog interface module



without electrical isolation



Application:

The Wieland interface modules AKB and AKT are used to transfer an analog measured value from one signal format to another.

Dimensions (mm) W x H x D
 16.5 x 60.5 x 90.5

Analog interface module without electrical isolation

Approvals: , CSA

Std. pack	Part no.	Part no.	Part no.	Part no.
1	-10...+10 V	-	-	-
1	0...10 V	-	57.806.0053.0	57.806.1553.0
1	0...20 mA	-	57.806.0253.0	-
1	4...20 mA	-	57.806.0353.0	-
	Output	-10...10 V	0...10 V	0...20 mA
				4...20 mA
Other signals on request	Ordering example: AKB 20 mA / 10 V 57.806.0253.0			
Wiring diagram, sample application	See page 510			
Technical data				
Operating voltage	24 V DC ± 20%, polarised			
Typical power consumption (Output signal 20 mA)				
at 19 V DC				
at 24 V DC	ca. 12 mA + output current			
at 29 V DC				
Input				
Input resistance:				
for standard voltage	> 1 MΩ			
for standard current	49.9 Ω			
Maximum permitted input signal				
for standard voltage	60 V			
for standard current	70 mA (3,5 V)			
Voltage drop at 20 mA	1 V			
Input protection against voltage peaks	LC-Filter			
Output				
Output load:				
for maximum standard voltage	5 mA (RL ≥ 100 kΩ, see Ri)			
for standard current	0...500 Ω (load)			
Maximum load error (adjustment at 100 Ω)	0.02 % / 100 Ω			
Output protection against external voltage	Z-Diode			
Transfer procedure				
Static transmission error at 20 °C	< 0.2 % v. E.			
Temperature coefficient	< 0.015 %/K			
Effect of load impedance at current output	0.02 % / 100 Ω			
Limit frequency: (sinus 100%)				
at sinus 100%	20 kHz			
at ± 10 V	10 kHz			
Typical effect of frequency on transfer	1 % / kHz; 2°el / kHz			
Isolation				
All terminals to earth	2 kV _{eff.}			
Temperature range				
Operating temperature range for 24 V				
vertical installation without space	0 ...50 °C			
vertical installation with spacing of 20 mm	0 ...60 °C			
Storage temperature	-40...+85 °C			
Wire range	20 – 10 AWG			

AKT

with signal and supply isolation



Analog interface module with electrical isolation

Approvals: , CSA

Dimensions (mm) W x H x D
22.5 x 60.5 x 90.5

Std. pack	Part no.	Part no.	Part no.	Part no.
1	-10...+10 V	57806.1053.0*	57806.2253.0	57806.5653.0
1	0...10 V	57806.2653.0	57806.1053.0	57806.0653.0
1	0...20 mA	57806.2753.0	57806.0753.0***	57806.1153.0**
1	4...20 mA	57806.5553.0	57806.0853.0	57806.1353.0
	Output	-10...10 V	0...10 V	0...20 mA
				4...20 mA
Other signals on request		Ordering example: AKT ±10 V / ±10 V		* contains transfer 0...10 V / 0...10 V
		57806.1053.0		** contains transfer 4...20 mA / 4...20 mA
Wiring diagram, sample application				*** can also be used for -20...+20 mA / -10 V...+10 V
Technical data		See page 510		
Operating voltage		24 V DC ± 20%, polarised		
Typical power consumption (Output signal 20 mA)				
at 19 V DC		117 mA		
at 24 V DC		88 mA		
at 29 V DC		72 mA		
Input				
Input resistance:				
for standard voltage		1 MΩ		
for standard current		49.9 Ω		
Maximum permitted input signal				
for standard voltage		60 V		
for standard current		70 mA (3.5 V)		
Voltage drop at 20 mA		1 V		
Input protection against voltage peaks		LC-Filter		
Output				
Output load:				
for standard voltage maximum		5 mA (RL ≥ 100 kΩ, see R _i)		
for standard current		0...500 Ω (load)		
Maximum load error (adjustment at 100 Ω)		0.02 % / 100 Ω		
Maximum output ripple (2 output filters)		30 mV _s (40 kHz)		
Output protection against external voltage		Z-Diode(n)		
Transfer procedure				
Static transmission error at 20 °C		< 0.1 % v. E.		
Temperature coefficient		< 0.02 % / K		
Effect of load impedance at current output		0.02 % / 100 Ω		
Limit frequency: (Sinus 100%)		20 kHz		
at ± 10 V		10 kHz		
Typical effect of frequency on transfer		1 % / kHz; -2°el / kHz		
Isolation				
Input / Output / Supply		3 x 1,5 kV _{eff} , 1 min.		
Input / Output / Supply		3 x 2,5 kV _{eff} , 10 sec.		
Input / Output / Supply		3 x 4 kV _{eff} , 1,2/50 μs		
All terminals to earth		2 kV _{eff} .		
Temperature range				
Operating temperature range for 24 V				
vertical installation without space		0...50 °C		
vertical installation with spacing of 20 mm		0...60 °C		
Storage temperature		40...+85 °C		
Wire range		20 – 10 AWG		

Analog measurement technology components.com

Isolating set point amplifier

UET

with 2 contact outputs

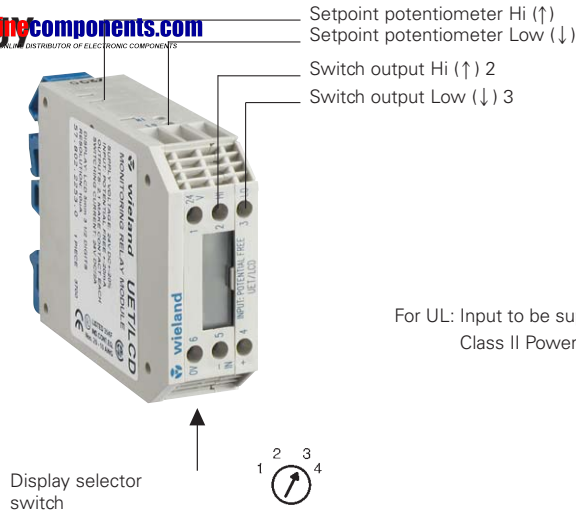
Important note for user:

The relay outputs must be supplied from the same phase (e.g. L1).

Caution:

Can only be mounted vertically due to the internal relays

Dimensions (mm) W x H x D
22,5 x 60,6 x 90,5

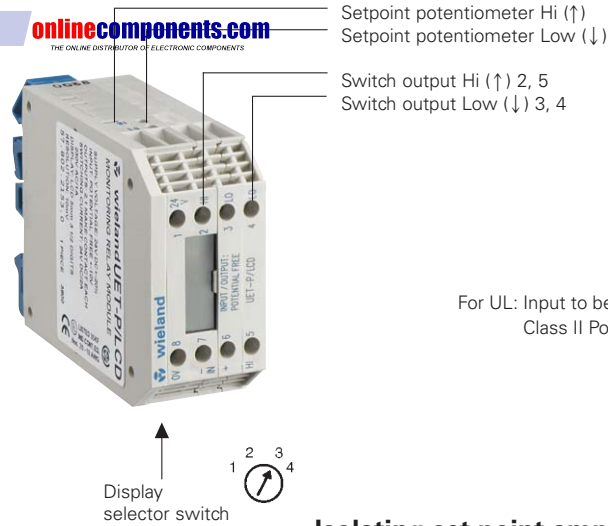


For UL: Input to be supplied from Listed Class II Power Supply

Isolating set point amplifier with LCD display or measuring points

Approvals: , CSA

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
with measuring points	UET ±10 V*	57.802.1053.0	1	UET 20 mA**	57.806.1253.0	1
with LCD display	UET/LCD ±10 V*	57.802.2053.0	1	UET/LCD 20 mA**	57.802.2253.0	1
Versions with other input data available on request	* contains standard signal 0...10 V			** contains standard signal 4...20 mA		
Wiring diagram	See page 513			See page 513		
Technical data	UET ±10 V			UET 20 mA		
Operating voltage	24 V DC ±20%, polarised			24 V DC ±20%, polarised		
Power consumption at 24 V, 2 active relays	ca. 40 mA + output currents			ca. 40 mA + output currents		
Potential free input						
Measured input	±19.99 V			±19.99 mA		
Input resistance	1 MΩ			100 Ω		
Maximum permitted input signal	±50 V			±50 mA (±5 V)		
Input protection (interference suppression)	LC-filter			LC-filter		
Measuring points for external multimeter on measured input potential (for UET)	±1.99 V (acc. ±19,9 ±1.99 measured signal)			±1.99 V (acc. ±19.9 V Measured signal)		
Digital display, LCD 3 1/2 digit	with sign and dimension			with sign and dimension		
Character height	5 mm			5 mm		
Accuracy of display						
at 20 °C	±2 digit			±2 digit		
at 0...60 °C	±5 digit			±5 digit		
Display of range	±19.99 V			±19.99 mA		
Resolution	10 mV			10 µA		
Setpoint adjustment range	±19.99 V			±19.99 mA		
Switch outputs						
Switching voltage	24 V DC			24 V DC		
Maximum switching current	2 A			2 A		
Switching hysteresis	ca. ±20 mV			ca. ±20 µA		
Reproducibility of switching points	ca. ±10 mV			ca. ±10 µA		
Reaction time						
Pickup delay	7 ms			7 ms		
Dropout delay	5 ms			5 ms		
Contact	2 x 1 make contact (SPST, N. O.)			2 x 1 make contact (SPST, N. O.)		
Contact material	AgCdO + 1 µ Au			AgCdO + 1 µ Au		
Isolation						
input and supply	500 V DC			500 V DC		
contact and input	500 V DC			500 V DC		
contact and supply	-			-		
open contact	750 V _{eff.}			750 V _{eff.}		
Isolation against mounting rail	2 kV _{eff.}			2 kV _{eff.}		
Temperature range						
Operating temperature range, series connected at						
Vertical installation without spacing	0 ...50 °C			0 ...50 °C		
Vertical installation with spacing of 20 mm	0...60 °C			0...60 °C		
Storage temperature	-40...+85 °C			-40...+85 °C		



with 2 potential free contact outputs



View from underneath

Caution:
It is permitted to install the device vertically due to the relays

Dimensions (mm) W x H x D
29 x 60,6 x 90,5

Position 1+4: Measured value/
actual value
Position 2: Setpoint "LO" (↓)
Position 3: Setpoint "HI" (↑)

For UL: Input to be supplied from Listed Class II Power Supply

with LCD display or measuring points

Approvals , CSA

Isolating set point amplifier, potential free

Description	Part no.	Std. pack	Part no.	Std. pack	Part no.	Std. pack
with measuring points	UET-P ±199 mV	57802.1453.0	1			
	UET-P ±10 V*			57802.1153.0	1	
	UET-P 20 mA**					57802.1353.0
with LCD display	UET-P/LCD ±10 V*			57802.2153.0	1	
	UET-P/LCD 20 mA**					57802.2353.0
Versions with other input data available on request				* contains standard signal 0...10 V		** contains standard signal 4...20 mA
Wiring diagram	See page 513			See page 513		See page 5/111
Technical data	UET-P ±199 mV			UET-P ±10 V		UET-P 20 mA
Operating voltage	24 V DC ±20%, polarised			24 V DC ±20%, polarised		24 V DC ±20%, polarised
Power consumption at 24 V, 2 active relays	ca. 40 mA + output currents			ca. 40 mA + output currents		ca. 40 mA + output currents
Potential free input						
Measured input	±19.99 mA			±19.99 mA		±19.99 mA
Input resistance:	1 MΩ			1 MΩ		100 Ω
Maximum permitted input signal	±50 V			±50 V		±50 mA (±5 V)
Input protection (interference suppression)	LC-Filter			LC-Filter		LC-Filter
Measuring points for external multimeter on measured input potential (for UET)	±1.99 V (acc. ±19.9 V measured signal)			±1.99 V (acc. ±19.9 V measured signal)		±1.99 V (acc. ±19.9 V measured signal)
Digital display, LCD 3 1/2 digit				with sign and dimension		with sign and dimension
Character height				5 mm		5 mm
Accuracy of display at 20 °C				±2 digit		±2 digit
at 0...60 °C				±5 digit		±5 digit
Display of range	±199,9 mV			±19.99 V		±19.99 mA
Resolution	100 µV			10 mV		10 µA
Setpoint adjustment range	±199,9 mV			±19.99 V		±19.99 mA
Switch outputs						
Switching voltage	24 V DC / 230 V AC			24 V DC / 230 V AC		24 V DC / 230 V AC
Maximum switching current	2 A DC / 1 A AC			2 A DC / 1 A AC		2 A DC / 1 A AC
Switching hysteresis	ca. 200 µV			ca. 20 mV		ca. ±20 µA
Reproducibility of switching points	±100 µV			±10 mV		ca. ±10 µA
Reaction time						
Pickup delay	7 ms			7 ms		7 ms
Dropout delay	5 ms			5 ms		5 ms
Contact	2 x 1 make contact (SPST, N. O.)			2 x 1 make contact (SPST, N. O.)		2 x 1 make contact (SPST, N. O.)
Contact material	AgCdO + 1 µ Au			AgCdO + 1 µ Au		AgCdO + 1 µ Au
Isolation						
Input and supply	500 V DC			500 V DC		500 V DC
Contact and input	1.5 kV _{eff.}			1.5 kV _{eff.}		1.5 kV _{eff.}
Contact and supply	1.5 kV _{eff.}			1.5 kV _{eff.}		1.5 kV _{eff.}
open contacts	750 V _{eff.}			750 V _{eff.}		750 V _{eff.}
Isolation against mounting rail	2 kV _{eff.}			2 kV _{eff.}		2 kV _{eff.}
Temperature range						
Operating temperature range, series connected at						
Vertical installation without spacing	0 ...50 °C			0 ...50 °C		0 ...50 °C
Vertical installation with spacing of	0...60 °C			0...60 °C		0...60 °C
Storage temperature	-40...+85 °C			-40...+85 °C		-40...+85 °C

Constant voltage source 10 V

dipos KSO



- Overall width 12.5 mm
- Output voltage can be set between 9.5 V and 10.5 V
- Detection of wire breakage
Overload signal at the output, red LED

Dimensions (mm) W x H x D
 12.5 x 100 x 100

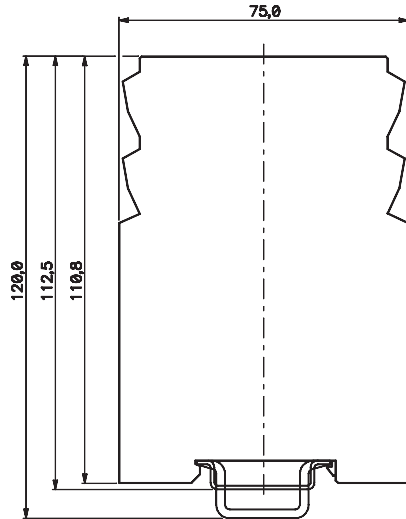
Constant voltage source dipos_{KSO} 10 V

Approvals: , CSA in preparation

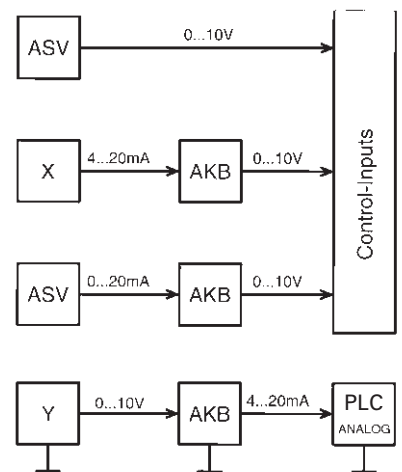
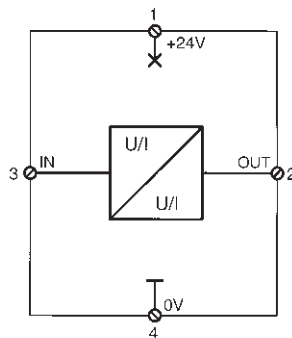
Description	Output signal	Type	Part no.	Std. pack
dipos KSO 10 V Constant voltage source		dipos KSO 10 V	82.081.0000.0	1
Wiring diagram, dimensions siehe Seite 513				
Technical data				
Measured input				
Operating voltage U_V		24 V DC (16...30 V DC), polarised		
Power consumption at $U_V = 24 V$		approx. 10 mA + output current		
Measured output				
Output voltage		10 V DC constant, short circuit proof		
Setting range		9.5 V...10.5 V DC		
Permitted output load		0...30 mA		
Short-circuit current		approx. 50 mA		
Maximum residual ripple		10 mV _{SS}		
Output protection		Protective diodes		
Measuring accuracy				
Intrinsic error		$\pm 0.1\%$ of final value (at $U_V = 24 V$, and 20 °C ambient temperature)		
Maximum temperature coefficient		150 ppm/K of final value		
General data				
Isolation				
		2 kV _{off} (terminals to mounting rail)		
Ambient temperature range		0 °C...+60 °C (at $U_V = 24 V$)		
Storage temperature		-25 °C...+60 °C		
Transport temperature		-25 °C...+70 °C		
EMC				
Emitted interference		EN 55022/KI. B, EN 61000-6-1, CISPR 222/KI. B		
Interference immunity		EN 61000-4-2/3/4/5/6		
Accessories				
Module board, overall width of 12.5mm, 4 connections per side				
Screw terminal		80.060.0020.1		1
Spring clamp terminal		80.060.0021.1		1
Coding branch		Z5.563.0453.0		25
Plug-in jumper		Z8.000.0229.5		50
Large marker tag, white, blank		04.249.4053.0		500
Small marker tag		04.249.1053.0		500
red, blank		04.249.1553.0		500
blue, blank		04.249.2053.0		500
white, blank		04.249.2053.0		500

cores, AKT+AKB

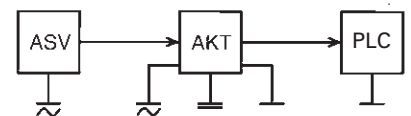
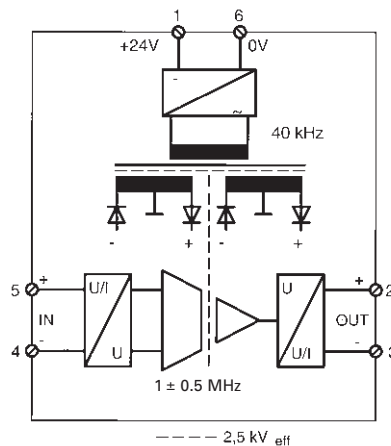
cores dimensions



AKB
Analog interface module



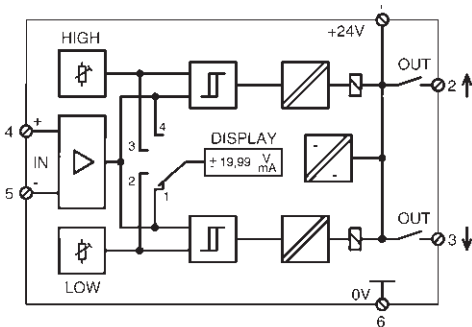
AKT
Analog isolating module



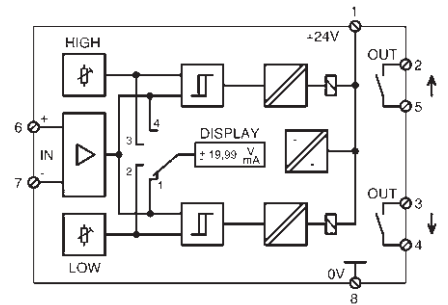
UET, UET-P, dipos KSO, KSO, dipos KSO, KSO

UET/UET-P Isolating set point amplifiers

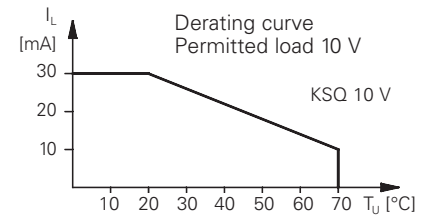
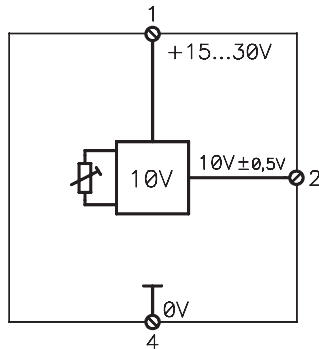
UET



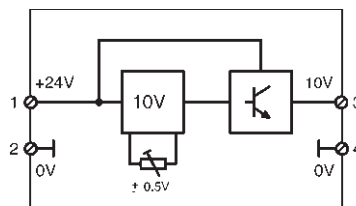
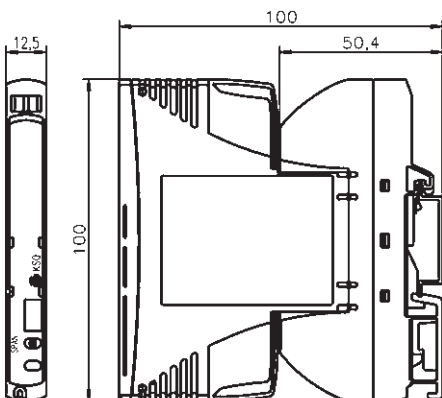
UET-P



KSO
Constant voltage source



dipos
Constant voltage source



power

Single phase/three phase switched mode power supply units

Power supply units 24 V/0.3 – 40 A

Universal power transformer

Rectifier module

Fixed voltage regulator

power offers

- Temperature controlled power limit
- Efficiency < 90 %
- Modules with current limiter
- Overload indication
- Compact designs
- Short circuit protection
- Broad band output

All Wieland Components which require **CE** general certification are **CE** certified, and identified with the **CE** logo.



Electronic Components

Power-Supply



Output characteristic

Response characteristic of the power supply when exceeding the specified output values.

The output characteristics are:

□ Constant current mode

When exceeding the nominal current, the device supplies a constant current independent of the voltage.

□ Fold-back mode

When exceeding the nominal current, the output voltage decreases to zero while the current subsides.

□ Hiccup mode

The device switches off when the nominal current is exceeded, but switches on again periodically and checks whether the overload is still applied. When the overload has diminished, the device switches on automatically.

□ Over-current switch-off mode

When exceeding the nominal current, the device switches off and must be manually switched on again after the overload is removed.

Response time

The period of time required after a defined load change until the output voltage is again within the tolerance range.

Operating temperature

The temperature range that an operating device must not exceed.

Drift

Output voltage changing over time or the temperature.

DC/DC transducer

Device that converts a given direct voltage into a different direct voltage by means of a switching regulator.

Inrush current

The peak current caused during switch-on of a power supply by the charging current of the filter capacitors. It is limited by the input impedance but can also be limited further by special components.

Radio interference, electromagnetic interference

Unwanted high-frequency disturbance variables caused by switching processes within the power supply. We distinguish between conducted and radiated radio interference. Conducted interferences are reduced to permitted values by means of filters, while radiated interferences can be kept within the permitted limits by means of optimized PCB creation and screening.

Insulation voltage

Insulation voltage is the maximum voltage that can be applied between two isolated circuits.

Cooling

Heat transfer from components that are producing power loss. We distinguish between thermal radiation, convection (natural and forced convection with fan), and thermal conduction to an external heat exchanger.

Short-circuit protected

Protection of the power supply against overload and short circuit.

See the output characteristic for various options.

Storage temperature

The temperature range at which a device can be stored (not operated) without being damaged.

Load regulation

Change of output voltage at a defined load change.

Power reduction, derating

Reduction of output power required under certain circumstances such as when exceeding a defined temperature.

Power factor

Ratio between real power and apparent power. In a switch-mode power supply, the power factor normally becomes smaller than 1 due to a non-sinusoidal current input.

Hold-up time

The period of time in which the output voltage is still controlled after the mains voltage has dropped completely.

Line regulation

Change of output voltage at a defined mains voltage change while all the other parameters (load) are kept constant.

Nominal output voltage

Output voltage specified for the device. The voltage can be increased or decreased within specified limits below and above the nominal value.

Temperature coefficient

Output voltage change depending on the temperature.

Ambient temperature

Temperature of the steady air around the device. It is normally measured within a radius of approx. 10 mm around the operating device.

Overshoot

Increase of the output voltage exceeding the specific value due to a rapid load change.

Overcurrent limitation

Protective mechanism against overload of the power supply due to excessive output current. Also see short-circuit current.

Efficiency

Relation between output power and input power, normally indicated at full load and nominal input voltage. Efficiency is one of the most important features when evaluating a power supply.

The difference between input power and output power is converted into heat. Any increase in efficiency therefore results in the heat load on the components being reduced and the service life of the device being increased. Even small improvements in efficiency will result in drastic changes in the service life.

wipos

wipos switch-mode power supplies – Power competence for any control cabinet

Power supplies are the heart of any control cabinet. They safeguard the life of any connected electrical and electronic component. In addition to providing a reliable supply to units under different load cases, the devices themselves must also be safe for the user.

Narrow, but powerful

Knowing that rail space is a key concern for our customers, we designed our new **wipos** power supplies with a very narrow footprint, enabling optimal space utilization in the control cabinet. Our single-phase, rail-mountable devices range from 50 to 480 W and require only 45 mm to 86 mm of rail space.

Your life is important to us

The vertical **wipos** device series, provides a hinged cover for the primary-side connection points. It safely covers all connection points with hazardous contact voltage. Wire entries are clearly marked for safe and easy installation.

Overload problems – non-existent for wipos

wipos incorporates a temperature-controlled power limitation function as protection against overload caused by excessive ambient temperatures or unfavorable installation conditions. The output voltage is reduced causing the output power to decrease before the semi-conductors can reach an impermissibly high temperature.

Parallel operation – whatever you want

For special balancing of the output current during parallel operation of several **wipos** devices, the output can be changed. It is set by default in a way that the output voltage is as constant as possible, independent of the load.

The control precision is $\pm 1\%$ of the nominal current. For parallel operation, the output is changed in a way that an approximately uniform load distribution is achieved even when considering manufacturing tolerances and slightly different output voltages. The overall residual ripple is very low at < 50 mV.

Further features of the **wipos** switch mode power supply series:

- Power factor correction (PFC, vertical versions) according to EN 61000-3-2
- Temperature-prompted power limitation
- Efficiency up to 90%
- Extended output voltage range of 23 V – 30 V
- Output characteristic selectable for output current balancing during parallel operation
- Change of current limitation via internal potentiometer
- Reduced ripple on the output (< 50 mV)
- Reduced ramp-up time < 1 s
- Protection against battery discharge in OFF state during parallel loading operation
- Red LED to signal overloads
- Convenient DIN rail mounting, even for 40 A, 3-phase devices
- Hiccup Mode
- Optional features; remote ON/OFF, overload signal, power failure signal, and output characteristic switchover
- UL-pending, CSA approvals
- Standards
VDE 0805, EN 60950, IEC 950, UL 1950, safety extra-low voltage (SELV) EN 60950, EN 55011, EN 61000-6-1/-2, EN 55022 class B

Custom devices and solutions also available.

Single-phase switch-mode power supplies vertical design

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wipos



24 V / 2 A
Primary switch-mode regulator
CE; Approvals: UL, CSA and pending
45 x 72 x 105



24 V / 5 A
Primary switch-mode regulator
CE; Approvals: UL, CSA and pending
70 x 138 x 139

Dimensions (mm): W x H x D

Description	Type	Part no.	Type	Part no.
48 W	power supply, 24 V / 2 A	81.000.6010.0	power supply, 24 V / 5 A	81.000.6030.0
120 W				
240 W				
480 W				
Output power, current limitation characteristic	see graphs on page 530		see graphs on page 530	
Input				
Nominal input voltage	110–230 V _{AC} , 47–63 Hz (universal input)		115/230 V _{AC} , 47–63 Hz (selectable input)	
Input voltage range	94–265 V _{AC}		93–132 V _{AC} , 187–265 V _{AC}	
Nominal input current	0.6 A at 230 V _{AC} /1.1 A at 115 V _{AC}		0.9 A at 230 V _{AC} /2.2 A at 115 V _{AC}	
Input current peak	I/t < 1.5 A/s		< 30 A	
Power factor cos φ	0.45 capacitive at 230 V _{AC} /0.5 capacitive at 115 V _{AC}		0.5 capacitive at 230 V _{AC} /0.58 capacitive at 115 V _{AC}	
PFC standard (harmonics)	–		EN 61000-3-2	
Output				
Output voltage	24 V ±3%		24 V ±1%	
Typical output setting range	–		22–30 V DC	
Output direct current	0–2 A		0–5 A	
Max. power output	–		120 W (when set to 30 V max. 4 A)	
Ripple	< 50 mV		< 50 mV	
Typical current limitation	2.5 A		6 A	
Parallel operation	yes		yes	
Efficiency, typical	89%		89%	
Hold-up time	> 70 ms / 230 V _{AC} ; > 10 ms / 115 V _{AC}		> 20 ms / 230 V _{AC} ; > 15 ms / 115 V _{AC}	
Line regulation	< 0.2% at UON ±15%		< 0.2% at UON ±15%	
Load regulation	< 1% at 0 A -> > I _{nominal}		< 1% at 0 A -> > I _{nominal}	
Dynamics	< 2 ms at 10 -<--> 90% I _{nominal}		< 2 ms at 10 -<--> 90% I _{nominal}	
Current limitation	permanently short-circuit proof (see graphs on page 530)		permanently short-circuit proof (see graphs on page 530)	
Overrun-proof/open-circuit proof	yes		yes	
Output overcurrent switch-off	yes		yes	
Output security	VDE 0805/EN 60950/IEC 950/UL 1959		VDE 0805/EN 60950/IEC 950/UL 1959	
Class of Protection	safety extra-low voltage (SELV) EN 60950		safety extra-low voltage (SELV) EN 60950	
Degree of protection	class I at 149002-31001/149002-21001		class I at 149002-31001/149002-21001	
Additional data, standards	IP 20		IP 20	
Leakage current	< 0.25 mA (47–63 Hz mains frequency)		< 0.75 mA (47–63 Hz mains frequency)	
Ambient temperature	–10 °C...+70 °C at free convection		–10 °C...+70 °C at free convection	
Power derating	2.5%/K from +60 °C (see graphs on page 530)		2.5%/K from +60 °C (see graphs on page 530)	
Storage temperature	–25 °C...+85 °C		–25 °C...+85 °C	
EMC CE-certified	EN 55011, EN 61000-6-1/-2 EN 55011/EN 55022 class B		EN 55011, EN 61000-6-1/-2 EN 55011/EN 55022 class B	
	8 KV contact discharge, 15 KV air discharge		8 KV contact discharge, 15 KV air discharge	
	10 V/m		10 V/m	
	4 kV input, 2 kV output / capacitive coupling		4 kV input, 2 kV output / capacitive coupling	
	4 kV unbalanced, 4 kV balanced		4 kV unbalanced, 4 kV balanced	
	10 V, 150 kHz...80 MHz		10 V, 150 kHz...80 MHz	
Weight	approx. 0.2 kg		approx. 0.9 kg	
Installation	slide for mounting to DIN rail DIN EN 60715		slide for mounting to DIN rail DIN EN 60715	
Installation position	panel-mounted; input connectors on top, output conn. at the bottom		panel-mounted; input connectors on top, output conn. at the bottom	

wipos



24 V / 10 A
Primary switch-mode regulator
CE; Approvals: , CSA and pending
70 x 153.5 x 164



24 V / 20 A
Primary switch-mode regulator
CE; Approvals: , CSA and pending
86 x 233 x 173

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
48 W						
120 W						
240 W	mains power supply 24 V / 10A	81.000.6040.0	1			
480 W				power supply 24 V / 20 A	81.000.6050.0	1
Output power, current limitation characteristic	see page 10			see page 10		
Input						
Nominal input voltage	115/230 V _{AC} , 47–63 Hz (selectable input)			230 V _{AC} , 47–63 Hz		
Input voltage range	93–132 V _{AC} , 187–265 V _{AC}			190–265 V _{AC}		
Nominal input current	1.8 A at 230 V _{AC} /4.2 A at 115 V _{AC}			3.0 A at 230 V _{AC}		
Input current peak	< 30 A			< 30 A		
Power factor cos φ	0.5 capacitive at 230 V _{AC} /0.58 capacitive at 115 V _{AC}			0.82 capacitive at 230 V _{AC}		
PFC standard (harmonics)	EN 61000-3-2			EN 61000-3-2		
Output						
Output voltage	24 V ±1%			24 V ±1%		
Typical setting range	22–30 V DC			23–29 V DC		
Output direct current	0–10 A			0–20 A		
Max. power output	240 W (when set to 30 V max. 8 A)			480 W (when set to 29 V max. 16 A)		
Ripple	< 50 mV			< 50 mV		
Typical current limitation	12 A			22 A		
Parallel operation	yes			yes		
Efficiency, typical	90%			89%		
Hold-up time	> 35 ms / 230 V _{AC} ; > 30 ms / 115 V AC			> 20 ms / 230 V _{AC}		
Line regulation	< 0.2% at U _{ON} ±15%			< 0.2% at U _{ON} ±15%		
Load regulation	< 1% at 0 A -> >I _{nominal}			< 1% at 0 A -> >I _{nominal}		
Dynamics	< 2 ms at 10 <-> 90% I _{nominal}			< 2 ms at 10 <-> 90% I _{nominal}		
Current limitation	permanently short-circuit proof (see graph on page 10)			permanently short-circuit proof (see graph on page 10)		
Overrun-proof/open-circuit proof	yes			yes		
Output overcurrent switch-off	yes			yes		
Output security	VDE 0805/EN 60950/IEC 950/UL 1959 safety extra-low voltage (SELV) EN 60950			VDE 0805/EN 60950/IEC 950/UL 1959 safety extra-low voltage (SELV) EN 60950		
Class of protection	class I at 149002-31001/149002-21001			class I at 149002-31001/149002-21001		
Degree of protection	IP 20			IP 20		
Leakage current	< 0.75 mA (47–63 Hz mains frequency)			< 3.50 mA (47–63 Hz mains frequency)		
Ambient temperature	–10 °C...+70 °C at free convection			–10 °C...+70 °C at free convection		
Power derating	2.5%/K from +60 °C (see graph on page 10)			2.5%/K from +60 °C (see graph on page 10)		
Storage temperature	–25 °C...+85 °C			–25 °C...+85 °C		
EMC CE-certified	EN 55011, EN 61000-6-1/2			EN 55011, EN 61000-6-1/2		
Radio interference suppression	EN 55011/EN 55022 class B			EN 55011/EN 55022 class B		
Static discharge ESD (IEC 1000-4-2)	8 kV contact discharge, 15 kV air discharge			8 kV contact discharge, 15 kV air discharge		
Electromagnetic fields (IEC 1000-4-3)	10 V/m			10 V/m		
Burst (IEC 1000-4-4)	4 kV input, 2 kV output / capacitive coupling			4 kV input, 2 kV output / capacitive coupling		
Surge (IEC 1000-4-5)	4 kV unbalanced, 4 kV balanced			4 kV unbalanced, 4 kV balanced		
Conducted interference type (ENV 50141, IEC 1000-4-6)	10 V, 150 kHz...80 MHz			10 V, 150 kHz...80 MHz		
Weight	approx. 1.1 kg			approx. 2.0 kg		
Installation	slide for DIN rail mounting DIN EN 60715			slide for DIN rail mounting DIN EN 60715		
Mounting position	panel-mounted; input connectors on top, output conn. at the bottom			panel-mounted; input connectors on top, output conn. at the bottom		

Single-phase switch-mode power supplies horizontal design

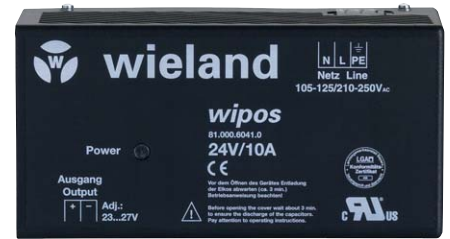
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wipos



24 V / 5 A Single-phase primary switch-mode regulator

CE; Approvals: cULus, and CSA pending
147 x 105 x 86



24 V / 10 A Single-phase primary switch-mode regulator

CE; Approvals: cULus, and CSA pending
205 x 105 x 86

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
120 W	mains power supply 24 V / 5 A	81.000.6031.0	1			
240 W				mains power supply 24 V / 10 A	81.000.6041.0	1
480 W						
Output power, current limitation characteristic	see graphs on page 530			see graphs on page 530		
Input						
Nominal input voltage	105-250 V _{AC} , 47-63 Hz (universal input)			105-125 V _{AC} / 210-250 V _{AC} , 47-63 Hz		
Input voltage range	97-265 V _{AC} , 47-63 Hz			97-132 V _{AC} / 195-265 V _{AC} , 47-63 Hz, can switched over to solder bridge		
Nominal input current	1.23 A at 230 V _{AC}			4.0 A at 115/230 V _{AC} / 2.2 A at 230 V _{AC}		
Input current peak	< 30 A			< 30 A		
Power factor cos φ	0.52 capacitive at 230 V _{AC}			0.52 capacitive at 230 V _{AC}		
Fuse	5 x 20 mm, T 3,15 A / 250 V internal			5 x 20mm, T 6.3 A / 250 V internal		
Output						
Output voltage	24 V DC ±1%			24 V DC ±1%		
Typical setting range	22.5-27.5 V DC			22.5-27.5 V DC		
Output direct current	0-5 A			0-10 A		
Ripple	< 100 mV			< 100 mV		
Typical current limitation	6 A			12.5 A		
Parallel operation	yes			yes		
Efficiency, typical	86%			89%		
Hold-up time	> 80 ms / 230 V _{AC} ; > 15 ms / 115 V _{AC}			> 15 ms / 230 V _{AC}		
Line regulation	< 0.2% at U _{ON} ±15%			< 0.2% at U _{ON} ±15%		
Regulation	< 1% at 0 A -> > I _{nominal}			< 1% at 0 A -> > I _{nominal}		
Dynamics	< 2 ms at 10 <-> 90% I _{nominal} , overshoot < 2%			< 2 ms at 10 <-> 90% I _{nominal} , overshoot < 2%		
Current limitation	permanently short-circuit proof (see graphs on page 530)			permanently short-circuit proof (see graphs on page 530)		
Overrun-proof/open-circuit proof	yes			yes		
Output overcurrent switch-off	yes			yes		
Output security	VDE 0805/EN 60950/IEC 950/UL 1959			VDE 0805/EN 60950/IEC 950/UL 1959		
Class of protection	safety extra-low voltage (SELV) EN 60950			safety extra-low voltage (SELV) EN 60950		
Degree of protection	class I			class I		
Leakage current	IP 20			IP 20		
Leakage current	< 0.75 mA (47-63 Hz mains frequency)			< 0.75 mA (47-63 Hz mains frequency)		
Ambient temperature	0 °C...+70 °C at free convection			0 °C...+70 °C at free convection		
Power derating	2.5%/K from +60 °C (see graph on page 10)			2.5%/K from +60 °C (see graph on page 10)		
Storage temperature	-25 °C...+85 °C			-25 °C...+85 °C		
EMC CE-certified	EN 61000-6-3/-4, EN 61000-6-1/-2			EN 61000-6-3/-4, EN 61000-6-1/-2		
Radio interference suppression	EN 55011/EN 55022 class B			EN 55011/EN 55022 class B		
Static discharge ESD (IEC 1000-4-2)	8 kV contact discharge, 15 kV air discharge			8 kV contact discharge, 15 kV air discharge		
Electromagnetic fields (IEC 1000-4-3)	10 V/m			10 V/m		
Burst (IEC 1000-4-4)	4 kV input, 2 kV output / capacitive coupling			4 kV input, 2 kV output / capacitive coupling		
Surge (IEC 1000-4-5)	4 kV unbalanced, 4 kV balanced			4 kV unbalanced, 4 kV balanced		
Conducted interference type (ENV 50141, IEC 1000-4-6)	10 V, 150 kHz...80 MHz			10 V, 150 kHz...80 MHz		
Weight	approx. 0.8 kg			approx. 1.2 kg		
Installation	snap-on DIN rail fixation DIN EN 60715			snap-on DIN rail fixation DIN EN 60715		
Installation position	panel-mounted; input connectors on top, output conn. at the bottom			panell-mounted; input connectors on top, output conn. at the bottom		

wipos



24 V / 20 A Single-phase primary switch-mode regulator

CE; Approvals: and CSA pending

Dimensions (mm): W x H x D
240 x 130 x 86

Description	Type	Part no.	Std. pack
120 W			
240 W			
480 W	mains power supply 24 V / 20 A	81.000.6051.0	1
output power, current limitation characteristic	see graphs on page 530		
Input			
Nominal input voltage	210–250 V _{AC} , 47–63 Hz (universal input)		
Input voltage range	195–265 V _{AC} , 47–63 Hz		
Nominal input current	4.2 A at 230 V _{AC}		
Input current peak	< 30 A		
Power factor cos φ	0.53 capacitive at 230 V _{AC}		
Fuse	5 x 20mm, T 10 A / 250 V internal		
Output			
Output voltage	24 V DC ±1%		
Typical setting range	22.5-27.5 V DC		
Output direct current	0-20 A		
Ripple	< 100 mV		
Typical current limitation	25 A		
Parallel operation	yes		
Efficiency, typical	88%		
Hold-up time	> 15 ms / 115 V _{AC}		
Line regulation	< 0.2% at U _{ON} ±15%		
Load regulation	< 1% at 0 A -> >I _{nominal}		
Dynamics	< 2 ms at 10 <-> 90% I _{nominal} , overshoot < 2%		
Current limitation	permanently short-circuit proof (see graphs on page 530)		
Overrun-proof/open-circuit proof	yes		
Output overvoltage switch-off	yes		
Output security	VDE 0805/EN 60950/IEC 950/JUL 1959 safety extra-low voltage (SELV) EN 60950		
Class of protection	class I		
Degree of protection	IP 20		
Leakage current	< 3.50 mA (47–63 Hz mains frequency)		
Ambient temperature	0 °C...+70 °C at free convection		
Power derating	2.5%/K from +60 °C (see graphs on page 530)		
Storage temperature	-25 °C...+85 °C		
EMC CE-certified	EN 61000-6-3/-4, EN 61000-6-1/-2		
Radio interference suppression	EN 55011/EN 55022 class B		
Static discharge ESD (IEC 1000-4-2)	8 kV contact discharge, 15 kV air discharge		
Electromagnetic fields (IEC 1000-4-3)	10 V/m burst (IEC 1000-4-4) 4 kV input, 2 kV output / capacitive coupling		
Surge (IEC 1000-4-5)	4 kV unbalanced, 4 kV balanced		
Conducted interference type (ENV 50141, IEC 1000-4-6)	10 V, 150 kHz...80 MHz		
Weight	approx. 1.9 kg		
Installation	snap-on DIN rail fixation DIN EN 60715		
Mounting position	panel-mounted; input connectors on top, output conn. at the bottom		

Three-phase switch-mode power supplies – horizontal design

wipos



24 V / 20 A
Three-phase primary switch-mode regulator

CE; Approvals: UL, and CSA pending
 240 x 130 x 86



24 V / 40 A
Three-phase primary switch-mode regulator

CE; Approvals: UL, and CSA pending
 296 x 176 x 86

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
480 W	mains power supply 24 V / 20A	81.000.6053.0	1			
960 W				mains power supply 24 V / 40 A	81.000.6063.0	1
Output power, current limitation characteristic	see graphs on page 530			see graphs on page 530		
Input						
Nominal input voltage	3 x 360–500 V _{AC} , 47–63 Hz			3 x 360–500 V _{AC} , 47–63 Hz		
Input voltage range	3 x 340–550 V _{AC} , 47–63 Hz			3 x 340–550 V _{AC} , 47–63 Hz		
Nominal input current	3 x 1.5 A at 3 x 400 V _{AC}			3 x 3 A at 3 x 400 V _{AC}		
Input current peak	< 50 A			< 50 A		
Power factor cos φ	0.53 capacitive at 400 V _{AC}			0.53 capacitive at 400 V _{AC}		
Output						
Output voltage	24 V DC ±1%			24 V DC ±1%		
Typical setting range	22.5–27.5 V DC			22.5–27.5 V DC		
Output direct current	0–20 A			0–40 A		
Ripple	< 100 mV			< 100 mV		
Typical current limitation	25 A			45 A		
Parallel operation	yes			yes		
Efficiency, typical	90%			90%		
Hold-up time	> 5 ms / 400 V _{AC}			> 5 ms / 400 V _{AC}		
Line regulation	< 0.2% at U _{ON} ±15%			< 0.2% at U _{ON} ±15%		
Load regulation	< 1% at 0 A → > I _{nominal}			< 1% at 0 A → > I _{nominal}		
Dynamics	< 2 ms at 10 ↔ 90% I _{nominal} , overshoot < 2%			< 2 ms at 10 ↔ 90% I _{nominal} , overshoot < 2%		
Current limitation	permanently short-circuit proof (see graphs on page 530)			permanently short-circuit proof (see graphs on page 530)		
Overrun-proof/open-circuit proof	yes			yes		
Output overvoltage switch-off	yes			yes		
Output security	VDE 0805/EN 60950/IEC 950/UL 1959 safety extra-low voltage (SELV) EN 60950			VDE 0805/EN 60950/IEC 950/UL 1959 safety extra-low voltage (SELV) EN 60950		
Class of protection	class I			class I		
Degree of protection	IP 20			IP 20		
Leakage current	< 3.50 mA (47–63 Hz mains frequency)			< 3.50 mA (47–63 Hz mains frequency)		
Ambient temperature	0 °C...+70 °C at free convection			0 °C...+70 °C at free convection		
Power derating	2.5%/K from +60 °C (see graphs on page 530)			2.5%/K from +60 °C (see graphs on page 530)		
Storage temperature	–25 °C...+85 °C			–25 °C...+85 °C		
EMC CE-certified	EN 61000-6-3/-4, EN 61000-6-1/-2			EN 61000-6-3/-4, EN 61000-6-1/-2		
Radio interference suppression	EN 55011/EN 55022 class B			EN 55011/EN 55022 class B		
Static discharge ESD (IEC 1000-4-2)	8 kV contact discharge, 15 kV air discharge			8 kV contact discharge, 15 kV air discharge		
Electromagnetic fields (IEC 1000-4-3)	10 V/m			10 V/m		
Burst (IEC 1000-4-4)	4 kV input, 2 kV output / capacitive coupling			4 kV input, 2 kV output / capacitive coupling		
Surge (IEC 1000-4-5)	4 kV unbalanced, 4 kV balanced			4 kV unbalanced, 4 kV balanced		
Conducted interference type (ENV 50141, IEC 1000-4-6)	10 V, 150 kHz...80 MHz			10 V, 150 kHz...80 MHz		
Weight	approx. 1.9 kg			approx. 3.6 kg		
Installation	snap-on DIN rail fixation DIN EN 60715			snap-on DIN rail fixation DIN EN 60715		
Installation position	panel-mounted; input connectors on top, output conn. at the bottom			panel-mounted; input connectors on top, output conn. at the bottom		

Power Supply with overload protection and short circuit protection

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power supply



**Power supply unit 24 V / 0,3 A
unregulated**

Approvals: CSA
70.5 x 80 x 66



**Power supply unit 24 V / 1 A
regulated**

138 x 80 x 95

Dimensions (mm): W x H x D

Description	Type	Part No.	Box Qty	Type	Part No.	Box Qty
	WRS-T115/230-399M	81.000.3000.0	1	WPS-115/230-24 V1A	81.000.3010.0	1
Note for user:						
Before commissioning the power supply units, an external wire jumper (1 mm ²) must be inserted by the user to select to the input voltage!						
Wiring diagram, dimensions, diagram	See page 531			See page 531		
Input data						
Input voltage (U _E)	115/230 V AC +6%/-10%, 50-60 Hz			115/230 V AC +6%/-10%, 50-60 Hz		
115 V AC**	Insert external jumper between 1-3, 2-4			Insert external jumper between 1-3, 2-4		
230 V AC**	Insert external jumper between 2-3			Insert external jumper between 2-3		
Input current						
at U _E = 115 V AC	ca. 100 mA			ca. 450 mA		
at U _E = 230 V AC	ca. 50 mA			ca. 225 mA		
Power consumption	ca. 8 VA			ca. 52 VA		
Input fuse						
F1 (5 x 20 mm at U _E = 115 V AC)**	160 mA T			500 mA T		
F1 (5 x 20 mm at U _E = 230 V AC)	80 mA T			250 mA T		
** carried out by the user						
Output data						
Nominal voltage (U _N)	24 V DC (note voltage/current diagram page 531)			24 V DC ±5%		
Nominal current	300 mA (note voltage/current diagram page 531)			1 A		
Ripple voltage (load dependent) (at full load operation and min. input voltage)	< 2 V _{SS} -			type 20 mV maximum 1,5 V		
Output fuse F2 (5 x 20 mm)	315 mA T			short circuit proof		
Bridging facility using jumper (Jumper not included with supply)	Negative pole			Negative pole		
Maximum jumper current	0.5 A			1 A		
Status display	LED			LED		
General data						
Isolation voltage between input/output	4 kV, 50 Hz, 1min			4 kV		
Nominal operating mode	100% ED			100% ED		
Ambient temperature	-25 °C...+50 °C			0 °C...+40 °C		
Storage temperature	-40 °C...+85 °C			-40 °C...+85 °C		
Type of connection	Screw terminal			Screw terminal		
Wire range	22 - 12 AWG			22 - 12 AWG		
Finely stranded	0.5 - 2.5 mm ²			0.5 - 2.5 mm ²		
Single core	0.5 - 4 mm ²			0.5 - 4 mm ²		
Safety transformer according to	VDE 0551 (EN 60742)			VDE 0551 (EN 60742)		
Installation on DIN rail	TS 35			TS 35		
Mounting position	horizontal			horizontal		
Accessories						
Jumper (for bridging facility)	Z8.000.0103.4 10			Z8.000.0103.4 10		

power supply

Power transformer for 10 V, 18 V, 21 V and 24 V AC



Dimensions (mm): W x H x D
83 x 96 x 90

NTU Universal power transformer

Description	Type	Part No.	Box Qty
	WPS-115/230-60 VA	87.230.1553.0	1
Note for user:			
Before commissioning the power supply units, an external wire jumper (1 mm ²) must be inserted by the user to select to the input voltage!			
Wiring diagram, dimensions diagram	See page 531		
Input data			
Input voltage (U _E)	115/230 V AC +6%/-10%, 50-60 Hz		
115 V AC**	Insert external jumper between 1-3, 2-4		
230 V AC**	Insert external jumper between 2-3		
Input fuse			
F1 (5 x 20 mm at U _E = 115 V AC)**	0.8 mA T		
F1 (5 x 20 mm at U _E = 230 V AC)	0.4 mA T		
Suppression circuit	Varistor		
** carried out by the user			
Output data			
Output voltage (U _a)	10 V, 18 V, 21 V, 24 V AC		
Maximum output current	2.5 A AC		
Maximum output power	60 VA		
General data			
Isolation voltage between input/output	4 kV		
Nominal operating mode	100% ED		
Ambient temperature	0 °C...+40 °C		
Transport temperature	-25 °C...+70 °C		
Storage temperature	-25 °C...+55 °C		
Type of connection	Screw terminal		
Wire range	22 - 12 AWG		
Finely stranded	0.14 - 2.5 mm ²		
Single core	0.14 - 4 mm ²		
Safety transformer according to	VDE 0551 (EN 60742)		
Protection against accidental contact	DIN 40050 (IP 20)		
Installation on DIN rail	TS 35		
Mounting position	horizontal		

Suggested circuits for a complete power unit, consisting of the universal transformer 87.230.1553.0 and the respective rectifier module and/or fixed voltage regulator.

Output voltage V _~	Load current A	Type of switching	Rectifier/fixd voltage regulator	Secondary voltage V _~
5	1	regulated	87.230.0453.0	10
12	1	regulated	87.230.0553.0	18
15	1	regulated	87.230.0653.0	21
24	1	regulated	87.230.0753.0	24
24	2.0	unregulated	87.230.2053.0	18
24	2.5	unregulated	81.000.1000.0	18

electronics

Power Supply Rectifier modules



for generating filtered DC voltage



**Rectifier module
BGL 2,5 A**

38.5 x 80 x 75,7

**Rectifier module
BGL 3A**

61 x 96 x 62,7

Dimensions (mm): W x H x D

Description	Type	Part No.	Box Qty	Type	Part No.	Box Qty
	BGL-25VAC-2,5ADC	81.000.1000.0	1	BGL-40VAC-3ADC	87.230.2053.0	1
Wiring diagram, dimensions	See page 532			See page 532		
Input data						
Maximum input voltage	25 V AC			40 V AC		
Frequency	50-60 Hz			50-60 Hz		
On-state voltage	1.8 V			≤ 2 V		
Output data						
Output voltage maximal	40 V DC			63 V DC		
Maximum nominal current T _U = 45 °C	2.5 A			3 A		
General data						
Ambient temperature	-25 °C...+45 °C			-25 °C...+45 °C		
Storage temperature	-25 °C...+85 °C			-25 °C...+85 °C		
Wire range	22 – 12 AWG			22 – 12 AWG		
Finely stranded	0.5 – 2.5 mm ²			0.5 – 2.5 mm ²		
Single core	0.5 – 4 mm ²			0.5 – 4 mm ²		
Installation on DIN rail	TS 35 or TS 32			TS 35 or TS 32		
Mounting position	-			horizontal (Kühlkörper nach oben)		



Fixed voltage regulator with thermal overload protection



Dimensions (mm): W x H x D
61 x 96 x 65.5

Fixed voltage regulator FSR 1 A

Description	Type	Part No.	Box Qty	
	FSR-25 VAC-5 V1A	87.230.0453.0	1	
	FSR-25 VAC-12 V1A	87.230.0553.0	1	
	FSR-25 VAC-15 V1A	87.230.0653.0	1	
	FSR-25 VAC-24 V1A	87.230.0753.0	1	
Wiring diagram, dimensions, derating	See page 533			
Input data				
Maximum input voltage	25 V AC	25 V AC	25 V AC	28 V AC
Minimum input voltage at I_L max.	11 V AC	17 V AC	19 V AC	25 V AC
Open circuit power consumption	60 mA	60 mA	60 mA	60 mA
Input fuse (5 x 20 mm)	1.6 mA T	1.6 mA T	1.6 mA T	1.6 mA T
Output data				
Output voltage	5 V DC \pm 5%	12 V DC \pm 5%	15 V DC \pm 5%	24 V DC \pm 5%
Nominal current	1 A	1 A	1 A	1 A
Ripple voltage	30 mV	30 mV	30 mV	30 mV
Status display	LED	LED	LED	LED
General data				
Ambient temperature	0 °C...+45 °C	0 °C...+45 °C	0 °C...+45 °C	0 °C...+45 °C
Storage temperature	-25 °C...+85 °C	-25 °C...+85 °C	-25 °C...+85 °C	-25 °C...+85 °C
Wire range	22 – 12 AWG	22 – 12 AWG	22 – 12 AWG	22 – 12 AWG
Finely stranded	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²
Single core	0.5 – 4 mm ²	0.5 – 4 mm ²	0.5 – 4 mm ²	0.5 – 4 mm ²
Installation on DIN rail	TS 35 or TS 32	TS 35 or TS 32	TS 35 or TS 32	TS 35 or TS 32
Mounting position	horizontal	horizontal	horizontal	horizontal

FSR

**With overload protection
and short circuit protection**



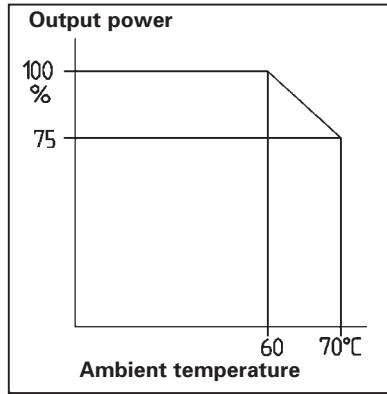
**Fixed voltage regulator
FSR 3 A**

Approvals:

Dimensions (mm): W x H x D
115 x 96 x 81

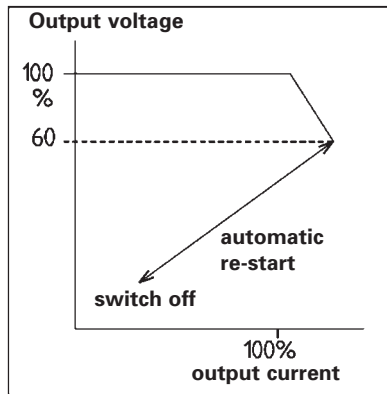
Description	Type	Part No.	Box Qty
	FSR-38 VDC-24 V3A	87.230.1953.0	1
Wiring diagram, dimensions	See page 533		
Input data			
Maximum input voltage	38 V DC		
Minimum input voltage	28 V DC		
Open circuit power consumption	60 mA		
Output data			
Output voltage (with linear control)	24 V DC ± 4%, short circuit proof		
Nominal current	3 A DC		
Typical ripple voltage (load dependent)	50 mV _{SS}		
Fuse (5 x 20 mm)	MT 3,15 A		
Suppression circuit	Diode		
Status display	LED green		
General data			
Ambient temperature	-25 °C...+45 °C		
Storage temperature	-25 °C...+85 °C		
Nominal operating mode	100% ED		
Wire range	22 – 12 AWG		
Finely stranded	0.14 – 2.5 mm ²		
Single core	0.14 – 4 mm ²		
Installation on DIN rail	TS 35 or TS 32		
Mounting position	horizontal (heat sink at the top)		
Weight	approx. 400 g		

Derating: output power



Current limitation characteristic:
Single-phase power supply,
vertical design:
2 A

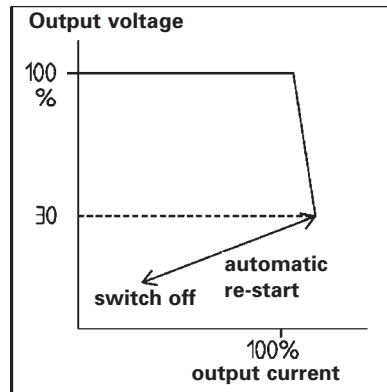
Single-phase power supply,
horizontal design:
5 A



Current limitation characteristic:

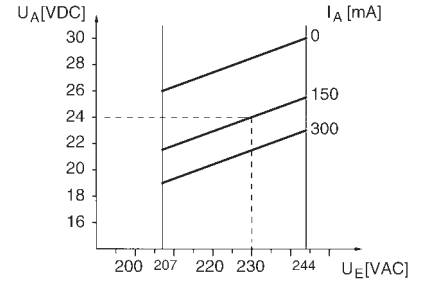
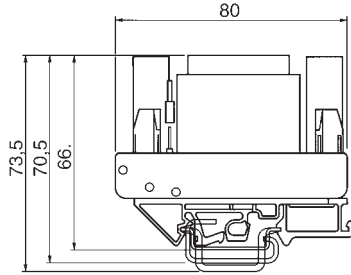
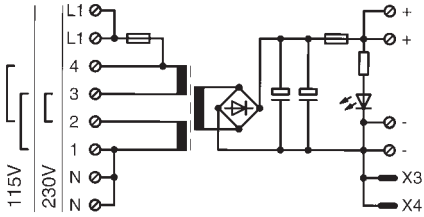
Single-phase power supply,
vertical design:
5 A / 10 A / 20 A

Single-phase/three-phase power supply,
horizontal design: 10 A / 20 A / 40 A

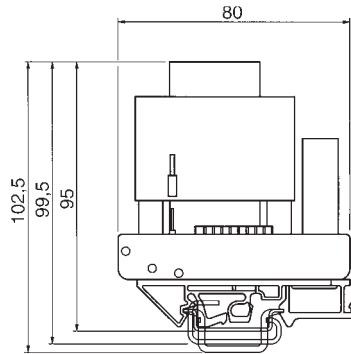
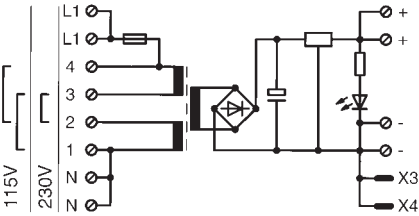


power supply

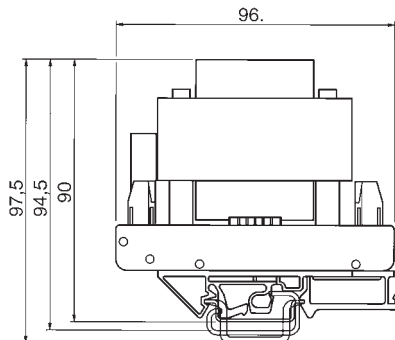
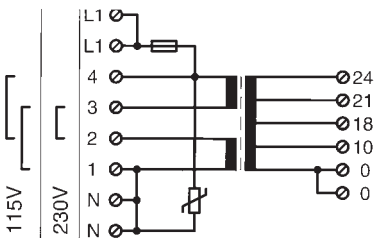
Power supply unit 24 V/0,3 A



Power supply unit 24 V/1 A



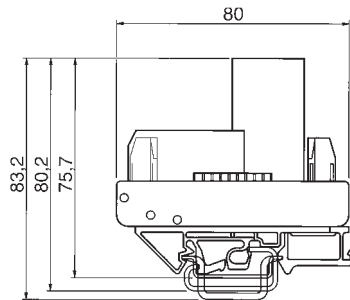
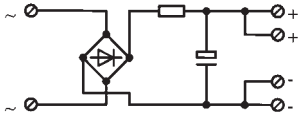
NTU Universal power transformer



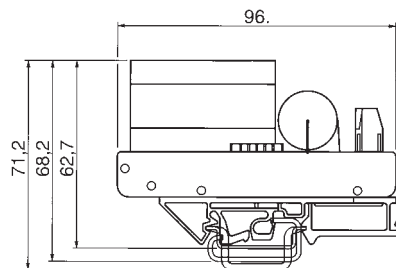
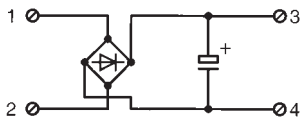


Rectifier modules

BGL 2,5 A



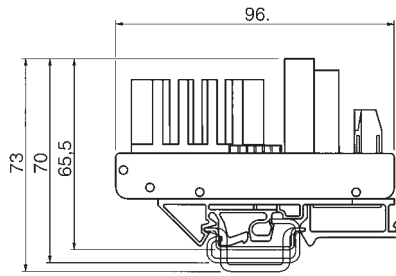
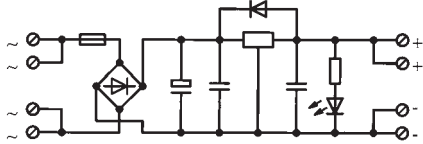
BGL 3 A



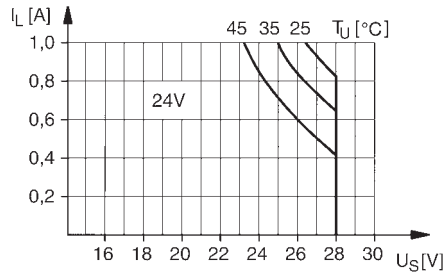
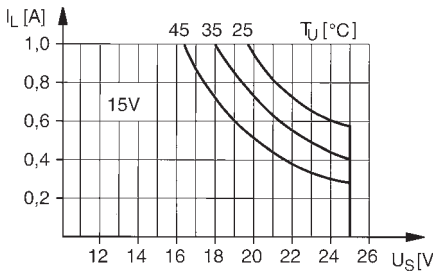
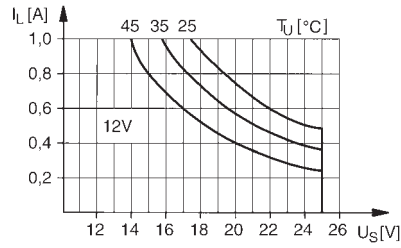
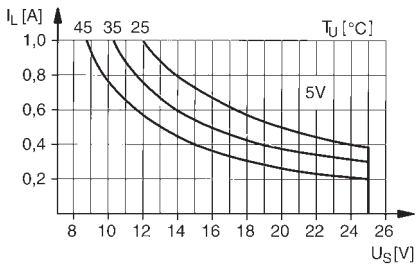


Fixed voltage

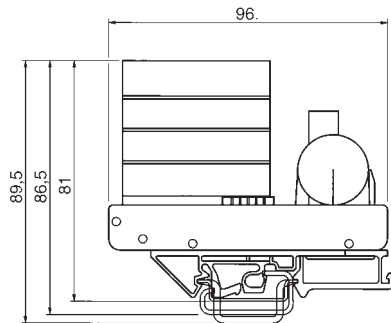
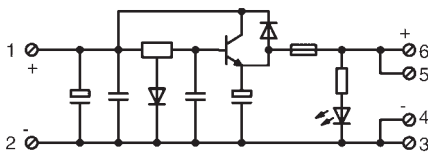
FSR 1 A



Derating curves



FSR 3 A



function

Electronic contactors
Thermistor overload relay
Lamp test module/fuse module
Centralised fault indication
Three phase system monitoring/fuse monitoring
Rotation indicator
Introduction to SSW RS 232 interface convertor
Interface converter

function offers

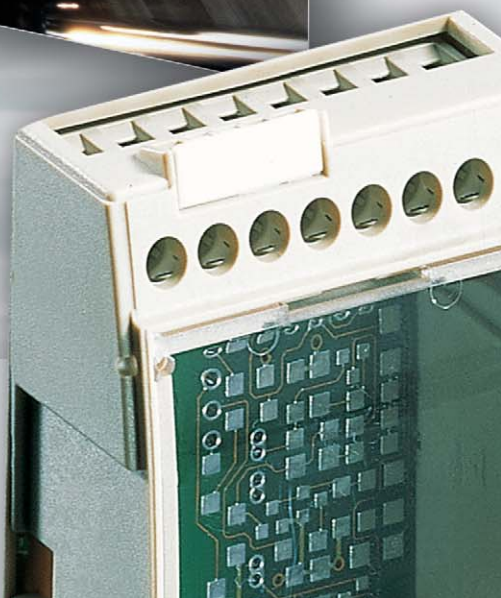
- Electronic load relay
- Machine protection via temperature monitoring
- Detection of wire breakage
- Phase failure
- Various test and monitoring modules
- Compact SSW RS 232 (for V.11 and V.24)

All Wieland Components which require **CE** general certification are **CE** certified, and identified with the **CE** logo.



Electronic components

Wieland Function Modules



Function module

General information

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CEMOS

General information

CEMOS

- Electronic three phase contactor
- Electronic reversing contactor
- DC motor-driven relay

General

As opposed to mechanical contactors, electronic load relays offer the benefit of a practically unlimited service life and a high operating speed for functions. Optocoupler technology enables a non-contacting, bounce-free and wear-resistant switching of phase loads. With a switching frequency up to 10 Hz, a considerable increase in economic efficiency can already be seen compared to conventional, electromechanical components. Electronic relays are primarily used as output elements by programmable controllers. An additional RCV protective circuit of the outputs enables a continuously reliable operation.

Electronic three-phase contactor

The solid-state relays can switch inductive loads such as motors on and off during zero voltage operation.

Electronic reversing contactor and DC motor driven relay

Apart from switching on and off, the reversing contactor allows a change in the direction of travel for three-phase inductive motors. The DC motor-driven relay performs the same function for DC motors.

Further characteristics include a reciprocal closing lockout as well as a fixed minimum changeover time between anti-clockwise and clockwise rotation.

Thermistor overload relay TMS 101

General

The electronic thermistor overload relay monitors the windings of electrical machines in connection with PTC thermistor detectors. During usage, reliable protection against thermal overload is guaranteed. A bimetal overload trip unit is not required.

The areas of application are:

- Monitoring of motor temperature using short circuit current methodology
- Overload start-up (overload)
- Impeded cooling
- Excessive duty rating
- High ambient temperature
- Locked rotors
- Detection of wire breakage
- Phase failure

Function and structure

The thermistor overload relay TMS 101 evaluates up to six series-connected PTC resistors.

Three-phase inductive motors are usually fitted with three sensors. Pole-changing three-phase inductive motors with separate winding require six sensors. The relay is energised in normal operation i.e. the permitted temperature level has not been exceeded. If the temperature rises above the defined value, which occurs in conjunction with an increase in resistance, the relay drops out. The motor is simultaneously disconnected and the fault indicator lights up.

Due to an internal memory circuit, the motor remains switched off until the reset resistance is reached and the 'reset' button (internal or external) is pressed. Only then is it possible to start up the motor again. To detect a wire breakage, the sensor cables operate using a closed circuit current methodology.

Monitoring modules

General

The increasing automation and centralisation of electrical installations requires more feedback information from the process to guarantee an error-free functional sequence.

Three-phase system monitoring

The most simple and effective way to monitor a three-phase network is to measure the under-voltage. The process involves recording each phase so that a voltage drop is immediately detected. A signal is generated if the voltage falls below 85% of the mains voltage (according to VDE 0108).

Three-phase fuse monitoring

Three-phase induction motors are particularly at risk when a phase fails. The three-phase fuse monitoring is specially designed for monitoring supply leads of three-phase induction motors for which system monitoring is not suitable.

Rotation indicator

The rotation indicator monitors the phase sequence L1-L2-L3 which determines the direction of rotation for three-phase induction motors. If the phase sequence of the monitored three-phase network is incorrect, the relay of the rotation indicator remains open.

Lamp test module

The test module is designed for 14 indicator lights. It is used for:

- Checking LED + lamp displays
- Avoiding undetected faults
- Preventing incorrect diagnosis

Fuse module

The module has been designed for 4 miniature fuses for control circuits. The fuse module can be used for 12 to 24 V (with LED failure indicator) or 110 to 220 V (with neon lamps failure indicator).

cemos

Electronic contactors

On/off/reverse switching functions for loads and motors

Zero-sequence voltage switch
Short closing/opening times
High switching frequency



400 V AC / 2A
Electronic three phase contactor
Approvals:



400 V AC / 2,5A
Electronic reversing contactor
Approvals:

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Electronic three phase contactor		80.020.6000.0	1			
Electronic reversing contactor					80.020.6003.0	1
DC motor contactor						
Wiring diagrams, derating curve, limit curve	See pages 544-545			See pages 544-545		
Input						
Operating voltage	24 V AC/DC +10%/-15%			24 V DC +10%/-15%		
Nominal input current AC/DC	ca. 44/21 mA			ca. 23 mA		
Nominal input power	ca. 1 VA/0,5 W			ca. 0.6 W		
Voltage range for "OFF"	0...10 V AC/DC			0...10 V DC		
Interlocking of control inputs				yes		
Reversing time (delay) left/right				ca. 100 ms		
Protection circuit of input	Overvoltage protection			Overvoltage protection, polarity reverse protection		
Status display	Green LED			Green LED		
Output						
Nominal switching voltage	400 V AC			400 V AC		
Maximum switching voltage	500 V AC			500 V AC		
Minimum switching voltage	100 V AC			100 V AC		
Peak reverse voltage	1200 Vs			1200 Vs		
Critical rate of rise voltage	500 V/μs			500 V/μs		
Critical on-state voltage	1.1 V			1.1 V		
Maximum current	2 A			2.5 A		
Minimum current	150 mA			150 mA		
Maximum peak current (10 ms)	230 A			230 A		
Typical residual current	6 mA			6 mA		
Power factor cos φ	≥ 0.5			≥ 0.5		
Zero-sequence voltage switch	yes			yes		
I ² t value	265 A ² s			265 A ² s		
Semiconductor fuse	FF			FF		
Maximum motor power	0.75 W			1.1 kW		
Protection circuit of output	RCV-circuit			RCV-circuit		
Maximum pickup delay	10 ms			10 ms		
Maximum dropout delay	10 ms			10 ms		
Maximum switching frequency, resistive	10 Hz			10 Hz		
Maximum switching frequency, inductive	5 Hz			2 kHz		
Isolation voltage between input/output	4 kV _{eff}			4 kV _{eff}		
Ambient temperature	0 °C...+50 °C			0 °C...+50 °C		
Storage temperature	-25 °C...+55 °C			-25 °C...+55 °C		
Type of protection/mounting rail	IP 20 / TS 35			IP 20 / TS 35		
Wire range	20 – 12 AWG			22 – 12 AWG		
finely stranded	0.5 mm ² – 2.5 mm ²			0.5 mm ² – 2.5 mm ²		
single core	0.5 mm ² – 4 mm ²			0.5 mm ² – 4 mm ²		
Location of mounting rail	horizontal			horizontal		
Norms/specifications	VDE 0160			VDE 0160		
Emitted interference	EN 61000			EN 61000		
Interference immunity	EN 61000			EN 61000		

Function module DC motor contactor

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cemos

Short closing/opening times
Wear resistant equipment
Electrical isolation



24V DC / 3A DC motor reversing contactor

Approvals:

Dimensions (mm): W x H x D
60.8 x 80 x 63

Description	Type	Part no.	Std. pack
Electronic three phase contactor			
Electronic reversing contactor			
DC motor contactor		99.801.3900.9	1
Wiring diagrams, derating curve, limit curve		See pages 544-545	
Input			
Operating voltage	24 V DC		
Voltage range for "ON"	15...28 V DC		
Voltage range for "OFF"	0...5 V DC		
Nominal current for "ON"	ca. 10 mA		
Closed circuit current consumption	ca. 25 mA		
Pick up delay	ca. 1 ms		
Protection circuit of input	Polarised diode		
Status display: Start/Stop –H1 and direction –H3	Green LED		
Output			
Nominal switching voltage	24 V DC		
Maximum switching voltage	28 V DC		
Minimum switching voltage	20 V DC		
Maximum switching current	3A DC (Derating)		
Minimum switching current	10 mA		
Motor voltage UA1	Terminal 6		
Motor voltage UA2	Terminal 5		
Motor peak current	6 A (200 ms)		
Typical R _{DS ON}	0,6 Ω		
Fault indicator: excess temperature and overcurrent –H2	Red LED		
Maximum pickup delay	5 ms		
Maximum dropout delay	5 ms		
Isolation voltage between input/output	4 kV _{eff}		
Ambient temperature	–25 °C...+50 °C		
Storage temperature	–25 °C...+55 °C		
Mounting rail	TS 35 and TS 32		
Wire range, finely stranded/single core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG		
Wire range (load), finely stranded/single core	0.5 mm ² – 4 mm ² / 0.5 mm ² – 6 mm ² / 22 – 10 AWG		
Location of mounting rail	horizontal		
Norms/specifications	VDE 0160		
Emitted interference	EN 61000-6-3		
Interference immunity	EN 61000-2		

Important note:

In the case of motors that are controlled by solid-state relays, an additional mechanical contact must be connected in series for safety separation.

This mechanical contact can influence several motors. The protection of the solid state component must be guaranteed by a rapid reacting fuse.

Thermistor overload relay

TMS

- with detection of wire breakage
- for onerous start up
- for high duty rating
- for high ambient temperature
- for locked rotors
- for phase failure

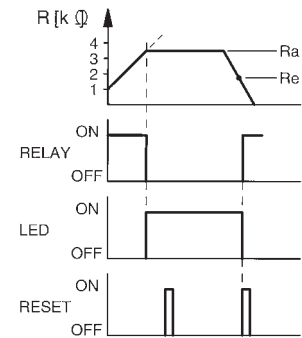


Thermistor overload relay with reset

Dimensions (mm): w x H x D
48 x 96 x 60

Description	Type	Part no.	Std. pack
	TMS-101-250V5A	87.110.6253.0	1
Wiring diagram, dimensions	See pages 546		
Input data			
Nominal voltage	230 V AC +6% / -10%, 50-60 Hz		
Power consumption	ca. 2 VA		
Disconnection resistance RA	$3\text{ k}\Omega \leq R_A \leq 4\text{ k}\Omega$		
Reset resistance RE	$1.75\text{ k}\Omega \pm 10\%$		
Maximum number of detectors	6 pieces		
External reset button	1 make contact		
Status display	Red LED		
Output data			
Maximum switching voltage	250 V AC/DC		
Maximum switching current	5 A AC/DC		
Maximum total current (2 simultaneous contacts)	7.5 A AC/DC		
Switching capacity (resistive load)			
at 24 V DC, maximum	120 W		
at 250 V AC, maximum	1250 VA		
Contact arrangements	2 Changeover contacts (SPDT)		
General data			
Ambient temperature	0 °C...+40 °C		
Storage temperature	-25 °C...+55 °C		
Transport temperature	-25 °C...+70 °C		
Wire range	22 - 12 AWG		
finely stranded	0.14 - 2.5 mm ²		
single core	0.14 - 4 mm ²		
Installation on mounting rail	TS 35 or TS 32		

Connection example + function of TMS 101



Important note for user:

The relay outputs must be supplied by the same phase (e.g. L1)

Function modules

Lamp test module/fuse module

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LPB/SBS

Lamp test module

Checking LED displays
Avoiding undetected faults
Preventing incorrect diagnosis

Fuse module

4 miniature fuses for control circuits
with operation indicator
For restricted spaces



Lamp test module

Approvals:
48 x 96 x 92



Fuse module

Approvals:
48 x 96 x 92

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	LPB-14L-250V1A	87.040.3053.0	1	SBS-4SI-24V6,3A	87.010.7653.0	2
				SBS-4SI-230V6,3A	87.010.7453.0	2
Wiring diagram, dimensions	See pages 547			See pages 547		
Technical data						
Maximum nominal voltage	250 V			250 V		
Diode type	1N4007					
Maximum diode current	1 A					
Diode reverse voltage	1000 V					
Typical voltage in forward direction per diode	0.7 V					
Lamp test at terminal	P					
Lamp connection at terminal	L					
Switching operation at terminal	B					
Number of test lamps (can be bridge via P-P)	2 x 7					
Nominal voltage				87.010.7653.0	87.010.7453.0	
Maximum nominal current per fuse				12–24 V AC/DC	115–230 V AC/DC +6%/-10%	
Maximum total current over 4 fuses				6.3 A	6.3 A	
Maximum fuse capacity				18 A	18 A	
Maximum fuse capacity over 4 fuses				1.6 W*	1.6 W*	
Maximum current for disrupted fuse				4.8 W	4.8 W	
Number of fuse holders				15 mA	0.5 A	
Dimensions of fuse holders				4	4	
Touching voltage of fuse holders				5 x 20 mm	5 x 20 mm	
Status display				IEC 257, DIN 0820	IEC 257, DIN 0820	
				LED 24V (red)	Neon lamp 110 V	
				*Note derating!		
				Fuses not included		
General data						
Ambient temperature	-25 °C...+50 °C			-25 °C...+50 °C		
Storage temperature	-40 °C...+55 °C			-40 °C...+55 °C		
Wire range	22 – 12 AWG			22 – 12 AWG		
finely stranded	0.14 – 2.5 mm ²			0.14 – 2.5 mm ²		
single core	0.14 – 4 mm ²			0.14 – 4 mm ²		
Installation on mounting rail	TS 35 or TS 32			TS 35 or TS 32		

Centralised fault indication

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

SSM

For monitoring control systems
Possible to locate and eliminate faults rapidly



Centralised fault indication relay

Approvals:
48 x 96 x 60



Expansion module for centralised fault indication relay

Approvals:
27 x 96 x 60

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	SSM-7E230V-250V5A	87.030.1053.0	1	SSM-7E230V	87.010.2053.0	1
Wiring diagrams, dimensions	See pages 548			See pages 548		
Input data						
Nominal voltage	230 V AC +6%/-10%, 50-60 Hz					
Input current	approx. 1 mA			approx. 1 mA		
Power consumption	approx. 1 VA					
Fault inputs	terminals, 230 V AC +6%/- 10%			terminals (Kl. 1...7), 230 V AC +6%/-10%		
Series-connected inputs	terminals			terminals		
Output data						
Maximum switching voltage	250 V AC/DC					
Maximum switching current	5 A AC/DC					
Switching capacity (resistive load)						
at 24V DC, maximum	120 W					
at 230V AC, maximum	1250 VA					
Contact arrangement	1 Changeover (SPDT)					
General data						
Ambient temperature	-25 °C...+50 °C			-25 °C...+50 °C		
Storage temperature	-40 °C...+85 °C			-40 °C...+85 °C		
Wire range	22 - 12 AWG			22 - 12 AWG		
finely stranded	0.14 - 2.5 mm ²			0.14 - 2.5 mm ²		
single core	0.14 - 4 mm ²			0.14 - 4 mm ²		
Installation on mounting rail	TS 35 or TS 32			TS 35 or TS 32		
Note				Expansion module for 87.030.1053.0:		
Terminals N and B ₂ must be bridge prior to commissioning				Up to 91 further fault inputs can be connected to the basic module		
Impulses <100ms are not detected						

Function modules Monitoring modules

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DNU/DSU

Three-phase system monitoring

For voltage monitoring of three-phase systems with neutral conductors. The module will operate at 85% of the mains voltage.

Three-phase fuse monitoring

Specifically for monitoring the supply leads of three-phase inductive motors (400 V/250 V~, 50 – 60 Hz)



Three-phase system monitoring

Approvals:
48 x 96 x 60



Three-phase fuse monitoring

Approvals:
48 x 96 x 60

Dimensions (mm): W x H x D

Description	Type	Part no.	Std. pack	Type	Part no.	Std. pack
with mounting foot for T S35 (for distribution board)	DNU-H-400V-250V4A	86.030.6353.0	1	DSU-400V-250V4A	87.030.6453.0	1
with mounting foot TS 35 + TS 32	DNU-U-400V-250V4A	87.030.6353.0	1			
Wiring diagram, dimensions	See pages 549			See pages 550		
Input data						
Nominal voltage	230/400 V AC +6%/–10%, 50–60 Hz			230 V AC +6%/–10%, 50–60 Hz		
Power consumption	ca. 4 VA			ca. 4 VA		
System monitoring	–			3 x 400 V AC		
Operating value	0.85 x U _N			–		
Pickup delay	approx. 500 ms			ca. 6 s		
Dropout delay	ca. 500 ms			ca. 250 ms		
Switching hysteresis	ca. 5%			–		
Detection of mains failure	–			> 900 ms		
Backup fuse	ca. 0.5A			–		
Status display	LED			LED		
Output data						
Maximum switching voltage	250 V AC/DC			250 V AC		
Maximum switching current	4 A AC/DC			4 A		
Switching capacity (resistive load)						
at 24 V DC, maximum	100 W			100 W		
at 230 V AC, maximum	1100 VA			1000 VA		
Contact arrangements	2 Changeover contacts (SPDT)			1 Changeover contact (SPDT)		
General data						
Ambient temperature	–10 °C...+50 °C			–10 °C...+50 °C		
Storage temperature	–40 °C...+85 °C			–40 °C...+85 °C		
Wire range	22 – 12 AWG			22 – 12 AWG		
finely stranded	0.5 – 2.5 mm ²			0.14 – 2.5 mm ²		
single core	0.5 – 4 mm ²			0.14 – 4 mm ²		
Installation on mounting rail	0.5 A			–		
Installation on mounting rail	86.030.6353.0	87.030.6353.0		TS 35 or TS 32		

Rotation indicator

DRA

For monitoring the phase sequence of three-phase inductive motors



Rotation indicator 3 x 400V / 50Hz

Approvals:

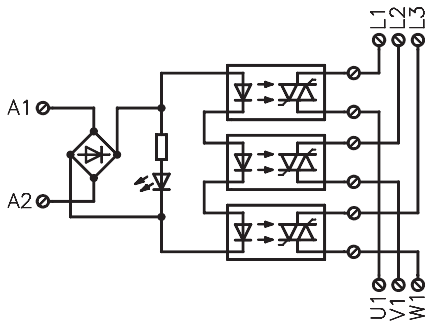
Dimensions (mm): W x H x D
48 x 96 x 63

Description	Type	Part no.	Std. pack
	DRA-400V-250V3A	81.010.1000.0	1
Wiring diagram	See pages 551		
Input data			
Nominal voltage	approx 3 x 400 V AC +6%/-10%, 50 Hz		
Power consumption	ca. 2.5 VA		
Dropout voltage	≤ 3 x 100 V AC / 50 Hz		
Pickup delay	< 25 ms		
Dropout delay	< 30 ms		
Switching logic of the relay			
Clockwise	Relay picked up		
Anticlockwise	Relay dropped out		
Output data			
Maximum switching voltage	250 V AC		
Maximum switching current	3 A AC / DC		
Switching capacity (resistive load)			
at 24 V DC, maximum	70 W		
at 250 V AC, maximum	750 VA		
Contact arrangement	2 Changeover contacts (SPDT)		
General data			
Pickup delay	< 25 ms		
Dropout delay	< 30 ms		
Contact material	AgNi		
Endurance			
Mechanical	2 x 10 ⁷ switching operations		
Electrical	1 x 10 ⁵ switching operations at full load		
Test voltage of input/output	2 kV _{eff}		
Ambient temperature	0 °C...+40 °C		
Storage temperature	-40 °C...+85 °C		
Wire range	22 - 12 AWG		
finely stranded	0.5 - 2.5 mm ²		
single core	0.5 - 4 mm ²		
Installation on mounting rail	TS 35 or TS 32		

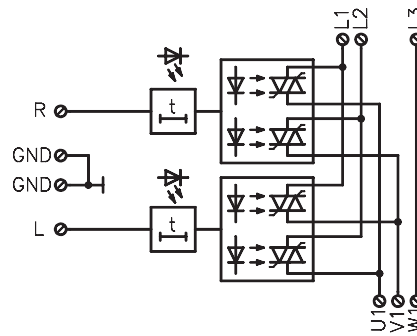
Electronic contactors

Wiring diagrams and Derating curves

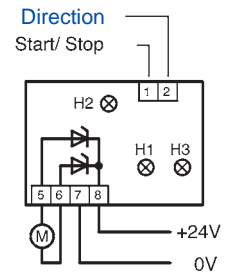
Electronic three phase contactor



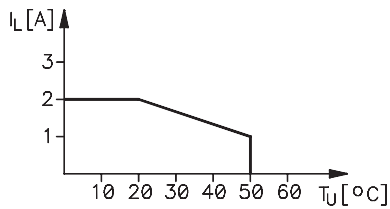
Electronic reversing contactor



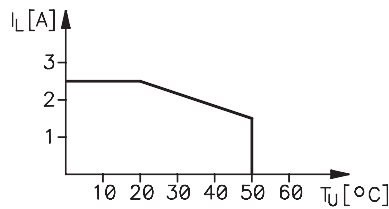
DC motor-reversing contactor



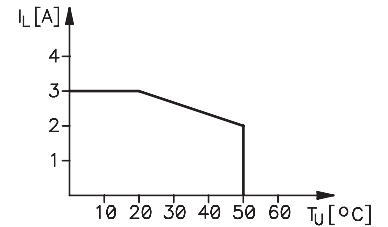
Derating of three phase contactor



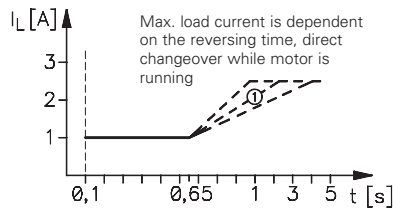
Reversing contactor in static mode



Derating curve:

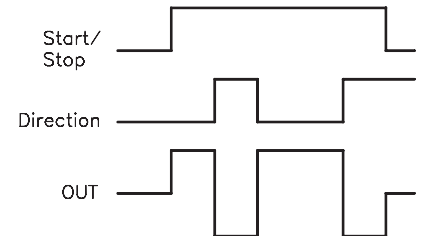


Reversing contactor in dynamic mode



① Curve dependent on motor torque

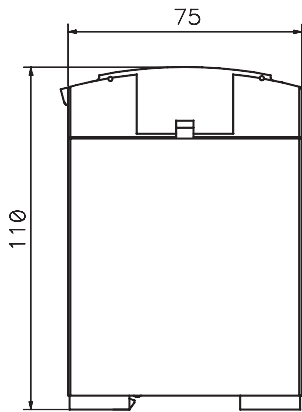
Timing diagram for DC motor-reversing contactor



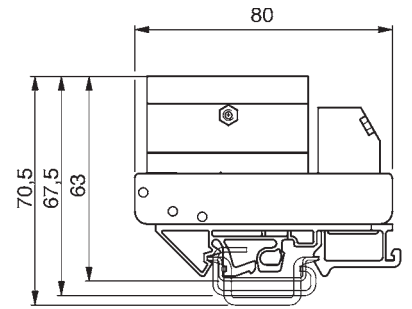
Electronic contactors

Dimensions

Electronic three phase contactor
and Electronic reversing contactor



DC motor-reversing contactor

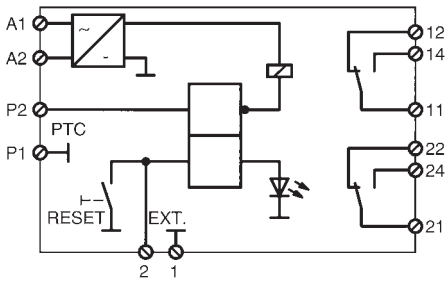


Function modules

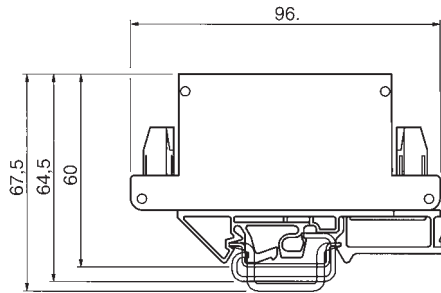
TMS

Thermistor overload relay TMS 101

Wiring diagram



Dimensions

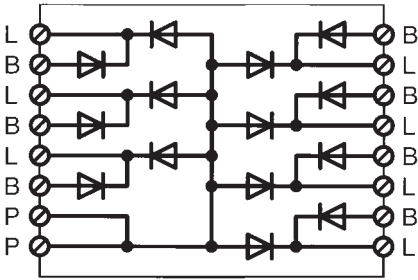


LPB/SBS

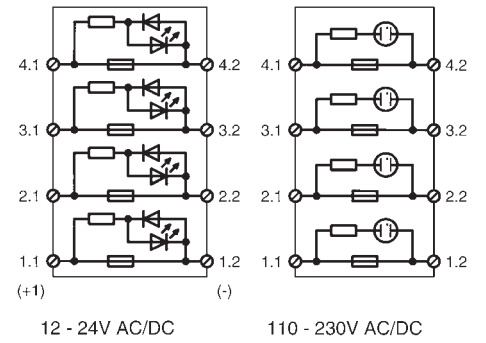
Lamp test module + Fuse module

Wiring diagram

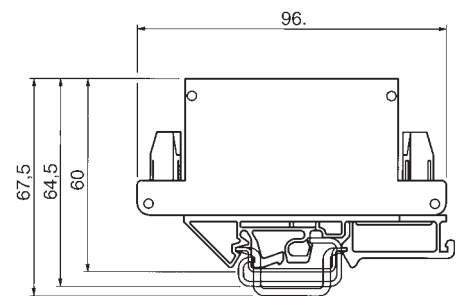
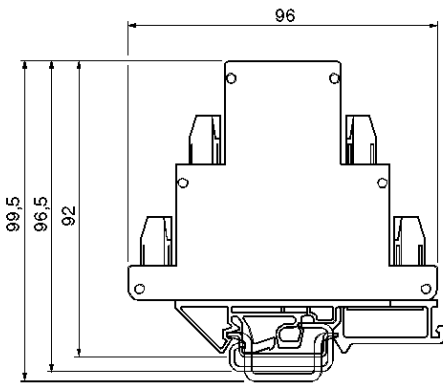
Lamp test module



Fuse module



Dimensions



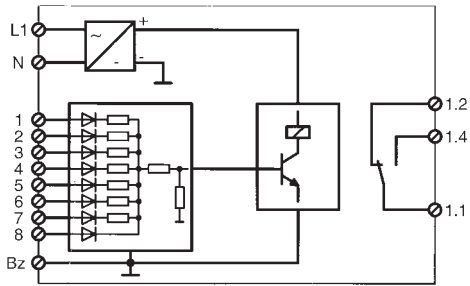
Function modules



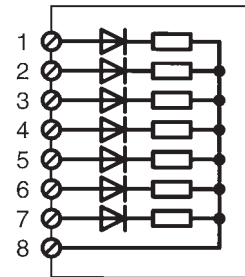
Centralized fault indication and expansion module

Wiring diagram

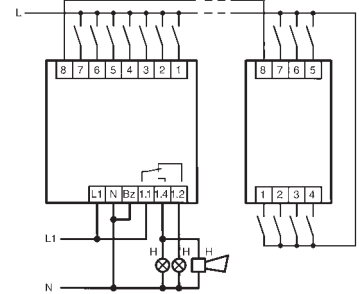
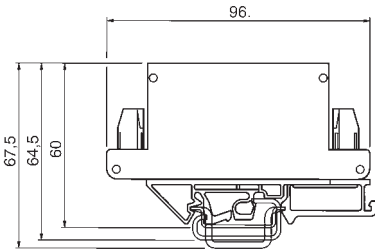
Centralized fault indication



Expansion module to basic module



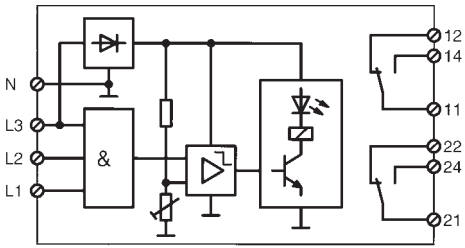
Dimensions



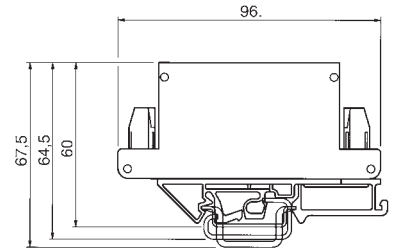


Three-phase system monitoring

Wiring diagram

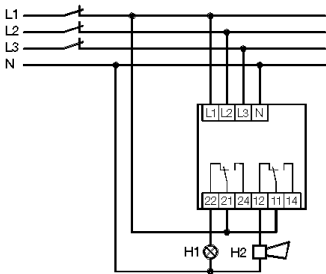


Dimensions



With TS35 mounting foot, the depth is 49,5 mm (including rail)

Connection example: Centralized fault indication with expansion module

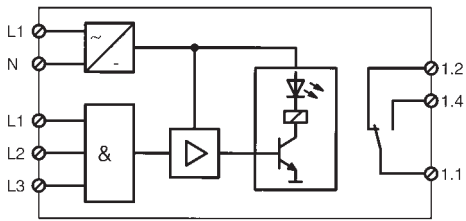


Function modules

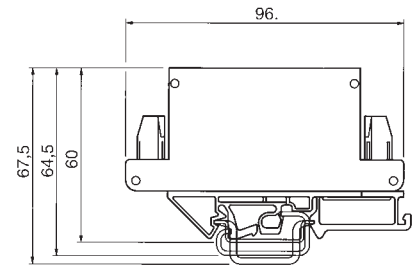
DSU

Three-phase fuse monitoring

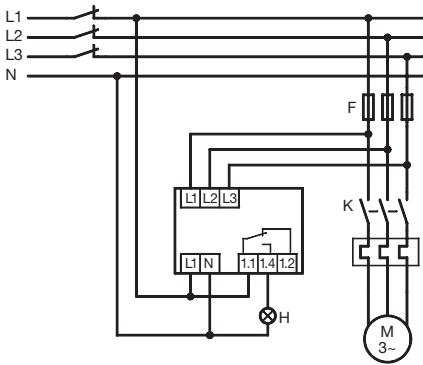
Wiring diagram



Dimensions



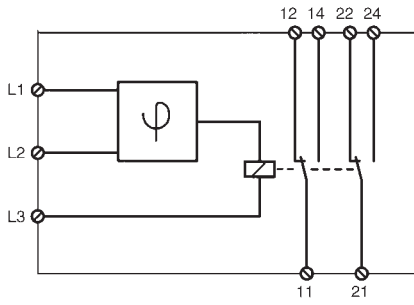
Connection example



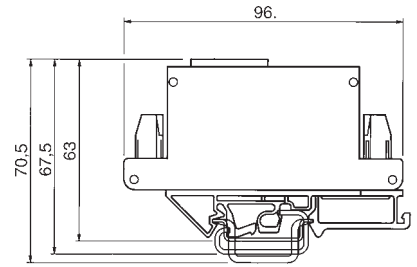


Rotation indicator

Wiring diagram



Dimensions



Function modules Interface converter

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SSW

Principles of serial interfaces

The increasing use of a variety of automation techniques in all areas of industry requires the processing of an increasing amount of information. The most important transmission media is serial data cables which are used to control complex processes and record process data. Further transmission media are optical fibres and infrared transmission.

A wide variety of serial interfaces are used which are not compatible with each other and frequently do not fulfil the increasing demands as regards to interference immunity, range and speed.

The Wieland SSW product range has tackled this problem and guarantees a noise-free and high-capacity data transmission in hostile industrial conditions.

RS 232 (V.24) interface

One of the most widely used serial interfaces is defined in the American norm EIA-232 and in the international standard CCITT V.24.

The data interface realises data exchange between two data processing devices (point-to-point connection) up to a maximum of 15 m in full duplex mode.

In the simplest configuration, three conductors TxD (sending data), RxD (receiving data) and GND (common signal ground) are required for this connection. The data transmission is controlled by the so-called XON/XOFF protocol (software handshake). If the transmission co-ordination should be controlled via hardware handshake, further control, signal and timing cables are available.

TTY current loop interface

The TTY current loop interface is a very well-known remote transmission interface which has its origins in telegraphy. They can be found nowadays in programmable controllers (PLC), visual display units and printers. A pair of conductors are required for both the sending and receiving of data.

The data transmission is carried out via software handshake in full duplex mode.

A loop current of 20 mA represents the state of logical "1". If the circuit is interrupted, this is evaluated as logical "0". A current-driven source is required in each loop which must either be coupled on the sending or receiving side.

RS-422(V.11) interface

Data communication with intelligent machines requires particularly rapid and high-capacity communication interfaces.

The RS 422 standard fulfils these requirements. It carries out the serial transmission of data in full duplex mode between two devices at a transmission rate up to 10 Mbit/s and a maximum distance of 1000 m.

The interface is operated at minimum with a "Sending" data channel (TxD) and a "Receiving" data channel (RXD). The sending and receiving co-ordination is implemented via software handshake.

The high rate of transmission reliability is achieved by the evaluation of the differential voltage between a twisted core pair. Interference voltages towards the zero potential are not evaluated. The electrical levels of the data cables are defined as

- 0,3 V to -6 V for logical "1" and
- +0,3 V to +6 V for logical "0".

RS-485(2 wire) interface

This serial interface type offers the possibility of multipoint connections of up to 32 devices as well as performance.

The electrical levels and their logical assignment are identical to the RS 422 standard

Limited by the 2-wire technology, the data transmission can however only take place according to half duplex mode i.e. the sending and receiving of data takes place alternately and must be controlled via an appropriate software program. In contrast to pure point-to-point communication, it must be possible to address and identify all the devices of a multipoint connection via an address using a corresponding software protocol. Only one device may send at the same time. All the other devices are meanwhile in listening mode.

The 2-wire bus cable can be up to 500 m long and must be terminated at both ends with an EOL resistor (100-200 ohm). The individual devices can be sent via spur lines up to 5 m from the bus cable.

The maximum transmission rate is 10 Mbit/s when using data cable that is twisted and shielded in pairs.

SSW-V.24 // TTY

The V.24 // interface converters are used to convert an RS 232 interface into a 20 mA current loop interface TTY or vice versa (e.g. between a PC and a PLC).

Due to the low capacity of RS 232 interfaces (15 m), the converters are installed as closely as possible to these interfaces. It is possible to bridge up to 1000 m via a cable that is twisted and shielded in pairs with the insulated and noise-free TTY signal.

SSW-V.24 // RS 422

The V.24 // RS-422-interface converters are used to convert an RS 232 interface into an RS 422 interface or vice versa. With the high-capacity and noise-free RS 422 interface, it is possible to bridge distances up to 1000 m using a cable that is twisted and shielded in pairs.

SSW-V.24 // RS 485

The RS-485-standard is used when more than two devices should communicate with each other. By converting the point-to-point RS 232 interface into the RS 485 standard with bus capability, up to 32 devices can be interconnected via a 2-wire cable.

The V.24 // RS-485-interface converters are used to convert an RS 232 interface into an RS 485 2-wire bus interface with multipoint capability or vice versa.

The interface converters operate independently of the protocol and code i.e. all the bus devices must support the same transmission protocol and the same speed.



Subject to change without further notice

SSW

Suitable for use in switchgear cabinets and directly on the PC



**Interface converter
RS 232 SSW-V.24//TTY**



**Interface converter
RS 232 SSW-V.24//RS 422**

Dimensions (mm): W x H x D
20 x 76 x 68

	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	SSW-V.24//TTY	57.007.0053.0	1	SSW-V.24//RS422	57.007.0153.0	1
Wiring diagram, dimensions	See pages 555			See pages 555		
Technical data						
Supply voltage – potential assigned to the input side	5 V DC ±5% (Pin 18)			5 V DC ±5% (Pin 18)		
Maximum power consumption	130 mA			130 mA		
Input signal	V 24-level (RS 232)			V 24 level (RS 232)		
Output signal	TTY level (20-mA current loop)			RS422 level		
Maximum transmission rate	20 k Baud			20 k Baud		
Maximum transmission length	1000 m (maximum 500 Ω)			1000 m (maximum 500 Ω)		
Isolation voltage	500 V DC			500 V DC		
Ambient temperature	0 °C...50 °C			0 °C...50 °C		
Storage temperature	–25 °C...+85 °C			–25 °C...+85 °C		
Connection of input signal (plug)	25 pole D-SUB plug			25 pole D-SUB plug		
Connection of output signal (socket)	25 pole D-SUB socket			25 pole D-SUB socket		
Operating possibility				Fully active, semi active, passive		
Direction of control						
RS 232 Send	V.24 → RS485					
RS 232 Receive	V.24 ← RS485					
Installation on mounting rail	TS 35			TS 35		



Function modules Interface converter SSW

Suitable for use in switchgear cabinets and directly on the PC



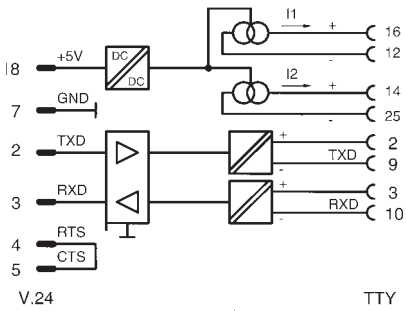
Interface converter RS 232 SSW-V.24//RS 485

Dimensions (mm): W x H x D
20 x 76 x 68

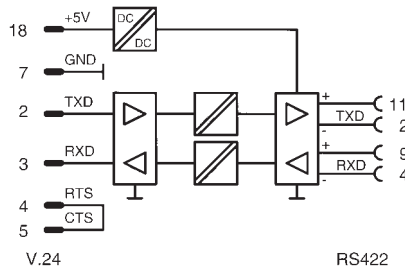
	Type	Part no.	Std. pack
	SSW-V.24//RS485	57.007.0253.0	1
Wiring diagram, dimensions	See pages 555		
Technical data			
Supply voltage - potential assigned to the input side	5 V DC $\pm 5\%$ (Pin 18)		
Maximum power consumption	130 mA		
Input signal	V 24 level (RS 232)		
Output signal	RS485 level		
Maximum transmission rate	20 k Baud		
Maximum transmission length	1000 m (maximal 500 Ω)		
Isolation voltage	500 V DC		
Ambient temperature	0 °C...50 °C		
Storage temperature	-25 °C...+85 °C		
Connection of input signal (plug)	25 pole D-SUB plug		
Connection of output signal (socket)	25 pole D-SUB socket		
Operating possibility	Fully active, semi active, passive		
Direction of control			
Send PIN 20	-3 V...-12 V		
Receive PIN 20	+3 V...+12 V		
Installation on mounting rail	TS 35		

SSW

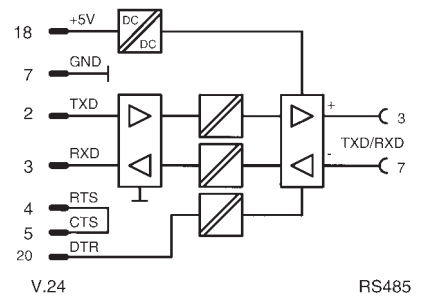
SSW-V.24//TTY



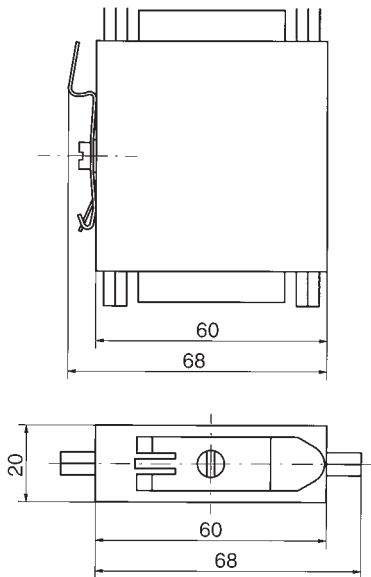
SSW-V.24//RS422



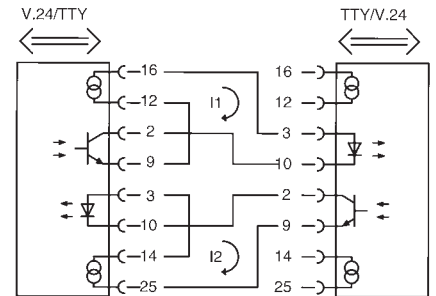
SSW-V.24//RS485



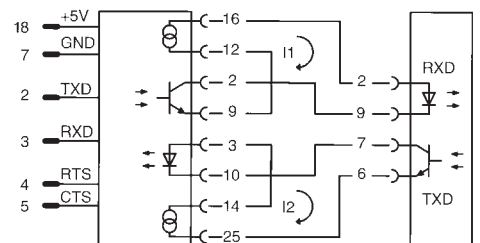
Dimensions



Connection examples



PC ↔ SSW-V.24//TTY ↔ S5-AG



electronics

interface

D-Sub to screw terminal

IDC header to screw terminal

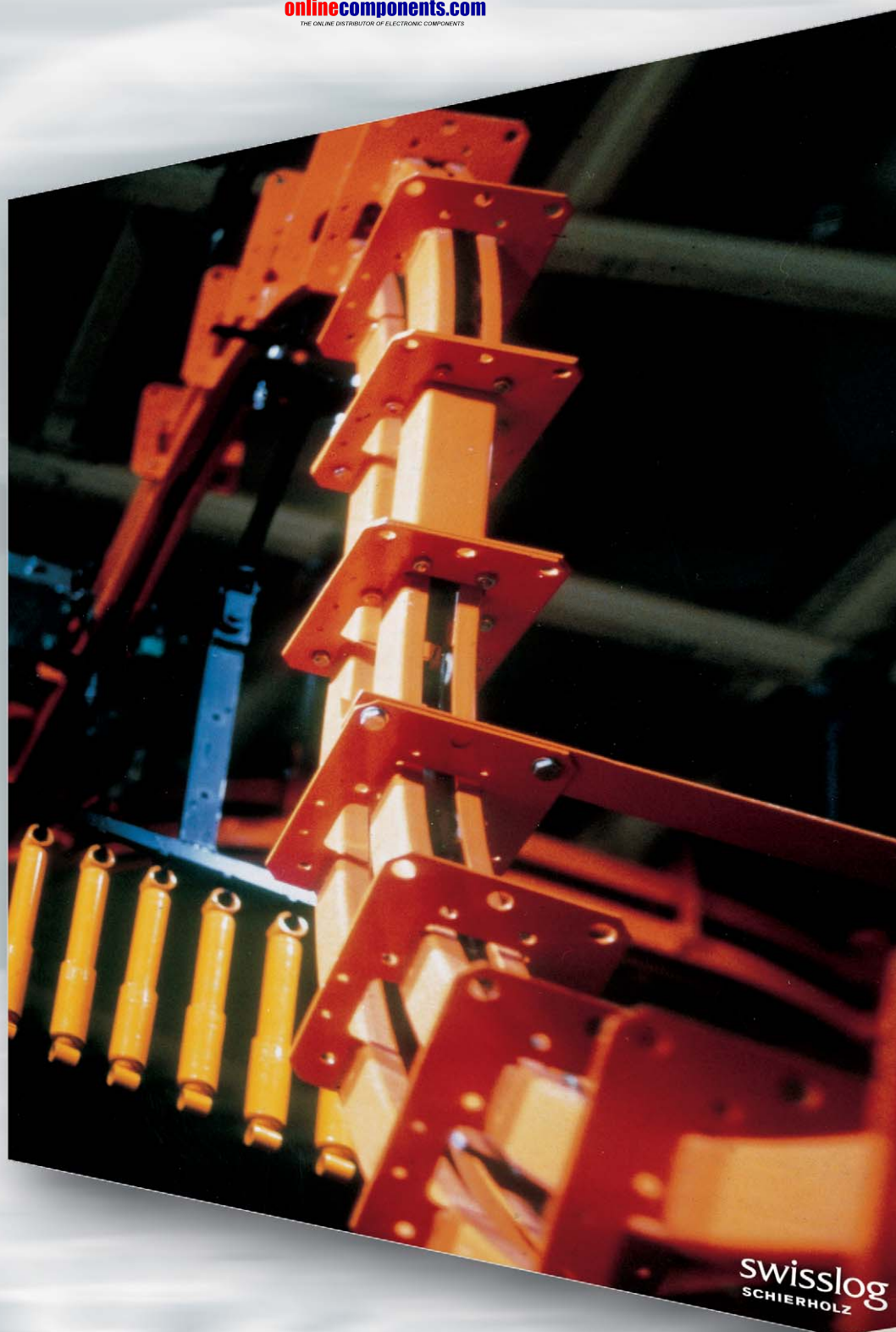
Interface modules and I/O plug systems for Siemens S5

interface offers

- Rapid wiring
- Rapid commissioning
- Clear cabling
- Reduction of wiring errors
- High packing density
- Time and cost savings

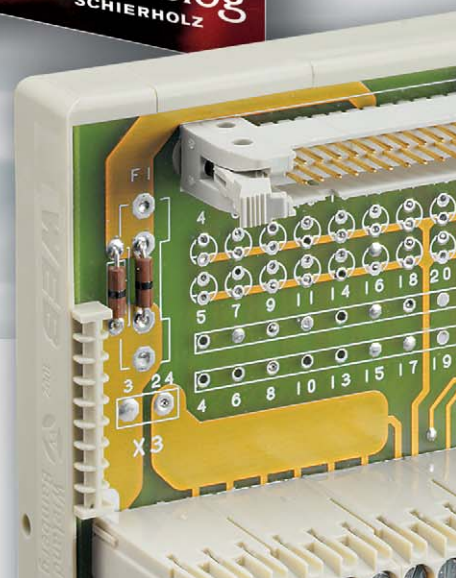
CE In general all Wieland components which are obliged to have the

CE identification are provided with the CE mark



Electronic components

Interface systems



passive interfaces

Interface modules

Interface modules make the connection between electronic and electrical components within the control panel.

The control signals from prefabricated plug connections are converted into terminal connections.

The use of Wieland interface modules provides the following benefits for system wiring:

- Simple process which saves time during design and costing
- Rapid wiring, commissioning and fault elimination due to clear cabling and pole designations
- Reduction of wiring errors
- Compact due to high packing density

The interface modules are fitted as standard with a mounting foot for DIN / EN mounting rails TS 35 or TS 32.

Available interface modules:

Subminiature D-SUB connector in accordance with DIN 41652

Subminiature connectors are increasingly used in telecommunications engineering, text and data processing as well as in measuring and control engineering.

The typical trapezoidal metal protective shrouds (galvanised and yellow passivated steel) that are used for this range of connectors guarantee that poles are connected correctly.

The metal shroud is fed onto a terminal to ensure a reliable looping through of the earth.

IDC header in accordance with DIN 41651

The flat ribbon connectors are used more frequently at the interface between the electronics and conventional electrical components.

The use of locking brackets in various lengths stops the socket connector from being separated from the plug connector due to vibration.

Central polarisation prevents any incorrect connections.

Interface modules for S5

These interface modules have been specially designed for the Siemens range of programmable controllers SIMATIC™ S5-115U to 155U. The interface modules take the place of the current I/O connection technology (screw or crimp connection) by implementing the transition from the I/O card to a multipole ribbon connector in accordance with DIN 41651.

Special interface modules are used to connect the sensors and actuators directly to the I/O plug system. An optimum adaptation to the respective PLC module is thereby achieved.

Universal modules for a variety of applications complete this system range.

Overview of interface modules for SIMATIC®

S5-115U

- Digital input/output module for 32 channels
- Input/output plug system, 46 pole front plug
- Universal module for digital and analogue modules with 46 pole front plug connection

S5-135U to 155U

- Digital input/output module for 32 channels
- Input/output plug system, 42 pole front plug
- Universal module for digital and analogue modules with 42 pole front plug connection
- Relay output modules with master and expansion modules
- Initiator module for three-conductor initiators

Flat round cable with/without shielding, 50 pole, prefabricated in various lengths for connecting the front plug to the interface modules.

Further customer-specific interface modules are available on request.

Interface System

D-Sub to screw terminal

passive interfaces



D-SUB connector to screw terminal

Approvals:  in preparation
Overall width x 80 x 61

Number of poles	Overall width (mm)	Type	Part No..	Box Qty	
D-Sub-female					
9	38,7	female D-Sub9	87200.2200.3	1	
15	48,2	female D-Sub15	87200.2201.3	1	
25	74,0	female D-Sub25	87200.2202.3	1	
37	106,0	female D-Sub37	87200.2203.3	1	
50*	141,0	female D-Sub50	87200.2204.3	1	
D-Sub-male					
9	38,7	male D-Sub9	87200.2205.3	1	
15	48,2	male D-Sub15	87200.2206.3	1	
25	74,0	male D-Sub25	87200.2207.3	1	
37	106,0	male D-Sub37	87200.2208.3	1	
50*	141,0	male D-Sub50	87200.2209.3	1	
* contacts arranged in 3 groups					
Wiring diagrams, dimensions		See page 570			
Technical data					
Maximum nominal voltage		60 V AC / 75 V DC			
Maximum nominal current		1,5 A			
Wire range		22 – 12 AWG			
finely stranded		0,5 – 2,5 mm ²			
single core		0,5 – 4 mm ²			
Ambient temperature		0...+50 °C			
Installation of mounting rail		TS 35 or TS 32			
Norms/specifications		VDE 0110b Gr. 2			
Terminal strip X2		Type 8191E (x poles)			

passive interfaces



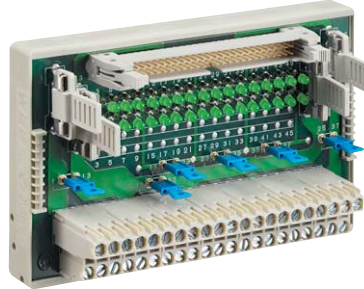
IDC connector to screw terminal

Approvals:  in preparation
 Overall width x 80 x 61

Number of poles	Overall width (mm)	Type	Part No.	Box Qty
10	48,2	FLK-SR10	87.210.2201.3	1
14	48,2	FLK-SR14	87.210.2202.3	1
16	61,1	FLK-SR16	87.210.2203.3	1
20	61,1	FLK-SR20	87.210.2204.3	1
26	70,8	FLK-SR26	87.210.2205.3	1
34	93,1	FLK-SR34	87.210.2207.3	1
40	109,0	FLK-SR40	87.210.2208.3	1
50	131,7	FLK-SR50	87.210.2210.3	1
60	160,5	FLK-SR60	87.210.2211.3	1
64	173,8	FLK-SR64	87.210.2212.3	1
Wiring diagrams, dimensions		See page 570		
Technical data				
Maximum nominal voltage	60 V AC / 75 V DC			
Maximum nominal current	1,0 A			
Wire range	22 – 12 AWG			
finely stranded	0,5 – 2,5 mm ²			
single core	0,5 – 4 mm ²			
Ambient temperature	0...+50 °C			
Installation of mounting rail	TS 35 or TS 32			
Norms/specifications	VDE 0110b Gr. 2			
Terminal strip X2	Type 8191E(x poles)			

passive interfaces

for S5-115U



Digital I/O

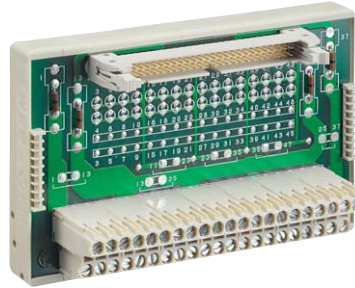
Dimensions (mm): W x H x D
128.5 x 80 x 61

Approvals:

Description	Type	Part No.	Box Qty
Digital I/O with LED	EAS-UE/D-L-115	87.221.6053.0	1
Digital I/O without LED	EAS-UE/D-115	87.221.5953.0	1
Wiring diagrams, dimensions			
		See page 571	
Technical data			
Nominal voltage with LED	24 V DC		
Nominal voltage without LED	75 V DC / 60 V AC		
Nominal current per LED	5 mA		
Nominal current:			
connections 1, 13, 25, 37 maximum	4 x 2.5 A oder 1 x 10 A		
all remaining connections, maximum	0.5 A		
Ambient temperature	0...+60 °C		
Storage temperature	-40...+70 °C		
Wire range (X8)	22 - 12 AWG		
finely stranded	0.5 - 2.5 mm ²		
single core	0.5 - 4 mm ²		
Installation of mounting rail	TS 35 or TS 32		
Terminal strip X8	Type 8191E		
Accessories			
Suitable 46 pole front plug (115U)		87.221.5853.0	4
Notes for application			
Application (digital I/O with LED)			
Digital output modules	6ES5 441-7LA11	Fa. Siemens	
	6ES5 451-7LA11	Fa. Siemens	
Digital input modules	6ES5 420-7LA11	Fa. Siemens	
	6ES5 430-7LA11	Fa. Siemens	
Application (digital I/O without LED)			
Digital output modules	6ES5 441-7LA11	Fa. Siemens	
	6ES5 451-7LA11	Fa. Siemens	
	6ES5 457-7LA11	Fa. Siemens	
	6ES5 458-7LA11	Fa. Siemens	
	6ES5 482-7LA11	Fa. Siemens	

passive interfaces

for S5-115U



Universal module

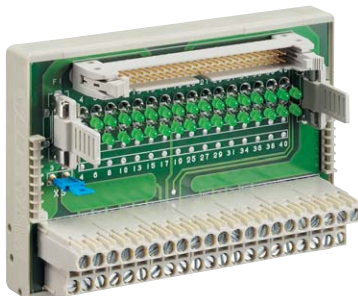
Dimensions (mm): W x H x D
128.5 x 80 x 61

Approvals:

Description	Type	Part No..	Box Qty
Universal module	UNIVERSAL-S5	87.221.6353.0	1
Wiring diagrams, dimensions			
See page 571			
Technical data			
Maximum nominal voltage	74 V DC / 60 V AC		
Nominal current:			
connections 1, 13, 25, 37 maximum	2.5 A		
all remaining connections, maximum	0.5 A		
Ambient temperature	0...+60 °C		
Storage temperature	-40...+70 °C		
Wire range (X2)	22 - 12 AWG		
finely stranded	0.5 - 2.5 mm ²		
single core	0.5 - 4 mm ²		
Installation of mounting rail	TS 35 or TS 32		
Terminal strip X2	Type 8191E		
Accessories			
Suitable 46 pole front plug (115U)		87.221.5853.0	4

passive interfaces

for S5-135U to 155U



Dimensions (mm): W x H x D
115.5 x 80 x 61

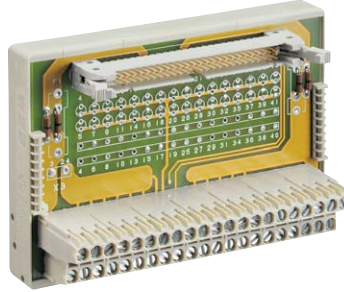
Digital I/O

Approvals:

Description	Type	Part No.	Box Qty
Digital I/O with LED	EAS-UE/D-L-135	87.222.6053.0	1
Digital I/O without LED	EAS-UE/D-135	87.222.5953.0	1
Wiring diagrams, dimensions		See page 572	
Technical data			
Nominal voltage with LED	24 V DC		
Nominal voltage without LED	75 V DC / 60 V AC		
Nominal current per LED	5 mA		
Nominal current:			
Screw terminals 3 and 24, maximum	2 x 5 A (without plug-in jumper)		
all remaining connections, maximum	1 x 10 A (with plug-in jumper)		
	0.5 A		
Ambient temperature	0...+60 °C		
Storage temperature	-40...+70 °C		
Wire range (X8)	22 – 12 AWG		
finely stranded	0.5 – 2.5 mm ²		
single core	0.5 – 4 mm ²		
Installation of mounting rail	TS 35 oder TS 32		
Terminal strip X2	Type 8191E		
Accessories			
Suitable 42 pole front plug (135U/155U)	87.222.5853.0	5	
Notes for application			
Digital output modules	6ES5 441-74UA12 Fa. Siemens		
	6ES5 451-74UA12 Fa. Siemens		
Digital input modules	6ES5 420-74UA12 Fa. Siemens		
	6ES5 430-74UA12 Fa. Siemens		
Digital input/output modules	6ES5 482-4UA12 Fa. Siemens		

passive interfaces

for S5-135U to 155U



Universal module Profibus DP

Approvals:

Dimensions (mm): W x H x D
115.5 x 80 x 61

Description	Type	Part No..	Box Qty
Universal module	UNIVERSAL-S5	87.222.6353.0	1
Wiring diagrams, dimensions			
	See page 572		
Technical data			
Nominal voltage	24 V DC		
Nominal current:			
Screw terminals 3 and 24, maximum	5 A		
all remaining connections, maximum	0,5 A		
Ambient temperature	0...+60 °C		
Storage temperature	-40...+70 °C		
Wire range (X8)	22 - 12 AWG		
finely stranded	0,5 - 2,5 mm ²		
single core	0,5 - 4 mm ²		
Installation of mounting rail	TS 35 or TS 32		
Terminal strip X2	Type 8191E		
Accessories			
Suitable 42 pole front plug (135U/155U)	87.222.5853.0	5	

passive interfaces

for S5-115U to 155U

Important note for users:

The relay outputs must be supplied from the same phase (e.g. L1).



Both modules (main module and expansion module) are linked with a flat ribbon cable which is supplied with the expansion module.

Dimensions (mm): W x H x D
250 x 80 x 71

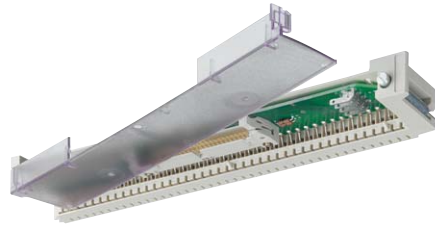
Main module

Expansion module

Description	Type	Part No.	Box Qty	Type	Part No.	Box Qty
	RAB-FS16 W A-S5	87.221.6653.0	1	RSB-FS16 W B-S5	87.221.6753.0	1
Wiring diagrams, dimensions, Limit curve	See page 573			See page 573		
Technical data						
Input data						
Operating voltage	24 V DC +10% / -15%			24 V DC +10% / -15%		
Nominal current per input	25 mA			25 mA		
Nominal capacity	0.6 W			0.6 W		
Status display	Green LED			Green LED		
Output data						
Maximum switching voltage	250 V AC/DC ⁽²⁾			250 V AC/DC ⁽²⁾		
Maximum switching current	8 A AC/DC ⁽²⁾			8 A AC/DC ⁽²⁾		
Maximum continuous current	5 V AC/DC ⁽²⁾			5 V AC/DC ⁽²⁾		
Maximum switching capacity (resistive load)	2000 VA/192W ⁽²⁾			2000 VA/192W ⁽²⁾		
Minimum switching voltage	12 V			12 V		
Minimum switching current	100 mA			100 mA		
General data						
Pickup delay	ca. 8 ms			ca. 8 ms		
Dropout delay	ca. 8 ms			ca. 8 ms		
Contact material	AgCdO			AgCdO		
Electrical endurance (resistive load)						
24 V DC / 2 A	5 x 10 ⁶ Switching cycles			5 x 10 ⁶ Switching cycles		
24 V DC / 5 A	2,5 x 10 ⁶ Switching cycles			2,5 x 10 ⁶ Switching cycles		
220 V AC / 1 A	1 x 10 ⁶ Switching cycles			1 x 10 ⁶ Switching cycles		
220 V AC / 5 A	2,5 x 10 ⁵ Switching cycles			2,5 x 10 ⁵ Switching cycles		
Isolation voltage between input/output	4 kV			4 kV		
Ambient temperature	0 °C...+1) °C			0 °C...+1) °C		
Storage temperature	-40...+70 °C			-40...+70 °C		
Wire range	22 - 12 AWG			22 - 12 AWG		
finely stranded	0.5 - 2.5 mm ²			0.5 - 2.5 mm ²		
single core	0.5 - 4 mm ²			0.5 - 4 mm ²		
Installation of mounting rail	TS 35 and TS 32			TS 35 and TS 32		
Accessories						
Suitable 46 pole front plug (115U)	87.221.5853.0			87.221.5853.0		
Suitable 42 pole front plug (135U/155U)	87.222.5853.0			87.222.5853.0		
Notes for application						
Digital output modules	6ES5 441-7LA11 Fa. Siemens			6ES5 441-7LA11 Fa. Siemens		
	6ES5 451-7LA11 Fa. Siemens			6ES5 451-7LA11 Fa. Siemens		
	6ES5 441-4UA12 Fa. Siemens			6ES5 441-4UA12 Fa. Siemens		
	6ES5 451-4UA12 Fa. Siemens			6ES5 451-4UA12 Fa. Siemens		

passive interfaces

for S5-135U to 155U



42 pole front plug

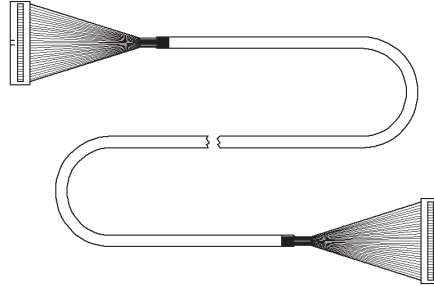
Approvals:
1 module location

Dimensions (mm): W x H x D

Description	Type	Part No.	Box Qty
42 pole front plug	135/150	87.222.5853.0	5
Connection via 50 pole ribbon plug connector (X3) in accordance with DIN 41651			
Wiring diagram	See page 574		
Technical data			
Operating voltage maximal	75 V DC / 60 V AC		
Front plug connection no3 and 24			
for connection via a front connector	6 A		
for connection via ribbon plug connector (6 parallel pins)	5 A		
all remaining connections	0.5 A		
Ambient temperature	0...+55 °C		
Storage temperature	-40...+70 °C		
Notes for application			
The ribbon plug connectors (X3) is fitted as standard with long interlocking hooks. IDC connectors with strain relief brackets are recommended for the connection of IDC headers.			

passive interfaces

Flat round cable



Flat round cable with shielding

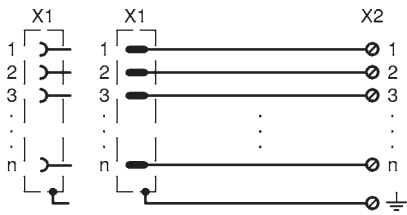
Flat round cable without shielding

Description	Type	Part No..	Box Qty	Type	Part No..	Box Qty
1.0	FRK-S 100	08.000.0106.0		FRK 100	08.000.0107.4	
1.5	FRK-S 150	08.000.0106.1		FRK 150	08.000.0107.5	
2.0	FRK-S 200	08.000.0106.2		FRK 200	08.000.0107.6	
2.5	FRK-S 250	08.000.0106.3		FRK 250	08.000.0107.7	
3.0	FRK-S 300	08.000.0106.4		FRK 300	08.000.0107.8	
3.5	FRK-S 350	08.000.0106.5		FRK 350	08.000.0108.9	
4.0	FRK-S 400	08.000.0106.6		FRK 400	08.000.0108.0	
4.5	FRK-S 450	08.000.0106.7		FRK 450	08.000.0108.1	
5.0	FRK-S 500	08.000.0106.8		FRK 500	08.000.0108.2	
6.0	FRK-S 600	08.000.0106.9		FRK 600	08.000.0108.3	
7.0	FRK-S 700	08.000.0107.0		FRK 700	08.000.0108.4	
8.0	FRK-S 800	08.000.0107.1		FRK 800	08.000.0108.5	
9.0	FRK-S 900	08.000.0107.2		FRK 900	08.000.0108.6	
10.0	FRK-S 1000	08.000.0107.3		FRK 1000	08.000.0108.7	
Technical data						
Nominal voltage	75 V DC / 60 V AC			75 V DC / 60 V AC		
Maximum permitted voltage per core	0.85 A			0.85 A		
Maximum permitted total current of all cores	20 A			20 A		
Number of poles	50			50		
Cross-section	AWG 28 (7 x 0.127 mm Ø)			AWG 28 (7 x 0.127 mm Ø)		
Conductor material (tinned flexible leads)	Cu			Cu		
Maximum conductor resistance	230 Ω/km			230 Ω/km		
Capacitance	75 pF/m			75 pF/m		
Impedance	115 Ω			115 Ω		
Thermal stability	-20...+80 °C			-20...+80 °C		
Isolation	PVC			PVC		
IDC connector (with strain relief)	DIN 41651			DIN 41651		
Overall diameter	11.6 mm			11.1 mm		

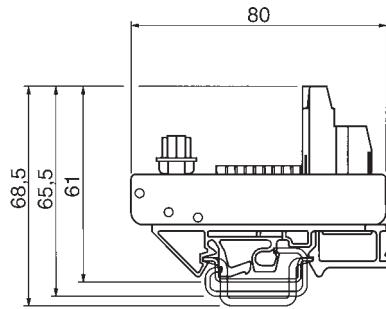
passive interfaces

D-Sub connector to screw terminal

Wiring diagram

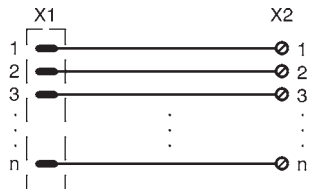


Dimensions

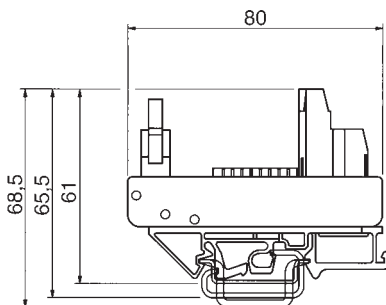


IDC connector to screw terminal

Wiring diagram



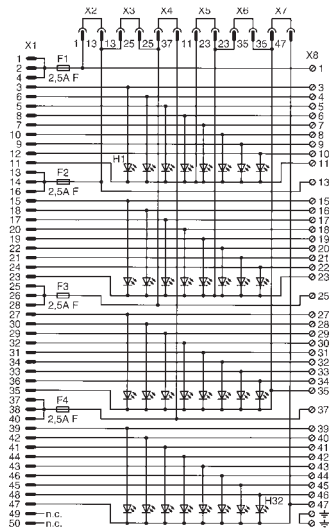
Dimensions



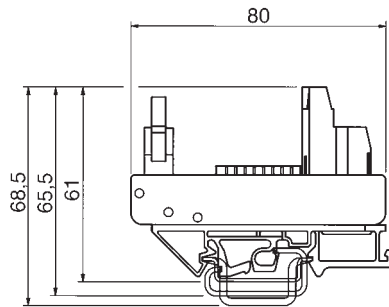
passive interfaces

Interface module for S5-115U Digital I/O

Wiring diagram

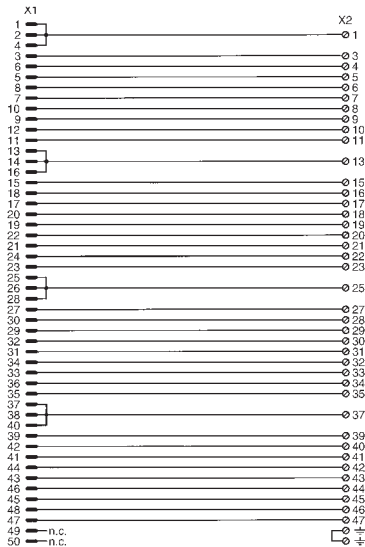


Dimensions

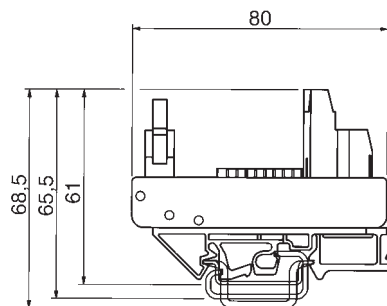


Interface module for S5-115U Universal module

Wiring diagram



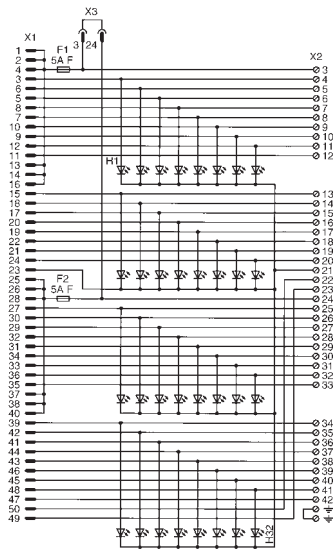
Dimensions



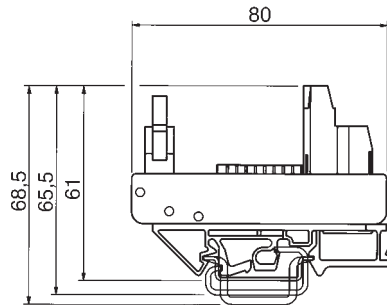
passive interfaces

Interface module for S5-135U to 155U Digital I/O

Wiring diagram

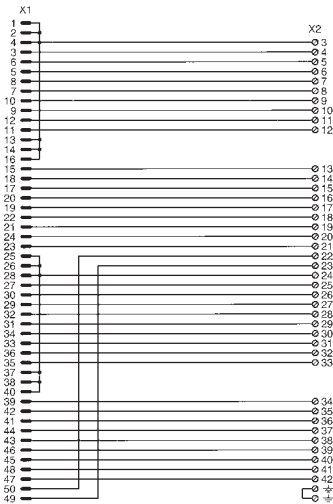


Dimensions

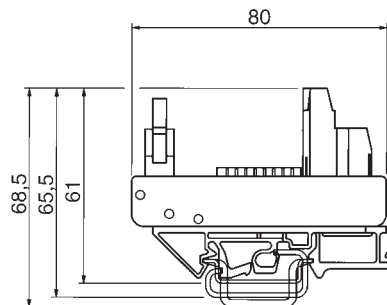


Interface module for S5-135U to 155U Universal module

Wiring diagram



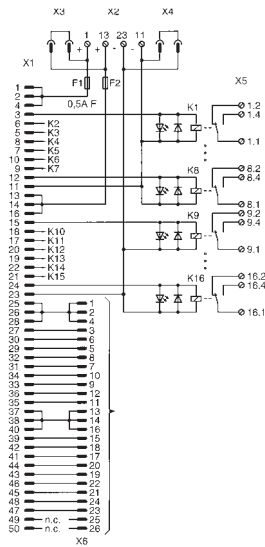
Dimensions



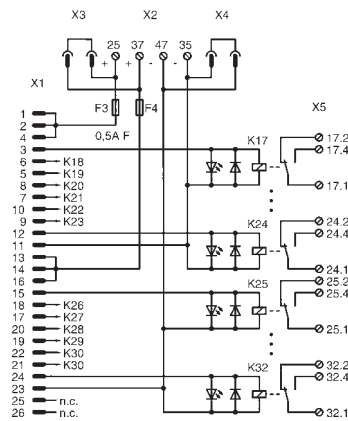
passive interfaces

Wiring diagram

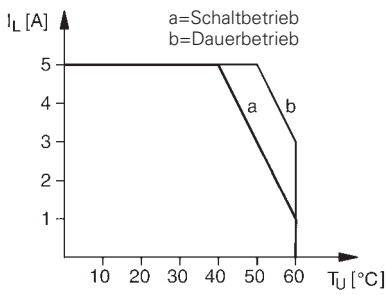
Relay output module for S5-115U to 155U Main module



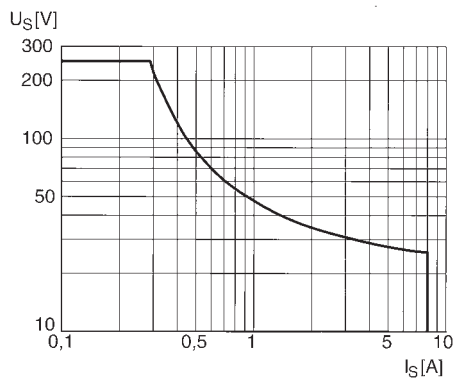
Relay output module for S5-115U to 155U Expansion module



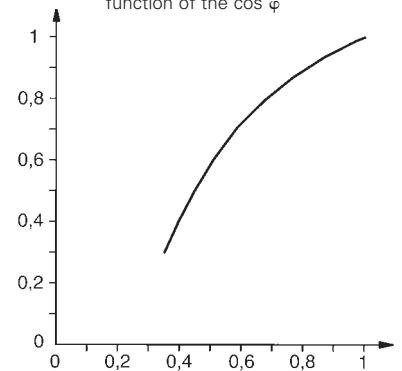
Derating¹⁾



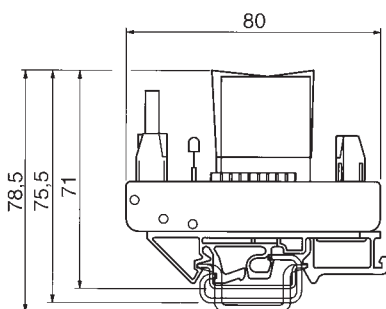
Direct voltage limit curve²⁾



Reduction of the contact rating in function of the cos φ



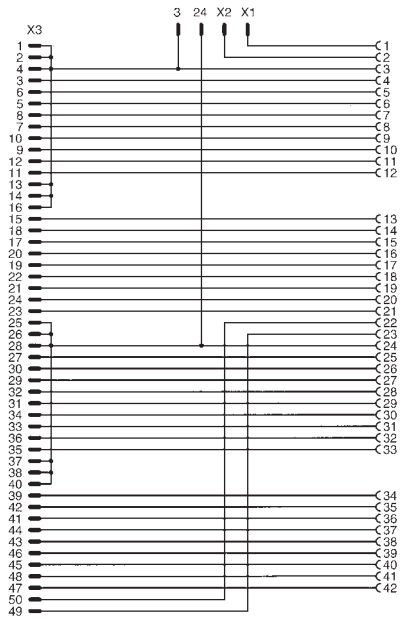
Dimensions



interface for S5 for S5

I/O plug system for S5-135U to 155U

S42 pole front plug



Empty housings

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housing system

dipos

WEB

WEB 1001/1002

WEG

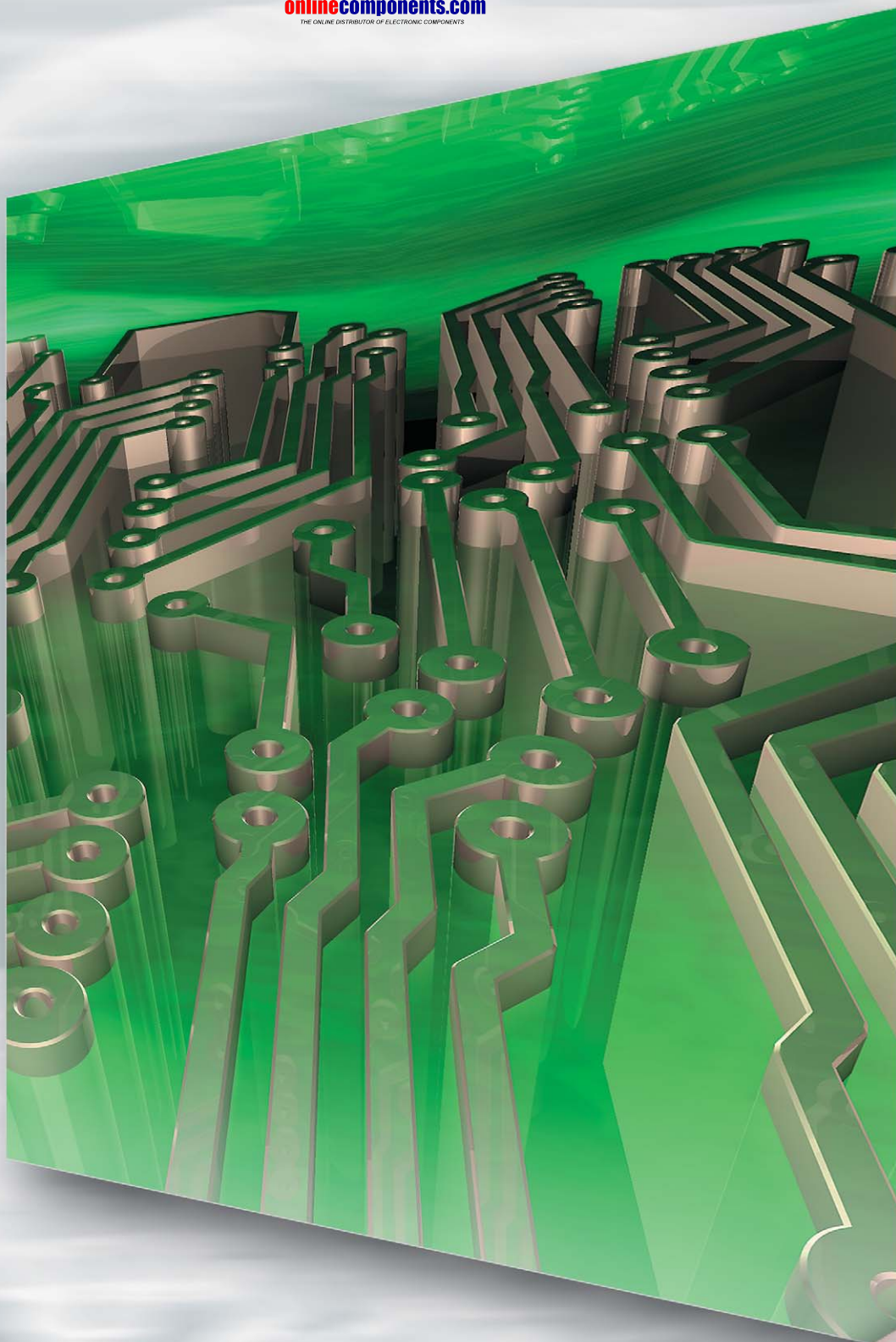
wieBOX

Labelling systems

Wielands empty housings offer:

- Universal application
- Individual modules
- Ranges that can be fitted together
- Complete housing systems
- Connectable housing
- Potentials can be bridged
- Screw or spring-clamp terminal
- Sealable
- Possibility of group labelling

CE In general all Wieland components which are obliged to have the CE identification are provided with the CE mark

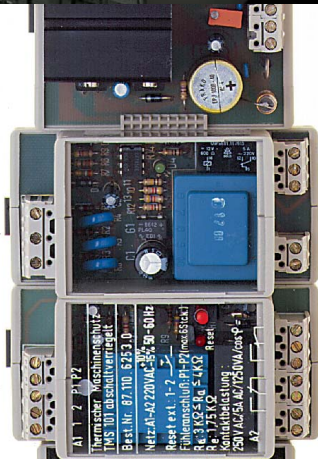
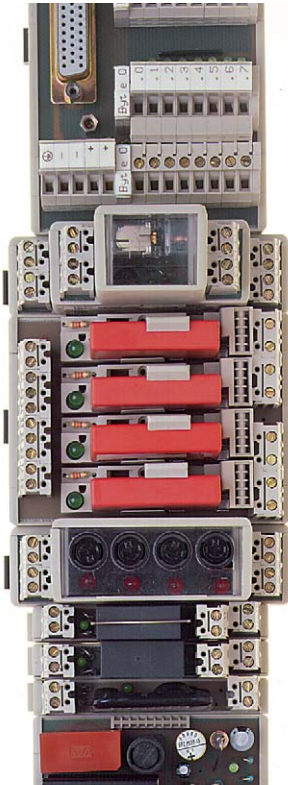


Electronic components
Empty housings



housing system

Empty housing features



WEB-Range

- installation housings, suitable for a variety of uses
- series of housings can be fitted together
- as individual modules
- or can be fitted together as a complete system
- mounting foot for all common mounting rails TS 35/TS 32
- to house fully equipped PCBs with various connection systems
- Can be used in such areas as:
 - device and control systems for consumer electronics
 - industrial electronics
 - control engineering
 - data systems engineer
 - suitable for universal applications
- design available with/without components fitted (see "Electronic components" for designs with components)
- distribution of electronic components to take up minimum space
- WEB housing provides protection for sensitive components
- Wieland's system solution: Safety and functionality with field tested connection systems + high quality compact designs

- its advantages:
 - long service life, even under extreme conditions
 - technical design perfection
 - reliability
 - low costs
 - problem-free application
 - many housing variations

WEB 1001 closed design

- construction of upto 9 housing configurations without tools and using just a few individual parts
- connection system
 - PCB terminals
 - direct and two part pluggable connectors
 - push-on terminals
 - etc.
- PCB can be fitted with components and soldered independently of the housing

- Width of the design:
 - from an overall housing height of 42 mm and PCB size (92,3 x 22,3 mm) up to 68 mixed connections in multi-tier design
- closed design provides protection for the electronic components
- with transparent cover for checking displays etc.
- Marker facility on the housing

WEB 1001 WEB 1002 open housing

- height of this series only 15,8 mm (without U-Foot)
- open modules can be assembled using the 3 different elements to form any length
- complete sets of special components can be fitted
- numerous facilities for connecting external conductors, screw, pluggable, two part and push on terminals
- system advantages:
 - can be assembled quickly due to the plug-in modular system principle
 - high torsional rigidity due to the firm interconnection of the individual elements
 - can be fitted to all DIN EN mounting rails 32/35 using the universal foot

wieBox CN range

- for assembling electronic components
- housing designed with twin shell casing
- in three different designs widths 19 mm, 22,5 mm and 26 mm
- can be fitted with 2 or 3 pole terminals which are provided with a left or right angled soldering pins
- insertion of the 2 pole supply terminals in 19mm housing possible up to a maximum of 8 poles
- 3 pole terminals up to a maximum of 12 poles can be used for the design widths 22,5 mm and 26 mm
- housing can be selected with or without ventilation slots
- mounting foot for TS 35 mounting rail
- with solid or removable front panels:
 - for plugging in or latching in

housing system



WEB connection system

- independent of the housing component
- up to 68 connections per housing
- no type of connection prescribed therefore screw, puggable, two-part terminals or even mixed systems can be used

Handling

- PCBs can be fitted with components independantly of the housing
- mechanical soldering of the PCB to the terminals and components, also regard less of the housing.
- horizontal (WEB) or vertical (WEG) arrangement of the PCB's on several levels within the housing
- housing components can be fitted together

Attachment to the mounting rail

- by means of a slot mounting facility for one or more mounting feet
- U-foot for TS 32 and TS 35

WEG-Empty housings

- compact housing made from high quality material
- closed housing available in four different sizes
- distribution of electronic components to take up minimum space
- WEG-Empty housings provide protection for sensitive components
- design widths: between 16,5 mm and 28,5 mm
- design height: either 70,5 mm or 98 mm
- modules of various lengths can be mounted side by side using the U-foot which snaps into place on the DIN rail
- space saving arrangement of electronic components both on DIN rail and on G rail (U-foot)
- connection by screw terminal
- supplied:
 - pre-assembled
 - connecting terminal plates supplied
- connection of single core and finely stranded conductors from 0,14 mm² to 6 mm², stranded conductors from 0,14 mm² to 4 mm²

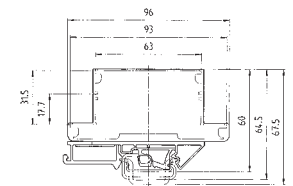
Labelling systems

- clip-in terminal and housing markers
- multi digit marker tags
- single tag, marker strips

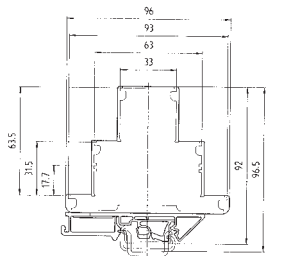
- marker branch

- individual labelling possible using figures or symbols

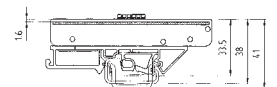
WEB closed housing



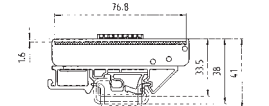
WEB closed housing



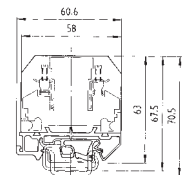
WEB open housing



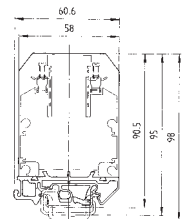
WEB open housing



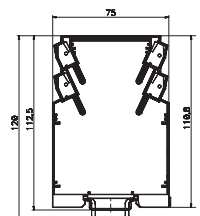
WEG



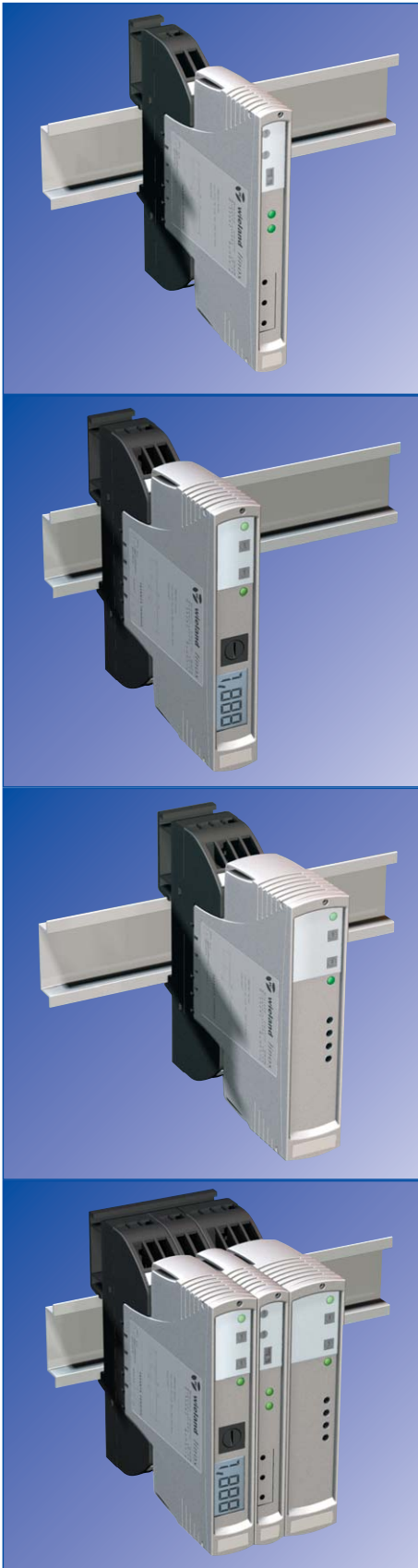
WEG



wieBOX



dipos



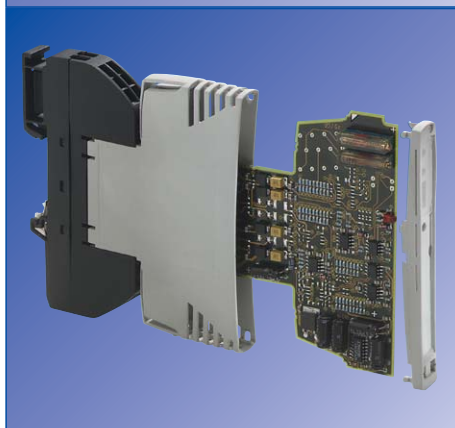
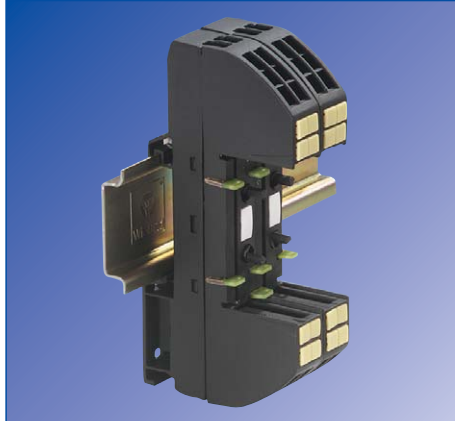
Typical applications

- relay modules
- timer relay modules
- optocoupler (solid state) modules
- compact power supply units
- converter for standard analogue signals
- signal conditioning for RTD's and thermocouples
- programmable signal conditioning
- potential monitors
- overvoltage protection
- low cost I/O system
- fieldbus interfacing

Possible applications and markets

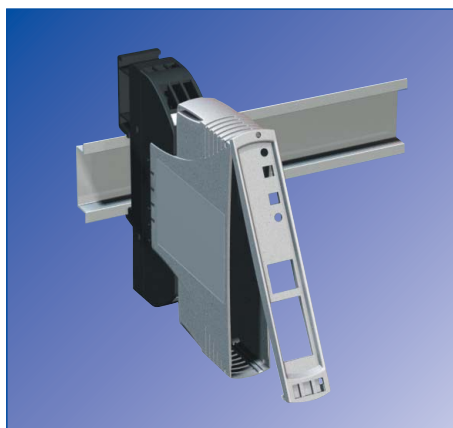
- mechanical and system engineering
- electrical/electronics industry, device manufacturer
- chemical industry and process automation
- power engineering and power stations
- building technology, heating, ventilation and air conditioning technology (HVAC)
- car industry, aircraft, ships
- consumer goods
- foodstuffs
- utilities
- monitoring of environmental pollutions
- traffic control

dipos



Properties of the housing

- variety of housings for industrial process and building automation
- connectable housing consisting of module boards and modular top sections
- housing can be extended in the future in 5 mm intervals
- 4 (at an overall width of 12.5 mm) or 6 (at an overall width of 17.5 mm) potentials can be bridged between modules
- 8 connections in an overall width of 12.5 mm
- type of connection can be freely selected: screw or spring-clamp terminal
- integral connection
- labelling not covered by wiring
- each connection can be marked with its own marker tag
- coloured marker tags available
- group labelling in the base and on cover of housing
- Locking cover – to prevent unwanted changes
- ventilation slots
- PCB is terminal free
- module board for TS 32 and TS 35 mounting rails



Electronic empty housing Modular housing system

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dipos

Housing properties:

- connectable housing
- various design widths
- potential bridging between housings
- at least 8 connections
- connection type: screw or spring clamp



Dimensions (mm): W x H x D

Approvals: , CSA in preparation
12.5 x 100 x 100 (Standard)

Approvals: , CSA in preparation
17.5 x 100 x 100 (Standard)

Description	Type	Part No.	Box Qty	Type	Part No.	Box Qty
Module board <i>dipos</i> UMC						
with screw terminals (screw thread M3)		80.060.0000.1			80.060.1000.1	
with spring clamp		80.060.0001.1			80.060.1001.1	
Empty housings		80.061.0010.3			80.061.1010.3	
Dimensions of housing and module board	See page 600			See page 600		
Technical data	Type	Part No.	Box Qty	Type	Part No.	Box Qty
Rated voltage	230/400 V AC			230/400 V AC		
Maximum rated current	10 A per contact			10 A pro kontakt		
Total current	10 A			10 A		
Overvoltage category	III			III		
Degree of pollution	2			2		
Connections per side	4 Klemmen, 4 Potenziale pro Seite			6 Klemmen, 6 Potenziale pro Seite		
Wire range of screw terminals						
finely stranded/stranded	0.2 mm ² – 2.5 mm ²			0.2 mm ² – 2.5 mm ²		
single core	0.2 mm ² – 4 mm ²			0.2 mm ² – 4 mm ²		
flexible with AE with/without plastic sleeve	0.25 mm ² – 2.5 mm ² / 0.25 mm ² – 1.5 mm ²			0.25 mm ² – 2.5 mm ² / 0.25 mm ² – 1.5 mm ²		
AWG	24 – 12			24 – 12		
Tightening torque	0.5 – 0.6 Nm			0.5 – 0.6 Nm		
Wire range of spring-clamp terminal	0.08 mm ² – 2.5 mm ²			0.08 mm ² – 2.5 mm ²		
with AE	0.08 mm ² – 1.5 mm ²			0.08 mm ² – 1.5 mm ²		
AWG	28 – 12			28 – 12		
Maximum number of bridge to flanking unit	4			6		
Fire protection	V2			V2		
Type of protection	IP 20			IP 20		
Ambient temperature	-25 °C...+100 °C			-25 °C...+100 °C		
Storage temperature	-40 °C...+100 °C			-40 °C...+100 °C		
Regulations, norms	EN 60947-1 DIN EN 50178 DIN VDE 0611 T1 VDE 0110 VDE 106			EN 60947-1 DIN EN 50178 DIN VDE 0611 T1 VDE 0110 VDE 106		
Accessories						
Coding branch		Z5.563.0453.0	25		Z5.563.0453.0	25
Plug-in jumper		Z8.000.0229.5	50		Z8.000.0229.5	50
Large marker tag, white, blank		04.249.4053.0	500		04.249.4053.0	500
Small marker tag						
unmarked, red		04.249.1053.0	500		04.249.1053.0	500
unmarked, blue		04.249.1553.0	500		04.249.1553.0	500
unmarked, white		04.249.2053.0	500		04.249.2053.0	500


dipos

Housing properties:

- connectable housing
- various design widths
- potential bridging between housings
- at least 8 connections
- connection type: screw or spring clamp



Dimensions (mm): W x H x D

Approvals: , CSA in preparation
22.5 x 100 x 100 (Standard)

Description	Type	Part No.	Box Qty
Module board dipos UMC			
with screw terminals (screw thread M3)		80.060.2000.1	
with spring clamp		80.060.2001.1	
Empty housings		80.061.2010.3	
Dimensions of housing and module board	See page 600		
Technical data	Type	Part No.	Box Qty
Rated voltage	230/400 V AC		
Maximum rated current	10 A per contact		
Total current	10 A		
Overvoltage category	III		
Degree of pollution	2		
Connections per side	8 Klemmen, 6 Potenziale pro Seite		
Wire range of screw terminals			
finely stranded/stranded	0.2 mm ² – 2.5 mm ²		
single core	0.2 mm ² – 4 mm ²		
flexible with AE with/without plastic sleeve	0.25 mm ² – 2.5 mm ² / 0.25 mm ² – 1.5 mm ²		
AWG	24 – 12		
Tightening torque	0.5 – 0.6 Nm		
Wire range of spring-clamp terminal	0.08 mm ² – 2.5 mm ²		
with AE	0.08 mm ² – 1.5 mm ²		
AWG	28 – 12		
Maximum number of bridge to flanking unit	6		
Fire protection	V2		
Type of protection	IP 20		
Ambient temperature	–25 °C...+100 °C		
Storage temperature	–40 °C...+100 °C		
Regulations, norms	EN 60947-1 DIN EN 50178 DIN VDE 0611 T1 VDE 0110 VDE 106		
Accessories			
Coding branch		Z5.563.0453.0	25
Plug-in jumper		Z8.000.0229.5	50
Large marker tag, white, blank		04.249.4053.0	500
Small marker tag			
unmarked, red		04.249.1053.0	500
unmarked, blue		04.249.1553.0	500
unmarked, white		04.249.2053.0	500

Possible areas of application:

- devices and controllers for consumer electronics
- industrial electronics
- control technology
- data technology

Material:

Housing: PA 6 UL 94-HB
Foot: PA 66 UL 94-V2
Cover: PC UL 94-HB



Size 1

27 x 42 x 96 / for PCB 93 x 22

Size 2

27 x 74 x 96 / for PCB 93/63 x 22

Dimensions (mm): W x H x D / for PCB

Description	Part No.	Box Qty	Part No.	Box Qty
Empty housing, complete with U-Foot, without PCB	87.010.0053.0	10	87.020.0053.0	10
Empty housing, complete with Foot TS 35, without PCB	86.010.0053.0	10	86.020.0053.0	10
(The empty housings are supplied unassembled and without PCBs)				
Housing dimensions	See page 601		See page 601	
Individual parts				
1. Housing	01.001.5153.0	50	01.001.5053.0	
2. Cover with marking facility	04.312.0654.0	50	04.312.0554.0	50
Cover without marking facility				
3. Cover plate	07.310.8553.0	50	07.310.8453.0	50
4. Universal foot	05.583.0053.0	50	05.583.0053.0	50
Foot TS 35	Z5.595.2153.0	50	Z5.595.2153.0	50
Connection technique				
PCB terminals with 5 mm pitch	Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142		Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142	
PCB terminals with 5.08 mm pitch	Type 8213, 8281, 8291, 8292		Type 8213, 8281, 8291, 8292	
PCB terminals with 7.5 mm pitch	Type 8313, 8390, 8391		Type 8313, 8390, 8391	
PCB terminals with 7.62 mm pitch	Type 8413, 8491		Type 8413, 8491	
PCB terminals with 3.5 mm pitch	Type 8543, 8593		Type 8543, 8593	
PCB terminals with 3.81 mm pitch	Type 8813, 8893		Type 8813, 8893	
Accessories				
Flat connector	6.3 mm, straight	05.555.8521.0 50	6.3 mm, straight	05.555.8521.0 50
Flat connector	6.3 mm, angled	05.555.8721.0 50	6.3 mm, angled	05.555.8721.0 50
Flat connector	2 x 2.8 mm, straight	05.555.9121.0 50	2 x 2.8 mm, straight	05.555.9121.0 50
Flat connector	2 x 2.8 mm, angled	05.555.8921.0 50	2 x 2.8 mm, angled	05.555.8921.0 50
Flat connector	2.8 mm, straight	05.555.8621.0 50	2.8 mm, straight	05.555.8621.0 50
Flat connector	2.8 mm, angled	05.555.8821.0 50	2.8 mm, angled	05.555.8821.0 50
Flat connector: Materials	Ms tin plated		Ms tin plated	
Mounting rail: diameter	1.3 – 1.4 mm		1.3 – 1.4 mm	
Mounting rail: spacing	5 mm		5 mm	
Mounting rail 35, DIN rail 7.5 high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail 35, DIN rail 15 high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail 32, G-rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100
Marker tag holder	9003 C/4	04.242.1050.0 200	9003 C/4	04.242.1050.0 200
Marker tag, unmarked	9003 C	04.241.0651.0 500	9003 C	04.241.0651.0 500
Marker tag, marked	9003 CB	04.841.0651.0 500	9003 CB	04.841.0651.0 500
See pages 582–585 for further labelling systems				



Possible areas of application:

- devices and controllers for consumer electronics
- industrial electronics
- control technology
- data technology

Material:

Housing: PA 6 UL 94-HB
Foot: PA 66 UL 94-V2
Cover: PC UL 94-HB

Size 3

93 x 42 x 96 / for PCB 93 x 45

Size 4

70.5 x 74 x 96 / for PCB 93/63 x 45

Dimensions (mm): W x H x D / for PCB

Description	Part No.	Box Qty	Part No.	Box Qty			
Empty housings, complete with U-Foot, without PCB	87.030.0053.0	10	87.040.0053.0	10			
Empty housings, complete with Foot TS 35, without PCB	86.030.0053.0	10	86.040.0053.0	10			
(The empty housings are supplied unassembled and without PCBs)							
Housing dimensions	See page 601		See page 601				
Individual parts							
1. Housing	2 x	01.001.5153.0	50	2 x	01.001.5053.0	50	
2. Cover with marking facility	2 x	04.312.0654.0	50	2 x	04.312.0554.0	50	
Cover without marking facility	1 x	04.312.3054.0	10	1 x	04.312.3354.0	50	
3. Cover plate							
4. Universal foot		05.583.0053.0	50		05.583.0053.0	50	
Foot TS 35		Z5.595.2153.0	50		Z5.595.2153.0	50	
Connection technique							
PCB terminals with 5 mm pitch	Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142		Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142				
PCB terminals with 5.08 mm pitch	Type 8213, 8281, 8291, 8292		Type 8213, 8281, 8291, 8292				
PCB terminals with 7.5 mm pitch	Type 8313, 8390, 8391		Type 8313, 8390, 8391				
PCB terminals with 7.62 mm pitch	Type 8413, 8491		Type 8413, 8491				
PCB terminals with 3.5 mm pitch	Type 8543, 8593		Type 8543, 8593				
PCB terminals with 3.81 mm pitch	Type 8813, 8893		Type 8813, 8893				
Accessories							
Flat connector	6.3 mm, straight	05.555.8521.0	50	6.3 mm, straight	05.555.8521.0	50	
Flat connector	6.3 mm, angled	05.555.8721.0	50	6.3 mm, angled	05.555.8721.0	50	
Flat connector	2 x 2.8 mm, straight	05.555.9121.0	50	2 x 2.8 mm, straight	05.555.9121.0	50	
Flat connector	2 x 2.8 mm, angled	05.555.8921.0	50	2 x 2.8 mm, angled	05.555.8921.0	50	
Flat connector	2.8 mm, straight	05.555.8621.0	50	2.8 mm, straight	05.555.8621.0	50	
Flat connector	2.8 mm, angled	05.555.8821.0	50	2.8 mm, angled	05.555.8821.0	50	
Flat connector: Materials	Ms tin plated		Ms tin plated				
Mounting rail: diameter	1.3 -1.4 mm		1.3 -1.4 mm				
Mounting rail: spacing	5 mm		5 mm				
Mounting rail 35, DIN rail 7.5 high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, DIN rail 15 high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail 32, G-rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
End clamp, Polyamide	8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp, Polyamide	10 mm wide U-Foot	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
Marker tag holder		9003 C/4	04.242.1050.0	200	9003 C/4	04.242.1050.0	200
Marker tag, unmarked		9003 C	04.241.0651.0	500	9003 C	04.241.0651.0	500
Marker tag, marked		9003 CB	04.841.0651.0	500	9003 CB	04.841.0651.0	500
See pages 582-585 for further labelling systems							

Electronic empty housings

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WEB



- Possible areas of application:
- devices and controllers for consumers electronics
 - industrial electronics
 - control technology
 - data technology

Material:
Housing: PA 6 UL 94-HB
Foot: PA 66 UL 94-V2
Cover: PC UL 94-HB

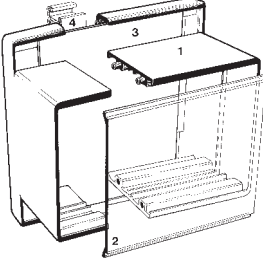
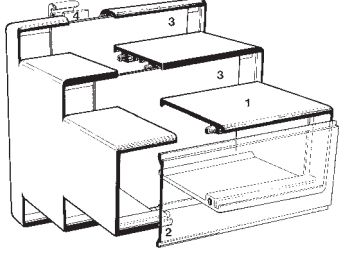
Size 6

70.5 x 42 x 96 / for PCB 93 x 67

Size 7

70.5 x 74 x 96 / for PCB 93/63 x 67

Dimensions (mm): W x H x D / for PCB

Description	Part No.	Box Qty	Part No.	Box Qty
Empty housings, complete with U-Foot, without PCB (The empty housings are supplied unassembled and without PCBs)	87.060.0053.0	10	87.070.0053.0	10
				
Housing dimensions	See page 601		See page 601	
Individual parts				
1. Housing	01.001.5153.0	50	01.001.5353.0	10
Housing	01.001.5453.0	50	01.001.5053.0	
2. Cover	04.312.3154.0	50	04.312.3454.0	50
3. Universal foot	05.583.0153.0	50	05.583.0153.0	50
Connection technique				
PCB terminals with 5 mm pitch	Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142		Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142	
PCB terminals with 5.08 mm pitch	Type 8213, 8281, 8291, 8292		Type 8213, 8281, 8291, 8292	
PCB terminals with .5 mm pitch	Type 8313, 8390, 8391		Type 8313, 8390, 8391	
PCB terminals with 7.62 mm pitch	Type 8413, 8491		Type 8413, 8491	
PCB terminals with 3.5 mm pitch	Type 8543, 8593		Type 8543, 8593	
PCB terminals with 3.81 mm pitch	Type 8813, 8893		Type 8813, 8893	
Technical data				
Materials	Ms tin plated		Ms tin plated	
Mounting rail: diameter	1.3 –1.4 mm		1.3 –1.4 mm	
Mounting rail: spacing	5 mm		5 mm	
Accessories				
Flat connector	6.3 mm, straight	05.555.8521.0 50	6.3 mm, straight	05.555.8521.0 50
Flat connector	6.3 mm, angled	05.555.8721.0 50	6.3 mm, angled	05.555.8721.0 50
Flat connector	2 x 2.8 mm, straight	05.555.9121.0 50	2 x 2.8 mm, straight	05.555.9121.0 50
Flat connector	2 x 2.8 mm, angled	05.555.8921.0 50	2 x 2.8 mm, angled	05.555.8921.0 50
Flat connector	2.8 mm, straight	05.555.8621.0 50	2.8 mm, straight	05.555.8621.0 50
Flat connector	2.8 mm, angled	05.555.8821.0 50	2.8 mm, angled	05.555.8821.0 50
Mounting rail 35, DIN rail 7.5 high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7.5 EN 60715	98.300.0000.0 1
Mounting rail 35, DIN rail 15 hoc L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail 32, G-rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100
Marker tag holder	9003 C/4	04.242.1050.0 200	9003 C/4	04.242.1050.0 200
Marker tag, unmarked	9003 C	04.241.0651.0 500	9003 C	04.241.0651.0 500
Marker tag, marked	9003 CB	04.841.0651.0 500	9003 CB	04.841.0651.0 500
See pages 582–585 for further labelling systems				

Possible areas of application:

- Devices and controllers for consumers electronics
- industrial electronics
- control technology
- data technology

Material:

Housing: PA 6 UL 94-HB
Foot: PA 66 UL 94-V2
Cover: PC UL 94-HB



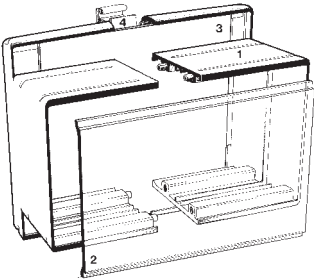
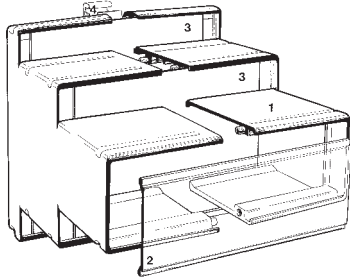
Size 8

93 x 42 x 96 / for PCB 93 x 89,6

Size 9

93 x 74 x 96 / for PCB 93/63 x 89,6

Dimensions (mm): W x H x D / for PCB

Description	Part No.	Box Qty	Part No.	Box Qty
Empty housings, complete with U-Foot, without PCB	87.080.0053.0	10	87.090.0053.0	10
(The empty housings are supplied unassembled and without PCBs)				
Housing dimensions	See page 601		See page 601	
Individual parts				
1. Housing	01.001.5453.0	50	01.001.5353.0	10
Housing	01.001.5453.0	50	01.001.5353.0	10
2. Cover	04.312.3254.0	50	04.312.3554.0	50
3. Universal foot	05.583.0153.0	50	05.583.0153.0	50
Connection technique				
PCB terminals with 5 mm pitch	Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142		Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142	
PCB terminals with 5.08 mm pitch	Type 8213, 8281, 8291, 8292		Type 8213, 8281, 8291, 8292	
PCB terminals with 7.5 mm pitch	Type 8313, 8390, 8391		Type 8313, 8390, 8391	
PCB terminals with 7.62 mm pitch	Type 8413, 8491		Type 8413, 8491	
PCB terminals with 3.5 mm pitch	Type 8543, 8593		Type 8543, 8593	
PCB terminals with 3.81 mm pitch	Type 8813, 8893		Type 8813, 8893	
Technical data				
Materials	Ms tin plated		Ms tin plated	
Mounting rail: diameter	1.3 – 1.4 mm		1.3 – 1.4 mm	
Mounting rail: spacing	5 mm		5 mm	
Accessories				
Flat connector	6.3 mm, straight	05.555.8521.0 50	6.3 mm, straight	05.555.8521.0 50
Flat connector	6.3 mm, angled	05.555.8721.0 50	6.3 mm, angled	05.555.8721.0 50
Flat connector	2 x 2.8 mm, straight	05.555.9121.0 50	2 x 2.8 mm, straight	05.555.9121.0 50
Flat connector	2 x 2.8 mm, angled	05.555.8921.0 50	2 x 2.8 mm, angled	05.555.8921.0 50
Flat connector	2.8 mm, straight	05.555.8621.0 50	2.8 mm, straight	05.555.8621.0 50
Flat connector	2.8 mm, angled	05.555.8821.0 50	2.8 mm, angled	05.555.8821.0 50
Mounting rail 35, DIN rail 7.5 high	L = 2 m	35 x 27 x 7.5 EN 60715 98.300.0000.0 1	35 x 27 x 7.5 EN 60715 98.300.0000.0 1	
Mounting rail 35, DIN rail 15 high	L = 2 m	35 x 24 x 15 EN 60715 98.360.0000.0 1	35 x 24 x 15 EN 60715 98.360.0000.0 1	
Mounting rail 32, G rail	L = 2 m	9006 EN 60715 G-32 98.190.0000.0 1	9006 EN 60715 G-32 98.190.0000.0 1	
End clamp, Polyamide	8 mm wide TS 35	9708/2 S 35 Z5.522.8553.0 100	9708/2 S 35 Z5.522.8553.0 100	
End clamp, Polyamide	10 mm wide U-Foot	WE 1/U Z5.523.5753.0 100	WE 1/U Z5.523.5753.0 100	
Marker tag holder		9003 C/4 04.242.1050.0 200	9003 C/4 04.242.1050.0 200	
Marker tag, unmarked		9003 C 04.241.0651.0 500	9003 C 04.241.0651.0 500	
Marker tag, marked		9003 CB 04.841.0651.0 500	9003 CB 04.841.0651.0 500	
See pages 582–585 for further labelling systems				

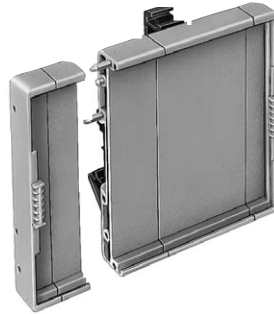
Electronic empty housings

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WEB 1001

System benefits

- can be assembled to any length
- possible to have complete custom-made design
- can be assembled together quickly due to the plug-in modular principle
- high torsional rigidity due to the firm interconnection of the individual elements
- can be latched onto all DIN EN mounting rail 32/35 using the universal foot



Material:

Housing: PA 6 GU30 UL 94-HB

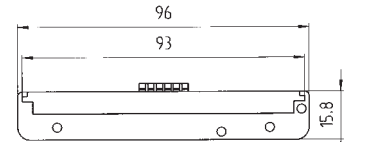
Foot: PA 66 UL 94-V2

WEB 1001

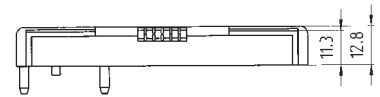
Variable x 96 x 33.5

Dimensions (mm): W x H x D

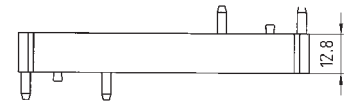
Individual parts	Type	Part No.	Box Qty
1. End cover with label holder	Width 12.8 mm	01.001.5593.0	50
1. End cover without label holder	Width 12.8 mm	01.001.5993.0	50
2. Middle section of housing	Width 12.8 mm	01.001.5853.0	50
3. Middle section of housing	Width 22.5 mm	01.001.5653.0	50
4. Middle section of housing	Width 44.8 mm	01.001.5753.0	50
5. Universal foot	Width 23 mm	05.583.0053.0	50
5. Universal foot (overall width from 70.4 mm)	Width 68 mm	05.583.0153.0	50
Accessories	Type	Part No.	Box Qty
Mounting rail 35, DIN rail 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, DIN rail 15 mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail 32, G-rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1
PCB (not included)	see drawing for dimensions		
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0	100
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0	100
Marker tag, unmarked	9003 C	04.242.0850.0	500
Marker tag, marked	9003 CB	04.842.0850.0	500
See pages 582–585 for further labelling systems			



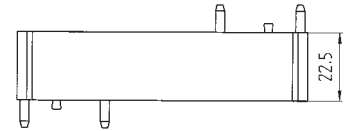
Width 12.8 mm 01.001.5593.0 50



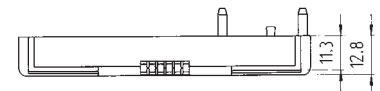
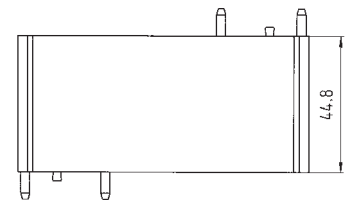
Width 12.8 mm 01.001.5853.0 50



Width 22.5 mm 01.001.5653.0 50

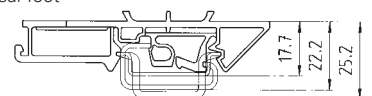


Width 44.8 mm 01.001.5753.0 50



01.001.5593.0 50

Universal foot



Width 23 mm 05.583.0053.0 50

Width 68 mm 05.583.0153.0 50

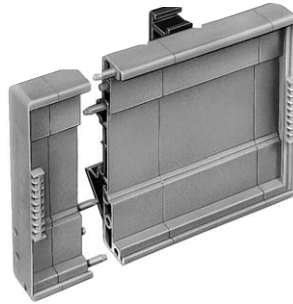
(overall width from 70.4 mm)

Subject to change without further notice

Electronic empty housings

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WEB 1002



System benefits

- can be assembled to any length
- possible to have complete custom-made design
- can be assembled together quickly due to the plug-in modular principle
- high torsional rigidity due to the firm interconnection of the individual elements
- can be latched onto all DIN EN mounting rail 32/35 using the universal foot

Material:

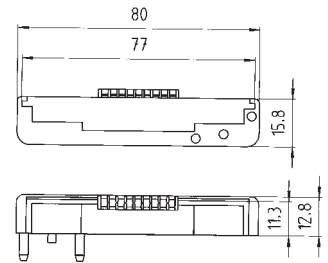
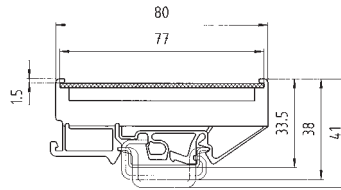
Housing: PA 6 GU30 UL 94-HB
Foot: PA 66 UL 94-V2

WEB 1002

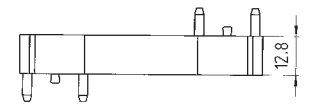
Dimensions (mm): W x H x D

Variable x 80 x 33.5

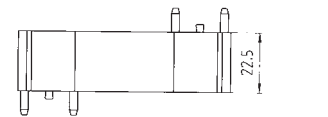
Individual parts	Type	Part No.	Box Qty
1. End cover with label holder	Width 12.8 mm	01.001.6493.0	50
2. Middle section of housing	Width 12.8 mm	01.001.6553.0	50
3. Middle section of housing	Width 22.5 mm	01.001.6653.0	50
4. Middle section of housing	Width 44.8 mm	01.001.6753.0	50
5. Universal foot	Width 23 mm	05.584.8853.0	50
5. Universal foot (overall width from 70.4 mm)	Width 68 mm	05.584.8953.0	50
Accessories			
Mounting rail 35, DIN rail 7.5 mm high	L = 2 m	35 x 27 x 7.5 EN 60715 98.300.0000.0	1
Mounting rail 35, DIN rail 15 mm high	L = 2 m	35 x 24 x 15 EN 60715 98.360.0000.0	1
Mounting rail 32, G-rail	L = 2 m	9006 EN 60715 G-32 98.190.0000.0	1
PCB (not included)	see drawing for dimensions		
End clamp, Polyamide	8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0 100
End clamp, Polyamide	10 mm wide U-Foot	WE 1/U	Z5.523.5753.0 100
Marker tag, unmarked		9003 C	04.242.0850.0 500
Marker tag, marked		9003 CB	04.842.0850.0 500
See pages 582–585 for further labelling systems			



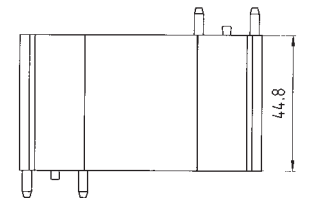
Width 12.8 mm 01.001.6493.0 50



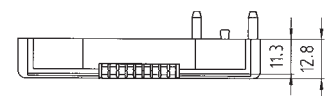
Width 12.8 mm 01.001.6553.0 50



Width 22.5 mm 01.001.6653.0 50

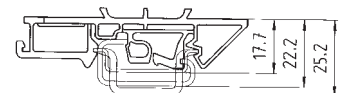


Width 44.8 mm 01.001.6753.0 50



01.001.6493.0 50

Universal foot



Width 23 mm 05.584.8853.0 50

Width 68 mm 05.584.8953.0 50

(overall width from 70.4 mm)

Electronic empty housings

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WEG

System benefits

- closed housing available in four different sizes
- parallel connection of the modules in various lengths possible via the latchable U-foot
- compact housing made from high quality material
- UL 94-V-0 polyamide 66/6

UL-Data
CSA-Data
Approvals
Dimensions (mm): W x H x D



No. 22–10 AWG/600 V
No. 20–10 AWG
UL
20 x 60.6 x 63



No. 22–10 AWG/600 V
No. 20–10 AWG
UL
16.5 x 60.6 x 90.5

Description	Part No.	Box Qty	
Empty housing, complete with U-Foot, without PCB	57.801.0053.0	10	57.801.5053.0 10
Housing dimensions, PCB dimensions	See page 602		See page 602
Technical data			
Rated cross-section	4 mm ²		4 mm ²
Wire range single core	0.14–6 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)		0.14–6 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)
Wire range finely stranded	0.14–4 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)		0.14–4 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)
Rated voltage	400 V/4 kV/3		400 V/4 kV/3
Rated current	max. 10 A		max. 10 A
Type of protection	IP 20		IP 20
Insulation strip length	7 mm		7 mm
Regulations, norms	DIN VDE 0611 Part 1 (11.77) EN 60947-7-1: 1991/DIN VDE 0611 T1/08.92		DIN VDE 0611 Part 1 (11.77) EN 60947-7-1: 1991/DIN VDE 0611 T1/08.92
Accessories			
Mounting rail 35, DIN rail 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715 98.300.0000.0	1	35 x 27 x 7,5 EN 60715 98.300.0000.0 1
Mounting rail 35, DIN rail 15 mm high L = 2 m	35 x 24 x 15 EN 60715 98.360.0000.0	1	35 x 24 x 15 EN 60715 98.360.0000.0 1
Mounting rail 32, G-rail L = 2 m	9006 EN 60715 G-32 98.190.0000.0	1	9006 EN 60715 G-32 98.190.0000.0 1
PCB (see drawing for dimensions) (hole grid)	Z8.000.0123.1	10	
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35 Z5.522.8553.0 100
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0 100	WE 1/U Z5.523.5753.0 100
Marker tag, unmarked	9003 C	04.242.0651.0 500	9003 C 04.241.0651.0 500
Marker tag, marked	9003 CB	04.842.0651.0 500	9003 CB 04.841.0651.0 500
See pages 582–585 for further labelling systems			

System benefits

- closed housing available in four different sizes
- parallel connection of the modules in various lengths possible via the latchable U-foot
- Compact housing made from high quality material
- UL 94-V-0 polyamide 66/6

UL-Data

CSA-Data

Approvals

Dimensions (mm): W x H x D



No. 22-10 AWG/600 V

No. 20-10 AWG



22.5 x 60.6 x 90.5

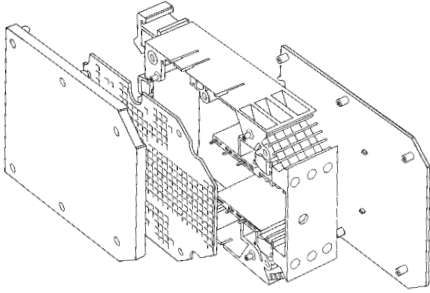
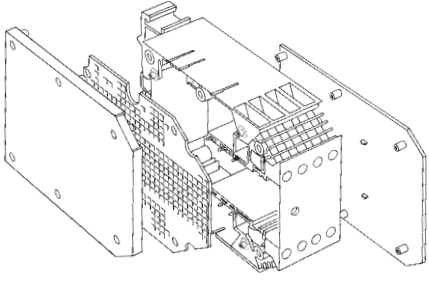


No. 28.5-10 AWG/600 V

No. 20-10 AWG



28.5 x 60.6 x 90.5

Description	Part No.	Box Qty	Part No.	Box Qty
Empty housings, complete with U-Foot, without PCB	57.801.5153.0	10	57.801.5253.0	10
				
Housing dimensions, PCB dimensions	See page 602		See page 602	
Technical data				
Rated cross-section	4 mm ²		4 mm ²	
Wire range single core	0.14–6 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)		0.14–6 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)	
Wire range finely stranded	0.14–4 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)		0.14–4 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)	
Rated voltage	400 V/4 kV/3		400 V/4 kV/3	
Rated current	max. 10 A		max. 10 A	
Type of protection	IP 20		IP 20	
Insulation strip length	7 mm		7 mm	
Regulations, norms	DIN VDE 0611 Part 1 (11.77) EN 60947-7-1: 1991/DIN VDE 0611 T1/08.92		DIN VDE 0611 Part 1 (11.77) EN 60947-7-1: 1991/DIN VDE 0611 T1/08.92	
Accessories				
Mounting rail 35, DIN rail 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail 35, DIN rail 15 mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail 32, G-rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100
Marker tag, unmarked	9003 C	04.241.0651.0 500	9003 C	04.241.0651.0 500
Marker tag, marked	9003 CB	04.841.0651.0 500	9003 CB	04.841.0651.0 500
See pages 582–585 for further labelling systems				

wieBox



System benefits

- housing design in twin shell technology
- housing with or without ventilation slots
- installation of the 2 pole supply terminal in the 19mm housing
- 8 poles possible
- solid or removable front panels

UL-Data
CSA-Data
Approvals
Overall width (mm): W x H x D

No. 22-12 AWG 300 V UG: B, D 20 A/30 A
No. 22-12 AWG 300 V Gr. B 25 A
UL, CSA
width 19 x 75 x 110.8

No. 22-12 AWG 300 V UG: B, D 20 A/30 A
No. 22-12 AWG 300 V Gr. B 25 A
UL, CSA
width 22.5 x 75 x 110.8

Individual parts	Type	Part No.	Box Qty	Type	Part No.	Box Qty
Housing base, general with contour, without PCB						
1. Housing base, with mounting foot, with ventilation slots	wieBox CN 19 GKL	Z1.296.3453.0	25	wieBox CN 22 GKL	Z1.296.3853.0	25
2. Housing base, with mounting foot, without ventilation slots	wieBox CN 19 GK	Z1.296.3553.0	25	wieBox CN 22 GK	Z1.296.3953.0	25
3. Lid, without integral front panel, with contour	wieBox CN DK	07.416.5153.0	25	wieBox CN DK	07.416.5153.0	25
4. Lid, without integral front panel, without contour	wieBox CN DU	07.416.5253.0	25	wieBox CN DU	07.416.5253.0	25
5. Lid, with integral front panel, without contour	wieBox CN 19 DK	07.416.5353.0	25	wieBox CN 22 DK	07.416.5653.0	25
6. Lid, without integral front panel, without contour	wieBox CN 19 DU	07.416.5453.0	25	wieBox CN 22 DU	07.416.5753.0	25
7. Front panel, transparent	wieBox CN 19 FKG	07.416.4856.0	50	wieBox CN 22 FKG	07.416.4956.0	50
8. Front panel, gray	wieBox CN 19 FK	07.416.4853.0	50	wieBox CN 22 FK	07.416.4953.0	50
Housing dimensions, PCB dimensions	See page 603			See page 603		
Technical data						
Rated cross-section	2.5 mm ²			2.5 mm ²		
Wire range single core/finely stranded	0.14 – 4 mm ² /0.14 – 2.5 mm ²			0.14 – 4 mm ² / 0.14 – 2.5 mm ²		
Insulation strip length	6.5 mm			6.5 mm		
Rated voltage: 5mm pitch	250 V/4 kV/3 – overvoltage category III			250 V/4 kV/3 – overvoltage category III		
(in accordance with VDE 0110/01.89)	690 V/4 kV/2 – overvoltage category II (max. 600 V for non-earthed systems or expected ≤4 kV)			690 V/4 kV/2 – overvoltage category II (max. 600 V for systems or expected ≤ 4 kV)		
	1000 V/4 kV/1 – overvoltage category I			1000 V/4 kV/1 – overvoltage category I		
Rated current	16 A			16 A		
Regulations, norms	DIN EN 50178 (VDE 0160), DIN EN 699-1 (VDE 0609 T.1)			DIN EN 50178 (VDE 0160), DIN EN 699-1 (VDE 0609 T.1)		
Housing material: Complete housing	PA 66/6 gray, similar to RAL 7032			PA 66/6 gray, similar to RAL 7032		
Front panel, transparent	PC 940 A			PC 940 A		
Mounting foot	PA 66/6 black			PA 66/6 black		
Flammability	UL94-V0			UL94-V0		
Type of protection	IP 40			IP 40		
Material of PCB terminal: Terminal screw	Galvanised steel			Galvanised steel		
Insulation component	PA 66/6 gray, similar to RAL 7032, UL94-V0			PA 66/6 gray, similar to RAL 7032, UL94-V0		
Clamping parts	Brass with nickel plating			Brass with nickel plating		
Contact bridge with soldering parts	Tin plated copper			Tin plated copper		
Soldering pin/bore hole	0.9 x 0.9 mm / Ø 1.3 mm			0.9 x 0.9 mm / Ø 1.3 mm		
Accessories						
9. Snap-in plate, gray	wieBox CN 19 EP	07.416.4553.0	50	wieBox CN 22 EP	07.416.4653.0	50
10. Blanking plate, 1 pole	wieBox CN BL 1	05.561.9553.0	100	wieBox CN BL 1	05.561.9553.0	100
11. Blanking plate, 2 pole	wieBox CN BL 2	05.561.9653.0	100	wieBox CN BL 2	05.561.9653.0	100
12. Marker tag	wieBox CN BZ	04.244.1853.0	100	wieBox CN BZ	04.244.1853.0	100
PCB terminal, right	8191/2- pole WVR OB	25.161.2553.0	100	8191/3- pole WVR OB	25.161.2653.0	100
PCB terminal, left	8191/2- pole WVW OB	25.161.2853.0	100	8191/3- pole WVW OB	25.161.2953.0	100
Mounting rail 35, DIN rail 7.5 mm high L = 2 m	35 x 27 x 7.5 EN 60715	98.300.0000.0	1	35 x 27 x 7.5 EN 60715	98.300.0000.0	1
Mounting rail 35, DIN rail 15 mm high L = 2 m	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp, Polyamide, for TS 35 8 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp, Polyamide, for U-Foot 10 mm wide						
See pages 582-583 for further labelling systems						

wieBox



System benefits

- housing design in twin shell technology
- housing with or without ventilation slots
- installation of the 2 pole supply terminal in the 19mm housing
- 8 poles possible
- with front plates for insertion or latching into position

No. 22-12 AWG 300 V UG: B, D 20 A/30 A
 No. 22-12 AWG 300 V Gr. B 25 A
 UL, CSA
 width 26 x 75 x 110.8

Approvals:
 Overall width (mm) : B x H x T

Description	Type	Part No.	Box Qty
Housing base, general with contour, without PCB			
1. Housing base, with mounting foot, with ventilation slots	wieBox CN 26 GKL	Z1.296.4253.0	25
2. Housing base, with mounting foot, without ventilation slots	wieBox CN 26 GK	Z1.296.4353.0	25
3. Lid, without integral front panel, with contour	wieBox CN DK	07.416.5153.0	25
4. Lid, without integral front panel, without contour	wieBox CN DU	07.416.5253.0	25
5. Lid, with integral front panel, without contour	wieBox CN 26 DK	07.416.5853.0	25
6. Lid, without integral front panel, without contour	wieBox CN 26 DU	07.416.5953.0	25
7. Front panel, transparent	wieBox CN 26 FKG	07.416.5056.0	50
8. Front panel, gray	wieBox CN 26 FK	07.416.5053.0	50
Housing dimensions, PCB dimensions	See page 589		
Technical data			
Rated cross-section	2,5 mm ²		
Wire range single core/finely stranded	0,14 – 4 mm ² /0,14 – 2,5 mm ²		
Insulation strip length	6,5 mm		
Rated voltage: 5mm pitch	250 V/4 kV/3 – overvoltage category III		
(in accordance with VDE 0110/01.89)	690 V/4 kV/2 – overvoltage category II (max. 600V for non-earthed systems or expected ≤ 4 kV)		
	1000 V/4 kV/1 – overvoltage category I		
Rated current	16 A		
Regulations, norms	DIN EN 50178 (VDE 0160), DIN EN 699-1 (VDE 0609 T.1)		
Housing material: Complete housing	PA 6.6 gray, similar to RAL 7032		
Front panel, transparent	PC 940 A		
Mounting foot	PA 6.6 black		
Flammability	UL94-V0		
Type of protection	IP 40		
Material of PCB terminal: Terminal screw	Galvanised steel		
Insulation component	PA 6.6 gray, similar to RAL 7032, UL94-V0		
Clamping parts	Brass with nickel plating		
Contact bridge with soldering parts	Tin plated copper		
Soldering pin/bore hole	0,9 x 0,9 mm/Ø 1,3 mm		
Accessories	Type	Part No.	Box Qty
9. Snap-in plate, gray	wieBox CN 26 EP	07.416.4753.0	50
10. Blanking plate, 1 pole	wieBox CN BL 1	05.561.9553.0	100
11. Blanking plate, 2 pole	wieBox CN BL 2	05.561.9653.0	100
12. Marker tag	wieBox CN BZ	04.244.1853.0	100
PCB terminal, right	8191/3- pole WVR OB	25.161.2653.0	100
PCB terminal, left	8191/3- pole WVL OB	25.161.2953.0	100
Mounting rail 35, DIN rail 7,5 mm high L = 2m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, DIN rail 15 mm high L = 2m	35 x 24 x 15 EN 60715	98.360.0000.0	1
End clamp, Polyamide, for TS 35 8 mm wide	9708/2 S 35	Z5.522.8553.0	100
End clamp, Polyamide, for U-Foot 10 mm wide	WE 1/U	Z5.523.5753.0	100
See pages 582–585 for further labelling systems			

Labelling System





Terminal markings, snap-in
Housing markings, snap-in
Marker tags with multiple digits
Individual marker, marker strips, marker branch
Individual labelling possible (numbers, symbols)

Description	Type	Part No.	Box Qty	Type	Part No.	Box Qty
Individual marker, without inscription	3 digit, 9705 A	04.242.0850.0	500	8 digit, 9705 AL	04.242.1553.0	500
Individual marker, with inscription (specify marking required in addition to part number)	3 digit, 9705 AB	04.842.0850.0	500	8 digit, 9705 ALB	04.842.1553.0	500
Marker strips with 5mm pitch:						
Marker strips, unmarked	9705 A/5/10	04.242.5053.0	25			
Marker strips, unmarked, with enlarged text area	9705 AL/5/10	04.242.5153.0	25			
Marker strips, marked (specify marker required in addition to Part no.)	9705 A/5/10 B	04.842.5053.0	25			
Marker strips, marked (marking for strips: 1...9)	9705 A/5/9 B	04.842.4953.0	25			
Note:						
Pack unit = 25 strips = 250 tags						
Marker strips with 10 mm pitch:						
Marker strips, marked (as above, but only every other tag is printed)	9705 A/5/10/5 B	04.842.5553.0	25			
Note:						
Pack unit = 25 strips = 250 tags						
Marker tag holder						
for WEB-Empty housings		04.242.1050.0	200			
Technical data						
Materials	Polyamide 66/6					
Colour	Black numbers on white background					

Labelling System

Snap-in terminal and housing markings
 Marker tags with multiple digits
 Individual marker, marker strips, marker branch
 Individual labelling possible (numbers, symbols)

Materials:
 Polyamide 66/6 white, black printing

Unmarked		Type	Part No.	Box Qty
		9704 A	04.241.1150.0	25
with row of same numbers	marked, per branch			
	1 1 1 1 1 1 1 1 1 1	9704 A/1 B	04.841.1150.0	25
	2 2 2 2 2 2 2 2 2 2	9704 A/2 B	04.841.1250.0	25
	3 3 3 3 3 3 3 3 3 3	9704 A/3 B	04.841.1350.0	25
	4 4 4 4 4 4 4 4 4 4	9704 A/4 B	04.841.1450.0	25
	5 5 5 5 5 5 5 5 5 5	9704 A/5 B	04.841.1550.0	25
	6 6 6 6 6 6 6 6 6 6	9704 A/6 B	04.841.1650.0	25
	7 7 7 7 7 7 7 7 7 7	9704 A/7 B	04.841.1750.0	25
	8 8 8 8 8 8 8 8 8 8	9704 A/8 B	04.841.1850.0	25
	9 9 9 9 9 9 9 9 9 9	9704 A/9 B	04.841.1950.0	25
	0 0 0 0 0 0 0 0 0 0	9704 A/0 B	04.841.2050.0	25
1 set of same numbers = 10 x 25 branches = 2500 numbers				
with numbers in sequence	marked, per branch			
	1 2 3 4 5 6 7 8 9 0	9704 A/1-0 B	04.841.2150.0	25
with row of same letters in upper case	marked, per branch			
	A A A A A A A A A A	9704 A/AG B	04.841.2250.0	25
	B B B B B B B B B B	9704 A/BG B	04.841.2350.0	25
	C C C C C C C C C C	9704 A/CG B	04.841.2450.0	25
	D D D D D D D D D D	9704 A/DG B	04.841.2550.0	25
	E E E E E E E E E E	9704 A/EG B	04.841.2650.0	25
	F F F F F F F F F F	9704 A/FG B	04.841.2750.0	25
	G G G G G G G G G G	9704 A/GG B	04.841.2850.0	25
	H H H H H H H H H H	9704 A/HG B	04.841.2950.0	25
	I I I I I I I I I I	9704 A/IG B	04.841.3050.0	25
	J J J J J J J J J J	9704 A/JG B	04.841.3150.0	25
	K K K K K K K K K K	9704 A/KG B	04.841.3250.0	25
	L L L L L L L L L L	9704 A/LG B	04.841.3350.0	25
	M M M M M M M M M M	9704 A/MG B	04.841.3450.0	25
	N N N N N N N N N N	9704 A/NG B	04.841.3550.0	25
	O O O O O O O O O O	9704 A/OG B	04.841.3650.0	25
	P P P P P P P P P P	9704 A/PG B	04.841.3750.0	25
	Q Q Q Q Q Q Q Q Q Q	9704 A/QG B	04.841.3850.0	25
	R R R R R R R R R R	9704 A/RG B	04.841.3950.0	25
	S S S S S S S S S S	9704 A/SG B	04.841.4050.0	25
	T T T T T T T T T T	9704 A/TG B	04.841.4150.0	25
	U U U U U U U U U U	9704 A/UG B	04.841.4250.0	25
	V V V V V V V V V V	9704 A/VG B	04.841.4350.0	25
	W W W W W W W W W W	9704 A/WG B	04.841.4450.0	25
	X X X X X X X X X X	9704 A/XG B	04.841.4550.0	25
	Y Y Y Y Y Y Y Y Y Y	9704 A/YG B	04.841.4650.0	25
	Z Z Z Z Z Z Z Z Z Z	9704 A/ZG B	04.841.4750.0	2
1 set of upper case letters = 26 x 25 branches = 6500 letters				

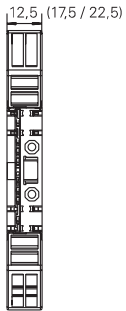
Labelling System

Snap-in terminal and housing markings
Marker tags with multiple digits
Individual marker, marker strips, marker branch
Individual labelling possible (numbers, symbols)

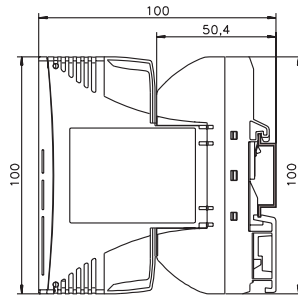
		Type	Part No.	Box Qty
with row of same symbols	marked, per branch			
	+ + + + + + + + + +	9704 A/+B	04.841.7450.0	25
	- - - - - - - - - -	9704 A/-B	04.841.7550.0	25
	/ / / / / / / / / /	9704 A/B	04.841.7650.0	25
	. . . . . . . . . .	9704 A/B	04.841.750.0	25
1 set of same symbols = 10 x 25 branches = 2500 characters				
with row of same letters in lower case	marked, per branch			
	a a a a a a a a a a	9704 A/AK B	04.841.4850.0	25
	b b b b b b b b b b	9704 A/BK B	04.841.4950.0	25
	c c c c c c c c c c	9704 A/CK B	04.841.5050.0	25
	d d d d d d d d d d	9704 A/DK B	04.841.5150.0	25
	e e e e e e e e e e	9704 A/EK B	04.841.5250.0	25
	f f f f f f f f f f	9704 A/FK B	04.841.5350.0	25
	g g g g g g g g g g	9704 A/GK B	04.841.5450.0	25
	h h h h h h h h h h	9704 A/HK B	04.841.5550.0	25
	i i i i i i i i i i	9704 A/IK B	04.841.5650.0	25
	j j j j j j j j j j	9704 A/JK B	04.841.6750.0	25
	k k k k k k k k k k	9704 A/KK B	04.841.6850.0	25
	l l l l l l l l l l	9704 A/LK B	04.841.6950.0	25
	m m m m m m m m m m	9704 A/MK B	04.841.6050.0	25
	n n n n n n n n n n	9704 A/NK B	04.841.6150.0	25
	o o o o o o o o o o	9704 A/OK B	04.841.6250.0	25
	p p p p p p p p p p	9704 A/PK B	04.841.6350.0	25
	q q q q q q q q q q	9704 A/QK B	04.841.6450.0	25
	r r r r r r r r r r	9704 A/RK B	04.841.6550.0	25
	s s s s s s s s s s	9704 A/SK B	04.841.6650.0	25
	t t t t t t t t t t	9704 A/TK B	04.841.6750.0	25
	u u u u u u u u u u	9704 A/UK B	04.841.6850.0	25
	v v v v v v v v v v	9704 A/VK B	04.841.6950.0	25
	w w w w w w w w w w	9704 A/WK B	04.841.7050.0	25
	x x x x x x x x x x	9704 A/XK B	04.841.7150.0	25
	y y y y y y y y y y	9704 A/YK B	04.841.7250.0	25
	z z z z z z z z z z	9704 A/ZK B	04.841.7350.0	25
1 set of lower case letters = 26 x 25 branches = 6500 letters				



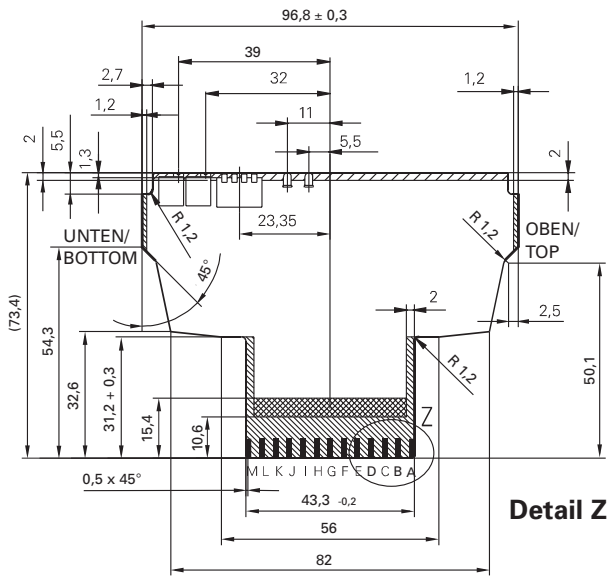
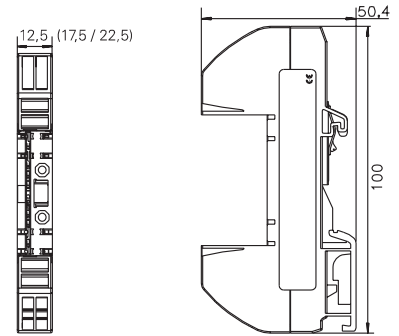
Plan view



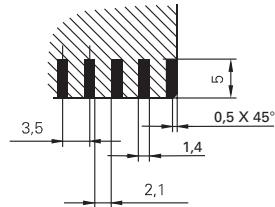
Housing



Module board



Detail Z



Version (mm width)	12.5	17.5	22.5
Component height	7.15	10.35	15.35
Endurance	2.35	4.15	4.15
Max.component height	6.25	8.7	13.7
Max.endurance	1.4	2.7	2.7
Max.component height	1.05	0.95	5.95
Blocking zones			

Note: Contact is made on both sides of the terminal faces. Components that generate heat should always be placed in the vicinity of the ventilation slots (upper section of the PCB)

PCB: FR4

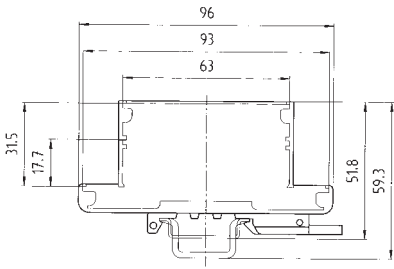
Thickness: 1.0 mm

Copper support: $\geq 35 \mu\text{m}$ ($l \leq 3 \text{ A}$)

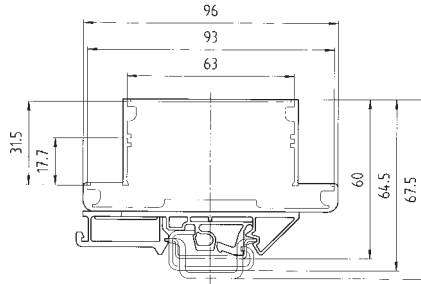
$\geq 70 \mu\text{m}$ ($l > 3 \text{ A}$)



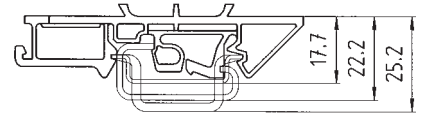
Dimensions for WEB empty housing for sizes 1, 3, 6 and 8 with foot TS 35



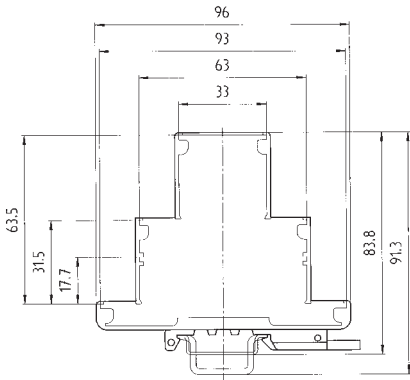
Dimensions for WEB empty housing for sizes 1, 3, 6 and 8 with universal foot



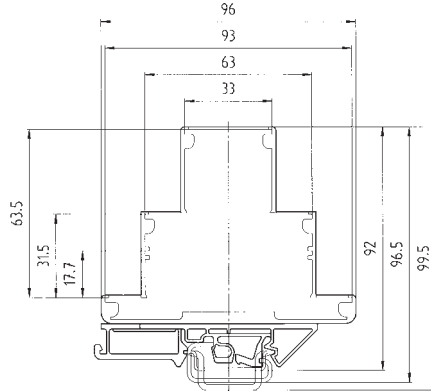
Dimensions of universal foot



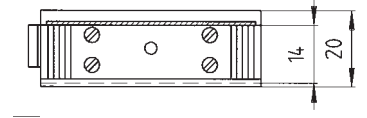
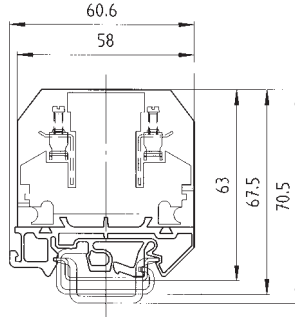
Dimensions for WEB empty housing for sizes 2, 4, 7 and 9 with foot TS 35



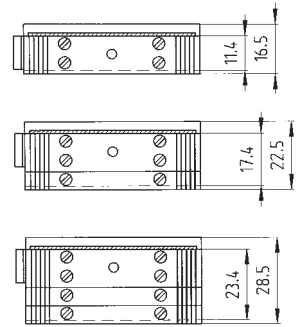
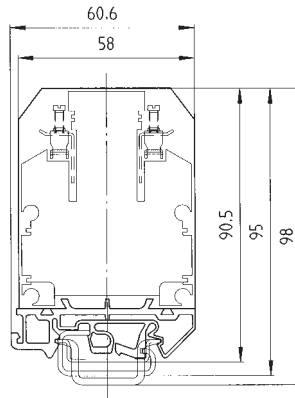
Dimensions for WEB empty housing for sizes 2, 4, 7 and 9 with universal foot



Dimensions of WEG
overall width: 20 mm

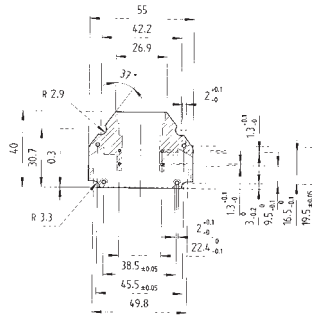


Dimensions of WEG
overall width: 16.5 mm
overall width: 22.5 mm
overall width: 28.5 mm

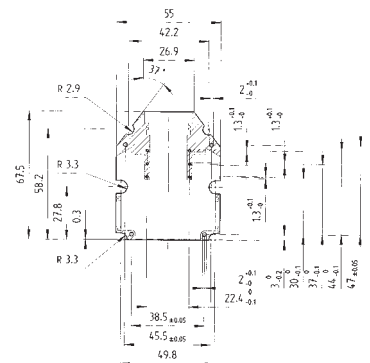


Dimensions of WEG
PCB sizes

Overall depth: 63 mm

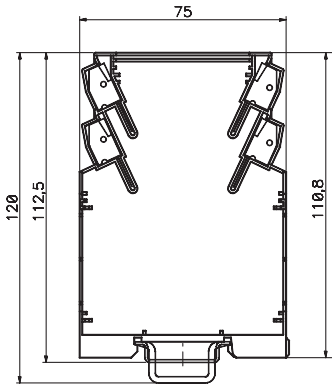


Overall depth: 90.5 mm



wieBox

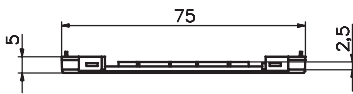
Dimension of *wieBox* housing



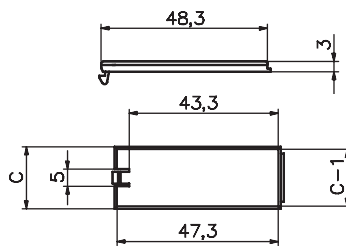
Drawing dimensions

	Dim A	Dim B	Dim C	Dim D
CN 19	19	17	18	18
CN 22	22.5	20.5	21.5	21.5
CN 26	26	24	25	25

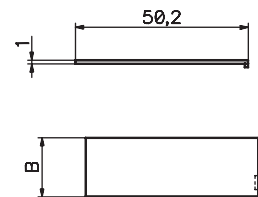
(3/4) Lid



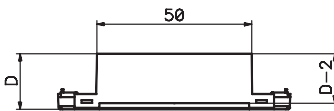
(6/7) Front flap



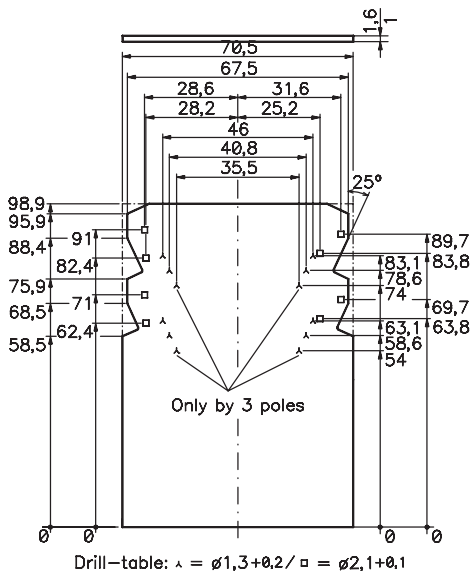
(9) Snap-in plate



(5/8) Lid



Dimensions of *wieBOX* PCB size







Pluggable Electrical Installation System

GST18

The components of the product line GST 18 are certified according to DIN VDE 0628 and are suited for installation of lighting systems, switches and outlets. They are available in 3 pole, 4 pole, 5 pole and 6 pole configurations and are rated up to 250V or 250/400V, 16A.

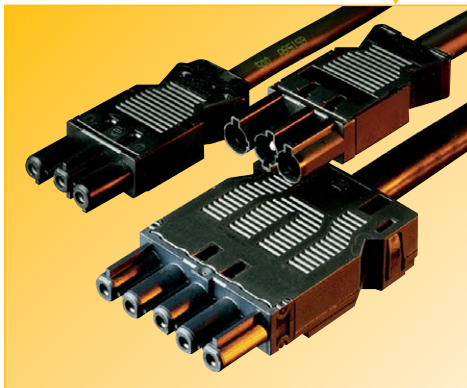
BST / EST

You can choose among three product series for the transmission of 2 pole EIB signals. Depending upon your application, you can select either the BST bus connector or the compact connector of the EST line. Wherever you require both power and signal at the same time, these twin connectors have proven extremely practical. All products of this line are marked with a green EIB coding.

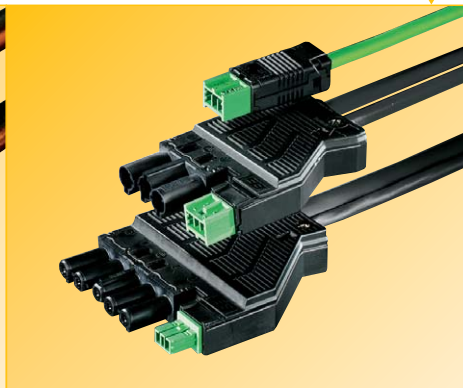
Flat cable systems

The flat cable technology can, without a doubt, be called a revolution in the field of electrical installation. The system is based upon a flat cable which combines five insulated wires for electrical network applications and, in parallel, a 2 pole screened signal line – all in one cable. For applications requiring only one version, we also provide the flat cables separately. Connectivity is

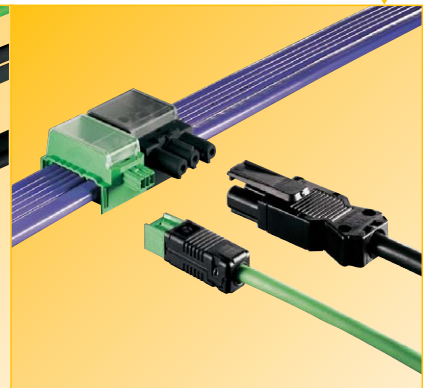
Components in 2 pole, 3 pole, 4 pole, 5 pole and 6 pole configuration



Compact connector for power and signals



Connection to the flexible cable



A special variation – mechanically not compatible of course – allows for the transmission of bus, control or loud-speaker signals.

achieved by means of an insulation piercing connection technique which is possible at any point on the main line. Without having to interrupt the main line, you can add a required branch line by means of plug-in connectors.

Low voltage systems

The **gesis** system also allows for low voltage systems as well. Using pluggable electrical transformers, you can change directly to the two low voltage lines ST16 or ST17.

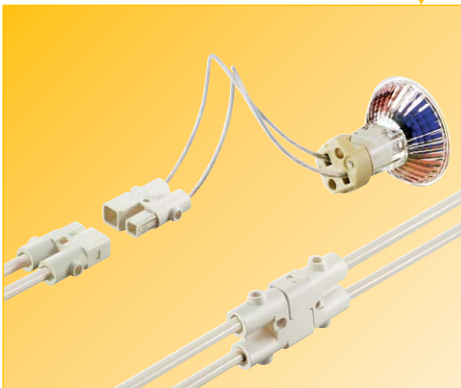
EIB systems

Distributed EIB switching devices can be easily integrated into the installation system as required due to its pluggable design. These EIB switching devices are available in two basic versions: EIB-V, which is characterized by its flat and compact design. And EIB-M, a highly flexible solution which is comprised of individual modules.

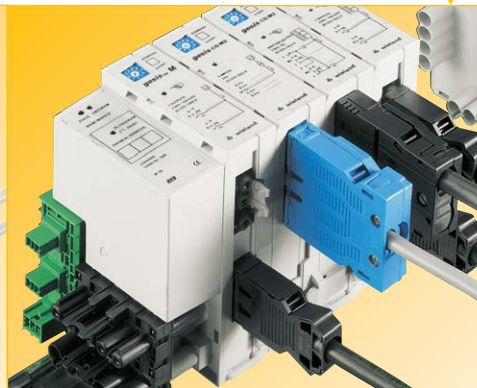
Stacking coordinates

The stacking coordinates provide an individual solution for each application. The coordinates are made of zinc-plated sheet steel and are equipped with TS 35 mounting rails. They accept both terminal blocks and modular devices in any configuration. The **gesis** connector system functions as an interface over the entire network leading to the end devices.

Pluggable low voltage systems



Distributed EIB switching devices can be integrated

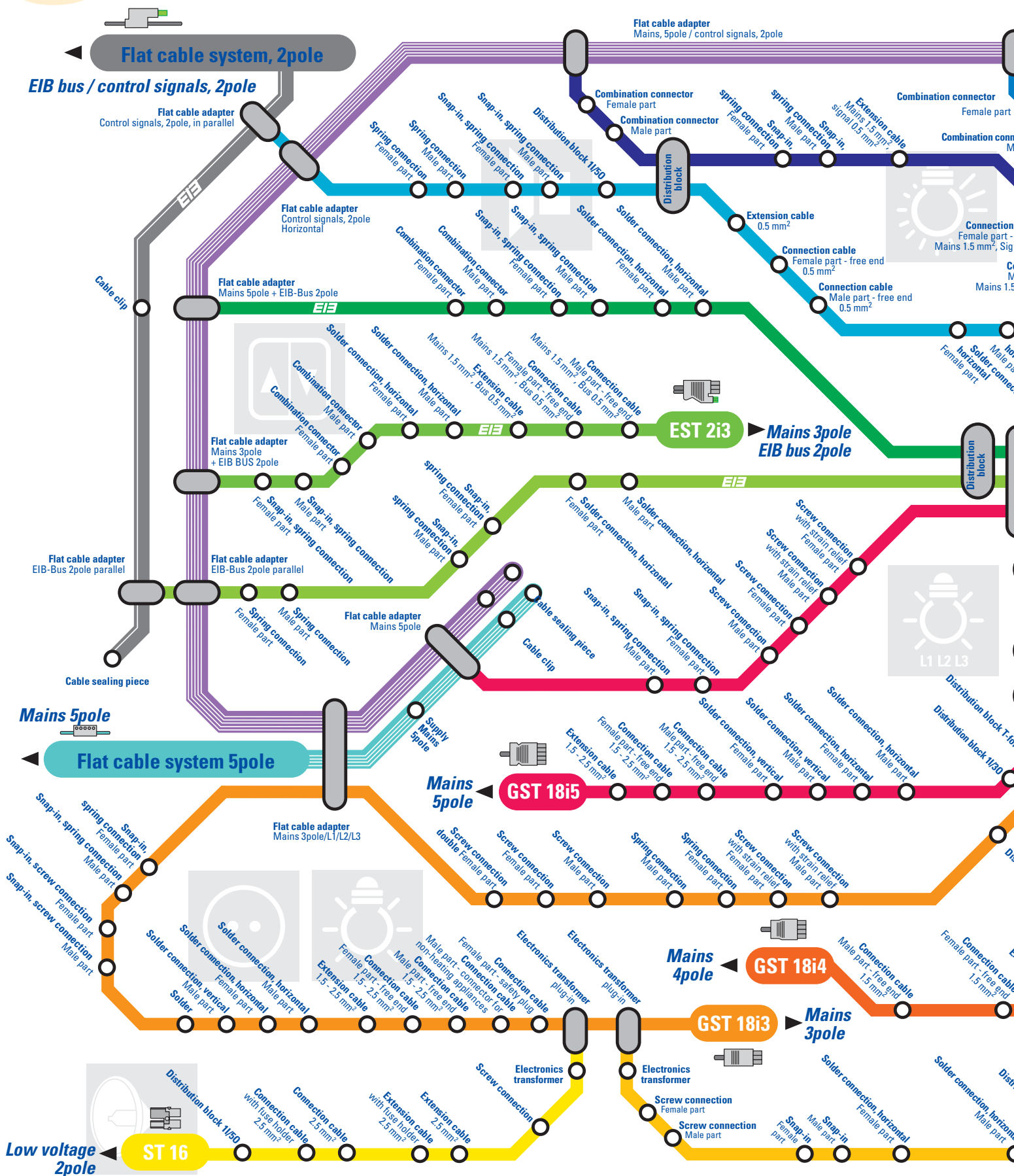


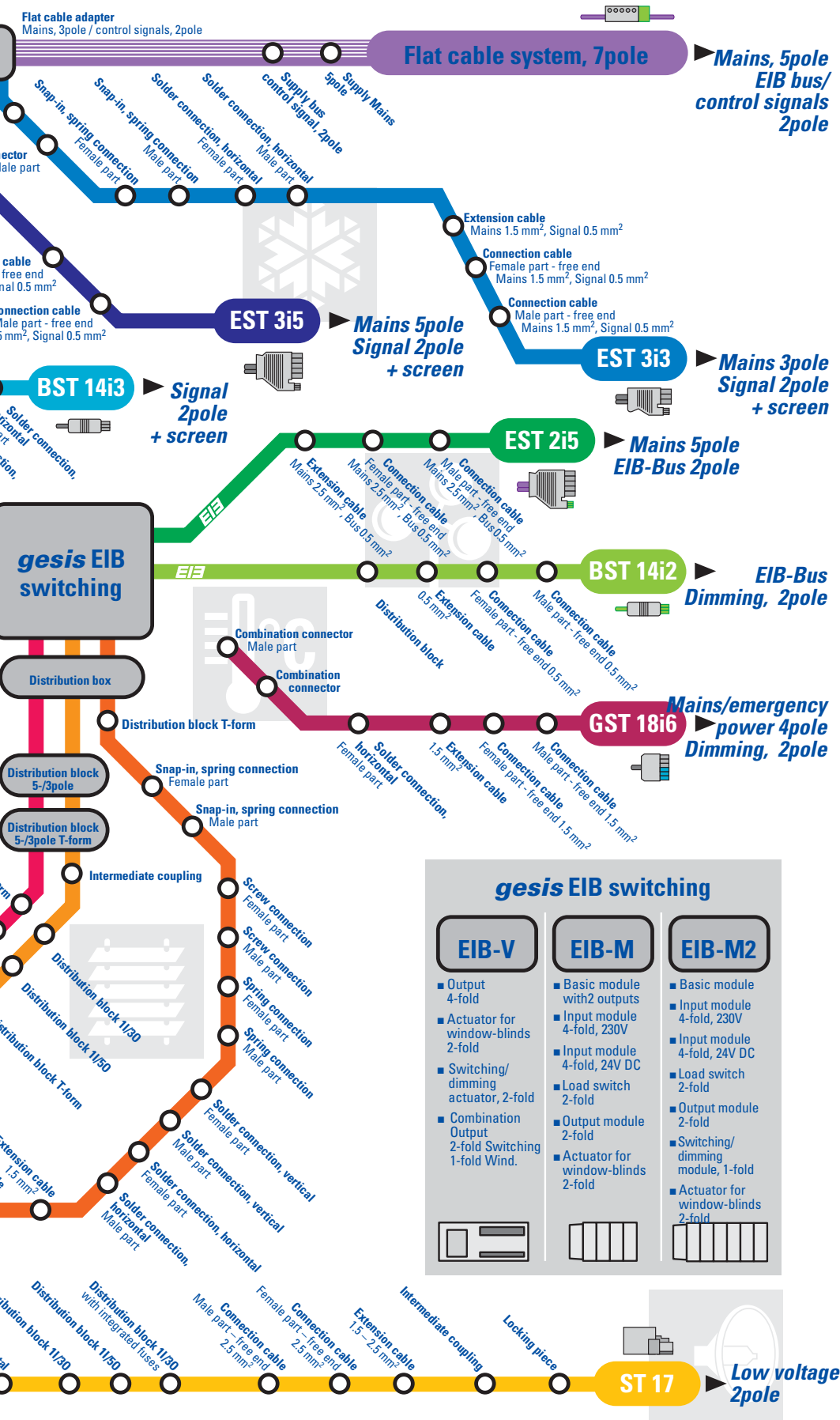
Stacking coordinates



Please contact **Wieland Electric Inc.** for your **gesis** systems catalog.



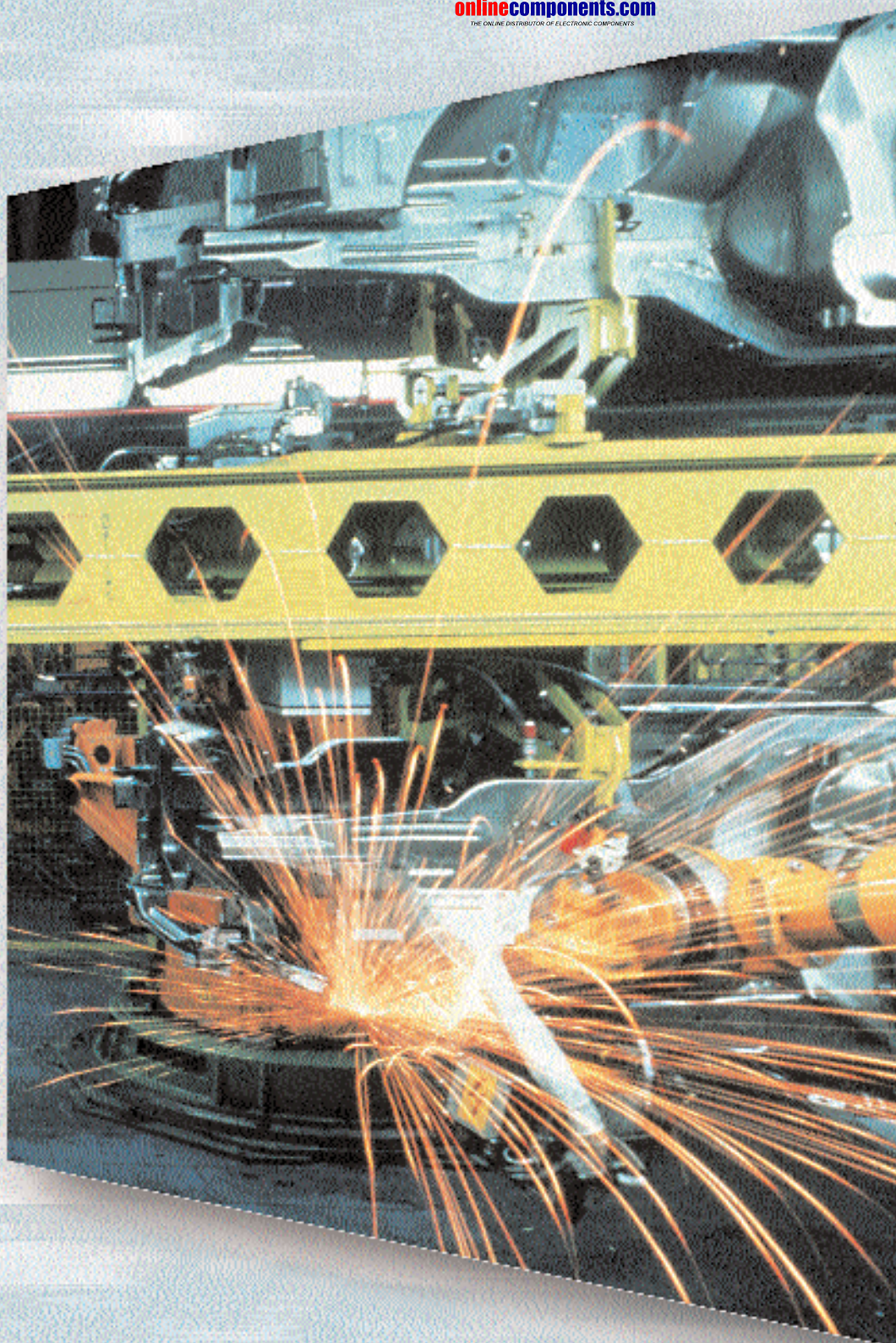


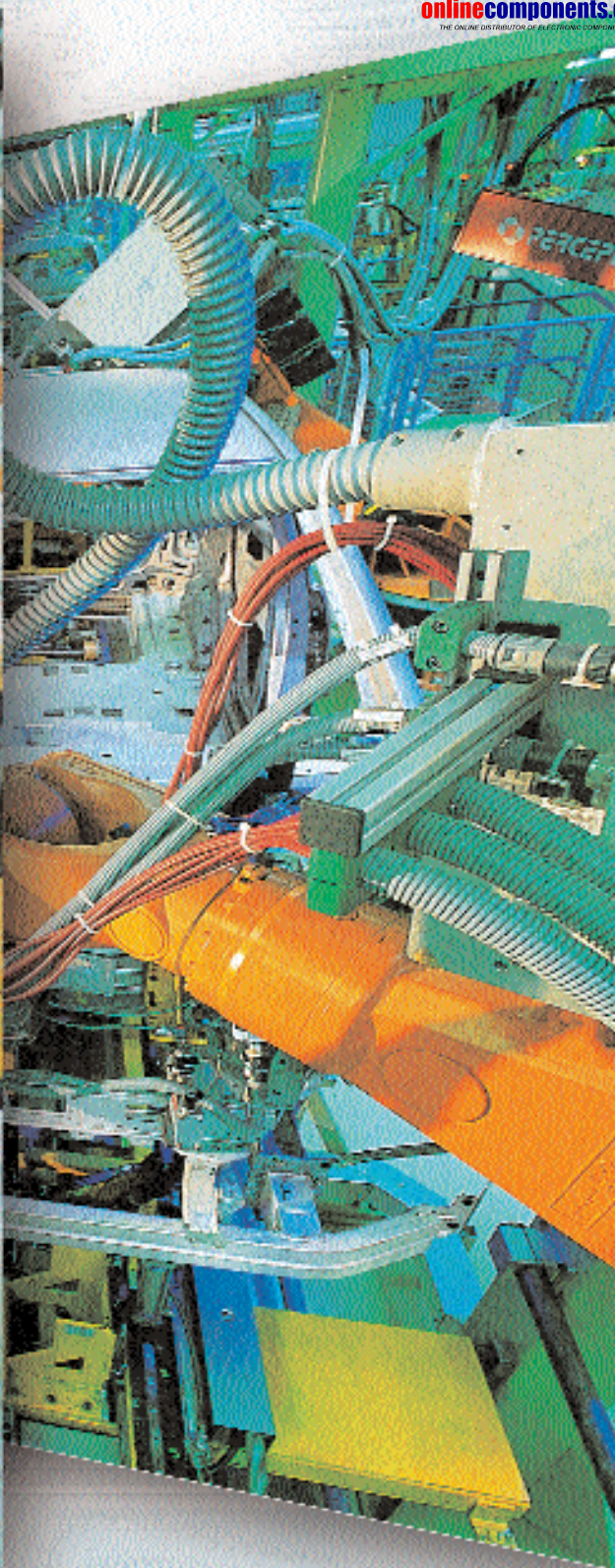


Contents

	GST 18i3 Mains, 3pole	
	GST 18i4 Mains, 4pole	
	GST 18i5 Mains, 5pole	
	GST 18i6 Mains/emergency power supply 4pole Dimming, 2pole	
	BST 14i2 EIB bus Dimming, 2pole	
	EST 2i3 Mains, 3pole EIB bus, 2pole	
	EST 2i5 Mains, 5pole EIB bus, 2pole	
	BST 14i3 Signal, 2pole + screen	
	EST 3i3 Mains, 3pole Signal, 2pole + screen	
	EST 3i5 Mains, 5pole Signal, 2pole + screen	
	Flat cable system, 5pole Mains, 5pole	
	Flat cable system, 2pole EIB bus/control signals, 2pole	
	Flat cable system, 7pole Mains, 5pole EIB bus/control signals, 2pole	
	ST 16 Low voltage, 2pole	
	ST 17 Low voltage, 2pole	
	gesis EIB switching devices EIB-V EIB-M EIB-M2	
	Distributor	
	Accessories	
	Technical information	

gesis





Industrial Multipole Connectors

revos

Series		Rated voltage		Rated current
Introduction	Industrial multipole connectors	VDE	UL/CSA	
revos BASIC	Inserts/hoods and housings	500 V	600 V	16 A
	Multipole adapters	500 V	600 V	16 A
	Inserts/hoods and housings	690 V/400 V	600 V	16 A
	Multipole adapters	500 V	600 V	16 A
	Inserts/hoods and housings	690 V	600 V	16 A
	Multipole adapters	500 V	600 V	16 A
	Multiple multipole connectors	500 V	600 V	16 A
	Sets with 2 components			
	– Multipole adapters	500 V	600 V	16 A
	– Multipole adapters	500 V	600 V	16 A
	– Multipole adapters	690 V/400 V	600 V	16 A
	Sets with 4 components	500 V	600 V	16 A
	Strain relief frames	500 V	600 V	16 A
		690 V	600 V	16 A
		250 V	600 V	10 A
	EMC			
revos POWER		400 V	600 V	35 A
		690 V	600 V	35 A
		690 V/400 V	600 V	82 A
		690 V	600 V	35 A/16 A
		690 V/400 V 400 V/230 V	600 V	40 A/16 A
		690 V/400 V	600 V	100 A/40 A/16 A
		690 V/400 V	600 V	82 A/16 A CSA 70 A/16 A
revos MINI		250 V + 400 V	600 V	10 A
		50 V + 250 V	42 V + 600 V	10 A
revos HD	Inserts/hoods and housings	250 V	600 V	10 A
	Multipole adapters	250 V	600 V	10 A
revos FLEX	Cable to cable couplings	100 V to 1000 V	60 V – 600 V	CSA 5 A – 35 A 5 A to 40 A
revos IT	Data cable feed-through D-SUB			
revos MOT		690 V		16 A
revos SLIDE		250 V		10 A
revos EEx i	Special version	90 V		16 A
revos	Accessories			

revos

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Number of poles + ground	Connection style	
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General

revos

Industrial multipole connectors are specially designed for applications under extreme external conditions. The main areas of application are the automotive industry, machine construction and industrial system building, and I&C technology.

They make the installation of machines and industrial systems easier and help to save time. The units or components can be put to in-house quality checks and make the start-up of industrial systems much easier and faster.

Industrial multipole connectors by Wieland have existed in their proven quality for centuries. Today, they are integrated into new product families:

-  **revos BASIC** the proven robust multipole connectors in a comprehensive and versatile product range
-  **revos POWER** for rated currents higher than 16 A, also available with mixed contacts
-  **revos MINI** our robust small connectors in 3pole through 8pole configurations
-  **revos HD** high-density connector family 15pole through 64pole configurations accord. to DIN EN 175301-801
-  **revos FLEX** modular system for an efficient, intelligent mixture of contacts in industrial multipole connectors
combinations of 4 frame sizes,
5 different inserts,
17 contact variants and 306 hood/housing varieties meet all possible requirements
-  **revos IT** data cable feedthrough – the ideal solution for cable entries into closed-bottom housings. They provide a tight connection with strain relief, without disconnecting
-  **revos MOT** the new generation of multipole connectors with a plastic housing made from UV and salt water resistant Polyamide
easy handling due to the unique locking lever. 10pole version for rated voltages of 690 V AC and rated currents of 16 A
-  **revos SLIDE** the new 24pole multipole connector with floating connections for applications in the control cabinet. Safe and automatic connection for applications with the EX slide-in technique are guaranteed by the available guiding pins.
-  **revos Ex** EEx ia connectors for applications in explosion hazardous areas such as in mining and oil refineries
zone 1 applications are only possible with robust hoods and housings made from zinc die cast aluminum with blue finish

revos class I, Zone 2 multipole kits are available certified to CSA standard C 22.2 182.3, E-79-15-95.



revos



revos



revos BASIC

Areas of application

For most demanding requirements such as in the automotive industry, in machine construction, in industrial system building, and for the I&C technology

Identification

Hoods and housings with silicon-free finish in silver gray (similar to RAL 7001)

Material

die cast aluminum alloy

Locking levers

zinc-plated steel

Cable glands

special cable glands for hoods with strain relief and/or protection against bending



revos MOT- Hoods and housings for demanding environmental conditions

Areas of application

For aggressive environments and extreme climatic conditions in all types of applications

Identification

Hoods and housings in black (RAL 9005)

Material

Polyamide

Locking spring

stainless steel

Cable glands

special cable glands made from plastic material with strain relief and protection against bending



revos BASIC- Hoods and housings for extreme environmental conditions

Areas of application

For electrical interfaces in exterior applications, for extreme climatic conditions or wet zones, and for exterior railway applications

Identification

gray coloring, internal gaskets

Material

corrosion-resistant die cast aluminum alloy

Locking levers

galvanically zinc-plated steel

Cable glands

special cable glands (not part of the standard scope of supply)



revos BASIC - Hoods and housings with high EMI shielding

Areas of application

For all applications in which protection against electric, magnetic or electro-magnetic fields is required for the safety of the industrial system

Identification

conductive surface, silver-plated contact zone

Material

die cast aluminum alloy

Locking levers

zinc-plated steel

Cable glands

EMC cable glands

revos

revos EEx ia

Areas of application

Applications in mining, in machine construction, in control system and switchgear building, especially in intrinsically safe electrical systems

Identification

hoods and housings with light blue finish

Material

die cast aluminum alloy

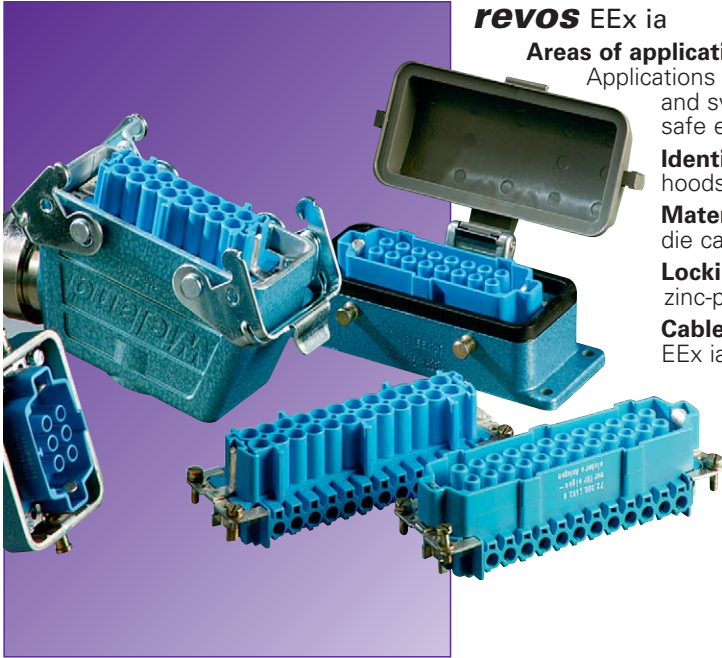
Locking levers

zinc-plated steel

Cable glands

EEx ia cable glands

Please contact us for Class I, Zone 2
Multipole Kits, certified to CSA standard:
C 22.2 182.3, E-79-15-95



revos MINI - small design

Areas of application

Applications in machine construction, in control system and switchgear building, inside of lighting systems and small motors

Identification

plastic: gray
metal: silicon-free finish in gray

Material

thermoplastic material
zinc die cast aluminum alloy

Locking levers

zinc-plated steel

Cable glands

standard cable glands



Female and male connector inserts

revos

- Mounted in the direction of the power flow (female insert is live)
- No mismatching due to the special design of the female and male inserts
- Consecutive numbers both on the contact and on the connection sides
- Mixed contacts possible

with screw connection

- Captive hardware
- Screws are protected against accidental loosening
- Delivered with open clamping body
- Versions with and without wire guard
- Wire guards prevent stranded wires from being damaged
- Due to an integrated screwdriver guide, both electric and pneumatic screwdrivers can be used

with crimp connection

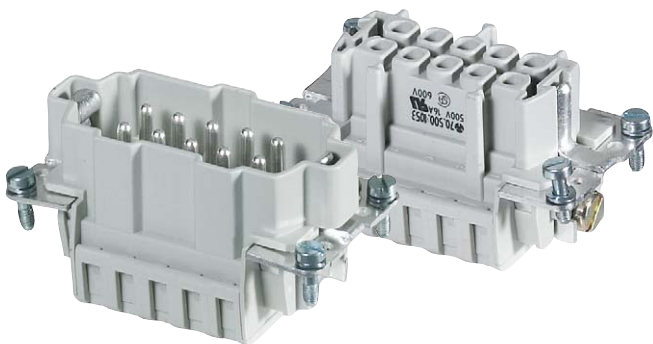
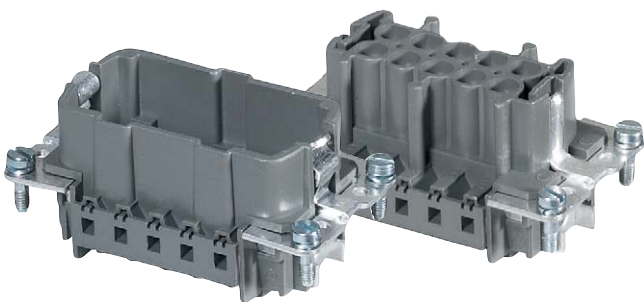
- Corrosion-resistant due to gas-tight connections (cold welding)
- Constant feed through resistance
- Rapid mounting
- Crimp contacts safely latch into the female and male inserts
- Female and male contacts in various cross sections
- The cross sections are represented by ID rings on the contacts:

0.50	mm ²	- ring	20 AWG
0.75 - 1	mm ²	1 ring	18 AWG
1.50	mm ²	2 rings	16 AWG
2.50	mm ²	3 rings	14 AWG
4.00	mm ²	- ring	12 AWG

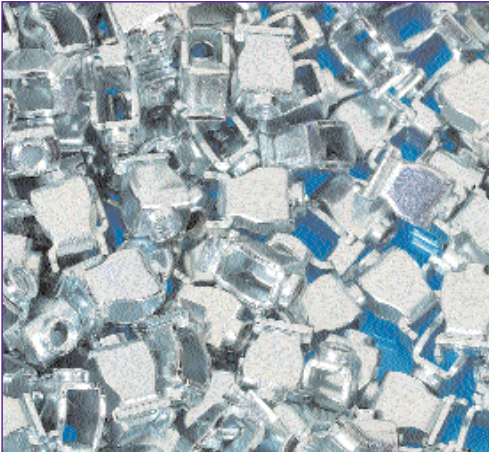
For crimping tools see **facts & DATA**

with spring connection

- Vibration and shock proof connections
- Low feed through resistance
- Connection style: 0.14 - 2.5 mm²
26 - 12 AWG, solid and fine stranded
- High installation comfort due to TOP connections
- Wire entry in parallel to the screwdriver
- Screwdriver blade: 3.5 mm x 0.5 mm
- Plug together with the screw and crimp connectors



revos



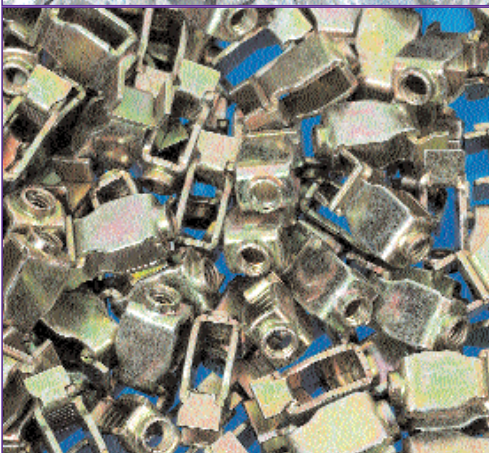
for screw connection

- Contact parts: Brass with surface treatment
- Wire guard: phosphor bronze
- Clamping screws: galvanically refined steel



for crimp connection

- Female and male contacts: brass, galvanic surface treatment



for spring connections

- Spring: refined spring steel
- Current carrying bar: copper alloy, with galvanic surface treatment



for female and male connector inserts

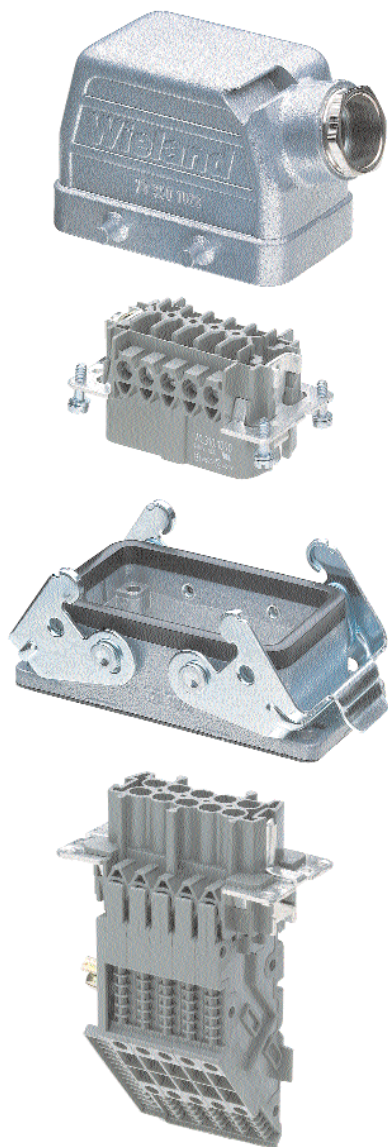
- Insulating parts from fiberglass reinforced Polyamide (for technical information see **facts** & DATA)

for multipole adapters

- Insulating part: Polyamide
Contact parts: tin-plated brass



revos

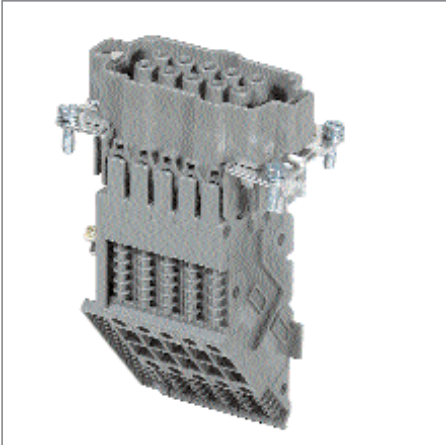


Technical information:

Material:

Hoods and housing:	die cast aluminum alloy
Surface:	silver gray, silicon-free finish
Mounting plates for female and male connector inserts:	nickel-plated brass
Ground contact screw connection:	nickel-plated brass
Male pins and female contacts:	Brass with surface treatment
Clamping screws:	galvanically zinc-plated steel
Locking levers:	galvanically zinc-plated and dichromated steel
Pressure screw:	nickel-plated brass
Pressure screw with strain relief and flared cable entry:	nickel-plated brass
Gaskets:	Neoprene (oil-resistant and anti-aging)
Hinged cover:	Polyamide
Temperature range:	-40° C – +110° C
Insulating parts for:	70.3; 70.5; 70.7; Polyamide, fiberglass reinforced
Multipole adapters:	
Female and male connector inserts:	Polyamide, fiberglass reinforced
Adapter	
Insulating part:	Polyamide
Contact parts:	tin-plated brass
Wire strip length for the multipole adapters:	9 – 12 mm
Degree of protection accord. to DIN 60 529:	IP 55

revos

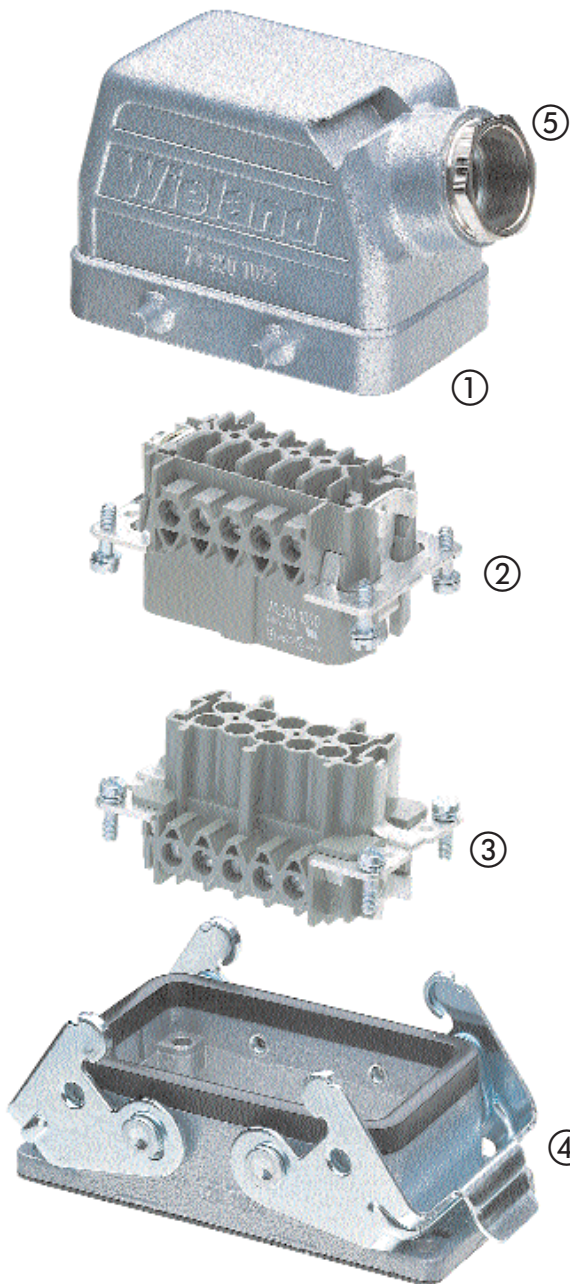


Multipole adapters

- Space-saving connection element for industrial multipole connectors consisting of: connector contact insert with snap-onconnector
- Multipole adapters are available with female or male connector inserts
- Preassembled unit complete with male housing for mounting to the control cabinet wall
- Easy handling:
slide the multipole adapter to the housing
and fix it with screws
- TOP connection design
- Testing possible when connected,
i.e. no power interruption necessary
- Clearly identified and easily accessible
clamping points
- 4digit or 6digit marking fields
- Safe and time-saving wiring
- Reduced control cabinet space due to the
small design
- Potential commoning due to an insulated
jumper bar

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A complete industrial multipole connector consists of the following components:



① **Hood**

- low and high designs
- narrow-side, wide-side and top cable entries
- Single or double locking levers with cable glands
version 7x.xxx.xxxx.0
version 7x.xxx.xxxx.3

② **Female and**

③ **male inserts**

- screw connection
- crimp connection (contacts supplied separately)
- spring connection

④ **Housing**

- open-bottom housing
- with or without plastic cover
- single or double locking lever
- closed-bottom housing
with cable glands
- low or high designs
- one or two locking levers
with cable glands
version 7x.xxx.xxxx.0
- cable to cable coupling

⑤ **Cable gland**

- cable glands in IP 65 made from plastic or nickel plated-brass
- special cable glands with strain relief and protection against bending
- EMC cable gland
- EX cable gland
- Large range of accessories

Accessories

- coding pins
- marking tags

The following versions of multipole connector hoods are available:



Version A

Hood with narrow-side entry cable gland on the right



Version B

Hood with wide-side entry cable gland in the front

revos

Available hoods and housings:

Hoods

- | | |
|---|---------------|
| <input type="checkbox"/> with cable gland, without strain relief | 7x.xxx.xxxx.0 |
| <input type="checkbox"/> with metric thread | 7x.xxx.xxxx.1 |
| <input type="checkbox"/> with integrally cast or screwed in metric intermediate support | 7x.xxx.xxxx.2 |
| <input type="checkbox"/> with strain relief | 7x.xxx.xxxx.3 |



7x.xxx.xxxx.0



7x.xxx.xxxx.1



7x.xxx.xxxx.2



7x.xxx.xxxx.3

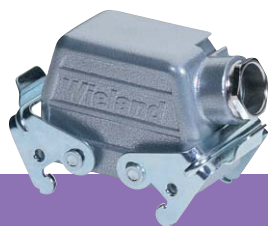
The cable glands are delivered together with sealing gaskets. The gaskets have different cuts for the various cable diameters and can be cut out as required.

By using the suited cable glands (see the accessories) you will achieve IP 65 degree of protection.



Version C

Hood with top entry cable gland



Version D

Hood with narrow-side entry cable gland on the right and locking levers



Version E

Hood with wide-side entry cable gland in the front and locking levers



Version F

Hood with top entry cable gland and locking levers

revos

Housings

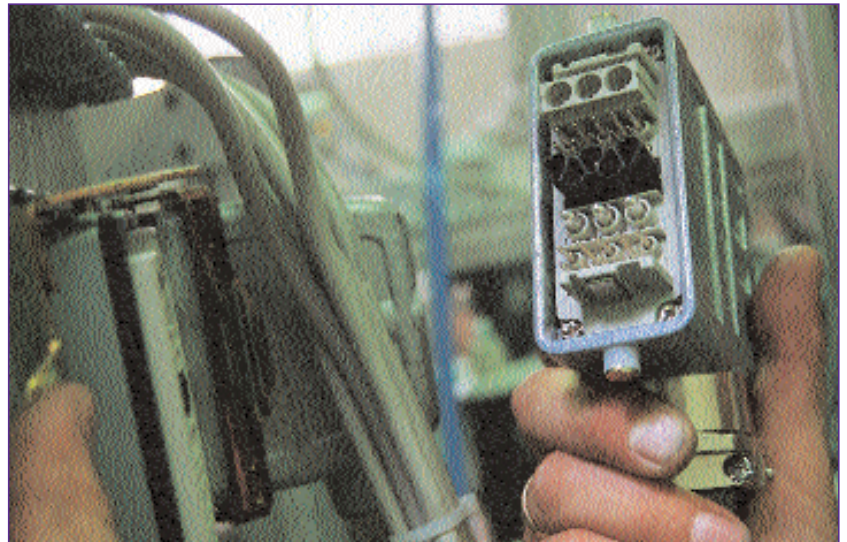
- open-bottom design (versions a and e)
- closed-bottom design (versions b, c, d, f, g, h and i)

Open-bottom housings

These housings are open at the bottom for panel mounting. They are equipped with two gaskets.

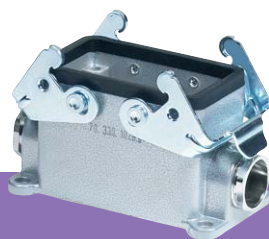
- one gasket at the bottom
- another gasket between housing and hood

The main area of application is the connection of control and line signals to the control cabinet. The mating hood is mounted to the housing on the control cabinet wall.



Version a

Open-bottom housing



Version b

Closed-bottom housing with two cable glands



Version c

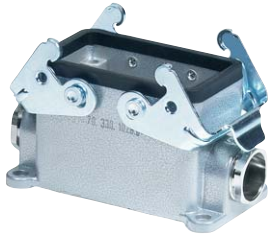
Closed-bottom housing with one narrow-side entry cable gland at the left



Version d

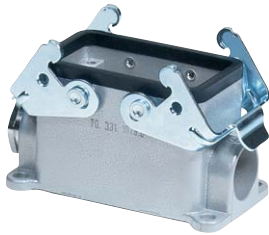
Closed-bottom housing with one bottom entry cable gland

revos



Closed-bottom housings

- with metric cable gland, without strain relief
7x.xxx.xxxx.0



- with metric thread
7x.xxx.xxxx.1

These housings usually have one or two cable entries. They are sealed by means of an appropriate cable gland. Additionally, the cable glands function as reliable strain reliefs for the clamping points.



Version e

Open-bottom housing with protective cover



Version f

Closed-bottom housing with protective cover and two cable glands



Version g

Closed-bottom housing with protective cover and one narrow-side entry cable gland at the left



Version h

Closed-bottom housing with protective cover and one narrow-side entry cable gland at the right



Version i

Closed-bottom housing with protective cover and one bottom entry cable gland

Information on how to changeover from Pg to metric threads

on components.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

revos BASIC

**Pg threads
are available
upon request!**

1. Basic legal conditions

The European standard EN 50 262 "Metric Cable Glands for Electrical Installation" was ratified on April 01, 1989 by CENELEC (European Committee for Electrotechnical Standardization) and put into force.

A corresponding German standard DIN EN 50 262 published in March 1999 will then replace the national standards: VDE security standard 0619 quoting standards DIN 46 319 and DIN 46 320, with a transition period until March 01, 2001.

EN 50 262 is valid in all EC countries and countries not belonging to the EC and cooperating in CENELEC will accept the standard.

The big difference in the new EN standard is its character as a security standard. As a building standard it only defines the metric thread and its lead.

2. Effects of the change

The changeover will affect all manufacturers of cable glands, cable entries and housings for rectangular connectors.

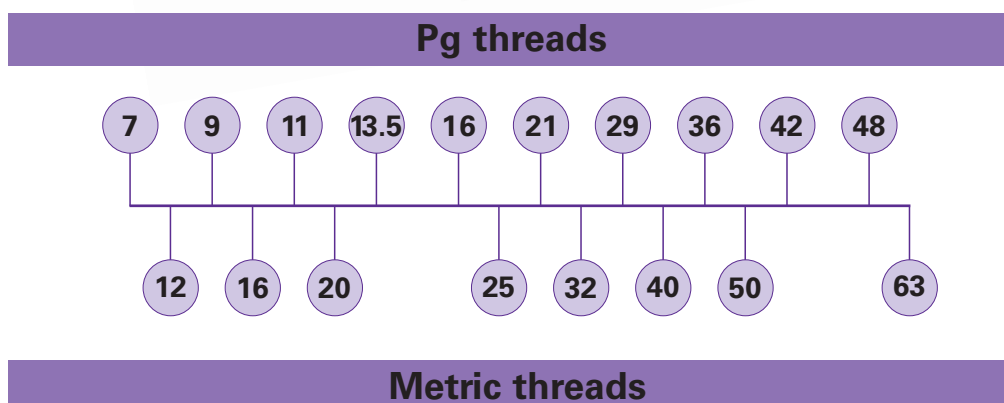
The ten Pg sizes :

Pg 7 / 9 / 11 / 13.5 / 16 / 21 / 29 / 36 / 42 and 48

are replaced by eight metric sizes :

M 12 / 16 / 20 / 25 / 32 / 40 / 50 and 63

3. Comparison of the Pg/metric cable gland sizes



4. Assigning the Pg/metric cable glands

As the ten Pg sizes are replaced by eight metric threads, the users have to reassign the connection ranges of the cables to the thread sizes and housings.

The cable gland manufacturers have different assignments because the new standard is not a construction standard and does not specify any standardization.

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5. Conversion

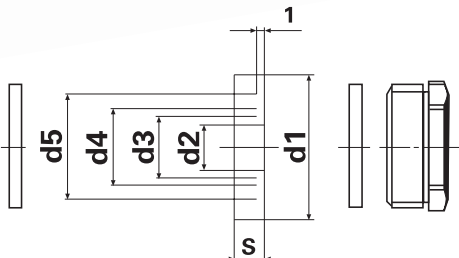
5.1 Comparison between Pg thread and metric thread

Pg thread	Metric thread	Preferred types
Pg 7	M 12	
Pg 9	M 16	
Pg 11	M 20	X
Pg 13.5	M 20	X
Pg 16	M 20	X
Pg 21	M 25	X
Pg 29	M 32	X
Pg 36	M 40	
Pg 42	M 50	

Hoods of the revos BASIC series with Pg thread 13.5 and 16 are also available with M 25, while PG thread 21 is also available with M 32 thread.

If you require the Pg 16 and 24 housings in M 32, you will have to use the housings of high design.

5.2 Connection range for housing versions 7x.xxx.xxxx.0



For more information visit us on the internet under www.wieland-electric.com

Please see the following table for the connection ranges of cable glands without strain relief:

Metric thread	d1	d2	Connection range in mm	d3	Connection range in mm	d4	Connection range in mm	d5	Connection range in mm
M 16	13.8	3	2 – 4.5	6	5 – 7.5	9	8 – 10.5		
M 20	17.6	4	3 – 5.5	7	6 – 8.5	10	9 – 11.5	13	12 – 14.5
M 25	22.6	8.5	7.5 – 10	11.5	10.5 – 13	14.5	13.5 – 16	17.5	16.5 – 19
M 32	29.6	16	15 – 17.5	19	18 – 20.5	22	21 – 23.5	25	24 – 26.5

5.3 Connection ranges for housing versions with flared gland 7x.xxx.xxxx.3

Metric thread	Connection range in mm
M 16	6 – 9
M 20	9 – 13.5
M 25	14 – 20
M 32	19 – 29

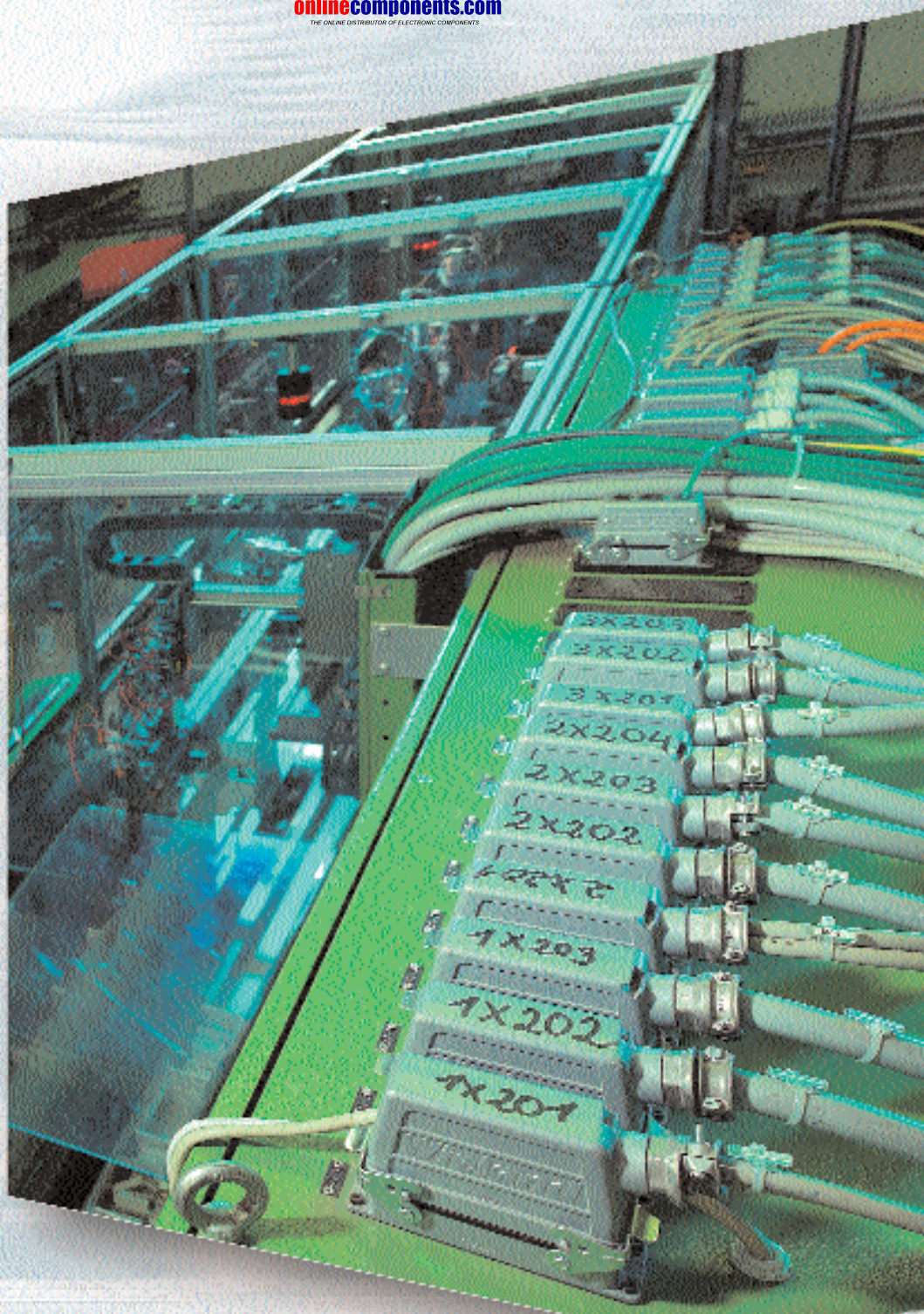
Information on hazardous location approval :
Class I, Zone 2 Multipole Kits are available certified to CSA standard C22.2 182.3, E-79-15-95.

Please contact us to discuss your applications.

revos BASIC

Technical information

■ Approvals	UL, CSA, SEV
■ Applicable standards	IEC 61 984
■ Contact inserts	
Rated current	16 A
Rated voltage	500 V
Nominal voltage accord. to UL	600 V
Nominal voltage accord. to CSA	600 V
Pole configurations	6, 10, 16, 24, 32 (2x16), 48 (2x24), + ground
Screw connection	0.5 – 2.5 mm ² / 20 – 12 AWG
Crimp connection	0.5 – 4.0 mm ² / 20 – 12 AWG
Spring connection	0.14 – 2.5 mm ² / 26 – 12 AWG
Degree of pollution	3
Temperature range	–40 to +110 °C
■ Multipole adapter	
Rated current	16 A
Rated voltage	500 V
Nominal voltage accord. to UL	600 V
Nominal voltage accord. to CSA	600 V
Pole configurations	6, 10, 16, 24, + ground
Screw connection	0.5 – 4.0 mm ² / 20 – 12 AWG
Spring connection	0.5 – 2.5 mm ² / 20 – 12 AWG
Degree of pollution	3
Temperature range	–40 to +110 °C
■ Contacts	
Material	copper alloy
Surface (screw, crimp, multipole adapter contacts)	tin-plated
Surface (crimp, screw contacts)	gold-plated
Surface (crimp, spring contacts)	silver-plated
■ Hoods and housings	
Material	die cast aluminum alloy
Surface	silver gray, silicon-free finish
Locking levers	zinc-plated steel
Gaskets	NBR
Temperature range	–40 to +110 °C
Degree of protection accord. to DIN EN 60 529	
with latched locking levers	IP 55
with appropriate cable gland	IP 65



Industrial Multipole Connectors

Industrial Multipole Connectors revos www.revocomponents.com THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS Female/male inserts and multipole adapter **revos BASIC**



500 V, 16 A IEC 61 984 **600 V** UL/CSA

		Rated current	Cross section	Approvals	Wire strip length	Contacts	Std. pack
 Screw connection	Female insert	16 A	0.25 – 2.5 mm ² 22 – 12 AWG		7 mm	tin-plated	10
					7 mm	gold-plated	5
	Male insert	16 A	0.25 – 2.5 mm ² 22 – 12 AWG		7 mm	tin-plated	10
					7 mm	gold-plated	5
 Crimp connection	Female insert without crimp contacts	16 A	0.5 – 4.0 mm ² 20 – 12 AWG		7 mm	tin-plated	10
							5
	Male insert without crimp contacts	16 A	0.5 – 4.0 mm ² 20 – 12 AWG		7 mm	tin-plated	10
							5
 Spring connection	Female insert 500 V / IEC 61 989	16 A	0.14 – 2.5 mm ² 26 – 12 AWG		7 mm	silver-plated	10
							5
	Male insert 500 V / IEC 61 989	16 A	0.14 – 2.5 mm ² 26 – 12 AWG		7 mm	silver-plated	10
							5
 Screw connection Multipole adapter long design (6 marking fields)	Female insert, ground right	16 A	0.5 – 4.0 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Female insert, ground left	16 A	0.5 – 4.0 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground right	16 A	0.5 – 4.0 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground left	16 A	0.5 – 4.0 mm ² 20 – 12 AWG		12 mm	tin-plated	10
 Screw connection Multipole adapter short design (4 marking fields)	Female insert, ground right	16 A	0.5 – 4.0 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Female insert, ground left	16 A	0.5 – 4.0 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground right	16 A	0.5 – 4.0 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground left	16 A	0.5 – 4.0 mm ² 20 – 12 AWG		12 mm	tin-plated	10
 Spring connection Multipole adapter short design (6 marking fields)	Female insert, ground right	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10
	Female insert, ground left	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10
	Male insert, ground right	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10
	Male insert, ground left	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10

revos

Contacts for crimp version

Female contacts



Male contacts



Crimping tool
Crimping die „B“
Contact positioner „3“
Extraction tool

Cross section mm ²	Part no.	Std. pack	Cross section mm ²	Part no.	Std. pack
	tin-plated			gold-plated	
0.5	20 AWG 02.123.7021.0	200	0.5	20 AWG 02.123.7001.0	
0.75 - 1	18 AWG 02.123.7121.0	200	0.75 - 1	18 AWG 02.123.7101.0	
1.5	16 AWG 02.123.7221.0	200	1.5	16 AWG 02.123.7201.0	200
2.5	14 AWG 02.123.7321.0	200	2.5	14 AWG 02.123.7301.0	
4	12 AWG 02.123.7421.0	200	4	12 AWG 02.123.7401.0	
0.5	20 AWG 05.543.7021.0	200	0.5	20 AWG 05.543.7001.0	
0.75 - 1	18 AWG 05.543.7121.0	200	0.75 - 1	18 AWG 05.543.7101.0	
1.5	16 AWG 05.543.7221.0	200	1.5	16 AWG 05.543.7201.0	200
2.5	14 AWG 05.543.7321.0	200	2.5	14 AWG 05.543.7301.0	
4	12 AWG 05.543.7421.0	200	4	12 AWG 05.543.7401.0	
	95.101.0800.0	1		silver-plated upon request	
	05.502.2100.0	1			
	05.502.3300.0	1			
	05.502.3500.0	1			

6pole + ground	10pole + ground	16pole + ground	24pole + ground	32pole + ground	48pole + ground
				2 insert 1 - 16 poles 17 - 32 poles	2 inserts 1 - 24 poles 25 - 48 poles
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.300.0640.0	70.300.1040.0	70.300.1640.0	70.300.2440.0		
70.301.0640.0	70.301.1040.0	70.301.1640.0	70.301.2440.0	70.300.3253.0	70.300.4840.0
70.310.0640.0	70.310.1040.0	70.310.1640.0	70.310.2440.0		
70.311.0640.0	70.311.1040.0	70.311.1640.0	70.311.2440.0	70.310.3253.0	70.310.4840.0
70.700.0658.0	70.700.1058.0	70.700.1658.0	70.700.2458.0		
				70.700.3253.0	70.700.4858.0
70.710.0658.0	70.710.1058.0	70.710.1658.0	70.710.2458.0		
				70.710.3253.0	70.710.4858.0
70.500.0653.0	70.500.1053.0	70.500.1653.0	70.500.2453.0		
				70.500.3253.0	70.500.4853.0
70.510.0653.0	70.510.1053.0	70.510.1653.0	70.510.2453.0		
				70.510.3253.0	70.510.4853.0
70.105.0653.3	70.105.1053.3	70.105.1653.3	70.105.2453.3		
70.100.0653.3	70.100.1053.3	70.100.1653.3	70.100.2453.3		
70.115.0653.3	70.115.1053.3	70.115.1653.3	70.115.2453.3		
70.110.0653.3	70.110.1053.3	70.110.1653.3	70.110.2453.3		
70.105.0653.4	70.105.1053.4	70.105.1653.4	70.105.2453.4		
70.100.0653.4	70.100.1053.4	70.100.1653.4	70.100.2453.4		
70.115.0653.4	70.115.1053.4	70.115.1653.4	70.115.2453.4		
70.110.0653.4	70.110.1053.4	70.110.1653.4	70.110.2453.4		
70.106.0653.0	70.106.1053.0	70.106.1653.0	70.106.2453.0		
70.101.0653.0	70.101.1053.0	70.101.1653.0	70.101.2453.0		
70.116.0653.0	70.116.1053.0	70.116.1653.0	70.116.2453.0		
70.111.0653.0	70.111.1053.0	70.111.1653.0	70.111.2453.0		

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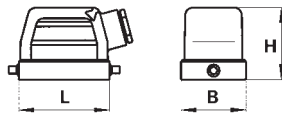
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Hoods with a single locking lever

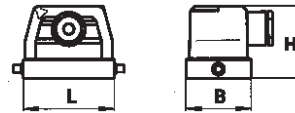
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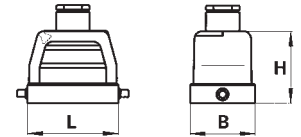
Hood type A



Hood type B



Hood type C



Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA

For inserts: **500 V** IEC 61 984

Number of poles	Thread	Gland type	Dimensions in mm	L	W	H	Std. pack
Size 6 for connector 6pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		60	43	47.5	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		60	43	47.5	1
Size 10 for connector 10pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
Size 16 for connector 16pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
Size 24 for connector 24pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
Size 48 for connector 48pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		132	90	107	1
	M 40	1 with threaded collar 2 with intermediate support		132	90	107	1

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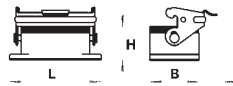
Hood Hood type A	Hood (not suited for female/male inserts with spring connection) for 24pole = 2 x M 25 Hood type B	Hood Hood type C
		
Part no.	Part no.	Part no.
70.350.0635.0 70.350.0635.1 70.350.0635.2 70.350.0635.3	70.351.0635.0 70.351.0635.1 70.351.0635.2 70.351.0635.3	70.352.0635.0 70.352.0635.1 70.352.0635.2 70.352.0635.3
70.353.0635.0 70.353.0635.1 70.353.0635.2 70.353.0635.3		70.354.0635.0 70.354.0635.1 70.354.0635.2 70.354.0635.3
71.350.1035.0 71.350.1035.1 71.350.1035.2 71.350.1035.3	71.351.1035.0 71.351.1035.1 71.351.1035.2 71.351.1035.3	71.352.1035.0 71.352.1035.1 71.352.1035.2 71.352.1035.3
71.353.1035.0 71.353.1035.1 71.353.1035.2 71.353.1035.3		71.354.1035.0 71.354.1035.1 71.354.1035.2 71.354.1035.3
71.350.1635.0 71.350.1635.1 71.350.1635.2 71.350.1635.3	71.351.1635.0 71.351.1635.1 71.351.1635.2 71.351.1635.3	71.352.1635.0 71.352.1635.1 71.352.1635.2 71.352.1635.3
71.353.1635.0 71.353.1635.1 71.353.1635.2 71.353.1635.3		71.354.1635.0 71.354.1635.1 71.354.1635.2 71.354.1635.3
71.350.2435.0 71.350.2435.1 71.350.2435.2 71.350.2435.3	71.351.2435.0 71.351.2435.1 71.351.2435.2 71.351.2435.3	71.352.2435.0 71.352.2435.1 71.352.2435.2 71.352.2435.3
71.353.2435.0 71.353.2435.1 71.353.2435.2 71.353.2435.3		71.354.2435.0 71.354.2435.1 71.354.2435.2 71.354.2435.3
70.350.4835.0 70.350.4835.1 70.350.4835.2 70.350.4835.3		70.352.4835.0 70.352.4835.1 70.352.4835.2 70.352.4835.3
70.353.4835.1 70.353.4835.2		70.354.4835.1 70.354.4835.2

Industrial Multipole Connectors revo **components.com** Housings with a single locking lever

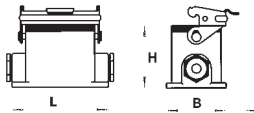
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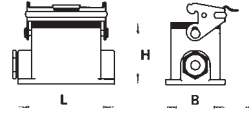
Housing type a



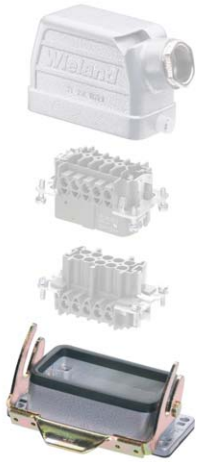
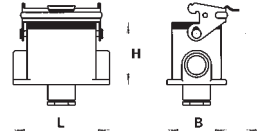
Housing type b



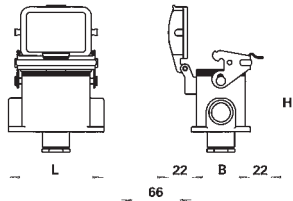
Housing type c



Housing type d



Housing type i



Housing open bottom

Housing type a



Housing closed bottom with two cable glands

Housing type b



Housing closed bottom with one cable gland on the left

Housing type c



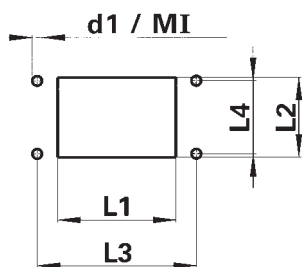
Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA

For inserts: **500 V** IEC 61 984

Number of poles	Thread	Gland type	L	W	H	Std. pack	Part no.	Part no.	Part no.
Size 6 for connector 6pole + ground	M 20	0 with cable gland	80	43	28	1	70.320.0628.0	70.330.0635.0	70.331.0635.0
		1 with threaded collar	84	52	54.5	1			
		1 with threaded collar	84	52	54.5	1			
Size 10 for connector 10pole + ground	M 20	0 with cable gland	93	43	28	1	71.320.1028.0	71.330.1035.0	71.331.1035.0
		1 with threaded collar	94	52	54.5	1			
		1 with threaded collar	94	52	54.5	1			
Size 16 for connector 16pole + ground	M 25	0 with cable gland	113	43	28	1	71.320.1628.0	71.330.1635.0	71.331.1635.0
		1 with threaded collar	117	52	56.5	1			
		1 with threaded collar	117	52	56.5	1			
Size 16 high design for connector 16pole + ground	M 32	0 with cable gland	117	52	76.5	1	71.320.1628.0	76.334.4035.0	76.335.4035.0
		1 with threaded collar	117	52	76.5	1			
		1 with threaded collar	117	52	76.5	1			
Size 24 for connector 24pole + ground	M 25	0 with cable gland	140	43	28	1	71.320.2428.0	71.330.2435.0	71.331.2435.0
		1 with threaded collar	144	52	56.5	1			
		1 with threaded collar	144	52	56.5	1			
Size 24 high design for connector, 24pole + ground	M 32	0 with cable gland	144	52	76.5	1	71.320.2428.0	76.334.6435.0	76.335.6435.0
		1 with threaded collar	144	52	76.5	1			
		1 with threaded collar	144	52	76.5	1			
Size 48 for connector 48pole + ground	M 32	0 with cable gland	124	84	35	1	70.320.4828.0		70.331.4835.0
		1 with threaded collar	146	120	99	1			
		3 with strain relief	146	120	99	1			
		3 with strain relief	146	120	99	1			
	M 40	1 with threaded collar	146	120	99	1			70.331.4835.1

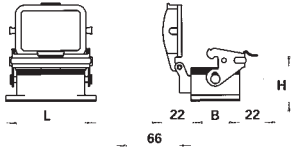


Mounting dimensions for open bottom housings

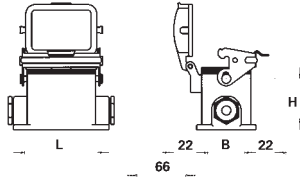
Housing size	Cut-out (mm)		Mounting holes (mm)		d1 (mm)	MI
	L1	L2	L3	L4		
6	52	35	70	32	4.3	M 4
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
48	117	81	148	70	6.4	M 6

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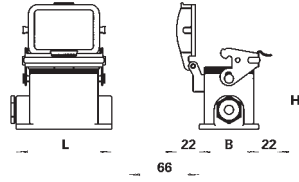
Housing type e



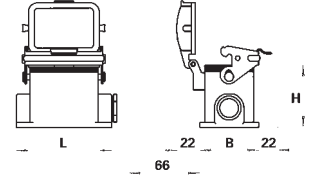
Housing type f



Housing type g



Housing type h



Housing closed bottom with cable gland at the bottom

Housing type d



Housing open bottom with protective cover

Housing type e



Housing closed bottom with two cable glands and protective cover

Housing type f



Housing closed bottom with cable gland on the left and protective cover

Housing type g



Housing closed bottom with cable gland on the right and protective cover

Housing type h



Housing closed bottom with cable gland at the bottom and protective cover

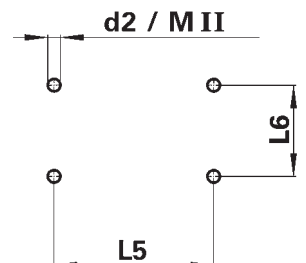
Housing type i



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.333.0635.0 70.333.0635.1	70.325.0628.0	70.340.0635.0 70.340.0635.1	70.341.0635.0 70.341.0635.1	70.342.0635.0 70.342.0635.1	70.343.0635.0 70.343.0635.1
71.333.1035.0 71.333.1035.1	71.325.1028.0	71.340.1035.0 71.340.1035.1	71.341.1035.0 71.341.1035.1	71.342.1035.0 71.342.1035.1	71.343.1035.0 71.343.1035.1
71.333.1635.0 71.333.1635.1	71.325.1628.0	71.340.1635.0 71.340.1635.1	71.341.1635.0 71.341.1635.1	71.342.1635.0 71.342.1635.1	71.343.1635.0 71.343.1635.1
76.337.4035.0 76.337.4035.1		76.344.4035.0 76.344.4035.1	76.345.4035.0 76.345.4035.1	76.346.4035.0 76.346.4035.1	76.347.4035.0 76.347.4035.1
71.333.2435.0 71.333.2435.1	71.325.2428.0	71.340.2435.0 71.340.2435.1	71.341.2435.0 71.341.2435.1	71.342.2435.0 71.342.2435.1	71.343.2435.0 71.343.2435.1
76.337.6435.0 76.337.6435.1		76.344.6435.0 76.344.6435.1	76.345.6435.0 76.345.6435.1	76.346.6435.0 76.346.6435.1	76.347.6435.0 76.347.6435.1
	70.325.4828.0		70.341.4835.1 70.341.4835.3 70.344.4835.1		

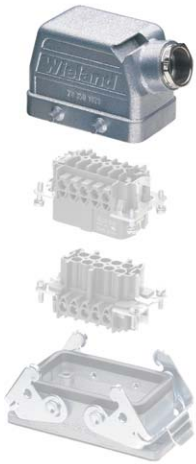
Housing size	L5 (mm)	L6 (mm)	d2 (mm)	MII
6	70	40	5.5	M 5
10	82	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5
48	111	106	6.5	M 6

Mounting dimensions for closed-bottom housings

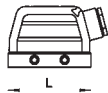


Industrial Multipole Connectors revo **components.com** Hoods with double locking levers

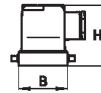
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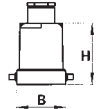
Hood type A



Hood type B



Hood type C



Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

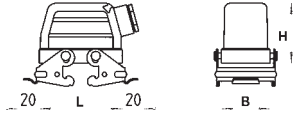
For inserts: **600 V** UL/CSA

For inserts: **500 V** IEC 61 984

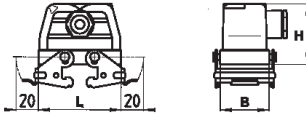
Number of poles	Thread	Gland type	Dimensions in mm	L	W	H	Std. pack
Size 10 for connector 10pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
Size 16 for connector 16pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
Size 24 for connector 24pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
Size 32 for connector 32pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	82.5	94	1
	M 40	1 with threaded collar 2 with intermediate support		93.5	82.5	94	1

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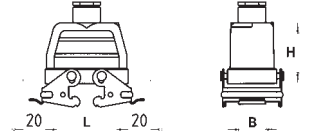
Hood type D



Hood type E



Hood type F



Hood type A	Hood type B	Hood type C	Hood type D	Hood type E	Hood type F
<p>Hood</p> <p>Hood (not suited for female/male inserts with spring connection)</p> <p>for 24pole = 2 x M 25</p>	<p>Hood</p> <p>Hood (not suited for female/male inserts with spring connection)</p> <p>for 24pole = 2 x M 25</p>	<p>Hood</p>	<p>Hood with locking levers</p>	<p>Hood with locking levers (not suited for female/male inserts with spring connection)</p> <p>for 24pole = 2 x M 25</p>	<p>Hood with locking levers</p>
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.350.1035.0 70.350.1035.1 70.350.1035.2 70.350.1035.3	70.351.1035.0 70.351.1035.1 70.351.1035.2 70.351.1035.3	70.352.1035.0 70.352.1035.1 70.352.1035.2 70.352.1035.3	70.355.1035.0 70.355.1035.1 70.355.1035.2 70.355.1035.3	70.356.1035.0 70.356.1035.1 70.356.1035.2 70.356.1035.3	70.357.1035.0 70.357.1035.1 70.357.1035.2 70.357.1035.3
70.353.1035.0 70.353.1035.1 70.353.1035.2 70.353.1035.3		70.354.1035.0 70.354.1035.1 70.354.1035.2 70.354.1035.3	70.358.1035.0 70.358.1035.1 70.358.1035.2 70.358.1035.3		70.359.1035.0 70.359.1035.1 70.359.1035.2 70.359.1035.3
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70.350.2435.0 70.350.2435.1 70.350.2435.2 70.350.2435.3	70.351.2435.0 70.351.2435.1 70.351.2435.2 70.351.2435.3	70.352.2435.0 70.352.2435.1 70.352.2435.2 70.352.2435.3	70.355.2435.0 70.355.2435.1 70.355.2435.2 70.355.2435.3	70.356.2435.0 70.356.2435.1 70.356.2435.2 70.356.2435.3	70.357.2435.0 70.357.2435.1 70.357.2435.2 70.357.2435.3
70.353.2435.0 70.353.2435.1 70.353.2435.2 70.353.2435.3		70.354.2435.0 70.354.2435.1 70.354.2435.2 70.354.2435.3	70.358.2435.0 70.358.2435.1 70.358.2435.2 70.358.2435.3		70.359.2435.0 70.359.2435.1 70.359.2435.2 70.359.2435.3
70.350.3235.0 70.350.3235.1 70.350.3235.2 70.350.3235.3		70.352.3235.0 70.352.3235.1 70.352.3235.2 70.352.3235.3			
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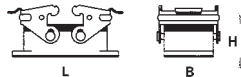
Industrial Multipole Connectors revo components.com

Housings with double locking levers

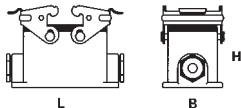
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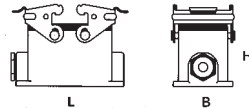
Housing type a



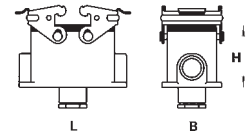
Housing type b



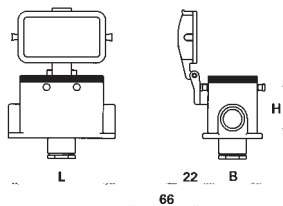
Housing type c



Housing type d



Housing type i



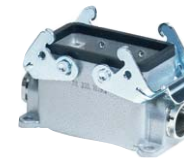
Housing open bottom

Housing type a



Housing closed bottom with two cable glands

Housing type b



Housing closed bottom with one cable gland on the left

Housing type c



Degree of protection IP 55

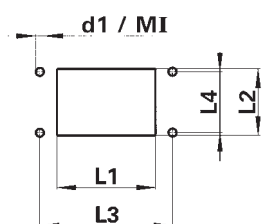
Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA

For inserts: **500 V** IEC 61 984

Number of poles	Thread	Gland type	L	W	H	Std. pack	Part no.	Part no.	Part no.
Size 10 for connector 10pole + ground	M 20	0 with cable gland	93	43	28	1	70.320.1028.0	70.330.1035.0	70.331.1035.0
		1 with threaded collar	94	52	54.5	1			
		1 with threaded collar	94	52	54.5	1			
Size 16 for connector 16pole + ground	M 25	0 with cable gland	113	43	28	1	70.320.1628.0	70.330.1635.0	70.331.1635.0
		1 with threaded collar	117	52	56.5	1			
		1 with threaded collar	117	52	56.5	1			
Size 16 for connector high design 16pole + ground	M 32	0 with cable gland	117	52	76.5	1	70.320.1628.0	73.334.4035.0	73.335.4035.0
		1 with threaded collar	117	52	76.5	1			
		1 with threaded collar	117	52	76.5	1			
Size 24 for connector 24pole + ground	M 25	0 with cable gland	140	43	28	1	70.320.2428.0	70.330.2435.0	70.331.2435.0
		1 with threaded collar	144	52	56.5	1			
		1 with threaded collar	144	52	56.5	1			
Size 24 for connector high design 24pole + ground	M 32	0 with cable gland	144	52	76.5	1	70.320.2428.0	73.334.6435.0	73.335.6435.0
		1 with threaded collar	144	52	76.5	1			
		1 with threaded collar	144	52	76.5	1			
Size 32 for connector 32pole + ground			124	84	35	1	70.320.3228.0		

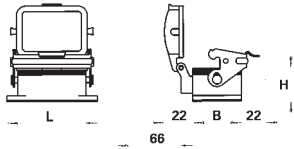
Mounting dimensions for open-bottom housings



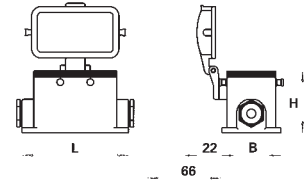
Housing size	Cut-out (mm)		Mounting holes (mm)		d1 (mm)	MI
	L1	L2	L3	L4		
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
32	117	81	148	70	6.4	M 6

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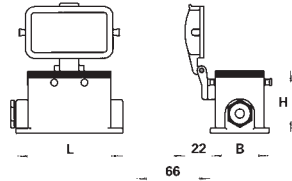
Housing type e



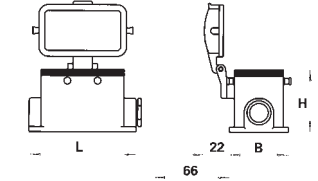
Housing type f



Housing type g



Housing type h



Housing closed bottom with cable gland at the bottom

Housing type d



Housing open bottom with protective cover

Housing type e



Housing closed bottom with two cable glands and protective cover

Housing type f



Housing closed bottom with cable gland on the left and protective cover

Housing type g



Housing closed bottom with cable gland on the right and protective cover

Housing type h



Housing closed bottom with cable gland at the bottom and protective cover

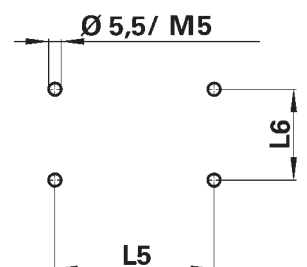
Housing type i



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.333.1035.0 70.333.1035.1	70.325.1028.0	70.340.1035.0 70.340.1035.1	70.341.1035.0 70.341.1035.1	70.342.1035.0 70.342.1035.1	70.343.1035.0 70.343.1035.1
70.333.1635.0 70.333.1635.1	70.325.1628.0	70.340.1635.0 70.340.1635.1	70.341.1635.0 70.341.1635.1	70.342.1635.0 70.342.1635.1	70.343.1635.0 70.343.1635.1
73.337.4035.0 73.337.4035.1		73.344.4035.0 73.344.4035.1	73.345.4035.0 73.345.4035.1	73.346.4035.0 73.346.4035.1	73.347.4035.0 73.347.4035.1
70.333.2435.0 70.333.2435.1	70.325.2428.0	70.340.2435.0 70.340.2435.1	70.341.2435.0 70.341.2435.1	70.342.2435.0 70.342.2435.1	70.343.2435.0 70.343.2435.1
73.337.6435.0 73.337.6435.1		73.344.6435.0 73.344.6435.1	73.345.6435.0 73.345.6435.1	73.346.6435.0 73.346.6435.1	73.347.6435.0 73.347.6435.1

Mounting dimensions for closed-bottom housings

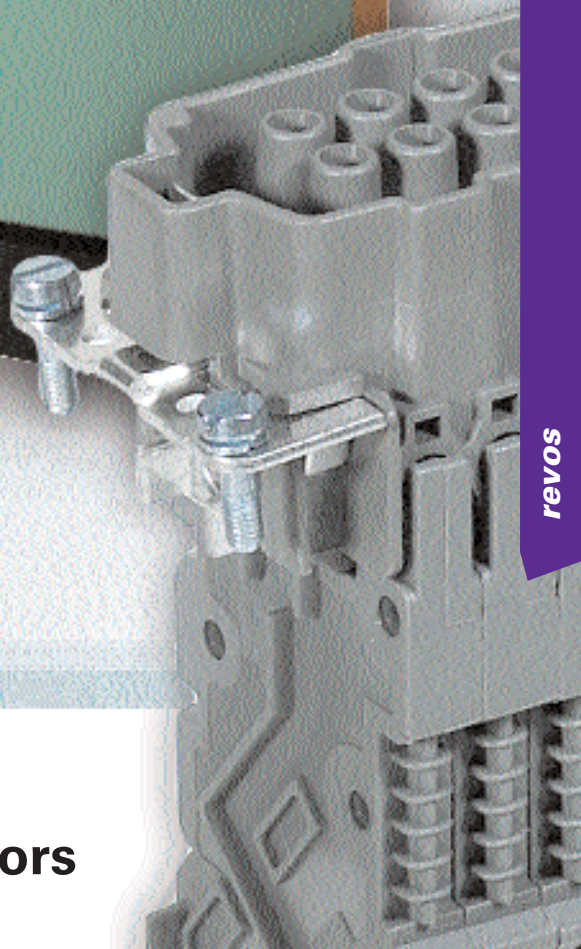
Housing size	L5 (mm)	L6 (mm)
10	82	40
16	105	45
24	132	45



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Technical information

■ Approvals	UL, CSA, MEEI, SEV
■ Applicable standards	IEC 61 984
■ Contact inserts	
Rated current	16 A
Rated voltage	690/400 V
Nominal voltage accord. to UL	600 V
Nominal voltage accord. to CSA	600 V
Pole configurations	3, 6, 10, 16, 20 (2x10), 26 (10/16), 32 (2x16) + ground
Screw connection	0.5 – 2.5 mm ² / 20 – 12 AWG
Degree of pollution	3
Temperature range	–40 to +110 °C
■ Multipole adapter	
Rated current	16 A
Rated voltage	500 V
Nominal voltage accord. to UL	600 V
Nominal voltage accord. to CSA	600 V
Pole configurations	3, 6, 10 + ground
Screw connection	0.5 – 4.0 mm ² / 20 – 12 AWG
Degree of pollution	3
Temperature range	–40 to +110 °C
■ Contacts	
Material	copper alloy
Surface	tin-plated
■ Hoods and housings	
Material	die cast aluminum alloy
Surface	silver gray, silicon-free finish
Locking levers	zinc-plated steel
Gaskets	NBR
Temperature range	–40 to +110 °C
Degree of protection accord. to DIN EN 60 529	
with latched locking levers	IP 55
with appropriate cable gland	IP 65



Industrial Multipole Connectors

Industrial Multipole Connector revos components.com

THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Female/male inserts and multipole adapter

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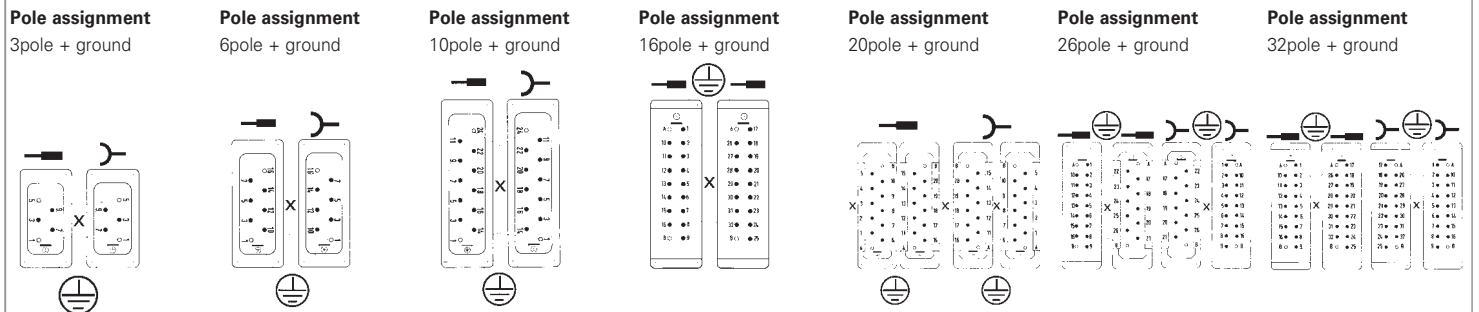
600 V UL/CSA

690/400 V, 16 A IEC 61 984

		Rated current	Cross section	Approvals	Wire strip length	Contacts	Std. pack
 <p>Screw connection</p>	Female insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		7 mm	tin-plated	10
	Male insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		7 mm	tin-plated	10
 <p>Screw connection Multipole adapter long design (6 marking fields)</p>	Female insert, ground right 500 V IEC 61 984	16 A	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Female insert, ground left	16 A	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground right 500 V IEC 61 984	16 A	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground left	16 A	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
 <p>Screw connection Multipole adapter short design (4 marking fields)</p>	Female insert, ground right 500 V IEC 61 984	16 A	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Female insert, ground left	16 A	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground right 500 V IEC 61 984	16 A	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground left	16 A	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
 <p>Spring connection Multipole adapter short design (6 marking fields)</p>	Female insert, ground right 500 V IEC 61 984	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10
	Female insert, ground left	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10
	Male insert, ground right 500 V IEC 61 984	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10
	Male insert, ground left	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10

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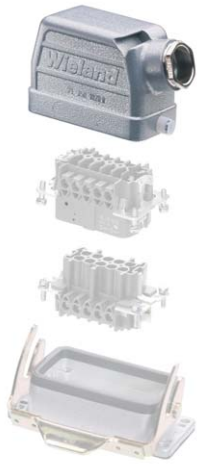
3pole + ground	6pole + ground	10pole + ground	16pole + ground	20pole + ground 2 x 10pole + ground	26pole + ground 1 x 10pole + ground 1 x 16pole + ground	32pole + ground 2 x 16pole + ground
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.400.0340.0	70.400.0640.0	70.400.1040.0	70.400.1640.0	70.400.2040.0	70.400.2640.0	70.400.3240.0
70.410.0340.0	70.410.0640.0	70.410.1040.0	70.410.1640.0	70.410.2040.0	70.410.2640.0	70.410.3240.0



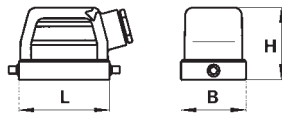
X = switching contacts (2 shortened male pins)

70.125.0353.3	70.125.0653.3	70.125.1053.3	
70.120.0353.3	70.120.0653.3	70.120.1053.3	
70.135.0353.3	70.135.0653.3	70.135.1053.3	
70.130.0353.3	70.130.0653.3	70.130.1053.3	
70.125.0353.4	70.125.0653.4	70.125.1053.4	
70.120.0353.4	70.120.0653.4	70.120.1053.4	
70.135.0353.4	70.135.0653.4	70.135.1053.4	
70.130.0353.4	70.130.0653.4	70.130.1053.4	
70.126.0353.0	70.126.0653.0	70.126.1053.0	
70.121.0353.0	70.121.0653.0	70.121.1053.0	
70.136.0353.0	70.136.0653.0	70.136.1053.0	
70.131.0353.0	70.131.0653.0	70.131.1053.0	

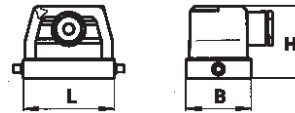
Industrial Multipole Connectors revo **components.com** Hoods with a single locking lever **revos BASIC**



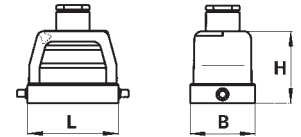
Hood type A



Hood type B



Hood type C



Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA

For inserts: **690/400 V** IEC 61 984

Number of poles	Thread	Gland type	Dimensions in mm	L	W	H	Std. pack
Size 10 for connector 3pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	
Size 16 for connector 6pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	
Size 24 for connector 10-/ 16pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	
Size 48 for connector 20-/26-/ 32pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		132	90	107	1
	M 40	1 with threaded collar 2 with intermediate support		132	90	107	1

revos

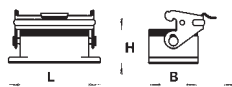
Hood	Hood for 24pole = 2 x M 25	Hood	
Hood type A	Hood type B	Hood type C	
			
Part no.	Part no.	Part no.	
77.350.1035.0 77.350.1035.1 77.350.1035.2 77.350.1035.3	77.351.1035.0 77.351.1035.1 77.351.1035.2 77.351.1035.3	77.352.1035.0 77.352.1035.1 77.352.1035.2 77.352.1035.3	
77.353.1035.0 77.353.1035.1 77.353.1035.2 77.353.1035.3		77.354.1035.0 77.354.1035.1 77.354.1035.2 77.354.1035.3	
77.350.1635.0 77.350.1635.1 77.350.1635.2 77.350.1635.3	77.351.1635.0 77.351.1635.1 77.351.1635.2 77.351.1635.3	77.352.1635.0 77.352.1635.1 77.352.1635.2 77.352.1635.3	
77.353.1635.0 77.353.1635.1 77.353.1635.2 77.353.1635.3		77.354.1635.0 77.354.1635.1 77.354.1635.2 77.354.1635.3	
77.350.2435.0 77.350.2435.1 77.350.2435.2 77.350.2435.3	77.351.2435.0 77.351.2435.1 77.351.2435.2 77.351.2435.3	77.352.2435.0 77.352.2435.1 77.352.2435.2 77.352.2435.3	
77.353.2435.0 77.353.2435.1 77.353.2435.2 77.353.2435.3		77.354.2435.0 77.354.2435.1 77.354.2435.2 77.354.2435.3	
70.350.4835.0 70.350.4835.1 70.350.4835.2 70.350.4835.3		70.352.4835.0 70.352.4835.1 70.352.4835.2 70.352.4835.3	
70.353.4835.1 70.353.4835.2		70.354.4835.1 70.354.4835.2	

Industrial Multipole Connectors revo **components.com** Housings with a single locking lever

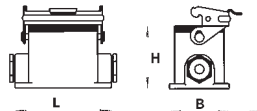
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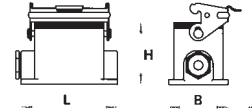
Housing type a



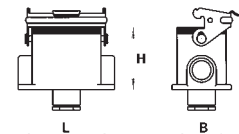
Housing type b



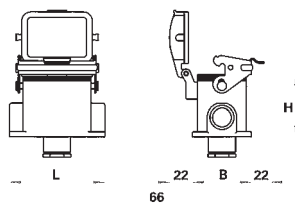
Housing type c



Housing type d



Housing type i



Housing open bottom

Housing type a



Housing closed bottom with two cable glands

Housing type b



Housing closed bottom with one cable gland on the left

Housing type c



Degree of protection IP 55

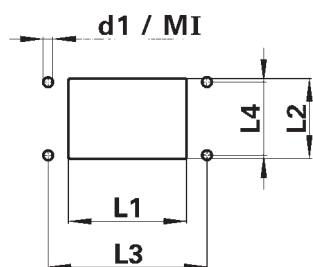
Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA

For inserts: **690/400 V** IEC 61 984

Number of poles	Thread	Gland type	L	W	H	Std. pack	Part no.	Part no.	Part no.
Size 10 for connector 3pole + ground	M 20	0 with cable gland	93	43	28	1	77.320.1028.0	77.330.1035.0	77.331.1035.0
		1 with threaded collar	94	52	54.5	1			
		1 with threaded collar	94	52	54.5	1			
Size 16 for connector 6pole + ground	M 25	0 with cable gland	113	43	28	1	77.320.1628.0	77.330.1635.0	77.331.1635.0
		1 with threaded collar	117	52	56.5	1			
		1 with threaded collar	117	52	56.5	1			
Size 24 for connector 10pole + ground/ 16pole + ground	M 25	0 with cable gland	140	43	28	1	77.320.2428.0	77.330.2435.0	77.331.2435.0
		1 with threaded collar	144	52	56.5	1			
		1 with threaded collar	144	52	56.5	1			
Size 48 for connector 20-/26-/ 32pole + ground	M32	0 with cable gland	165	90	44	1	70.320.4828.0		70.331.4835.0
		1 with threaded collar	146	120	99	1			
		1 with threaded collar	146	120	99	1			
		3 with strain relief	146	120	99	1			
	M40	1 with threaded collar	146	120	99	1			70.331.4835.3

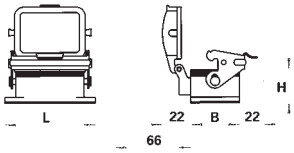
Mounting dimensions for open-bottom housings



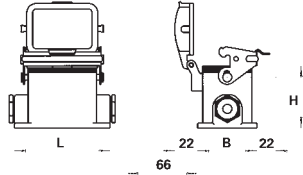
Housing size	Cut-out (mm)		Mounting holes (mm)		d1 (mm)	MI
	L1	L2	L3	L4		
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
48	117	81	148	70	6.4	M 6

revos

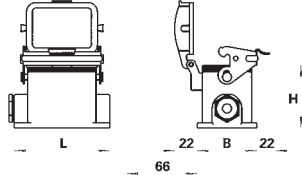
Housing type e



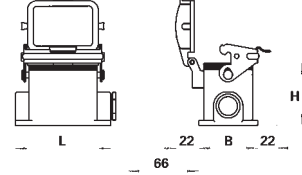
Housing type f



Housing type g



Housing type h



Housing closed bottom with cable gland at the bottom

Housing type d



Housing open bottom with protective cover

Housing type e



Housing closed bottom with two cable glands and protective cover

Housing type f



Housing closed bottom with cable gland on the left and protective cover

Housing type g



Housing closed bottom with cable gland on the right and protective cover

Housing type h



Housing closed bottom with cable gland at the bottom and protective cover

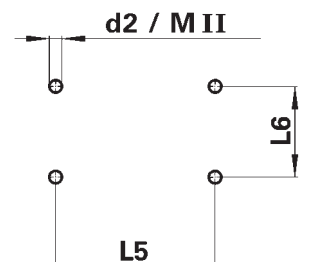
Housing type i



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
77.333.1035.0 77.333.1035.1	77.325.1028.0	77.340.1035.0 77.340.1035.1	77.341.1035.0 77.341.1035.1	77.342.1035.0 77.342.1035.1	77.343.1035.0 77.343.1035.1
77.333.1635.0 77.333.1635.1	77.325.1628.0	77.340.1635.0 77.340.1635.1	77.341.1635.0 77.341.1635.1	77.342.1635.0 77.342.1635.1	77.343.1635.0 77.343.1635.1
77.333.2435.0 77.333.2435.1	77.325.2428.0	77.340.2435.0 77.340.2435.1	77.341.2435.0 77.341.2435.1	77.342.2435.0 77.342.2435.1	77.343.2435.0 77.343.2435.1
	70.325.4828.0		70.341.4835.1 70.341.4835.3		
			70.344.4835.1		

Mounting dimensions for closed-bottom housings

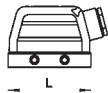
Housing size	L5 (mm)	L6 (mm)	d2 (mm)	MII
10	82	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5
48	111	106	6.5	M 6



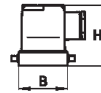
Industrial Multipole Connectors revo **components.com** Hoods with double locking levers **revos BASIC**



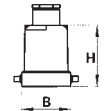
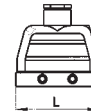
Hood type A



Hood type B



Hood type C



Degree of protection IP 55

Degree of protection IP 65 with matching cable glands

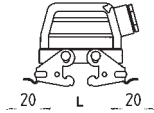
For inserts: **600 V** UL/CSA

For inserts: **690/400 V** IEC 61 984

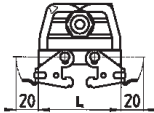
Number of poles	Thread	Gland type	Dimensions in mm	L	W	H	Std. pack
Size 10 for connector 3pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	
Size 16 for connector 6pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	
Size 24 for connector 10-/ 16pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1

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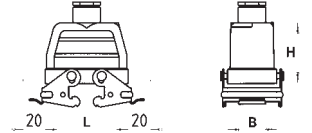
Hood type D



Hood type E



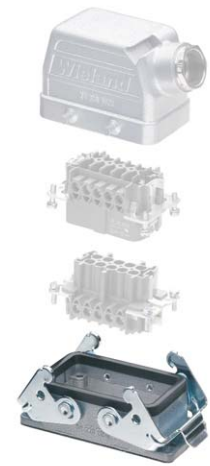
Hood type F



Hood type A	Hood type B	Hood type C	Hood type D	Hood type E	Hood type F
					
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
72.350.1035.0 72.350.1035.1 72.350.1035.2 72.350.1035.3	72.351.1035.0 72.351.1035.1 72.351.1035.2 72.351.1035.3	72.352.1035.0 72.352.1035.1 72.352.1035.2 72.352.1035.3	72.355.1035.0 72.355.1035.1 72.355.1035.2 72.355.1035.3	72.356.1035.0 72.356.1035.1 72.356.1035.2 72.356.1035.3	72.357.1035.0 72.357.1035.1 72.357.1035.2 72.357.1035.3
72.353.1035.0 72.353.1035.1 72.353.1035.2 72.353.1035.3		72.354.1035.0 72.354.1035.1 72.354.1035.2 72.354.1035.3	72.358.1035.0 72.358.1035.1 72.358.1035.2 72.358.1035.3		72.359.1035.0 72.359.1035.1 72.359.1035.2 72.359.1035.3
72.350.1635.0 72.350.1635.1 72.350.1635.2 72.350.1635.3	72.351.1635.0 72.351.1635.1 72.351.1635.2 72.351.1635.3	72.352.1635.0 72.352.1635.1 72.352.1635.2 72.352.1635.3	72.355.1635.0 72.355.1635.1 72.355.1635.2 72.355.1635.3	72.356.1635.0 72.356.1635.1 72.356.1635.2 72.356.1635.3	72.357.1635.0 72.357.1635.1 72.357.1635.2 72.357.1635.3
72.353.1635.0 72.353.1635.1 72.353.1635.2 72.353.1635.3		72.354.1635.0 72.354.1635.1 72.354.1635.2 72.354.1635.3	72.358.1635.0 72.358.1635.1 72.358.1635.2 72.358.1635.3		72.359.1635.0 72.359.1635.1 72.359.1635.2 72.359.1635.3
72.350.2435.0 72.350.2435.1 72.350.2435.2 72.350.2435.3	72.351.2435.0 72.351.2435.1 72.351.2435.2 72.351.2435.3	72.352.2435.0 72.352.2435.1 72.352.2435.2 72.352.2435.3	72.355.2435.0 72.355.2435.1 72.355.2435.2 72.355.2435.3	72.356.2435.0 72.356.2435.1 72.356.2435.2 72.356.2435.3	72.357.2435.0 72.357.2435.1 72.357.2435.2 72.357.2435.3
72.353.2435.0 72.353.2435.1 72.353.2435.2 72.353.2435.3		72.354.2435.0 72.354.2435.1 72.354.2435.2 72.354.2435.3	72.358.2435.0 72.358.2435.1 72.358.2435.2 72.358.2435.3		72.359.2435.0 72.359.2435.1 72.359.2435.2 72.359.2435.3

Industrial Multipole Connectors revo **components.com** Housings with double locking levers

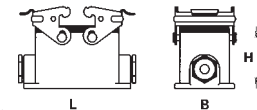
revos BASIC



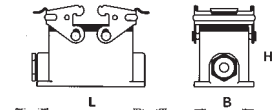
Hood type a



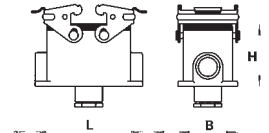
Hood type b



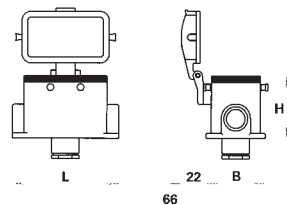
Hood type c



Hood type d



Hood type i



Housing open bottom

Housing type a



Housing closed bottom with two cable glands

Housing type b



Housing closed bottom with one cable gland on the left

Housing type c



Degree of protection IP 55

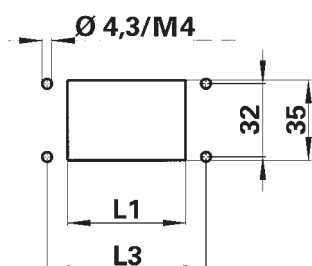
Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA

For inserts: **690/400 V** IEC 61 984

Number of poles	Thread	Gland type	L	W	H	Std. pack	Part no.	Part no.	Part no.
Size 10 for connector 3pole + ground	M 20	0 with cable gland	93	43	28	1	72.320.1028.0	72.330.1035.0	72.331.1035.0
		1 with threaded collar	94	52	54.5	1			
Size 16 for connector 6pole + ground	M 25	0 with cable gland	113	43	28	1	72.320.1628.0	72.330.1635.0	72.331.1635.0
		1 with threaded collar	117	52	56.5	1			
Size 24 for connector 10-/16pole + ground	M 25	0 with cable gland	140	43	28	1	72.320.2428.0	72.330.2435.0	72.331.2435.0
		1 with threaded collar	144	52	56.5	1			

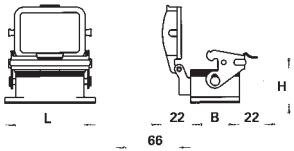
Mounting dimensions for open-bottom housings



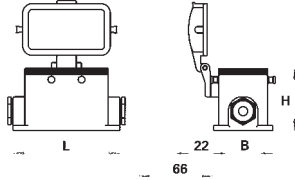
Housing size	L1 (mm)	L3 (mm)
10	65	83
16	85.5	103
24	112	130

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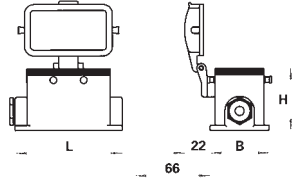
Hood type e



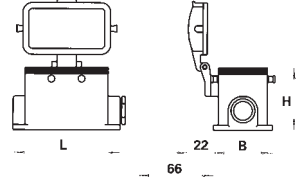
Hood type f



Hood type g



Hood type h



Housing closed bottom with cable gland at the bottom

Housing type d



Housing open bottom with protective cover

Housing type e



Housing closed bottom with two cable glands and protective cover

Housing type f



Housing closed bottom with cable gland on the left and protective cover

Housing type g



Housing closed bottom with cable gland on the right and protective cover

Housing type h



Housing closed bottom with cable gland at the bottom and protective cover

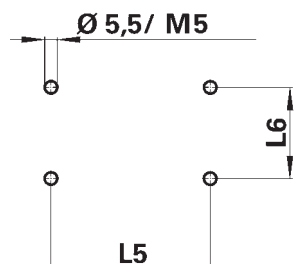
Housing type i



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
72.333.1035.0 72.333.1035.1	72.325.1028.0	72.340.1035.0 72.340.1035.1	72.341.1035.0 72.341.1035.1	72.342.1035.0 72.342.1035.1	72.343.1035.0 72.343.1035.1
72.333.1635.0 72.333.1635.1	72.325.1628.0	72.340.1635.0 72.340.1635.1	72.341.1635.0 72.341.1635.1	72.342.1635.0 72.342.1635.1	72.343.1635.0 72.343.1635.1
72.333.2435.0 72.333.2435.1	72.325.2428.0	72.340.2435.0 72.340.2435.1	72.341.2435.0 72.341.2435.1	72.342.2435.0 72.342.2435.1	72.343.2435.0 72.343.2435.1

Mounting dimensions for closed-bottom housings

Housing size	L5 (mm)	L6 (mm)
10	82	40
16	105	45
24	132	45



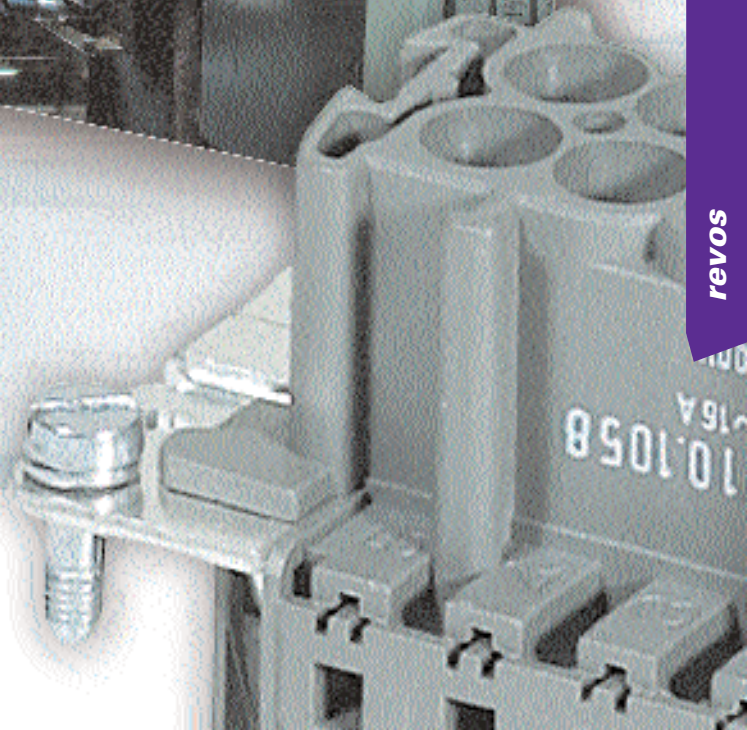
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Technical information

■ Approvals	UL, CSA, MEEI, SEV
■ Applicable standards	IEC 61 984
■ Contact inserts	
Rated current	16 A
Rated voltage	690 V
Nominal voltage accord. to UL	600 V
Nominal voltage accord. to CSA	600 V
Pole configurations	6-, 10-, 16-, 24-, 32 (2x16), 48 (2x24), + ground
Screw connection	0.5 – 2.5 mm ² / 20 – 12 AWG
Crimp connection	0.5 – 4.0 mm ² / 20 – 12 AWG
Degree of pollution	3
Temperature range	–40 to +110 °C
■ Multipole adapter	
Rated current	16 A
Rated voltage	500 V
Nominal voltage accord. to UL	600 V
Nominal voltage accord. to CSA	600 V
Pole configurations	6, 10, 16, 24, + ground
Screw connection	0.5 – 4.0 mm ² / 20 – 12 AWG
Spring connection	0.5 – 2.5 mm ² / 20 – 12 AWG
Degree of pollution	3
Temperature range	–40 to +110 °C
■ Contacts	
Material	copper alloy
Surface (screw, crimp, multipole adapter contacts)	tin-plated
Surface (crimp contacts)	gold-plated
Surface (crimp contacts)	silver-plated
■ Hoods and housings	
Material	die cast aluminum alloy
Surface	silver gray, silicon-free finish
Locking levers	zinc-plated steel
Gaskets	NBR
Temperature range	–40 to +110 °C
Degree of protection accord. to DIN EN 60 529	
with latched locking levers	IP 55
with appropriate cable gland	IP 65



Industrial Multipole Connectors



Industrial Multipole Connector revos components.com

THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Female/male inserts and multipole adapter

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600 V UL/CSA

690 V, 16 A IEC 61 984

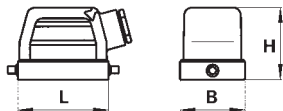
		Rated current	Cross section	Approvals	Wire strip length	Contacts	Std. pack
 <p>Screw connection</p>	Female insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		7 mm	tin-plated	10
	Male insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG		7 mm	tin-plated	10
 <p>Crimp connection</p>	Female insert without crimp contacts	16 A	0.5 – 4 mm ² 20 – 12 AWG		7 mm	tin-plated	10
	Male insert without crimp contacts	16 A	0.5 – 4 mm ² 20 – 12 AWG		7 mm	tin-plated	10
 <p>Screw connection Multipole adapter long design (6 marking fields)</p>	Female insert, ground right	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Female insert, ground left	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground right	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground left	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
 <p>Screw connection Multipole adapter short design (4 marking fields)</p>	Female insert, ground right	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Female insert, ground left	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground right	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
	Male insert, ground left	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG		12 mm	tin-plated	10
 <p>Spring connection Multipole adapter short design (6 marking fields)</p>	Female insert, ground right	16 A/500 V	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10
	Female insert, ground left	16 A/500 V	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10
	Male insert, ground right	16 A/500 V	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10
	Male insert, ground left	16 A/500 V	0.5 – 2.5 mm ² 20 – 12 AWG		9 mm	tin-plated	10

Industrial Multipole Connectors revo **components.com** Hoods with a single locking lever

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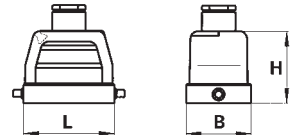
Hood type A



Hood type B



Hood type C



Degree of protection IP 55


Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA

For inserts: **690 V** IEC 61 984

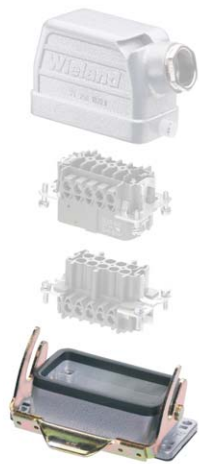
Number of poles	Thread	Gland type	Dimensions in mm	L	W	H	Std. pack
Size 6 for connector 6pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		60	43	47.5	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		60	43	47.5	
Size 10 for connector 10pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	
Size 16 for connector 16pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93,5	43	60	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93,5	43	60	
Size 24 for connector 24pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	
Size 48 for connector 48pole + ground	M32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		132	90	107	1
	M40	1 with threaded collar 2 with intermediate support		132	90	107	1

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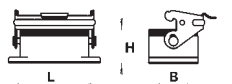
Hood	Hood for 24pole = 2 x M 25	Hood	
Hood type A	Hood type B	Hood type C	
			
Part no.	Part no.	Part no.	
72.350.0635.0 72.350.0635.1 72.350.0635.2 72.350.0635.3	72.351.0635.0 72.351.0635.1 72.351.0635.2 72.351.0635.3	72.352.0635.0 72.352.0635.1 72.352.0635.2 72.352.0635.3	
72.353.0635.0 72.353.0635.1 72.353.0635.2 72.353.0635.3		72.354.0635.0 72.354.0635.1 72.354.0635.2 72.354.0635.3	
77.350.1035.0 77.350.1035.1 77.350.1035.2 77.350.1035.3	77.351.1035.0 77.351.1035.1 77.351.1035.2 77.351.1035.3	77.352.1035.0 77.352.1035.1 77.352.1035.2 77.352.1035.3	
77.353.1035.0 77.353.1035.1 77.353.1035.2 77.353.1035.3		77.354.1035.0 77.354.1035.1 77.354.1035.2 77.354.1035.3	
77.350.1635.0 77.350.1635.1 77.350.1635.2 77.350.1635.3	77.351.1635.0 77.351.1635.1 77.351.1635.2 77.351.1635.3	77.352.1635.0 77.352.1635.1 77.352.1635.2 77.352.1635.3	
77.353.1635.0 77.353.1635.1 77.353.1635.2 77.353.1635.3		77.354.1635.0 77.354.1635.1 77.354.1635.2 77.354.1635.3	
77.350.2435.0 77.350.2435.1 77.350.2435.2 77.350.2435.3	77.351.2435.0 77.351.2435.1 77.351.2435.2 77.351.2435.3	77.352.2435.0 77.352.2435.1 77.352.2435.2 77.352.2435.3	
77.353.2435.0 77.353.2435.1 77.353.2435.2 77.353.2435.3		77.354.2435.0 77.354.2435.1 77.354.2435.2 77.354.2435.3	
70.350.4835.0 70.350.4835.1 70.350.4835.2 70.350.4835.3		70.352.4835.0 70.352.4835.1 70.352.4835.2 70.352.4835.3	
70.353.4835.1 70.353.4835.2		70.354.4835.1 70.354.4835.2	

Industrial Multipole Connectors revo **components.com** Housings with a single locking lever

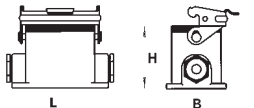
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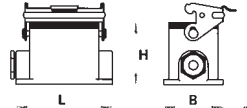
Housing type a



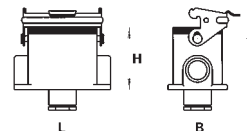
Housing type b



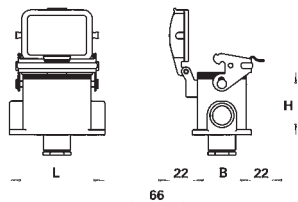
Housing type c



Housing type d



Housing type i



Housing open bottom

Housing type a



Housing closed bottom with two cable glands

Housing type b



Housing closed bottom with one cable gland on the left

Housing type c



Degree of protection IP 55

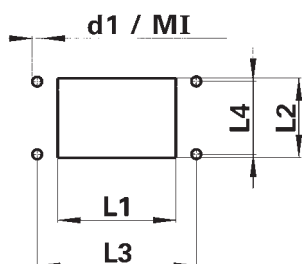
Degree of protection IP 65 with matching cable glands

For inserts: **600 V** UL/CSA

For inserts: **690 V** IEC 61 984

Number of poles	Thread	Gland type	L	W	H	Std. pack	Part no.	Part no.	Part no.	
Size 6 for connector 6pole + ground	M 20	0 with cable gland	80	43	28	1	72.320.0628.0	72.330.0635.0	72.331.0635.0	
		1 with threaded collar	84	52	54.5	1				72.330.0635.1	72.331.0635.1
Size 10 for connector 10pole + ground	M 20	0 with cable gland	93	43	28	1	77.320.1028.0	77.330.1035.0	77.331.1035.0	
		1 with threaded collar	94	52	54.5	1				77.330.1035.1	77.331.1035.1
Size 16 for connector 16pole + ground	M 25	0 with cable gland	113	43	28	1	77.320.1628.0	77.330.1635.0	77.331.1635.0	
		1 with threaded collar	117	52	56.5	1				77.330.1635.1	77.331.1635.1
Size 24 for connector 24pole + ground	M25	0 with cable gland	140	43	28	1	77.320.2428.0	77.330.2435.0	77.331.2435.0	
		1 with threaded collar	144	52	56.5	1				77.330.2435.1	77.331.2435.1
Size 48 for connector 48pole + ground	M32	0 with cable gland	165	90	44	1	70.320.4828.0		70.331.4835.0	
		1 with threaded collar	146	120	99	1				70.331.4835.1
		3 with strain relief	146	120	99	1				70.331.4835.3
	M 40	1 with threaded collar	146	120	99	1				

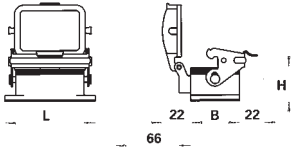
Mounting dimensions for open-bottom housings



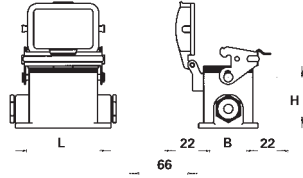
Housing size	Cut-out (mm)		Mounting holes (mm)		d1 (mm)	MI
	L1	L2	L3	L4		
6	52	35	70	32	4.3	M 4
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
48	117	81	148	70	6.4	M 6

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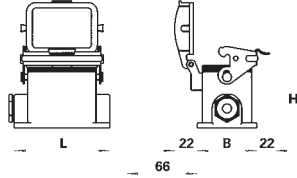
Housing type e



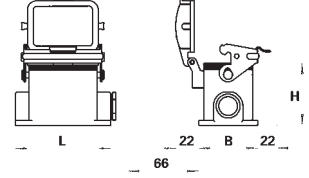
Housing type f



Housing type g



Housing type h



Housing closed bottom with cable gland at the bottom

Housing open bottom with protective cover

Housing closed bottom with two glands and protective cover

Housing closed bottom with cable gland on the left and protective cover

Housing closed bottom with cable gland on the right and protective cover

Housing closed bottom with cable gland at the bottom and protective cover

Housing type d



Housing type e



Housing type f



Housing type g



Housing type h



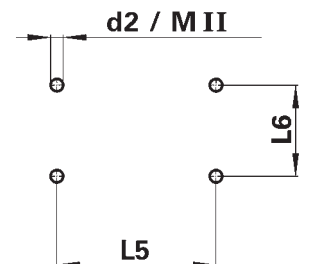
Housing type i



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
72.333.0635.0 72.333.0635.1	72.325.0628.0	72.340.0635.0 72.340.0635.1	72.341.0635.0 72.341.0635.1	72.342.0635.0 72.342.0635.1	72.343.0635.0 72.343.0635.1
77.333.1035.0 77.333.1035.1	77.325.1028.0	77.340.1035.0 77.340.1035.1	77.341.1035.0 77.341.1035.1	77.342.1035.0 77.342.1035.1	77.343.1035.0 77.343.1035.1
77.333.1635.0 77.333.1635.1	77.325.1628.0	77.340.1635.0 77.340.1635.1	77.341.1635.0 77.341.1635.1	77.342.1635.0 77.342.1635.1	77.343.1635.0 77.343.1635.1
77.333.2435.0 77.333.2435.1	77.325.2428.0	77.340.2435.0 77.340.2435.1	77.341.2435.0 77.341.2435.1	77.342.2435.0 77.342.2435.1	77.343.2435.0 77.343.2435.1
	70.325.4828.0		70.341.4835.1 70.341.4835.3		
			70.344.4835.1		

Mounting dimensions for closed-bottom housings

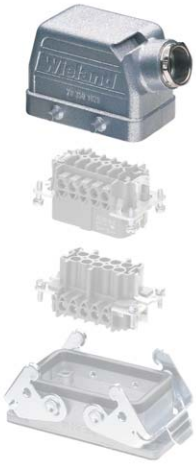
Mounting size	L5 (mm)	L6 (mm)	d2 (mm)	MII
6	70	40	5.5	M 5
10	82	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5
48	111	106	6.5	M 6



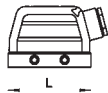
Industrial Multipole Connectors revos components.com

Hoods with double locking levers

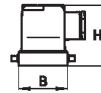
revos BASIC



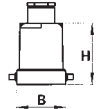
Hood type A



Hood type B



Hood type C



Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

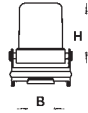
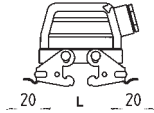
For inserts: **600 V** UL/CSA

For inserts: **690 V** IEC 61 984

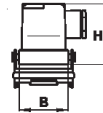
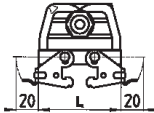
Number of poles	Thread	Gland type	Dimensions in mm	L	W	H	Std. pack
Size 10 for connector 10pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	
Size 16 for connector 16pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	
Size 24 for connector 24pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
Size 32 for connector 32pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	82.5	94	1
	M 40	1 with threaded collar 2 with intermediate support		93.5	82.5	94	1

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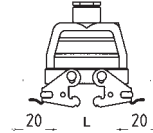
Hood type D



Hood type E



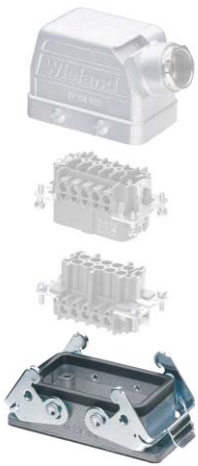
Hood type F



Hood type A	Hood type B	Hood type C	Hood type D	Hood type E	Hood type F
<p>Hood</p> <p>for 24pole = 2 x M 25</p> 	<p>Hood</p> <p>for 24pole = 2 x M 25</p> 	<p>Hood</p> 	<p>Hood with locking levers</p> 	<p>Hood with locking levers</p> <p>for 24pole = 2 x M 25</p> 	<p>Hood with locking levers</p> 
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
72.350.1035.0 72.350.1035.1 72.350.1035.2 72.350.1035.3	72.351.1035.0 72.351.1035.1 72.351.1035.2 72.351.1035.3	72.352.1035.0 72.352.1035.1 72.352.1035.2 72.352.1035.3	72.355.1035.0 72.355.1035.1 72.355.1035.2 72.355.1035.3	72.356.1035.0 72.356.1035.1 72.356.1035.2 72.356.1035.3	72.357.1035.0 72.357.1035.1 72.357.1035.2 72.357.1035.3
72.353.1035.0 72.353.1035.1 72.353.1035.2 72.353.1035.3		72.354.1035.0 72.354.1035.1 72.354.1035.2 72.354.1035.3	72.358.1035.0 72.358.1035.1 72.358.1035.2 72.358.1035.3		72.359.1035.0 72.359.1035.1 72.359.1035.2 72.359.1035.3
72.350.1635.0 72.350.1635.1 72.350.1635.2 72.350.1635.3	72.351.1635.0 72.351.1635.1 72.351.1635.2 72.351.1635.3	72.352.1635.0 72.352.1635.1 72.352.1635.2 72.352.1635.3	72.355.1635.0 72.355.1635.1 72.355.1635.2 72.355.1635.3	72.356.1635.0 72.356.1635.1 72.356.1635.2 72.356.1635.3	72.357.1635.0 72.357.1635.1 72.357.1635.2 72.357.1635.3
72.353.1635.0 72.353.1635.1 72.353.1635.2 72.353.1635.3		72.354.1635.0 72.354.1635.1 72.354.1635.2 72.354.1635.3	72.358.1635.0 72.358.1635.1 72.358.1635.2 72.358.1635.3		72.359.1635.0 72.359.1635.1 72.359.1635.2 72.359.1635.3
72.350.2435.0 72.350.2435.1 72.350.2435.2 72.350.2435.3	72.351.2435.0 72.351.2435.1 72.351.2435.2 72.351.2435.3	72.352.2435.0 72.352.2435.1 72.352.2435.2 72.352.2435.3	72.355.2435.0 72.355.2435.1 72.355.2435.2 72.355.2435.3	72.356.2435.0 72.356.2435.1 72.356.2435.2 72.356.2435.3	72.357.2435.0 72.357.2435.1 72.357.2435.2 72.357.2435.3
72.353.2435.0 72.353.2435.1 72.353.2435.2 72.353.2435.3		72.354.2435.0 72.354.2435.1 72.354.2435.2 72.354.2435.3	72.358.2435.0 72.358.2435.1 72.358.2435.2 72.358.2435.3		72.359.2435.0 72.359.2435.1 72.359.2435.2 72.359.2435.3
70.350.3235.0 70.350.3235.1 70.350.3235.2 70.350.3235.3		70.352.3235.0 70.352.3235.1 70.352.3235.2 70.352.3235.3			
70.353.3235.1 70.353.3235.2		70.354.3235.1 70.354.3235.2			

Industrial Multipole Connectors revo **components.com** Housings with double locking levers

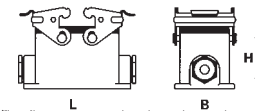
revos BASIC



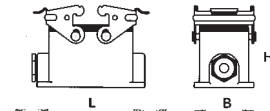
Hood type a



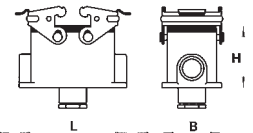
Hood type b



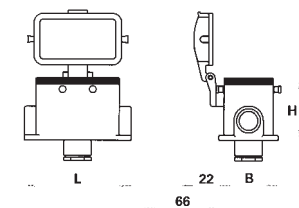
Hood type c



Hood type d



Housing type i



Housing open bottom

Housing type a



Housing closed bottom with two cable glands

Housing type b



Housing closed bottom with one cable gland on the left

Housing type c



Degree of protection IP 55

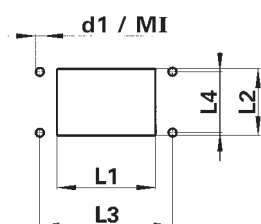
Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA

For inserts: **690 V** IEC 61 984

Number of poles	Thread	Gland type	L	W	H	Std. pack	Part no.	Part no.	Part no.
Size 10 for connector 10pole + ground	M 20	0 with cable gland	93	43	28	1	72.320.1028.0	72.330.1035.0	72.331.1035.0
		1 with threaded collar	94	52	54.5	1			
Size 16 for connector 16pole + ground	M 25	0 with cable gland	113	43	28	1	72.320.1628.0	72.330.1635.0	72.331.1635.0
		1 with threaded collar	117	52	56.5	1			
Size 24 for connector 24pole + ground	M 25	0 with cable gland	140	43	28	1	72.320.2428.0	72.330.2435.0	72.331.2435.0
		1 with threaded collar	144	52	56.5	1			
Size 32 for connector 32pole + ground			124	84	35	1	70.320.3228.0		

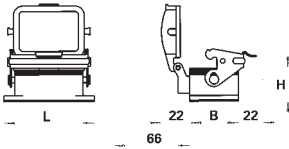
Mounting dimensions for open-bottom housings



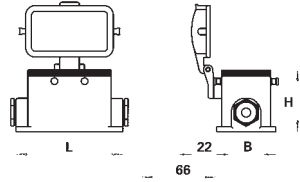
Housing size	Cut-out (mm)		Mounting holes (mm)		d1 (mm)	MI
	L1	L2	L3	L4		
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
32	117	81	148	70	6.4	M 6

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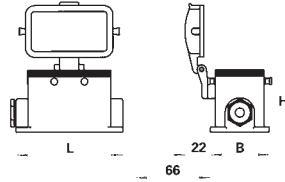
Hood type e



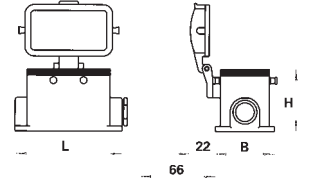
Housing type f



Housing type g



Housing type h



Housing closed bottom with cable gland at the bottom

Housing open bottom with protective cover

Housing closed bottom with two glands and protective cover

Housing closed bottom with cable gland on the left and protective cover

Housing closed bottom with cable gland on the right and protective cover

Housing closed bottom with cable gland at the bottom and protective cover

Housing type d



Housing type e



Housing type f



Housing type g



Housing type h



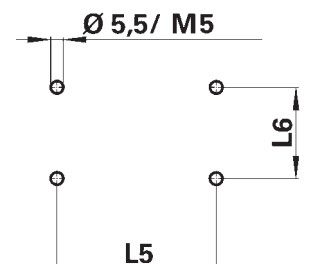
Housing type i



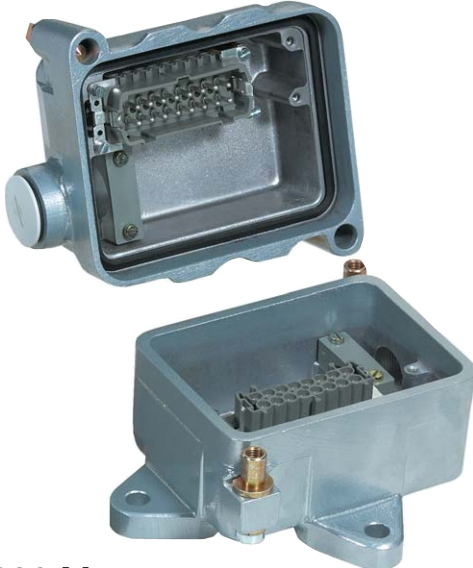
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
72.333.1035.0 72.333.1035.1	70.325.1028.0	72.340.1035.0 72.340.1035.1	72.341.1035.0 72.341.1035.1	72.342.1035.0 72.342.1035.1	72.343.1035.0 72.343.1035.1
72.333.1635.0 72.333.1635.1	70.325.1628.0	72.340.1635.0 72.340.1635.1	72.341.1635.0 72.341.1635.1	72.342.1635.0 72.342.1635.1	72.343.1635.0 72.343.1635.1
72.333.2435.0 72.333.2435.1	70.325.2428.0	72.340.2435.0 72.340.2435.1	72.341.2435.0 72.341.2435.1	72.342.2435.0 72.342.2435.1	72.343.2435.0 72.343.2435.1

Mounting dimensions for closed-bottom housings

Housing size	L5 (mm)	L6 (mm)
10	82	40
16	105	45
24	132	45



Industrial multipole connectors **onlinecomponents.com**
 Multiple multipole connectors
revos BASIC



600 V UL/CSA

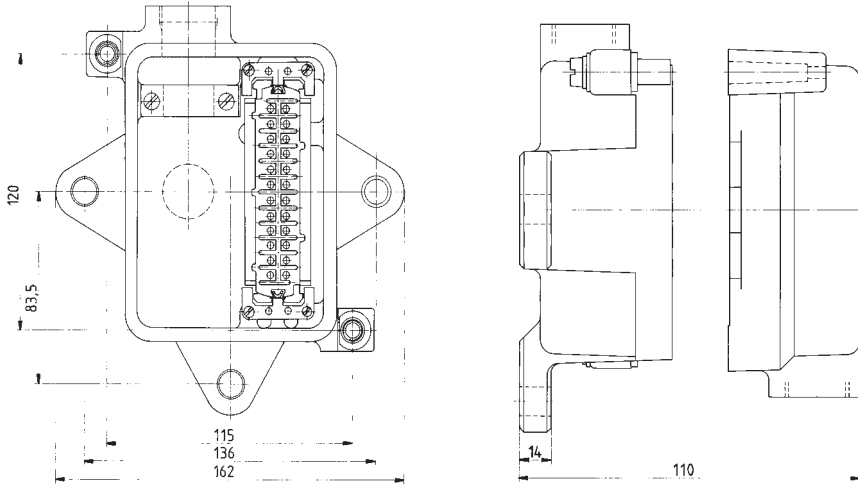
500 V, 16 A IEC 61 984

16pole and 24pole + ground

Degree of protection:
IP 65 with the appropriate cable glands

	Number of poles	Cable entry side	Thread	Part no.	Stand. pack
Housing		narrow side	M 25	75.900.0035.0	1
Hood		narrow side	M 25	75.900.0135.0	1
Female insert	16pole + ground			70.300.1640.0	10
Male insert	16pole + ground			70.310.1640.0	10
Female insert	24pole + ground			70.300.2440.0	10
Male insert	24pole + ground			70.310.2440.0	10
Housing with female insert	16pole	narrow side	M 25	75.931.1635.0	1
Housing with female insert	16pole	bottom	M 25	75.933.1635.0	1
Housing with male insert	16pole	narrow side	M 25	75.941.1635.0	1
Hood with male insert	16pole	narrow side	M 25	75.950.1635.0	1
Hood with female insert	16pole	narrow side	M 25	75.960.1635.0	1
Housing with female insert	24pole	narrow side	M 25	75.931.2435.0	1
Housing with female insert	24pole	bottom	M 25	75.933.2435.0	1
Housing with female insert	24pole	bottom/narrow side	M 25	75.934.2435.0	1
Housing with male insert	24pole	narrow side	M 25	75.941.2435.0	1
Hood with male insert	24pole	narrow side	M 25	75.950.2435.0	1
Hood with female insert	24pole	narrow side	M 25	75.960.2435.0	1
	Housings:	are delivered with M 25 threads With bottom entry threads, the side entry is sealed with a locking piece			
	Hoods:	are delivered with M25 threads and preassembled locking piece			

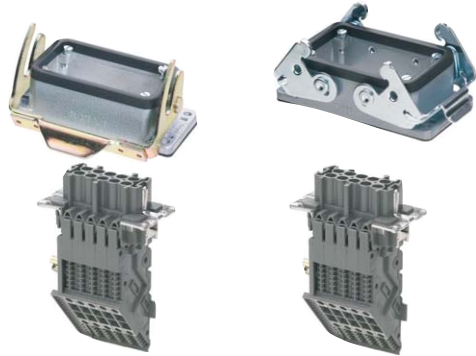
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Industrial multipole connectors, sets of 2 components



Housing with multipole adapter with single and double locking levers

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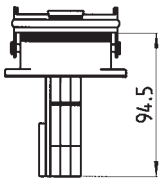
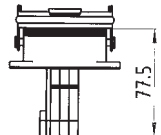
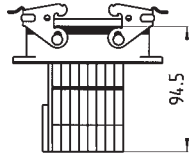
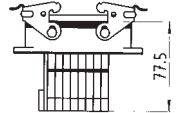


600 V UL/CSA

500 V, 16 A IEC 61 984

			Cross section	Approvals	Wire strip length	Stand. pack	
 <p>Single locking lever</p>	<p>Screw connection Housing with multipole adapter, long design (6 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG		12 mm	10	
		Single locking lever Female adapter insert, ground right				12 mm	10
		Female adapter insert, ground left				12 mm	10
		Male adapter insert, ground right				12 mm	10
Male adapter insert, ground left	12 mm	10					
 <p>Single locking lever</p>	<p>Screw connection Housing with multipole adapter, short design (4 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG		12 mm	10	
		Single locking lever				12 mm	10
		Female adapter insert, ground right				12 mm	10
		Female adapter insert, ground left				12 mm	10
Male adapter insert, ground right	12 mm	10					
Male adapter insert, ground left	12 mm	10					
 <p>Double locking lever</p>	<p>Screw connection Housing with multipole adapter, long design (6 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG		12 mm	10	
		Double locking lever				12 mm	10
		Female adapter insert, ground right				12 mm	10
		Female adapter insert, ground left				12 mm	10
Male adapter insert, ground right	12 mm	10					
Male adapter insert, ground left	12 mm	10					
 <p>Double locking lever</p>	<p>Screw connection Housing with multipole adapter, short design (4 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG		12 mm	10	
		Double locking lever				12 mm	10
		Female adapter insert, ground right				12 mm	10
		Female adapter insert, ground left				12 mm	10
Male adapter insert, ground right	12 mm	10					
Male adapter insert, ground left	12 mm	10					

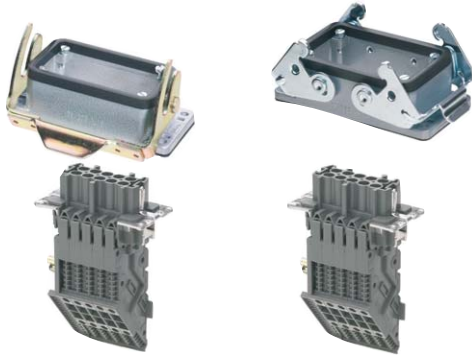
revos

6pole + ground	10pole + ground	16pole + ground	24pole + ground	
Part no.	Part no.	Part no.	Part no.	
70.945.0653.3 70.940.0653.3 70.955.0653.3 70.950.0653.3	71.945.1053.3 71.940.1053.3 71.955.1053.3 71.950.1053.3	71.945.1653.3 71.940.1653.3 71.955.1653.3 71.950.1653.3	71.945.2453.3 71.940.2453.3 71.955.2453.3 71.950.2453.3	 <p>For hoods see page 633</p>
70.945.0653.4 70.940.0653.4 70.955.0653.4 70.950.0653.4	71.945.1053.4 71.940.1053.4 71.955.1053.4 71.950.1053.4	71.945.1653.4 71.940.1653.4 71.955.1653.4 71.950.1653.4	71.945.2453.4 71.940.2453.4 71.955.2453.4 71.950.2453.4	 <p>For hoods see page 633</p>
	70.945.1053.3 70.940.1053.3 70.955.1053.3 70.950.1053.3	70.945.1653.3 70.940.1653.3 70.955.1653.3 70.950.1653.3	70.945.2453.3 70.940.2453.3 70.955.2453.3 70.950.2453.3	 <p>For hoods see page 636</p>
	70.945.1053.4 70.940.1053.4 70.955.1053.4 70.950.1053.4	70.945.1653.4 70.940.1653.4 70.955.1653.4 70.950.1653.4	70.945.2453.4 70.940.2453.4 70.955.2453.4 70.950.2453.4	 <p>For hoods see page 636</p>
				For inserts and multipole adapters see page 630

Industrial multipole connectors, sets of 2 components

Housing with multipole adapter with single and double locking levers

revos BASIC

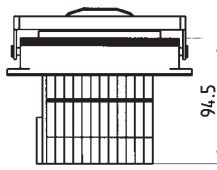
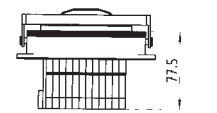
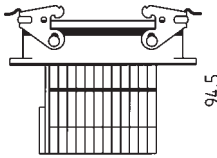
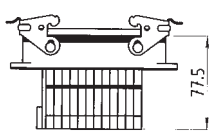
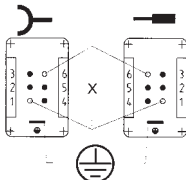
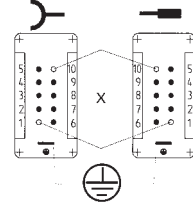
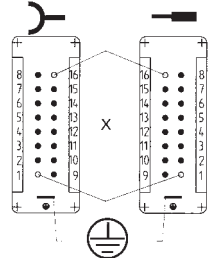
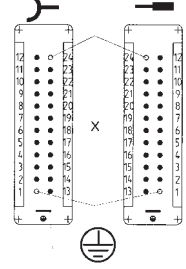


600 V UL/CSA

500 V, 16 A IEC 61 984

			Cross section	Approvals	Wire strip length	Stand. pack			
 <p>Single locking lever</p>	<p>Screw connection Housing with multipole adapter, long design (6 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG						
		Single locking lever					Female adapter insert, ground right	12 mm	10
							Female adapter insert, ground left	12 mm	10
							Male adapter insert, ground right	12 mm	10
		Male adapter insert, ground left	12 mm	10					
 <p>Single locking lever</p>	<p>Screw connection Housing with multipole adapter, short design (4 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG						
		Single locking lever					Female adapter insert, ground right	12 mm	10
							Female adapter insert, ground left	12 mm	10
							Male adapter insert, ground right	12 mm	10
		Male adapter insert, ground left	12 mm	10					
 <p>Double locking lever</p>	<p>Screw connection Housing with multipole adapter, long design (6 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG						
		Double locking lever					Female adapter insert, ground right	12 mm	10
							Female adapter insert, ground left	12 mm	10
							Male adapter insert, ground right	12 mm	10
		Male adapter insert, ground left	12 mm	10					
 <p>Double locking lever</p>	<p>Screw connection Housing with multipole adapter, short design (4 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG						
		Double locking lever					Female adapter insert, ground right	12 mm	10
							Female adapter insert, ground left	12 mm	10
							Male adapter insert, ground right	12 mm	10
		Male adapter insert, ground left	12 mm	10					

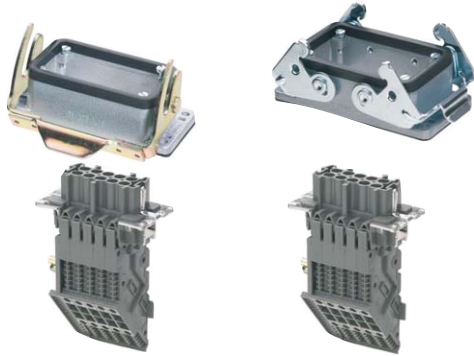
revos

6pole + ground	10pole + ground	16pole + ground	24pole + ground	
Part no.	Part no.	Part no.	Part no.	
72.945.0653.0 72.940.0653.0	77.945.1053.0 77.940.1053.0	77.945.1653.0 77.940.1653.0	77.945.2453.0 77.940.2453.0	 <p>For hoods see page 656</p>
72.955.0653.0 72.950.0653.0	77.955.1053.0 77.950.1053.0	77.955.1653.0 77.950.1653.0	77.955.2453.0 77.950.2453.0	
72.945.0653.4 72.940.0653.4	77.945.1053.4 77.940.1053.4	77.945.1653.4 77.940.1653.4	77.945.2453.4 77.940.2453.4	 <p>For hoods see page 656</p>
72.955.0653.4 72.950.0653.4	77.955.1053.4 77.950.1053.4	77.955.1653.4 77.950.1653.4	77.955.2453.4 77.950.2453.4	
	72.945.1053.0 72.940.1053.0	72.945.1653.0 72.940.1653.0	72.945.2453.0 72.940.2453.0	 <p>For hoods see page 660</p>
	72.955.1053.0 72.950.1053.0	72.955.1653.0 72.950.1653.0	72.955.2453.0 72.950.2453.0	
	72.945.1053.4 72.940.1053.4	72.945.1653.4 72.940.1653.4	72.945.2453.4 72.940.2453.4	 <p>For hoods see page 660</p>
	72.955.1053.4 72.950.1053.4	72.955.1653.4 72.950.1653.4	72.955.2453.4 72.950.2453.4	
<p>Pole configuration 6pole + ground</p> 	<p>Pole assignment 10pole + ground</p> 	<p>Pole assignment 16pole + ground</p> 	<p>Pole assignment 24pole + ground</p> 	<p>For inserts and multipole adapters see page 654</p> <p>X = switching contacts (2 shortened male pins)</p>

Industrial multipole connectors, sets of 2 components

Housing with multipole adapter with single and double locking levers

revos BASIC

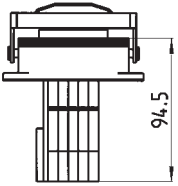
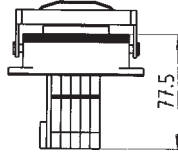
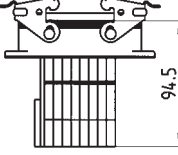
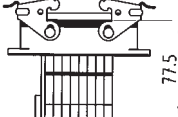
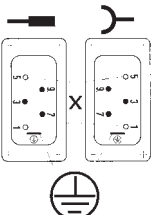
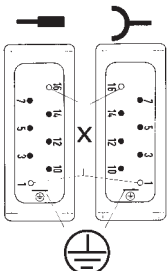
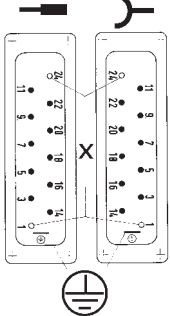


600 V UL/CSA

690 V/400 V, 16 A IEC 61 984

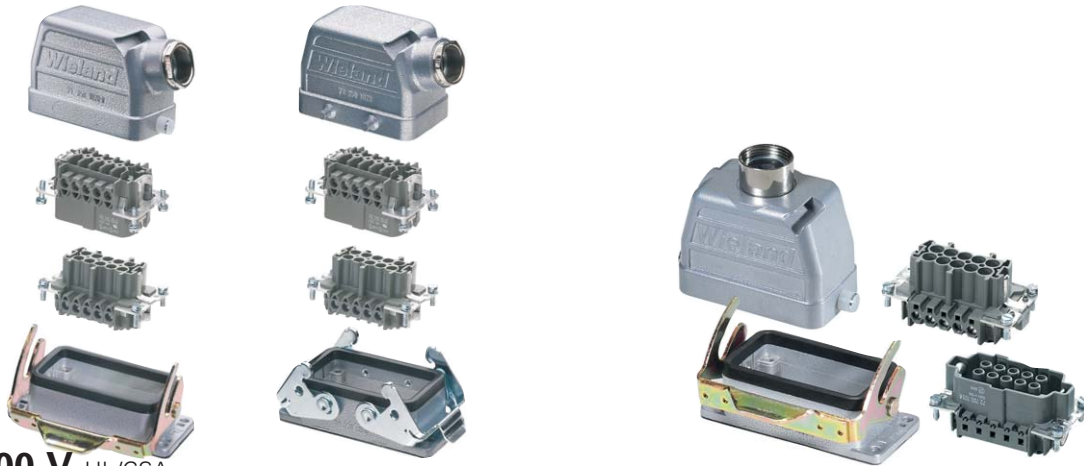
			Cross section	Approvals	Wire strip length	Stand. pack	
 <p>Single locking lever</p>	<p>Screw connection Housing with multipole adapter, long design (6 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG				
		Single locking lever					
		Female adapter insert, ground right				12 mm	10
		Female adapter insert, ground left				12 mm	10
		Male adapter insert, ground right			12 mm	10	
		Male adapter insert, ground left			12 mm	10	
 <p>Single locking lever</p>	<p>Screw connection Housing with multipole adapter, short design (4 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG				
		Single locking lever					
		Female adapter insert, ground right				12 mm	10
		Female adapter insert, ground left				12 mm	10
		Male adapter insert, ground right			12 mm	10	
		Male adapter insert, ground left			12 mm	10	
 <p>Double locking lever</p>	<p>Screw connection Housing with multipole adapter, long design (6 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG				
		Double locking lever					
		Female adapter insert, ground right				12 mm	10
		Female adapter insert, ground left				12 mm	10
		Male adapter insert, ground right			12 mm	10	
		Male adapter insert, ground left			12 mm	10	
 <p>Double locking lever</p>	<p>Screw connection Housing with multipole adapter, short design (4 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled</p>	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG				
		Double locking lever					
		Female adapter insert, ground right				12 mm	10
		Female adapter insert, ground left				12 mm	10
		Male adapter insert, ground right			12 mm	10	
		Male adapter insert, ground left			12 mm	10	

revos

3pole + ground	6pole + ground	10pole + ground	
Part no.	Part no.	Part no.	
71.965.0353.3 71.960.0353.3 71.975.0353.3 71.970.0353.3	71.965.0653.3 71.960.0653.3 71.975.0653.3 71.970.0653.3	71.965.1053.3 71.960.1053.3 71.975.1053.3 71.970.1053.3	 <p>For hoods see page 644</p>
71.965.0353.4 71.960.0353.4 71.975.0353.4 71.970.0353.4	71.965.0653.4 71.960.0653.4 71.975.0653.4 71.970.0653.4	71.965.1053.4 71.960.1053.4 71.975.1053.4 71.970.1053.4	 <p>For hoods see page 644</p>
70.965.0353.3 70.960.0353.3 70.975.0353.3 70.970.0353.3	70.965.0653.3 70.960.0653.3 70.975.0653.3 70.970.0653.3	70.965.1053.3 70.960.1053.3 70.975.1053.3 70.970.1053.3	 <p>For hoods see page 648</p>
70.965.0353.4 70.960.0353.4 70.975.0353.4 70.970.0353.4	70.965.0653.4 70.960.0653.4 70.975.0653.4 70.970.0653.4	70.965.1053.4 70.960.1053.4 70.975.1053.4 70.970.1053.4	 <p>For hoods see page 648</p>
<p>Pole assignment 3pole + ground</p> 	<p>Pole assignment 6pole + ground</p> 	<p>Pole assignment 10pole + ground</p> 	<p>For inserts and multipole adapters see page 642</p> <p>X = switching contacts (2 shortened male pins)</p>



Industrial multipole connectors, sets of 4 components with double locking levers

revos BASIC



600 V UL/CSA

500 V, 16 A IEC 61 984





Hood/housing size	Number of poles	Thread	Stand. pack	Part no.	Female insert Screw connection	Male insert Screw connection
For technical information see the individual components					 70.300.xx40.0	 70.310.xx40.0
6	6pole + ground	M 20	1	99.700.0000.6	●	●
10	10pole + ground	M 20	1	99.701.0000.6	●	●
16	16pole + ground	M 25	1	99.702.0000.6	●	●
24	24pole + ground	M 25	1	99.703.0000.6	●	●
6	6pole + ground	M 25	1	99.706.0000.6	●	●
10	10pole + ground	M 25	1	99.707.0000.6	●	●
16	16pole + ground	M 32	1	99.708.0000.6	●	●
24	24pole + ground	M 32	1	99.709.0000.6	●	●
6	6pole + ground	M 25	1	99.718.0000.6	●	●
10	10pole + ground	M 25	1	99.719.0000.6	●	●
16	16pole + ground	M 32	1	99.720.0000.6	●	●
24	24pole + ground	M 32	1	99.721.0000.6	●	●
6	6pole + ground	M 20	1	99.724.0000.6	●	●
10	10pole + ground	M 20	1	99.725.0000.6	●	●
16	16pole + ground	M 25	1	99.726.0000.6	●	●
24	24pole + ground	M 25	1	99.727.0000.6	●	●

revos

● parts belonging to the set of 4 components

Connector set complete with:

Female and male inserts plugged together, inserted in the mated hood and housing (unassembled), locked

<p>Hood with narrow-side entry metric cable gland</p>  <p>70.35x.xx35.0</p>	<p>Hood with top entry metric cable gland</p>  <p>70.352.xx35.0</p>	<p>Open-bottom housing</p>  <p>70.320.xx28.0</p>	<p>Closed-bottom housing with one metric cable gland</p>  <p>70.331.xx35.0</p>
● ● ● ●		● ● ● ●	
● ● ● ●		● ● ● ● ●	
	● ● ● ●	● ● ● ● ●	
● ● ● ●			● ● ● ●

Multipole connector with latching frame

revos BASIC



600 V_{CSA}

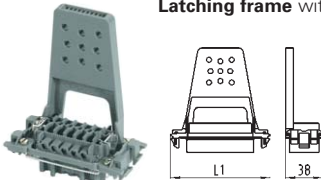










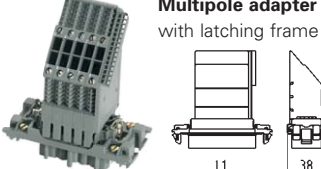



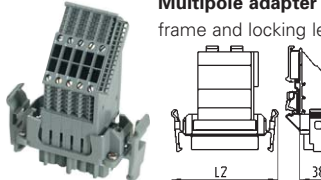



500 V, 16 A IEC 61 984

Latching frame to be inserted in sheet metal cut-out, and for use in cable to cable couplings.

Screw connection 0.5 – 2.5 mm² solid/fine stranded
 20 – 12 AWG
 Rated current 16 A
 Rated voltage VDE 500 V*
 Rated voltage CSA 600 V

* The mounting style might change the air and creepage distances and influence the rated voltage.

For accessories and marking facilities see page 788

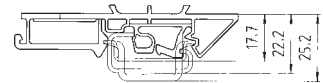
		Approvals	Wire strip length	Stand. pack
 <p>Latching frame with strain relief</p>	Female insert		7 mm	10
	Male insert		7 mm	10
 <p>Latching frame</p>	Female insert		7 mm	10
	Male insert		7 mm	10
 <p>Latching frame with strain relief and locking levers</p>	Female insert		7 mm	10
	Male insert		7 mm	10
 <p>Latching frame with locking levers</p>	Female insert		7 mm	10
	Male insert		7 mm	10
 <p>Multipole adapter with latching frame</p>	Female insert, ground right		12 mm	10
	Female insert, ground right with U-foot			
	Female insert, ground left		12 mm	10
	Female insert, ground left with U-foot			
 <p>Multipole adapter with latching frame and locking levers</p>	Male insert, ground right		12 mm	10
	Male insert, ground right with U-foot			
	Male insert, ground left		12 mm	10
	Male insert, ground left with U-foot			

revos

6pole + ground	10pole + ground	16pole + ground	24pole + ground
Part no.	Part no.	Part no.	Part no.
Z5.570.0156.0	Z5.570.0256.0	Z5.570.0056.0	Z5.570.0356.0
Z5.571.0156.0	Z5.571.0256.0	Z5.571.0056.0	Z5.571.0356.0
Z5.570.1156.0	Z5.570.1256.0	Z5.570.1056.0	Z5.570.1356.0
Z5.571.1156.0	Z5.571.1256.0	Z5.571.1056.0	Z5.571.1356.0
Z5.570.2156.0	Z5.570.2256.0	Z5.570.2056.0	Z5.570.2356.0
Z5.571.2156.0	Z5.571.2256.0	Z5.571.2056.0	Z5.571.2356.0
Z5.570.3156.0	Z5.570.3256.0	Z5.570.3056.0	Z5.570.3356.0
Z5.571.3156.0	Z5.571.3256.0	Z5.571.3056.0	Z5.571.3356.0
Z5.572.1156.0 Z5.572.5156.0 Z5.572.0156.0 Z5.572.4156.0	Z5.572.1256.0 Z5.572.5256.0 Z5.572.0256.0 Z5.572.4256.0	Z5.572.1056.0 Z5.572.5056.0 Z5.572.0056.0 Z5.572.4056.0	Z5.572.1356.0 Z5.572.5356.0 Z5.572.0356.0 Z5.572.4356.0
Z5.573.1156.0 Z5.573.5156.0 Z5.573.0156.0 Z5.573.4156.0	Z5.573.1256.0 Z5.573.5256.0 Z5.573.0256.0 Z5.573.4256.0	Z5.573.1056.0 Z5.573.5056.0 Z5.573.0056.0 Z5.573.4056.0	Z5.573.1356.0 Z5.573.5356.0 Z5.573.0356.0 Z5.573.4356.0
Z5.572.3156.0 Z5.572.7156.0 Z5.572.2156.0 Z5.572.6156.0	Z5.572.3256.0 Z5.572.7256.0 Z5.572.2256.0 Z5.572.6256.0	Z5.572.3056.0 Z5.572.7056.0 Z5.572.2056.0 Z5.572.6056.0	Z5.572.3356.0 Z5.572.7356.0 Z5.572.2356.0 Z5.572.6356.0
Z5.573.3156.0 Z5.573.7156.0 Z5.573.2156.0 Z5.573.6156.0	Z5.573.3256.0 Z5.573.7256.0 Z5.573.2256.0 Z5.573.6256.0	Z5.573.3056.0 Z5.573.7056.0 Z5.573.2056.0 Z5.573.6056.0	Z5.573.3356.0 Z5.573.7356.0 Z5.573.2356.0 Z5.573.6356.0

Universal foot, 23 mm wide

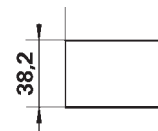
05.583.0053.0



Delivered as standard component where indicated

Cut-out for latching frames

Sheet metal: 2 ± 0.05 mm thick



Housing size	L1 (mm)	L2 (mm)	L3 (mm)
6	67.5	74.1	62.5
10	80.9	87.5	75.9
16	101	106.5	96
24	127.8	134.4	122.8

Industrial multipole connector onlinecomponents.com Multipole connector with latching frame **revos BASIC**



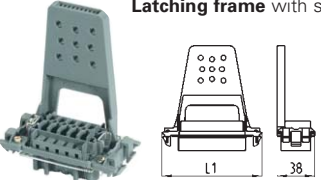
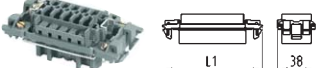
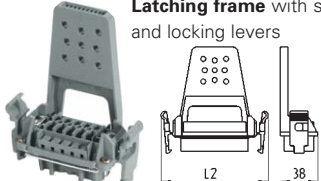
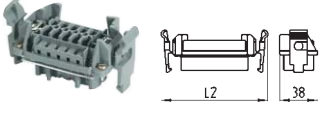
600 V CSA
500 V, 16 A IEC 61 984

Latching frame to be inserted in sheet metal cut-out, and for use in cable to cable couplings.

Crimp connection 0,5 – 4 mm² fine stranded
 20 – 12 AWG
 Rated current 16 A
 Rated voltage VDE 500 V*
 Rated voltage CSA 600 V

* The mounting style might change the air and creepage distances and influence the rated voltage.

For accessories and marking facilities see page 788

		Approvals	Wire strip length	Stand. pack
 <p>Latching frame with strain relief</p>	Female insert	Ⓢ	7 mm	10
	Male insert	Ⓢ	7 mm	10
 <p>Latching frame</p>	Female insert	Ⓢ	7 mm	10
	Male insert	Ⓢ	7 mm	10
 <p>Latching frame with strain relief and locking levers</p>	Female insert	Ⓢ	7 mm	10
	Male insert	Ⓢ	7 mm	10
 <p>Latching frame with locking levers</p>	Female insert	Ⓢ	7 mm	10
	Male insert	Ⓢ	7 mm	10

revos

Contacts for crimp version

Female contacts



Male contacts



Crimping tool
Crimping die "B"
Contact positioner "3"
Extraction tool

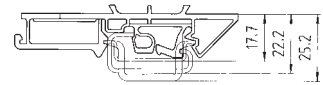
Ø mm²	AWG	Part no.	Stand. pack	Ø mm²	AWG	Part no.	Stand. pack
		tin-plated				gold-plated	
0.5	20 AWG	02.123.7021.0	200	0.5	20 AWG	02.123.7001.0	200
0.75 - 1	18 AWG	02.123.7121.0	200	0.75 - 1	18 AWG	02.123.7101.0	
1.5	16 AWG	02.123.7221.0	200	1.5	16 AWG	02.123.7201.0	
2.5	14 AWG	02.123.7321.0	200	2.5	14 AWG	02.123.7301.0	
4	12 WG	02.123.7421.0	200	4	12 WG	02.123.7401.0	
0.5	20 AWG	05.543.7021.0	200	0.5	20 AWG	05.543.7001.0	200
0.75 - 1	18 AWG	05.543.7121.0	200	0.75 - 1	18 AWG	05.543.7101.0	
1.5	16 AWG	05.543.7221.0	200	1.5	16 AWG	05.543.7201.0	
2.5	14 AWG	05.543.7321.0	200	2.5	14 AWG	05.543.7301.0	
4	12 AWG	05.543.7421.0	200	4	12 AWG	05.543.7401.0	
		95.101.0800.0	1			silver-plated upon request	
		05.502.2100.0	1				
		05.502.3300.0	1				
		05.502.3500.0	1				

6pole + ground	10pole + ground	16pole + ground	24pole + ground
----------------	-----------------	-----------------	-----------------

Part no.	Part no.	Part no.	Part no.
Z5.570.4156.0	Z5.570.4256.0	Z5.570.4056.0	Z5.570.4356.0
Z5.571.4156.0	Z5.571.4256.0	Z5.571.4056.0	Z5.571.4356.0
Z5.570.5156.0	Z5.570.5256.0	Z5.570.5056.0	Z5.570.5356.0
Z5.571.5156.0	Z5.571.5256.0	Z5.571.5056.0	Z5.571.5356.0
Z5.570.6656.0	Z5.570.6756.0	Z5.570.6556.0	Z5.570.6856.0
Z5.571.6656.0	Z5.571.6756.0	Z5.571.6556.0	Z5.571.6856.0
Z5.570.8656.0	Z5.570.8756.0	Z5.570.8556.0	Z5.570.8856.0
Z5.571.8656.0	Z5.571.8756.0	Z5.571.8556.0	Z5.571.8856.0

Universal foot, 23 mm wide

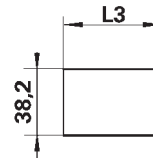
05.583.0053.0



Delivered as standard component where indicated

Cut-out for latching frames

Sheet metal: 2 ± 0.05 mm thick



Housing size	L1 (mm)	L2 (mm)	L3 (mm)
6	67.5	74.1	62.5
10	80.9	87.5	75.9
16	101	106.5	96
24	127.8	134.4	122.8

Multipole connector with latching frame

revos BASIC



600 V CSA

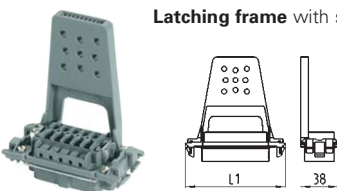
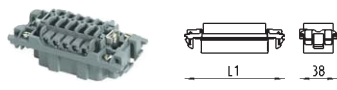
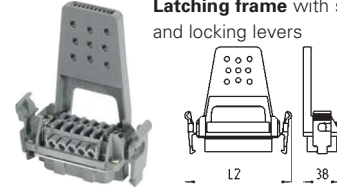
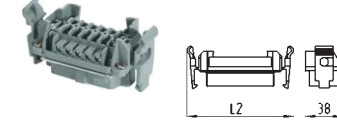
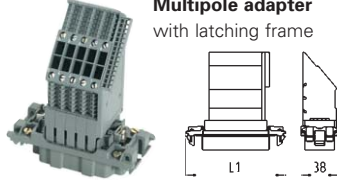

690 V, 16 A IEC 61 984

Latching frame to be inserted in sheet metal cut-out, and for use in cable to cable couplings.

Screw connection 0.5 – 2.5 mm² solid/fine stranded
 20 – 12 AWG
 Rated current 16 A
 Rated voltage VDE
 – multipole connector 690 V ~*
 – multipole adapter 500 V ~*
 Rated voltage CSA 600 V

* The mounting style might change the air and creepage distances and influence the rated voltage.

For accessories and marking facilities see page 788

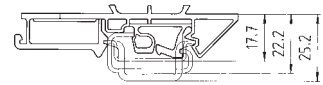
		Approvals	Wire strip length	Stand. pack
 <p>Latching frame with strain relief</p>	Female insert	Ⓢ	7 mm	10
	Male insert	Ⓢ	7 mm	10
 <p>Latching frame</p>	Female insert	Ⓢ	7 mm	10
	Male insert	Ⓢ	7 mm	10
 <p>Latching frame with strain relief and locking levers</p>	Female insert	Ⓢ	7 mm	10
	Male insert	Ⓢ	7 mm	10
 <p>Latching frame with locking levers</p>	Female insert	Ⓢ	7 mm	10
	Male insert	Ⓢ	7 mm	10
 <p>Multipole adapter with latching frame</p>	Female insert, ground right	Ⓢ	12 mm	10
	Female insert, ground right with U-foot	Ⓢ		
	Female insert, ground left	Ⓢ	12 mm	10
	Female insert, ground left with U-foot	Ⓢ		
 <p>Multipole adapter with latching frame and locking levers</p>	Male insert, ground right	Ⓢ	12 mm	10
	Male insert, ground right with U-foot	Ⓢ		
	Male insert, ground left	Ⓢ	12 mm	10
	Male insert, ground left with U-foot	Ⓢ		

revos

6pole + ground	10pole + ground	16pole + ground	24pole + ground
Part no.	Part no.	Part no.	Part no.
Z5.570.0656.0	Z5.570.0756.0	Z5.570.0556.0	Z5.570.0856.0
Z5.571.0656.0	Z5.571.0756.0	Z5.571.0556.0	Z5.571.0856.0
Z5.570.1656.0	Z5.570.1756.0	Z5.570.1556.0	Z5.570.1856.0
Z5.571.1656.0	Z5.571.1756.0	Z5.571.1556.0	Z5.571.1856.0
Z5.570.2656.0	Z5.570.2756.0	Z5.570.2556.0	Z5.570.2856.0
Z5.571.2656.0	Z5.571.2756.0	Z5.571.2556.0	Z5.571.2856.0
Z5.570.3656.0	Z5.570.3756.0	Z5.570.3556.0	Z5.570.3856.0
Z5.571.3656.0	Z5.571.3756.0	Z5.571.3556.0	Z5.571.3856.0
Z5.572.1656.0 Z5.572.5656.0 Z5.572.0656.0 Z5.572.4656.0	Z5.572.1756.0 Z5.572.5756.0 Z5.572.0756.0 Z5.572.4756.0	Z5.572.1556.0 Z5.572.5556.0 Z5.572.0556.0 Z5.572.4556.0	Z5.572.1856.0 Z5.572.5856.0 Z5.572.0856.0 Z5.572.4856.0
Z5.573.1656.0 Z5.573.5656.0 Z5.573.0656.0 Z5.573.4656.0	Z5.573.1756.0 Z5.573.5756.0 Z5.573.0756.0 Z5.573.4756.0	Z5.573.1556.0 Z5.573.5556.0 Z5.573.0556.0 Z5.573.4556.0	Z5.573.1856.0 Z5.573.5856.0 Z5.573.0856.0 Z5.573.4856.0
Z5.572.3656.0 Z5.572.7656.0 Z5.572.2656.0 Z5.572.6656.0	Z5.572.3756.0 Z5.572.7756.0 Z5.572.2756.0 Z5.572.6756.0	Z5.572.3556.0 Z5.572.7556.0 Z5.572.2556.0 Z5.572.6556.0	Z5.572.3856.0 Z5.572.7856.0 Z5.572.2856.0 Z5.572.6856.0
Z5.573.3656.0 Z5.573.7656.0 Z5.573.2656.0 Z5.573.6656.0	Z5.573.3756.0 Z5.573.7756.0 Z5.573.2756.0 Z5.573.6756.0	Z5.573.3556.0 Z5.573.7556.0 Z5.573.2556.0 Z5.573.6556.0	Z5.573.3856.0 Z5.573.7856.0 Z5.573.2856.0 Z5.573.6856.0

Universal foot, 23 mm wide

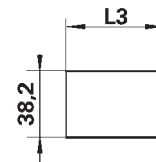
05.583.0053.0



Delivered as standard component where indicated

Cut-out for latching frames

Sheet metal: 2 ± 0.05 mm thick



Housing size	L1 (mm)	L2 (mm)	L3 (mm)
6	67.5	74.1	62.5
10	80.9	87.5	75.9
16	101	106.5	96
24	127.8	134.4	122.8

Multipole connector with latching frame

revos BASIC



600 V CSA


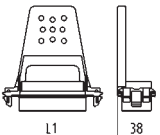

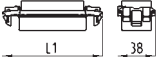

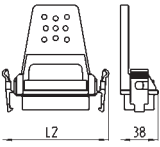

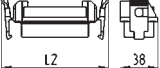
690 V, 16 A IEC 61 984

Latching frame to be inserted in sheet metal cut-out, and for use in cable to cable couplings.

Crimp connection 0,5 – 4 mm² fine stranded
 20 – 12 AWG
 Rated current 16 A
 Rated voltage VDE 690 V ~*
 Rated voltage CSA 600 V

* The mounting style might change the air and creepage distances and influence the rated voltage.

For accessories and marking facilities see page 788

		Dimensions in mm			Approvals	Wire strip length	Stand. pack
		L	W	H			
 <p>Latching frame with strain relief</p> 	Female insert				Ⓢ	7 mm	10
	Male insert				Ⓢ	7 mm	10
 <p>Latching frame</p> 	Female insert				Ⓢ	7 mm	10
	Male insert				Ⓢ	7 mm	10
 <p>Latching frame with strain relief and locking levers</p> 	Female insert				Ⓢ	7 mm	10
	Male insert				Ⓢ	7 mm	10
 <p>Latching frame with locking levers</p> 	Female insert				Ⓢ	7 mm	10
	Male insert				Ⓢ	7 mm	10

revos

Contacts for crimp version

Female contacts



Male contacts



Crimping tool
Crimping die "B"
Contact positioner "3"
Extraction tool

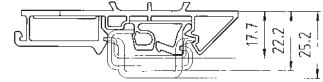
Ø mm ²	AWG	Part no.	Stand. pack	Ø mm ²	AWG	Part no.	Stand. pack
		tin-plated				gold-plated	
0.5	20 AWG	02.123.7021.0	200	0.5	20 AWG	02.123.7001.0	
0.75 - 1	18 AWG	02.123.7121.0	200	0.75 - 1	18 AWG	02.123.7101.0	200
1.5	16 AWG	02.123.7221.0	200	1.5	16 AWG	02.123.7201.0	
2.5	14 AWG	02.123.7321.0	200	2.5	14 AWG	02.123.7301.0	
4	12 WG	02.123.7421.0	200	4	12 WG	02.123.7401.0	
0.5	20 AWG	05.543.7021.0	200	0.5	20 AWG	05.543.7001.0	
0.75 - 1	18 AWG	05.543.7121.0	200	0.75 - 1	18 AWG	05.543.7101.0	200
1.5	16 AWG	05.543.7221.0	200	1.5	16 AWG	05.543.7201.0	
2.5	14 AWG	05.543.7321.0	200	2.5	14 AWG	05.543.7301.0	
4	12 AWG	05.543.7421.0	200	4	12 AWG	05.543.7401.0	
		95.101.0800.0	1				
		05.502.2100.0	1			silver-plated upon request	
		05.502.3300.0	1				
		05.502.3500.0	1				

6pole + ground	10pole + ground	16pole + ground	24pole + ground
----------------	-----------------	-----------------	-----------------

Part no.	Part no.	Part no.	Part no.
Z5.570.4656.0	Z5.570.4756.0	Z5.570.4556.0	Z5.570.4856.0
Z5.571.4656.0	Z5.571.4756.0	Z5.571.4556.0	Z5.571.4856.0
Z5.570.5656.0	Z5.570.5756.0	Z5.570.5556.0	Z5.570.5856.0
Z5.571.5656.0	Z5.571.5756.0	Z5.571.5556.0	Z5.571.5856.0
Z5.570.7656.0	Z5.570.7756.0	Z5.570.7556.0	Z5.570.7856.0
Z5.571.7656.0	Z5.571.7756.0	Z5.571.7556.0	Z5.571.7856.0
Z5.570.9656.0	Z5.570.9756.0	Z5.570.9556.0	Z5.570.9856.0
Z5.571.9656.0	Z5.571.9756.0	Z5.571.9556.0	Z5.571.9856.0

Universal foot, 23 mm wide

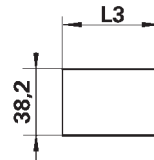
05.583.0053.0



Delivered as standard component where indicated

Cut-out for latching frames

Sheet metal: 2 ± 0.05 mm thick



Housing size	L1 (mm)	L2 (mm)	L3 (mm)
6	67.5	74.1	62.5
10	80.9	87.5	75.9
16	101	106.5	96
24	127.8	134.4	122.8

Multipole connector with latching frame

revos BASIC



600 V_{CSA}

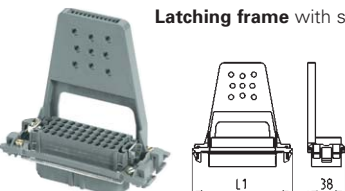


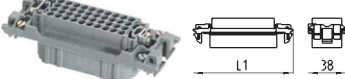


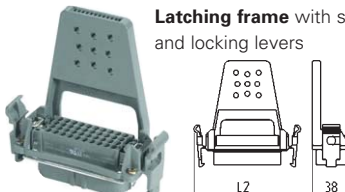


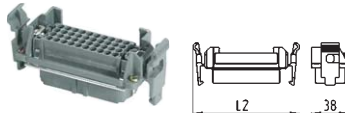


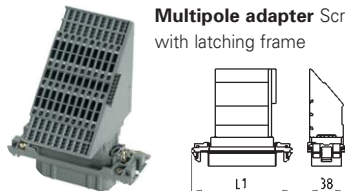









250 V, 10 A IEC 61 984

Latching frame to be inserted in sheet metal cut-out, and for use in cable to cable couplings.

Screw connection	0,5 – 2.5 mm ² solid/fine stranded 20 – 12 AWG
Crimp connection	0,2 – 1.5 mm ² fine stranded 24 – 16 AWG
Rated current	10 A
Rated voltage VDE	250 V*
Rated voltage CSA	600 V

* The mounting style might change the air and creepage distances and influence the rated voltage.

For accessories and marking facilities see page 788

		Approvals	Wire strip length	Stand. pack
Latching frame with strain relief 	Female insert in crimp version		4 mm	10
	Male insert in crimp version		4 mm	10
Latching frame 	Female insert in crimp version		4 mm	10
	Male insert in crimp version		4 mm	10
Latching frame with strain relief and locking levers 	Female insert in crimp version		4 mm	10
	Male insert in crimp version		4 mm	10
Latching frame with locking levers 	Female insert in crimp version		4 mm	10
	Male insert in crimp version		4 mm	10
Multipole adapter Screw version with latching frame 	Female insert, ground right		12 mm	4
	Female insert, ground right with U-foot			
	Female insert, ground left			
	Female insert, ground left with U-foot			
Multipole adapter Screw version with latching frame and locking levers 	Male insert, ground right		12 mm	4
	Male insert, ground right with U-foot			
	Male insert, ground left			
	Male insert, ground left with U-foot			

revos

Contacts for crimp version

Female contacts



Male contacts



Ø mm ²	AWG	Part no.	Stand. pack	Ø mm ²	AWG	Part no.	Stand. pack
0.2 – 0.56 mm ²	24 – 20	tin-plated		0.5 – 1.50 mm ²	20 – 16	gold-plated	
Reel contacts		02.124.0900.0	5000	Reel contacts		02.124.1400.0	5000
Single contacts		02.124.0929.0	200	Single contacts		02.124.1429.0	200
0.75 – 1.50 mm ²	18 – 16						
Reel contacts		02.124.1000.0	5000				
Single contacts		02.124.1029.0	200				
0.2 – 0.56 mm ²	24 – 20			0.5 – 1.50 mm ²	20 – 16		
Reel contacts		05.544.0900.0	5000	Reel contacts		05.544.1400.0	5000
Single contacts		05.544.0929.0	200	Single contacts		05.544.1429.0	200
0.75 – 1.50 mm ²	18 – 16						
Reel contacts		05.544.1000.0	5000				
Single contacts		05.544.1029.0	200				
				Crimping tool		95.101.0800.0	1
				Crimping die "E"		05.502.2400.0	1
				Contact positioner "2"		05.502.3200.0	1
				Extraction tool		05.502.0000.0	1

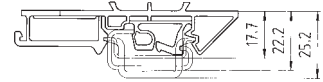
40pole + ground

64pole + ground

Part no.	Part no.
Z5.570.6056.0	Z5.570.6156.0
Z5.571.6056.0	Z5.571.6156.0
Z5.570.7056.0	Z5.570.7156.0
Z5.571.7056.0	Z5.571.7156.0
Z5.570.8056.0	Z5.570.8156.0
Z5.571.8056.0	Z5.571.8156.0
Z5.570.9056.0	Z5.570.9156.0
Z5.571.9056.0	Z5.571.9156.0
Z5.572.8356.0	Z5.572.8456.0
Z5.572.9356.0	Z5.572.9456.0
Z5.572.8056.0	Z5.572.8156.0
Z5.572.9156.0	Z5.572.9256.0
Z5.573.8356.0	Z5.573.8456.0
Z5.573.9356.0	Z5.573.9456.0
Z5.573.8056.0	Z5.573.8156.0
Z5.573.9156.0	Z5.573.9256.0
Z5.572.8956.0	Z5.572.9056.0
Z5.572.9756.0	Z5.572.9856.0
Z5.572.8656.0	Z5.572.8756.0
Z5.572.9556.0	Z5.572.9656.0
Z5.573.8956.0	Z5.573.9056.0
Z5.573.9756.0	Z5.573.9856.0
Z5.573.8656.0	Z5.573.8756.0
Z5.573.9556.0	Z5.573.9656.0

Universal foot, 23 mm wide

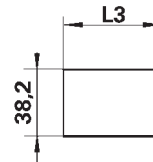
05.583.0053.0



Delivered as standard component where indicated

Cut-out for latching frames

Sheet metal: 2 ± 0.05 mm thick



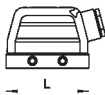
Housing size	L1 (mm)	L2 (mm)	L3 (mm)
40	101	106.5	96
64	127.8	134.4	122.8

Industrial Multipole Connectors onlinecomponents.com

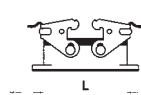
EMC hoods and housings for multipole connectors

revos BASIC

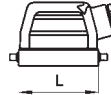
Hood
10-/16-/24 pole



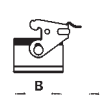
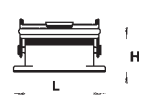
Open-bottom housing
10-/16-/24 pole





Hood
6 pole



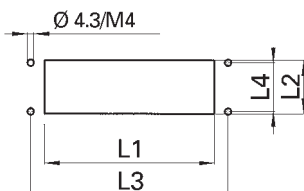
Open-bottom housing
6 pole



Suited for:
Multipole connector inserts
revos BASIC
revos FLEX

Number of poles	Thread	Cable gland type	L	W	H	Stand. pack	Hood Picture only for 10-/16-/24 pole	Open-bottom housing Picture only for 10-/16-/24 pole
Housing size 6 for multipole connectors 6pole + ground single locking lever	M 20	1 with thread	80	48	30.3	1		
	M 25	1 with thread	60	43	51	70.350.0645.1		
	M 32	1 with thread	60	43	70	70.353.0645.1 73.353.0645.1		
Housing size 10 for multipole connectors 10pole + ground double locking levers	M 25	1 with thread	93	48	30.3	1	70.350.1045.1	70.320.1038.0
	M 32	1 with thread	73	43	51	73.353.1045.1		
Housing size 16 for multipole connectors 16pole + ground double locking levers	M 32	1 with thread	113	48	30.3	1	70.353.1645.1	70.320.1638.0
	M 32	1 with thread	93.5	43	62	73.353.4045.1		
Housing size 24 for multipole connectors 24pole + ground double locking levers	M 32	1 with thread	140	48	30.3	1	70.353.2445.1	70.320.2438.0
	M 32	1 with thread	120	43	62	73.353.6445.1		

Mounting dimensions
and cut-outs for
open-bottom housings



Housing size	Cut-out (mm)		Mounting dimensions (mm)	
	L1	L2	L3	L4
6	52	35	70	32
10	65	35	83	32
16	85,5	35	103	32
24	112	35	130	32

Cable gland for EMC hoods/housings

Z5.507.4821.0 M 20
Z5.507.5021.0 M 25
Z5.507.5221.0 M 32



EMC hoods and housings for multiple connectors

revos

Multipole connectors function as an interface between the individual system components and influence the function of the entire system.

For this reason, Wieland Electric GmbH offers electromagnetic compatible (EMC) hoods and housings which help to maintain the function of the entire system.

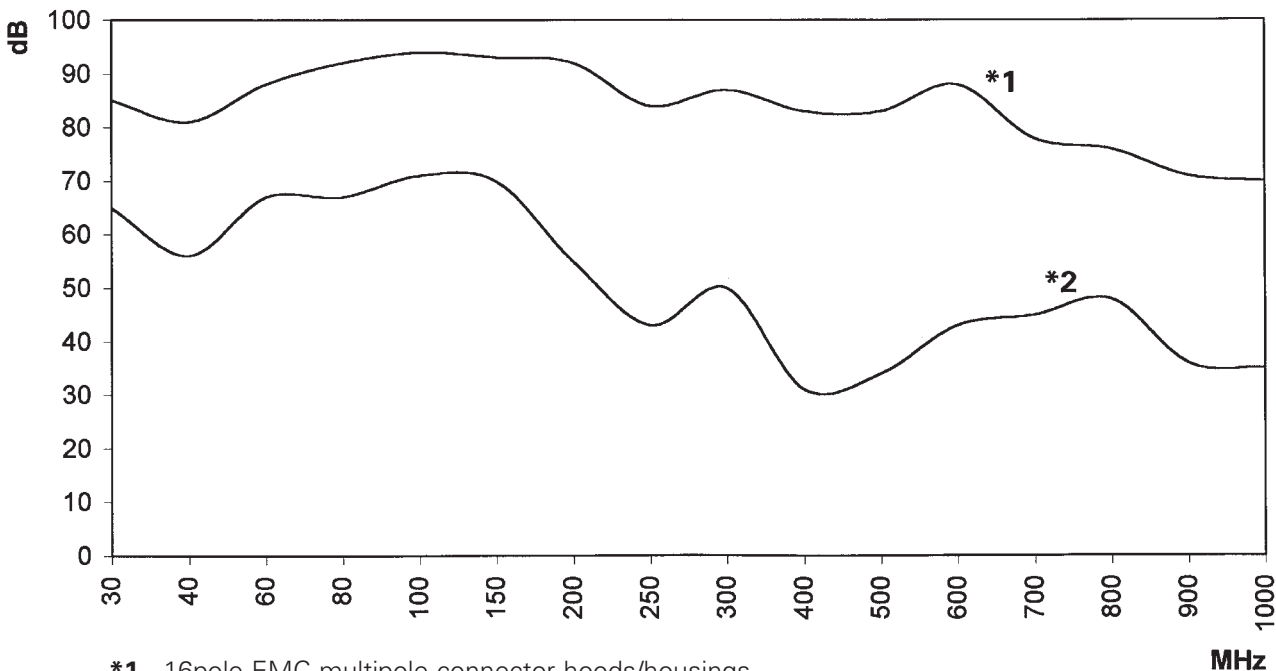
In former times we had to cope with the danger of interrupted cable shielding whenever they were connected via multipole connectors. The electrical signals could not sufficiently be shielded against electromagnetic fields.

The solution:

- ❑ Contact is made by putting an open shield over a special EMC cable gland for ground connection between the cable and the connector.
- ❑ Contact between the hood and the housing via a HF gasket (silver-plated contact zone). When the hood is plugged together with the housing, the unit forms a maze which guarantees the EMC protection on this interface.
- ❑ By means of screws, the housing is mounted to a metal partition plate for ground connection.
- ❑ Highly conductive surface plating of the EMC hoods and housings for improved contacting on the individual interfaces.

System advantages:

- High screening attenuation
- 360° HF overall protection
- Highly conductive surface of the hoods and housings
- 6/10/16/24pole hood and housing sizes in high and flat design
- Different hood and housing variants
- Degree of protection IP 65 with closed locking levers



*1 16pole EMC multipole connector hoods/housings

*2 16pole standard multipole connector hoods/housings with EMC cable glands

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Technical information

■ Approvals

UL, CSA, SEV, MEEI

■ Applicable standards

IEC 61 984

■ Contact inserts

Number of poles	6 + ground	/ 6 + ground	/ 4 + ground
Rated current	35 A	/ 35 A	/ 82 A
Rated voltage	400 V	/ 690 V	/ 690/400 V
Screw connection	2.5 – 6 mm ²	/ 2.5 – 6 mm ²	/ 6 – 16 mm ²
	14 – 8 AWG	/ 14 – 8 AWG	/ 10 – 4 AWG

Number of poles	4/6 + ground	/ 6/6 + ground
Rated current	35/16 A	/ 40/16 A
Rated voltage	690 V	/ 690/400 V + 400/230 V
Screw connection	4 x 2.5 – 6 mm ²	/ 6 x 4 – 10 mm ²
	4 x 14 – 8 AWG	/ 6 x 12 – 6 AWG
	6 x 1 – 2.5 mm ²	/ 6 x 1 – 2.5 mm ²
	6 x 16 – 12 AWG	/ 6 x 16 – 12 AWG

Number of poles	3/3/6 + ground	/ 4/2 + ground
Rated current	100/40/16 A	/ 82/16 A (70/16 A CSA)
Rated voltage	690/400 V	/ 690 V
	690/400 V	/ 400 V
	400/230 V	

Screw connection	3 x 10 – 25 mm ²	/ 4 x 6 – 16 mm ²
	3 x AWG 8 – 2	/ 4 x AWG 10 – 4
	3 x 4 – 10 mm ²	/ 2 x 1 – 2.5 mm ²
	3 x AWG 12 – 6	/ 2 x AWG 16 – 12
	6 x 1 – 2.5 mm ²	
	6 x AWG 16 – 12	

Nominal voltage accord. to UL	600 V
Nominal voltage accord. to CSA	600 V
Degree of pollution	3
Temperature range	–40 to +110 °C

■ Multipole adapters

Number of poles	6 + ground	/ 6 + ground	/ 4/6 + ground
Rated current	35 A	/ 35 A	/ 35/16 A
Rated voltage	400 V	/ 690 V	/ 500 V
Screw connection	2.5 – 6.0 mm ²	/ 2.5 – 6.0 mm ²	/ 4 x 2.5 – 6.0 mm ² / 6 x 1.5 – 4 mm ²
	14 – 8 AWG	/ 14 – 8 AWG	/ 4 x 14 – 8 AWG / 6 x 16 – 12 AWG

Nominal voltage accord. to UL	600 V
Nominal voltage accord. to CSA	600 V
Degree of pollution	3
Temperature range	–40 to +110 °C

■ Contacts

Material	copper alloy
Surface	tin-plated
Surface	silver-plated

■ Hoods and housings

Material	die cast aluminum alloy
Surface	silver gray, silicon-free finish
Locking levers	zinc-plated steel
Gaskets	NBR
Temperature range	–40 to +110 °C
Degree of protection accord. to DIN EN 60 529	
with latched locking levers	IP 55
with appropriate cable glands	IP 65



Industrial Multipole Connectors

Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with single locking levers, 6pole












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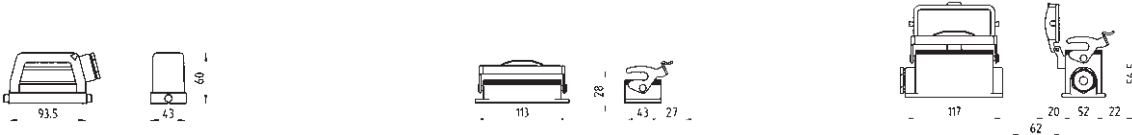
600 V UL/CSA

400 V, 35 A IEC 61 984

Degrees of protection: **IP 55; IP 65** with the appropriate cable glands

		Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Screw connection</p>	Female insert	2.5 – 6 mm ² 14 – 8 AWG		10 mm	silver-plated	10
	Male insert	2.5 – 6 mm ² 14 – 8 AWG		10 mm	silver-plated	10
 <p>Screw connection Multipole adapters</p>	Female insert, ground right	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
	Female insert, ground left	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
	Male insert, ground right	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
	Male insert, ground left	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
Number of poles	Thread	Cable gland type				Stand. pack
Housing size 16 for multipole connectors 6pole + ground	M 25	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief				1
		Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow-side entry cable gland on the left		
						
Number of poles	Thread	Cable gland type	Stand. pack	Part no.	Part no.	Part no.
Housing size 16 for multipole connectors 6pole + ground	M 25	0 with cable gland 1 with thread	1 1	71.320.1628.0	71.330.1635.0 71.330.1635.1	71.331.1635.0 71.331.1635.1

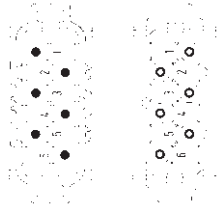
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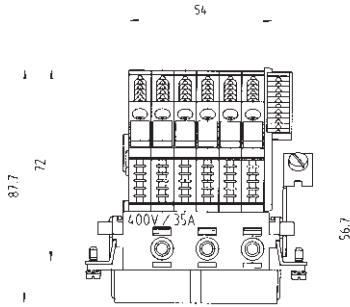
6pole + ground

Part no.
70.200.0653.0
70.210.0653.0
70.005.0653.0
70.000.0653.0
70.015.0653.0
70.010.0653.0

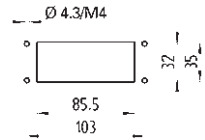
Pole assignment
Male insert 6pole + ground Female insert 6pole + ground



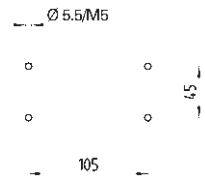
Dimensions of the multipole adapters



Mounting dimensions and cut-outs for open-bottom housings









Mounting dimensions for closed-bottom housings



Hood	Hood	Hood			
					

Part no.	Part no.	Part no.			
71.350.1635.0 71.350.1635.1 71.350.1635.2 71.350.1635.3	71.351.1635.0 71.351.1635.1 71.351.1635.2 71.351.1635.3	71.352.1635.0 71.352.1635.1 71.352.1635.2 71.352.1635.3			

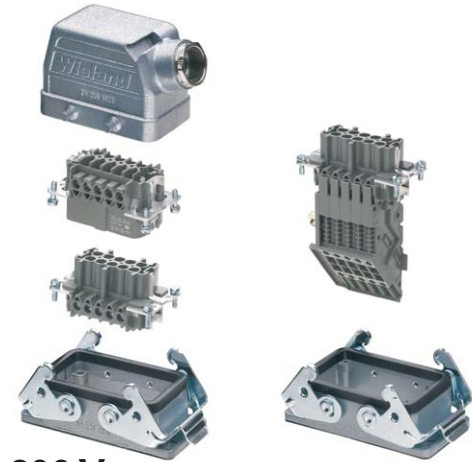
Closed-bottom housing with two bottom entry cable glands	Open-bottom housing with protective cover	Closed-bottom housing with two narrow-side entry cable glands and protective cover	Closed-bottom housing with narrow-side entry cable gland on the left and protective cover	Closed-bottom housing with narrow-side entry cable gland on the left and protective cover	Closed-bottom housing with bottom entry cable gland and protective cover
					

Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
71.333.1635.0 71.333.1635.1	71.325.1628.0	71.340.1635.0 71.340.1635.1	71.341.1635.0 71.341.1635.1	71.342.1635.0 71.342.1635.1	71.343.1635.0 71.343.1635.1



Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with double locking levers, 6pole





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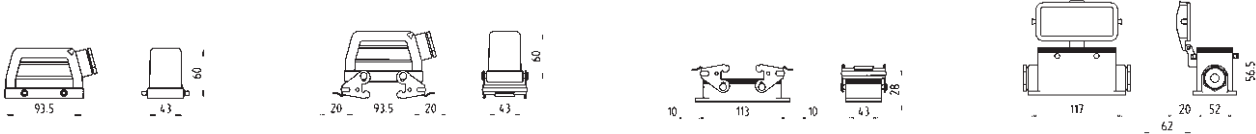
600 V UL/CSA

400 V, 35 A IEC 61 984

Degree of protection: IP 55; IP 65 with the appropriate cable glands

		Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Screw connection</p>	Female insert	2.5 – 6 mm ² 14 – 8 AWG		10 mm	silver-plated	10
	Male insert	2.5 – 6 mm ² 14 – 8 AWG		10 mm	silver-plated	10
 <p>Screw connection Multipole adapters</p>	Female insert, ground right	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
	Female insert, ground left	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
	Male insert, ground right	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
	Male insert, ground left	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
Number of poles	Thread	Cable gland type			Stand. pack	
Housing size 16 for multipole connectors 6pole + ground	M 25	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief				1
		Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow-side entry cable gland on the left		
						
Number of poles	Thread	Cable gland type	Stand. pack	Part no.	Part no.	Part no.
Housing size 16 for multipole connectors 6pole + ground	M 25	0 with cable gland 1 with thread	1 1 1	70.320.1628.0	70.330.1635.0 70.330.1635.1	70.331.1635.0 70.331.1635.1

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6pole + ground

Part no.	Pole assignment		Dimensions of the multipole adapters	Mounting dimensions and cut-outs for open-bottom housings
	Male insert 6pole + ground	Female insert 6pole + ground		
70.200.0653.0				
70.210.0653.0				
70.005.0653.0				
70.000.0653.0				
70.015.0653.0				
70.010.0653.0				Mounting dimensions for closed-bottom housings

Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.350.1635.0 70.350.1635.1 70.350.1635.2 70.350.1635.3	70.351.1635.0 70.351.1635.1 70.351.1635.2 70.351.1635.3	70.352.1635.0 70.352.1635.1 70.352.1635.2 70.352.1635.3	70.355.1635.0 70.355.1635.1 70.355.1635.2 70.355.1635.3	70.356.1635.0 70.356.1635.1 70.356.1635.2 70.356.1635.3	70.357.1635.0 70.357.1635.1 70.357.1635.2 70.357.1635.3
70.333.1635.0 70.333.1635.1	70.325.1628.0	70.340.1635.0 70.340.1635.1	70.341.1635.0 70.341.1635.1	70.342.1635.0 70.342.1635.1	70.343.1635.0 70.343.1635.1



Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with single locking levers, 6pole








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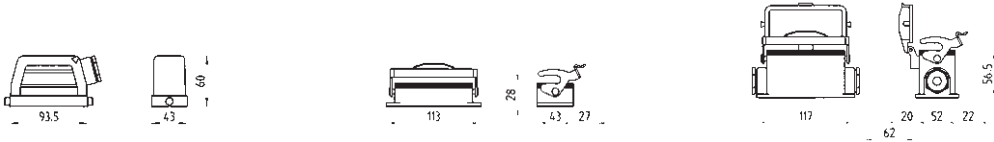
600 V UL/CSA

690 V, 35 A IEC 61 984

Degrees of protection: **IP 55; IP 65** with the appropriate cable glands

		Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Screw connection</p>	Female insert	2.5 – 6 mm ² 14 – 8 AWG		10 mm	silver-plated	10
	Male insert	2.5 – 6 mm ² 14 – 8 AWG		10 mm	silver-plated	10
 <p>Screw connection Multipole adapters</p>	Female insert, ground right	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
	Female insert, ground left	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
	Male insert, ground right	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
	Male insert, ground left	2.5 – 6 mm ² 14 – 8 AWG		12 mm	silver-plated	10
Number of poles	Thread	Cable gland type				Stand. pack
Housing size 16 for multipole connectors 6pole + ground	M 25	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief				1
		Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow-side entry cable gland on the left		
						
Number of poles	Thread	Cable gland type	Stand. pack	Part no.	Part no.	Part no.
Housing size 16 for multipole connectors 6pole + ground	M 25	0 with cable gland 1 with thread	1 1 1	71.320.1628.0	71.330.1635.0 71.330.1635.1	71.331.1635.0 71.331.1635.1

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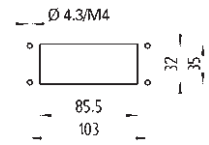
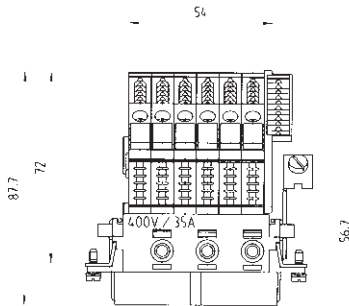
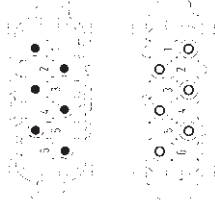
6pole + ground

Pole assignment
Male insert 6pole + ground Female insert 6pole + ground

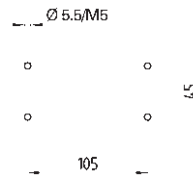
Dimensions of the multipole adapters

Mounting dimensions and cut-outs for open-bottom housings

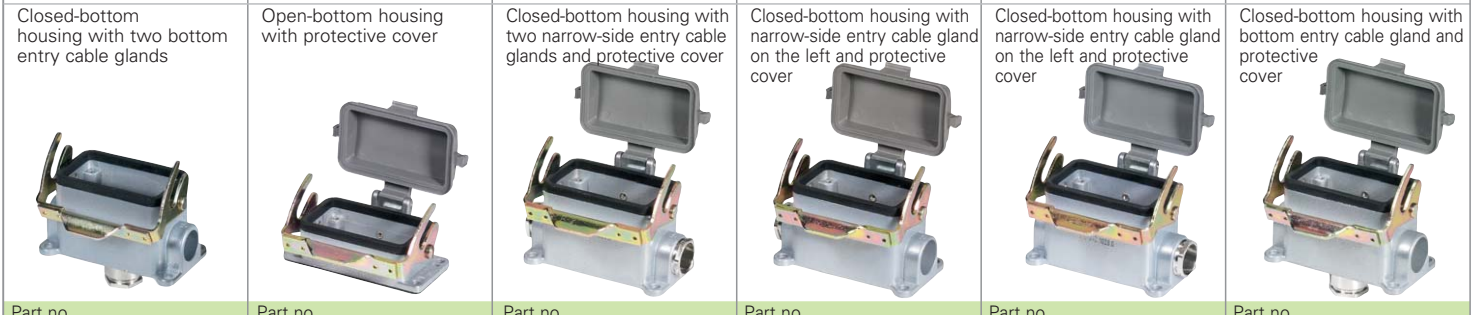
Part no.
72.200.0653.0
72.210.0653.0
72.005.0653.0
72.000.0653.0
72.015.0653.0
72.010.0653.0



Mounting dimensions for closed-bottom housings



Part no.	Part no.	Part no.
71.350.1635.0 71.350.1635.1 71.350.1635.2 71.350.1635.3	71.351.1635.0 71.351.1635.1 71.351.1635.2 71.351.1635.3	71.352.1635.0 71.352.1635.1 71.352.1635.2 71.352.1635.3



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
71.333.1635.0 71.333.1635.1	71.325.1628.0	71.340.1635.0 71.340.1635.1	71.341.1635.0 71.341.1635.1	71.342.1635.0 71.342.1635.1	71.343.1635.0 71.343.1635.1

Industrie multipole connectors, female and male inserts, multipole adapters, hoods and housings with double locking levers, 6pole

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THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS



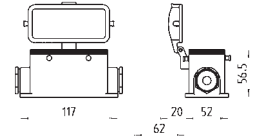
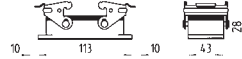
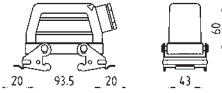
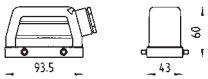
600 V UL/CSA

690 V, 35 A IEC 61 984

Degrees of protection: **IP 55; IP 65** with the appropriate cable glands

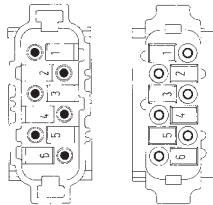
		Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Screw connection</p>	Female insert	2.5 – 6 mm ² 14 – 8 AWG		10 mm	tin-plated	10
	Male insert	2.5 – 6 mm ² 14 – 8 AWG		10 mm	tin-plated	10
 <p>Screw connection Multipole adapters</p>	Female insert, ground right	2.5 – 6 mm ² 14 – 8 AWG		12 mm	tin-plated	10
	Female insert, ground left	2.5 – 6 mm ² 14 – 8 AWG		12 mm	tin-plated	10
	Male insert, ground right	2.5 – 6 mm ² 14 – 8 AWG		12 mm	tin-plated	10
	Male insert, ground left	2.5 – 6 mm ² 14 – 8 AWG		12 mm	tin-plated	10
Number of poles	Thread	Cable gland type				Stand. pack
Housing size 16 for multipole connectors 6pole + ground	M 25	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief				1
		Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow-side entry cable gland on the left		
						
Number of poles	Thread	Cable gland type	Stand. pack	Part no.	Part no.	Part no.
Housing size 16 for multipole connectors 6pole + ground	M 25	0 with cable gland 1 with thread	1 1	70.320.1628.0	70.330.1635.0 70.330.1635.1	70.331.1635.0 70.331.1635.1

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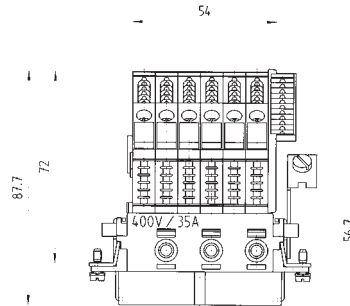


6pole + ground

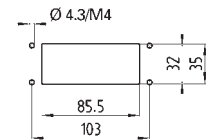
Pole assignment
Male insert Female insert
6pole + ground 6pole + ground



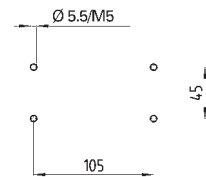
Dimensions of the multipole adapters



Mounting dimensions and cut-outs for open-bottom housings



Mounting dimensions for closed-bottom housings



Part no.
72.200.0653.0
72.210.0653.0
72.005.0653.0
72.000.0653.0
72.015.0653.0
72.010.0653.0

Hood	Hood	Hood	Hood with locking levers	Hood with locking levers	Hood with locking levers

Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.350.1635.0 70.350.1635.1 70.350.1635.2 70.350.1635.3	70.351.1635.0 70.351.1635.1 70.351.1635.2 70.351.1635.3	70.352.1635.0 70.352.1635.1 70.352.1635.2 70.352.1635.3	70.355.1635.0 70.355.1635.1 70.355.1635.2 70.355.1635.3	70.356.1635.0 70.356.1635.1 70.356.1635.2 70.356.1635.3	70.357.1635.0 70.357.1635.1 70.357.1635.2 70.357.1635.3

Closed-bottom housing with two bottom entry cable glands	Open-bottom housing with protective cover	Closed-bottom housing with two narrow-side entry cable glands and protective cover	Closed-bottom housing with narrow-side entry cable gland on the left and protective cover	Closed-bottom housing with narrow-side entry cable gland on the left and protective cover	Closed-bottom housing with bottom entry cable gland and protective cover

Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.333.1635.0 70.333.1635.1	70.325.1628.0	70.340.1635.0 70.340.1635.1	70.341.1635.0 70.341.1635.1	70.342.1635.0 70.342.1635.1	70.343.1635.0 70.343.1635.1

Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with single locking levers, 4pole







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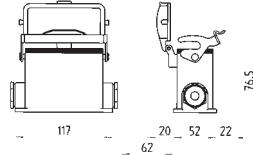
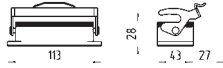
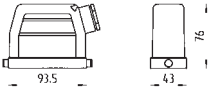
600 V UL/CSA

690 V/400 V, 82 A IEC 61 984

Degrees of protection: **IP 55; IP 65** with the appropriate cable glands

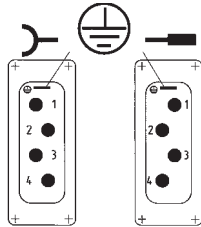
		Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Screw connection</p>	Female insert	6 – 16 mm ² 10 – 4 AWG		10 mm	silver-plated	10
	Male insert	6 – 16 mm ² 10 – 4 AWG		10 mm	silver-plated	10
Number of poles	Thread	Cable gland type	Stand. pack			
Housing size 16 for multipole connectors 4pole + ground	M 32	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief	1			
		Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow-side entry cable gland on the left		
						
Number of poles	Thread	Cable gland type	Stand. pack	Part no.	Part no.	Part no.
Housing size 16 for multipole connectors 4pole + ground	M 32	0 with cable gland 1 with thread		71.320.1628.0	76.334.4035.0 76.334.4035.1	76.335.4035.0 76.335.4035.1

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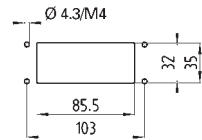


4pole + ground

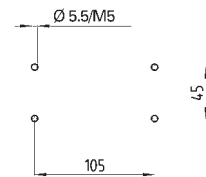
Pole assignment
Male insert Female insert
4pole + ground 4pole + ground



Mounting dimensions and cut-outs for open-bottom housings



Mounting dimensions for closed-bottom housings



Part no.
72.208.0453.0

72.218.0453.0



Part no.
76.353.4035.0
76.353.4035.1
76.353.4035.2
76.353.4035.3

Part no.
76.352.4035.0
76.352.4035.1
76.352.4035.2
76.352.4035.3



Part no.
76.337.4035.0
76.337.4035.1

Part no.
71.325.1628.0

Part no.
76.344.4035.0
76.344.4035.1

Part no.
76.345.4035.0
76.345.4035.1

Part no.
76.346.4035.0
76.346.4035.1

Part no.
76.347.4035.0
76.347.4035.1

Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with double locking levers, 4/6pole








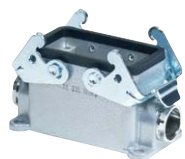

revos POWER



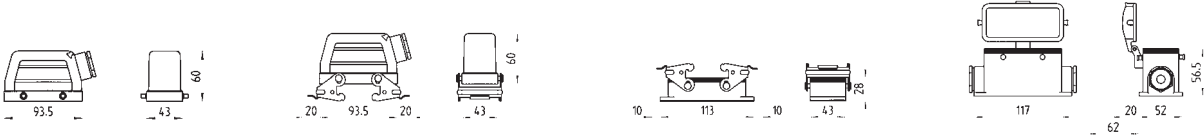
600 V UL/CSA

690 V, 35/16 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

		Cross section	Approvals	Wire strip length	Material	Stand. pack
 Screw connection	Female insert	2.5 – 6 mm ²		10 mm	silver-plated	10
	4 poles silver-plated	14 – 8 AWG				
 Screw connection	Male insert	2.5 – 6 mm ²		10 mm	silver-plated	10
	4 poles silver-plated	14 – 8 AWG				
 Screw connection Multipole adapter 500 V, 35/16 A IEC 61 984	Female insert, ground right	2.5 – 6 mm ²		12 mm	silver-plated	10
	4 poles silver-plated	14 – 8 AWG		12 mm	tin-plated	
	Male insert, ground right	2.5 – 6 mm ²		12 mm	silver-plated	10
	4 poles silver-plated	14 – 8 AWG		12 mm	tin-plated	
6 poles tin-plated	1.5 – 4 mm ²	16 – 12 AWG				
Number of poles	Thread	Cable gland type			Stand. pack	
Housing size 16 for multipole connectors 4/6pole + ground	M 25	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief			1	
		Open-bottom housing		Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow-side entry cable gland on the left	
						
Number of poles	Thread	Cable gland type	Stand. pack	Part no.	Part no.	Part no.
Housing size 16 for multipole connectors 4/6pole + ground	M 25	0 with cable gland	1	72.320.1628.0	72.330.1635.0	72.331.1635.0
		1 with thread	1		72.330.1635.1	72.331.1635.1

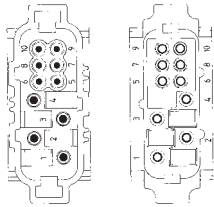
revos



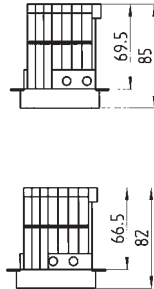
4/ 6pole + ground

Part no.
72.205.1053.0
72.215.1053.0
72.107.1053.0
72.117.1053.0

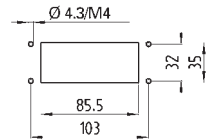
Pole assignment
Male insert 4/6pole + ground
Female insert 4/6pole + ground



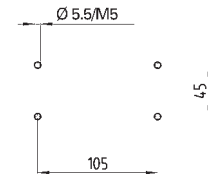
Dimensions of the multipole adapters



Mounting dimensions and cut-outs for open-bottom housings



Mounting dimensions for closed-bottom housings



Hood	Hood	Hood with locking levers	Hood with locking levers		
Part no.	Part no.	Part no.	Part no.		
72.350.1635.0 72.350.1635.1 72.350.1635.2 72.350.1635.3	72.352.1635.0 72.352.1635.1 72.352.1635.2 72.352.1635.3	72.355.1635.0 72.355.1635.1 72.355.1635.2 72.355.1635.3	72.357.1635.0 72.357.1635.1 72.357.1635.2 72.357.1635.3		
Closed-bottom housing with two bottom entry cable glands	Open-bottom housing with protective cover	Closed-bottom housing with two narrow-side entry cable glands and protective cover	Closed-bottom housing with narrow-side entry cable gland on the left and protective cover	Closed-bottom housing with narrow-side entry cable gland on the left and protective cover	Closed-bottom housing with bottom entry cable gland and protective cover
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
72.333.1635.0 72.333.1635.1	72.325.1628.0	72.340.1635.0 72.340.1635.1	72.341.1635.0 72.341.1635.1	72.342.1635.0 72.342.1635.1	72.343.1635.0 72.343.1635.1

Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with single locking levers, 4/6pole

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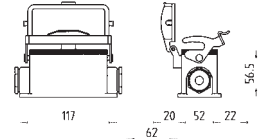
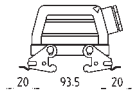
600 V UL/CSA

690 V, 35/16 A IEC 61 984

Degrees of protection: **IP 55; IP 65** with the appropriate cable glands

		Cross section	Approvals	Wire strip length	Material	Stand. pack
 Screw connection	Female insert	2.5 – 6 mm ²		10 mm	silver-plated	10
	4 poles silver-plated	14 – 8 AWG				
	Male insert	2.5 – 6 mm ²		10 mm	silver-plated	10
	4 poles silver-plated	14 – 8 AWG				
 Screw connection Multipole adapter 500 V, 35/16 A 8 kV/3 VDE 0110	Female insert, ground right	2.5 – 6 mm ²		12 mm	silver-plated	10
	4 poles silver-plated	14 – 8 AWG				
	Male insert, ground right	2.5 – 6 mm ²		12 mm	silver-plated	10
	4 poles silver-plated	14 – 8 AWG				
		1.5 – 4 mm ²		12 mm	tin-plated	
		16 – 12 AWG		12 mm	tin-plated	
Number of poles	Thread	Cable gland type			Stand. pack	
Housing size 16 for multipole connectors 4/6pole + ground	M 25	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief			1	
			Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow-side entry cable gland on the left	
						
Number of poles	Thread	Cable gland type	Stand. pack	Part no.	Part no.	Part no.
Housing size 16 for multipole connectors 4/6pole + ground	M 25	0 with cable gland	1	77.320.1628.0	77.330.1635.0	77.331.1635.0
		1 with thread	1		77.330.1635.1	77.331.1635.1

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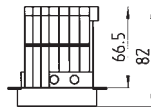
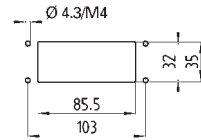
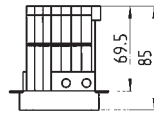
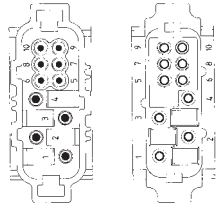
4/6pole + ground

Pole assignment
Male insert Female insert
4/6pole + ground 4/6pole + ground

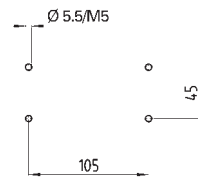
Dimensions of the multipole adapters
(shown in mm)

Mounting dimensions and cut-outs
for open-bottom housings
(shown in mm)

Part no.
72.205.1053.0
72.215.1053.0
72.107.1053.0
72.117.1053.0



Mounting dimensions for
closed-bottom housings



Part no.	Part no.
77.350.1635.0 77.350.1635.1 77.350.1635.2 77.350.1635.3	77.352.1635.0 77.352.1635.1 77.352.1635.2 77.352.1635.3



Part no.
77.333.1635.0 77.333.1635.1

Part no.
77.325.1628.0

Part no.
77.340.1635.0 77.340.1635.1

Part no.
77.341.1635.0 77.341.1635.1

Part no.
77.342.1635.0 77.342.1635.1

Part no.
77.343.1635.0 77.343.1635.1

Industrial multipole connectors, female and male, and male inserts, multipole adapters, hoods and housings, 6/6pole

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THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS









Multipole connectors 40/16 A, with mixed contacts

600 V UL/CSA

690/400 V, 40 A IEC 61 984

400/230 V, 16 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

	Rated current	Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Screw connection</p> 	Female insert					
	6 poles	40 A 4 – 10 mm ² 12 – 6 AWG			10 mm	silver-plated	10
	6 poles	16 A 1 – 2.5 mm ² 16 – 12 AWG		7 mm	tin-plated	
	Male insert					
	6 poles	40 A 4 – 10 mm ² 12 – 6 AWG			10 mm	silver-plated	10
	6 poles	16 A 1 – 2.5 mm ² 16 – 12 AWG		7 mm	tin-plated	
 <p>Hood with intermediate support</p>						
Number of poles	Thread	Cable gland type				Stand. pack
Housing size 16 for multipole connectors 6/6pole + ground	M 40	2 with intermediate support				1
 <p>Open-bottom housing</p>						
Number of poles						Stand. pack
Housing size 16 for multipole connectors 6/ 6pole + ground						1

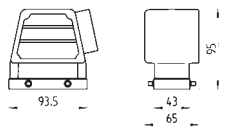
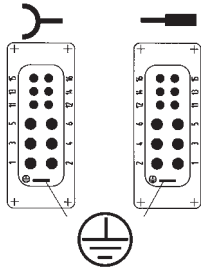
revos

6/6pole + ground

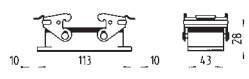
Part no.
72.205.1253.0

72.215.1253.0

Pole assignment
Male insert Female insert
6/6pole + ground 6/6pole + ground

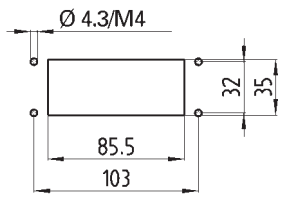


Part no.
72.250.1635.2



Part no.
72.320.1628.0

Mounting dimensions and cut-outs for open-bottom housings (shown in mm)



Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings, 3/3/6pole

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Multipole connectors 100/40/16 A, with mixed contacts

600 V UL/CSA
690/400 V

100 A IEC 61 984
40 A IEC 61 984
16 A IEC 61 984



Degrees of protection: **IP 55; IP 65** with the appropriate cable glands

	Rated current	Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Screw connection</p>	Female insert					
	3 poles 100 A 10 – 25 mm ² 8 – 2 AWG 3 poles 40 A 4 – 10 mm ² 12 – 6 AWG 6 poles 16 A 1 – 2.5 mm ² 16 – 12 AWG			14 mm 10 mm 7 mm	silver-plated silver-plated tin-plated	10
	Male insert					
	3 poles 100 A 10 – 25 mm ² 8 – 2 AWG 3 poles 40 A 4 – 10 mm ² 12 – 6 AWG 6 poles 16 A 1 – 2.5 mm ² 16 – 12 AWG			14 mm 10 mm 7 mm	silver-plated silver-plated tin-plated	10
 <p>Hood with intermediate support</p>						
Number of poles	Thread	Cable gland type				Stand. pack
Housing size 24 for multipole connectors 3/3/6pole + ground	M 50	2 with intermediate support				1
 <p>Open-bottom housing</p>						
Number of poles						Stand. pack
Housing size 24 for multipole connectors 3/3/6pole + ground						1

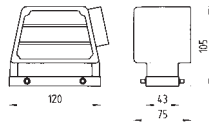
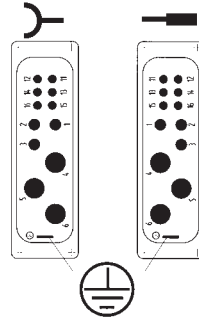
revos

3/3/6pole + ground

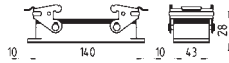
Part no.
72.203.1253.0

72.213.1253.0

Pole assignment
Male insert Female insert
3/3/6pole + ground 3/3/6pole + ground

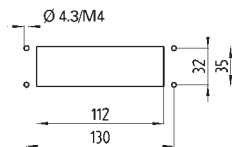


Part no.
72.250.2435.2



Part no.
72.320.2428.0

Mounting dimensions and cut-outs for open-bottom housings (shown in mm)



Industrial multipole connectors, female and male inserts, hoods and housings with single locking levers, 4/2pole

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Multipole connectors 82/16 A, with mixed contacts

600 V UL/CSA

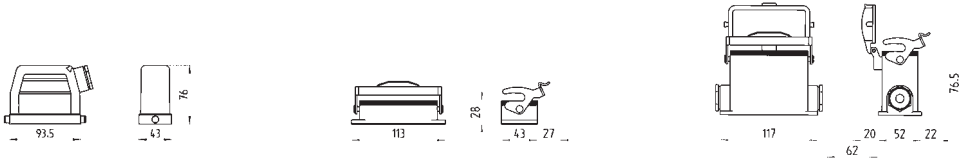
690 V 82 A IEC 61 984 (70 A CSA)

400 V 16 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

		Rated current	Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Screw connection</p>	Female insert						10
	4 poles	82 A (70 A CSA)	6 – 16 mm ²		10 – 4 AWG	15 mm		silver-plated
	2 poles	16 A	1 – 2.5 mm ²	16 – 12 AWG	9 mm	tin-plated	
	Male insert						10
	4 poles	82 A (70 A CSA)	6 – 16 mm ²		10 – 4 AWG	15 mm		silver-plated
	2 poles	16 A	1 – 2.5 mm ²	16 – 12 AWG	9 mm	tin-plated	
Number of poles	Thread	Cable gland type			Stand. pack		
Housing size 16 for multipole connectors 4/2pole + ground	M 32	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief			1		
				Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow-side entry cable gland on the left	
							
Number of poles	Thread	Cable gland type	Stand. pack	Part no.	Part no.	Part no.	
Housing size 16 for multipole connectors 4/2pole + ground	M 32	0 with cable gland	1	71.320.1628.0	76.334.4035.0	76.335.4035.0	
		1 with thread	1		76.334.4035.1	76.335.4035.1	

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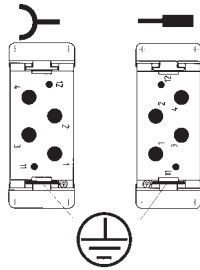


4/2pole + ground

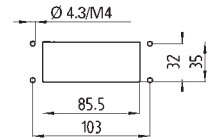
Pole assignment

Male insert
4/2pole + ground

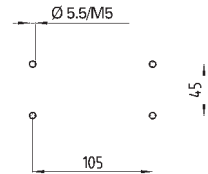
Female insert
4/2pole + ground



Mounting dimensions
and cut-outs for
open-bottom housings
(shown in mm)



Mounting dimensions for
closed-bottom housings
(shown in mm)



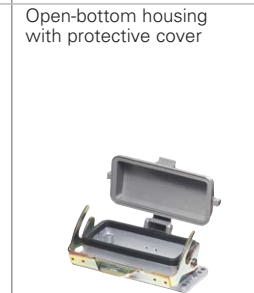
Part no.
72.205.0653.0

72.215.0653.0



Part no.
76.353.4035.0
76.353.4035.1
76.353.4035.2
76.353.4035.3

Part no.
76.354.4035.0
76.354.4035.1
76.354.4035.2
76.354.4035.3



Part no.
76.337.4035.0
76.337.4035.1

Part no.
71.325.1628.0

Part no.
76.344.4035.0
76.344.4035.1

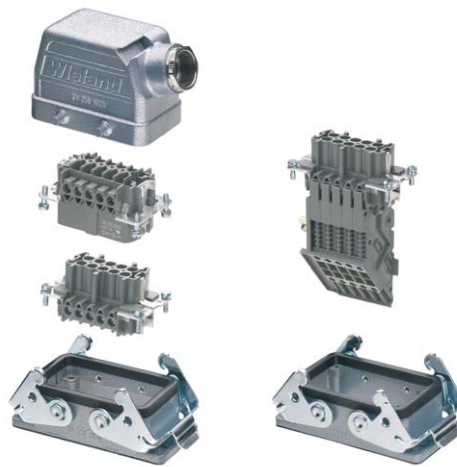
Part no.
76.345.4035.0
76.345.4035.1

Part no.
76.346.4035.0
76.346.4035.1

Part no.
76.347.4035.0
76.347.4035.1







Industrial multipole connectors, female and male inserts, hoods and housings with double locking levers, 4/2pole

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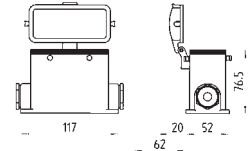
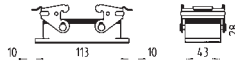
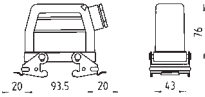
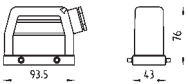


Multipole connectors 82/16 A, with mixed contacts
600 V UL/CSA
690 V 82 A IEC 61 984 (70 A CSA)
400 V 16 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

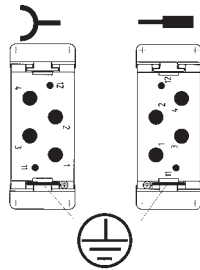
		Rated current	Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Screw connection</p>	Female insert						10
	4 poles	82 A (70 A CSA)	6 – 16 mm ²		10 – 4 AWG	15 mm		silver-plated
	2 poles	16 A	1 – 2.5 mm ²	16 – 12 AWG	9 mm	tin-plated	
	Male insert						10
	4 poles	82 A (70 A CSA)	6 – 16 mm ²		10 – 4 AWG	15 mm		silver-plated
	2 poles	16 A	1 – 2.5 mm ²	16 – 12 AWG	9 mm	tin-plated	
Number of poles	Thread	Cable gland type			Stand. pack		
Housing size 16 for multipole connectors 4/2pole + ground	M 32	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief			1		
				Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow-side entry cable gland on the left	
							
Number of poles	Thread	Cable gland type	Stand. pack	Part no.	Part no.	Part no.	
Housing size 16 for multipole connectors 4/2pole + ground	M 32	0 with cable gland	1	70.320.1628.0	73.334.4035.0	73.335.4035.0	
		1 with thread	1		73.334.4035.1	73.335.4035.1	

revos

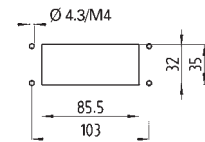


4/2pole + ground

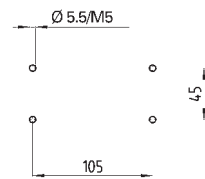
Pole assignment
Male insert 4/2pole + ground Female insert 4/2pole + ground



Mounting dimensions and cut-outs for open-bottom housings (shown in mm)



Mounting dimensions for closed-bottom housings (shown in mm)



Part no.
72.205.0653.0
72.215.0653.0

Hood	Hood	Hood with locking levers	Hood with locking levers

Part no.	Part no.	Part no.	Part no.
73.353.4035.0 73.353.4035.1 73.353.4035.2 73.353.4035.3	73.352.4035.0 73.352.4035.1 73.352.4035.2 73.352.4035.3	73.358.4035.0 73.358.4035.1 73.358.4035.2 73.358.4035.3	73.357.4035.0 73.357.4035.1 73.357.4035.2 73.357.4035.3

Closed-bottom housing with two bottom entry cable glands	Open-bottom housing with protective cover	Closed-bottom housing with two narrow-side entry cable glands and protective cover	Closed-bottom housing with narrow-side entry cable gland on the left and protective cover	Closed-bottom housing with narrow-side entry cable gland on the left and protective cover	Closed-bottom housing with bottom entry cable gland and protective cover

Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
73.337.4035.0 73.337.4035.1	70.325.1628.0	73.344.4035.0 73.344.4035.1	73.345.4035.0 73.345.4035.1	73.346.4035.0 73.346.4035.1	73.347.4035.0 73.347.4035.1

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Technical information

■ Approvals	UL, CSA, SEV
■ Applicable standards	IEC 61 984
■ Contact inserts	
Rated current	10 A
Rated voltage	
– 3pole + ground in plastic housing	400 V
– 3pole + ground in metal housing	250/400 V
– 4pole + ground (plastic and metal housing)	400 V
– 7pole + ground in plastic housing	250 V
– 7pole + ground in metal housing	50 V
– 8pole (plastic and metal housing)	50 V
Nominal voltage accord. to UL/CSA	
– 3/4pole + ground (plastic and metal housing)	600 V
– 7pole + ground in plastic housing	600 V
– 7pole + ground in metal housing	42 V
– 8pole + ground (plastic and metal housing)	42 V
Pole configurations	3, 4, 7 + ground, 8
Screw connection	0.5 – 2.5 mm ² / 22 – 12 AWG
Crimp connection	0.2 – 1.5 mm ² / 24 – 16 AWG
Degree of pollution	3
Temperature range	–40 to +110 °C
■ Contacts	
Material	copper alloy
Surface	tin-plated, gold-plated, silver-plated
■ Hoods and housings	
Material	die cast aluminum alloy Thermoplast
Surface	gray
Locking levers	zinc-plated steel
Gaskets	NBR
Temperature range	–40 to +110 °C
Degree of protection accord. to DIN EN 60 529	
with latched locking levers	IP 54
with suitable cable gland	IP 65



Industrial Multipole Connectors

Industrial multipole connector THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

3/4/7pole + ground / 8pole













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600 V UL/CSA

250 V, 10 A IEC 61 984

Degrees of protection: IP 54; IP 65 with the appropriate cable glands

		Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Screw connection</p>	Female insert	0.5 – 2.5 mm ² 3pole 18 – 16 AWG UL 4pole 22 – 12 AWG UL 3-/4pole 22 – 12 AWG CSA	 * for 3 pole	4 mm	tin-plated (3pole) silver-plated (4pole)	10
	Male insert	0.5 – 2.5 mm ² 3pole 18 – 16 AWG UL 4pole 22 – 12 AWG UL 3-/4pole 22 – 12 AWG CSA	 * for 3 pole	4 mm	tin-plated (3pole) silver-plated (4pole)	10
 <p>Crimp connection</p>	Female insert without crimp contacts	0.2 – 1.5 mm ² 18 – 16 AWG UL 24 – 16 AWG CSA		4 mm		10
	Male insert without crimp contacts	0.2 – 1.5 mm ² 18 – 16 AWG UL 24 – 16 AWG CSA		4 mm		10
Thread size		Cable gland type		Material	Stand. pack	
 <p>M 20</p>	Hood, angled	0 with cable gland		Metal	10	
		1 with thread		Metal	10	
		1 with thread		Plastic	10	
 <p>M 20</p>	Hood, straight	0 with cable gland		Metal	10	
		1 with thread		Metal	10	
		1 with thread		Plastic	10	
 <p>M 20</p>	Hood, with clip for cable to cable couplings	0 with complete cable gland		Metal	10	
		1 with thread		Metal	10	
		1 with thread		Plastic	10	
	Open-bottom housing			Metal	10	
				Plastic	10	
	Open-bottom housing, angled			Metal	10	
				Plastic	10	
 <p>M 20</p>	Closed-bottom housings	0 with cable gland		Metal	10	
		1 with thread		Metal	10	
		1 with thread		Plastic	10	
		The closed-bottom housing in plastic material is supplied without gland				

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Contacts for crimp version

Female contacts



Male contacts



Ø mm ²	AWG	Part no.	Stand. pack	Ø mm ²	AWG	Part no.	Stand. pack
0.2 – 0.56 mm ²	24 – 20	tin-plated		0.5 – 1.50 mm ²	24 – 20	gold-plated	
Reel contacts		02.124.0900.0	5000	Reel contacts		02.124.1400.0	5000
Single contacts		02.124.0929.0	200	Single contacts		02.124.1429.0	200
0.75 – 1.50 mm ²	18 – 16						
Reel contacts		02.124.1000.0	5000				
Single contacts		02.124.1029.0	200				
0.2 – 0.56 mm ²	24 – 20			0.5 – 1.50 mm ²	20 – 16		
Reel contacts		05.544.0900.0	5000	Reel contacts		05.544.1400.0	5000
Single contacts		05.544.0929.0	200	Single contacts		05.544.1429.0	200
0.75 – 1.50 mm ²	18 – 16						
Reel contacts		05.544.1000.0	5000				
Single contacts		05.544.1029.0	200				
				Crimping tool		95.101.0800.0	1
				Crimping die "E"		05.502.2400.0	1
				Contact positioner "2"		05.502.3200.0	1
				Extraction tool		05.502.0000.0	1

3pole + ground

Plastic housing UL/CSA
400 V/4 kV, 10 A 600 V
Metal housing
250 V/400 V/4 kV, 10 A 600V

4pole + ground

Plastic housing UL/CSA
250 V/4 kV, 10 A 600 V
Metal housing
250 V/4 kV, 10 A 600 V



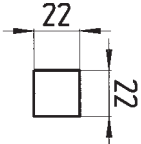
7pole + ground

Plastic housing UL/CSA
250 V/4 kV, 10 A 600 V
Metal housing
50 V/0,8 kV, 10 A 42 V

8pole

Plastic housing UL/CSA
50 V/0,8 kV, 10 A 42 V
Metal housing
50 V/0,8 kV, 10 A 42 V

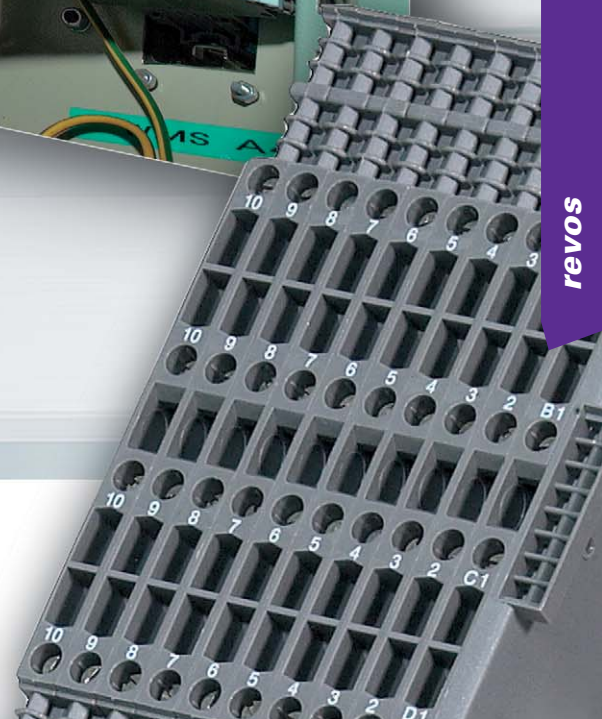
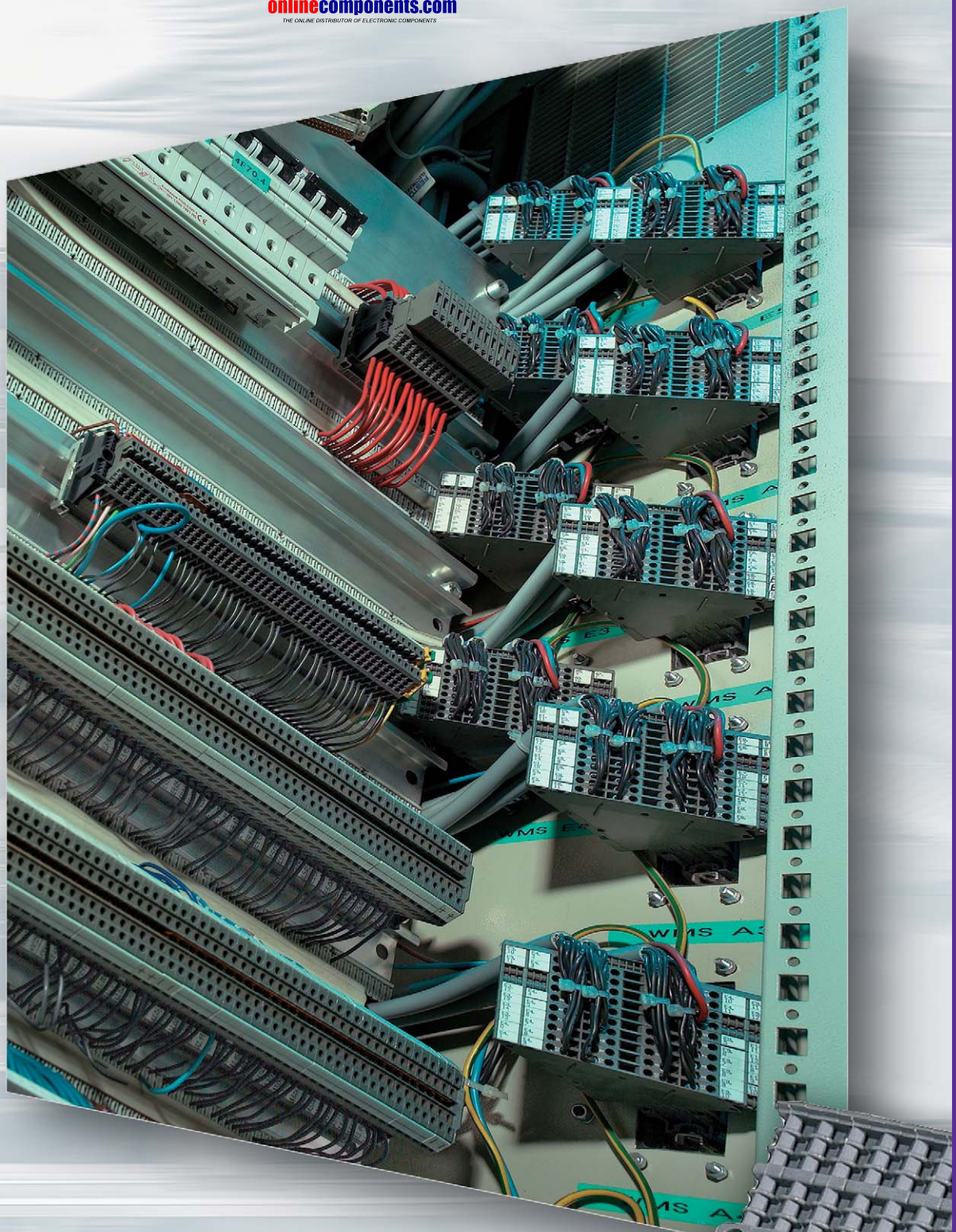
Accessories

Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
73.300.0353.0	73.300.0453.0				
73.310.0353.0	73.310.0453.0			Cover with locking bolts for housing and hood with locking levers	Cover with locking bolts for housing and hood with locking levers
		73.700.0753.0	73.700.0853.0	without gasket for male insert	with gasket for female insert
		73.710.0753.0	73.710.0853.0	Plastic 07.417.6753.0 Metal 07.417.6729.0	Plastic 07.417.6853.0 Metal 07.417.6829.0
76.350.0736.0 76.350.0736.1 76.350.0760.1	76.350.0736.0 76.350.0736.1 76.350.0760.1	76.350.0736.0 76.350.0736.1 76.350.0760.1	76.350.0736.0 76.350.0736.1 76.350.0760.1		
76.352.0736.0 76.352.0736.1 76.352.0760.1	76.352.0736.0 76.352.0736.1 76.352.0760.1	76.352.0736.0 76.352.0736.1 76.352.0760.1	76.352.0736.0 76.352.0736.1 76.352.0760.1		
76.372.0736.0 76.372.0736.1 76.372.0760.1	76.372.0736.0 76.372.0736.1 76.372.0760.1	76.372.0736.0 76.372.0736.1 76.372.0760.1	76.372.0736.0 76.372.0736.1 76.372.0760.1		
76.320.0729.0 76.320.0753.0	76.320.0729.0 76.320.0753.0	76.320.0729.0 76.320.0753.0	76.320.0729.0 76.320.0753.0		
76.321.0729.0 76.321.0753.0	76.321.0729.0 76.321.0753.0	76.321.0729.0 76.321.0753.0	76.321.0729.0 76.321.0753.0		
76.322.0736.0 76.322.0736.1 76.322.0760.1	76.322.0736.0 76.322.0736.1 76.322.0760.1	76.322.0736.0 76.322.0736.1 76.322.0760.1	76.322.0736.0 76.322.0736.1 76.322.0760.1		Mounting dimensions and cut-outs for open-bottom housings (shown in mm)

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Technical information

■ Approvals	UL, CSA, MEEI, SEV
■ Applicable standards	IEC 61 984, DIN EN 175301-801
■ Contact inserts	
Rated current	10 A
Rated voltage	250 V
Nominal voltage accord. to UL	600 V
Nominal voltage accord. to CSA	600 V
Pole configurations	15, 25, 40, 64pole
Crimp connection	0.2 – 1.5 mm ² / 24 – 16 AWG
Degree of pollution	3
Temperature range	–40 to +110 °C
■ Multipole adapter	
Rated current	10 A
Rated voltage	250 V
Nominal voltage accord. to UL	600 V
Nominal voltage accord. to CSA	600 V
Pole configurations	40, 64pole + ground
Screw connection	0.5 – 4.0 mm ² / 20 – 14 AWG
Degree of pollution	3
Temperature range	–40 to +110 °C
■ Contacts	
Material	copper alloy
Surface	tin-plated, gold-plated, silver-plated
■ Hoods and housings	
Material	die cast aluminum alloy
	Thermoplast
Surface	silver gray, silicon-free finish
Locking levers	zinc-plated steel
Gaskets	NBR
Temperature range	–40 to +110 °C
Degree of protection accord. to DIN EN 60 529	
with latched locking levers	IP 55
with suitable cable gland	IP 65



Industrial Multipole Connectors

High density multipole connectors according to DIN EN 175301-801

components.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

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System description

- For use in machine construction, control and switchgear building
- Reliable connector elements for power and control current lines
- Outstanding feature: a robust die cast aluminum housing
- Protection of the internal contact-inserts against mechanical and hazardous industrial influences
- According to EN 60529 and IEC 60 529, the interlocked hoods and housings provide the following degrees of protection:
IP 65 (dust ingress and jet-water)
IP 55 (dust deposit and splashwater)
- High contact density

Multipole adapter

- Space-saving connection element for heavy industrial multipole connectors
- Consists of: Multipole connector, contact insert and attached feedthrough terminal
- Multipole adapters are available with female or male connector inserts
- Provided as preassembled unit which can be mounted to the control cabinet wall
- Easy handling: slide the multipole adapter to the housing and mount it with screws
- TOP connection design also available

- Clearly identified and easily accessible clamping points
- The angled connection zone and the TOP connection facility enable clamping and testing of all connections even when the components are plugged together
- Each connection can be marked with 4 or 6 digits

Further benefits:

- Safe and time-saving wiring
- Testing is possible even when the components are plugged together, meaning that the power circuit need not be interrupted for testing
- Small-sized components help to reduce control cabinet space
- Potential commoning due to an insulated jumper bar
- Variable marking facilities
- Coding by means of coding pieces and coding bolts
- No mismatched connections

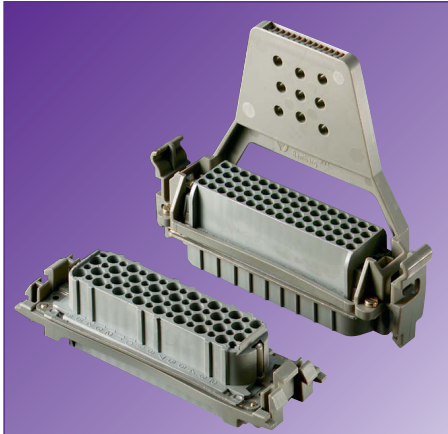
Female and male connector inserts

- Mounted in the direction of the power flow (female insert is live)
- No mismatching due to the special design of the female and male inserts
- Consecutive numbers both on the contact and on the connection sides
- Mixed contacts possible
- Due to an integrated screwdriver guide, both electric and pneumatic screwdrivers can be used

Crimp connection

- Snap-in crimp contacts for high density applications
- Corrosion-resistant due to gas-tight connections (cold welding)
- Constant feed through resistance
- Rapid mounting
- Crimp contacts safely latch into the female and male inserts
- flared, closed cable entries protect the female contacts against possible damaging
- Connected contacts can only be released with a special tool
- Reel contacts available for automatic crimping machines

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Latching frames (see page 674)

- Housing: contact inserts to be latched in sheet metal cut-out
- Hood: contact inserts available either with or without strain relief with/without locking mechanism
- No metal housings
- Cable to cable couplings with two hoods
- Multipole adapter with contact insert can be latched in sheet metal cut-out or mounted to a rail by means of a universal foot

Technical information:

Female and male connector inserts

Screw connection: 2.5 mm²
12 AWG UL/CSA

Crimp connection: 0.5 - 4 mm²
20 - 12 AWG UL/CSA

Number of poles: 40, 64

Rated voltage VDE: 250 V

Rated voltage UL/CSA: 600 V

Rated current: 10 A

Crimping machine

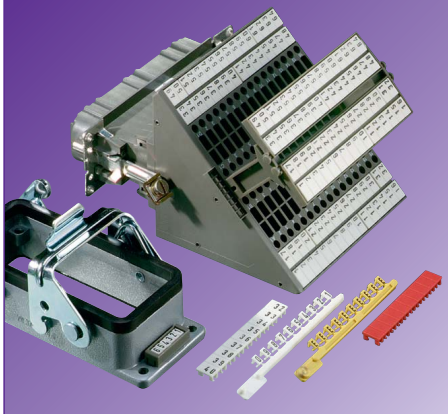
- Wire stripping and crimping in one step
- Manual infeed of the cable material
- Automatic stripping and crimping
- Infeed of the female and male contacts on reels (0.2 - 1.5 mm² / 24 - 16 AWG)
- The machine can be used for various applications, as the tool inserts are exchanged easily
- Available tool inserts:
 - for ST 18-connectors
 - for industrial multipole connectors
 - for high density multipole connectors
- The female and male contacts are available in cross sections between 0.2 mm² and 1.5 mm² 24 - 16 AWG
- Cross section is marked on the female and male contacts

For ordering see **facts & DATA**

Crimping tool

- Special crimping tool required for the high density Wieland contacts
- Interlock protects against inadvertant opening
- Contact positioner for female and male contacts available

For ordering see **facts & DATA**



Marking accessories

- 6digit marking tag carrier for open-bottom housings
- The connection points can be marked with single tags or via tear-off marking strips with 6 digits each

Material

Housing:

- Hood/housing: die cast aluminum alloy, silicon-free finish, silver gray

Female and male connector inserts:

- Insulating parts made from fiberglass reinforced Polyamide (technical information: see **facts & DATA**)

DQS certificates for all product families

- Quality standard as per DIN ISO 9001
- in Development, Production, Assembly
- Continued control of the quality standards by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - OQS Certificate, Austria

Note:

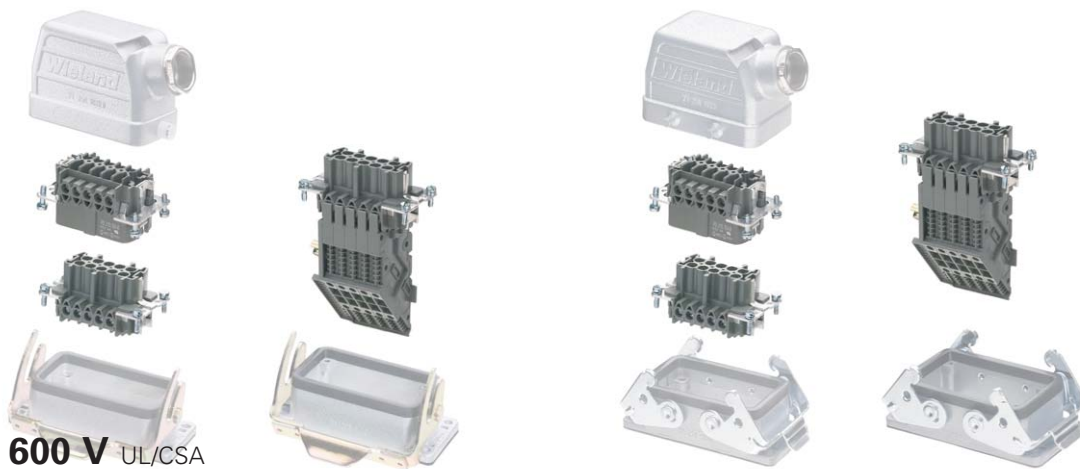
The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

The voltage ratings apply to the terminals in their intended application.

The official installation standards are to be followed. When the components are mounted into devices, the relevant device instructions apply.





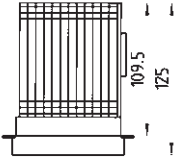




Special installation conditions of the customers are not considered. For more detailed information on the specific component characteristics see **facts & DATA**.

Industrial multipole connectors www.revocomponents.com
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Female/male inserts and multipole adapters
revos HD



600 V UL/CSA

250 V, 10 A IEC 61 984

		Cross section	Approvals	Wire strip length	Material	Stand. pack
 <p>Crimp connection</p>	Female insert without crimp contacts	0.2 – 1.5 mm ² 24 – 16 AWG		4 mm		10
	Male insert without crimp contacts	0.2 – 1.5 mm ² 24 – 16 AWG		4 mm		10
 <p>Screw connection Multipole adapter</p> 	Female insert, ground right	0.5 – 2.5 mm ² 20 – 14 AWG		12 mm	tin-plated	4 2
	Female insert, ground left	0.5 – 2.5 mm ² 20 – 14 AWG		12 mm	tin-plated	4 2
	Male insert, ground right	0.5 – 2.5 mm ² 20 – 14 AWG		12 mm	tin-plated	4 2
	Male insert, ground left	0.5 – 2.5 mm ² 20 – 14 AWG		12 mm	tin-plated	4 2

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Contacts for crimp version

Female contacts



Male contacts



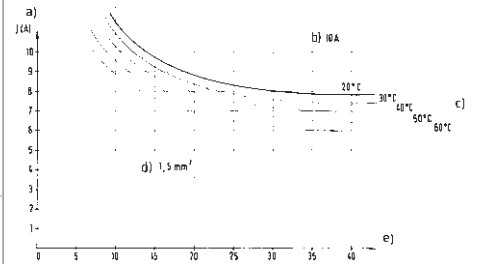
Crimping tool
Crimping die "E"
Contact positioner "2"
Extraction tool

Ø mm ²	AWG	Part no.	Stand. pack	Ø mm ²	AWG	Part no.	Stand. pack
0.2 – 0.56 mm ²	24 – 20	tin-plated		0.5 – 1.50 mm ²	20 – 16	gold-plated	
Reel contacts		02.124.0900.0	5000	Reel contacts		02.124.1400.0	5000
Single contacts		02.124.0929.0	200	Single contacts		02.124.1429.0	200
0.75 – 1.50 mm ²	18 – 16						
Reel contacts		02.124.1000.0	5000				
Single contacts		02.124.1029.0	200				
0.2 – 0.56 mm ²	24 – 20			0.5 – 1.50 mm ²	20 – 16		
Reel contacts		05.544.0900.0	5000	Reel contacts		05.544.1400.0	5000
Single contacts		05.544.0929.0	200	Single contacts		05.544.1429.0	200
0.75 – 1.50 mm ²	18 – 16						
Reel contacts		05.544.1000.0	5000				
Single contacts		05.544.1029.0	200				
				Crimping tool		95.101.0800.0	1
				Crimping die "E"		05.502.2400.0	1
				Contact positioner "2"		05.502.3200.0	1
				Extraction tool		05.502.0000.0	1

15pole + ground	25pole + ground	40pole + ground	64pole + ground
Part no.	Part no.	Part no.	Part no.
73.700.1553.0	73.700.2553.0	73.700.4058.0	73.700.6458.0
73.710.1553.0	73.710.2553.0	73.710.4058.0	73.710.6458.0
		73.105.4053.0	73.105.6453.0
		73.100.4053.0	73.100.6453.0
		73.115.4053.0	73.115.6453.0
		73.110.4053.0	73.110.6453.0

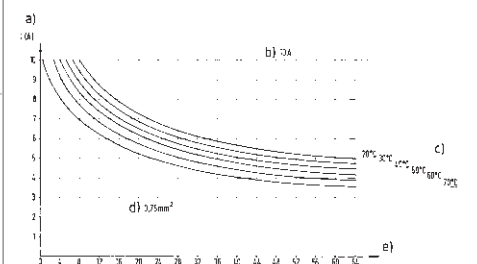
40pole multipole adapter

- a) = operating current
- b) = maximum operating current
- c) = ambient temperature
- d) = conductor cross section
- e) = number of loaded contacts

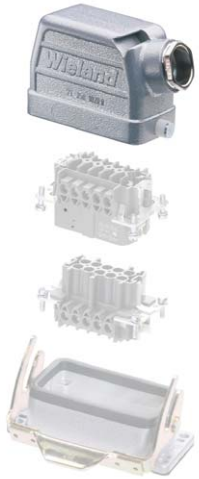


64pole multipole adapter

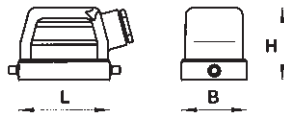
- a) = operating current
- b) = maximum operating current
- c) = ambient temperature
- d) = conductor cross section
- e) = number of loaded contacts



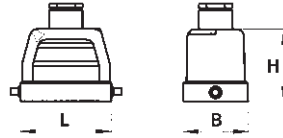
Industrial multipole connectors **mg** mgcomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS
Hoods with single locking levers
revos HD



Version A



Version C



For inserts **600 V** UL/CSA

DIN EN 175301-801



For inserts **250 V** IEC 61 984

Degrees of protection: IP 55

IP 65 with the appropriate cable glands

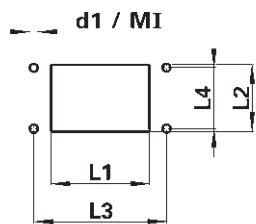
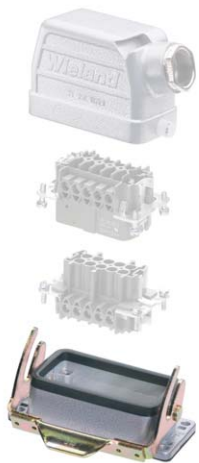
Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	H	Stand. pack
Size 15 for multipole connectors 15pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support		63	33	64	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support		63	33	64	1
Size 25 for multipole connectors 25pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support		79.5	33	70	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support		79.5	33	70	1
Size 16 for multipole connectors 40pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	76	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	76	1
Size 24 for multipole connectors 64pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	76	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	76	1

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Hood with cable gland	Hood with cable gland
Version A	Version C
	
Part no.	Part no.
76.350.1535.0 76.350.1535.2	76.352.1535.0 76.352.1535.1 76.352.1535.2
76.353.1535.0 76.353.1535.2	76.354.1535.0 76.354.1535.1 76.354.1535.2
76.350.2535.0 76.350.2535.2	76.352.2535.0 76.352.2535.1 76.352.2535.2
76.353.2535.0 76.353.2535.2	76.354.2535.0 76.354.2535.1 76.354.2535.2
76.350.4035.0 76.350.4035.1 76.350.4035.2 76.350.4035.3	76.352.4035.0 76.352.4035.1 76.352.4035.2 76.352.4035.3
76.353.4035.0 76.353.4035.1 76.353.4035.2 76.353.4035.3	76.354.4035.0 76.354.4035.1 76.354.4035.2 76.354.4035.3
76.350.6435.0 76.350.6435.1 76.350.6435.2 76.350.6435.3	76.352.6435.0 76.352.6435.1 76.352.6435.2 76.352.6435.3
76.353.6435.0 76.353.6435.1 76.353.6435.2 76.353.6435.3	76.354.6435.0 76.354.6435.1 76.354.6435.2 76.354.6435.3

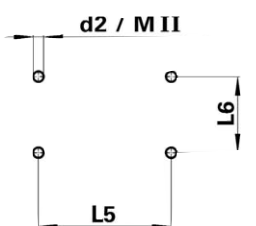
Housings with single locking levers, without protective cover

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Mounting dimensions and cut-outs for open-bottom housings

Housing size	Cut-out (mm)		Mounting dimensions (mm)		d1 (mm)	MI
	L1	L2	L3	L4		
15	56	23	70	17.5	3.3	M 3
25	72	23	86	17.5	4.3	M 4
16	83.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4



Mounting dimensions for closed-bottom housings

Housing size	L5 (mm)	L6 (mm)	d2 (mm)	MII
15	48	40	4.3	M 4
25	64	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5

For inserts **600 V** UL/CSA

For inserts **250 V** IEC 61 984

DIN EN 175301-801
Degrees of protection: IP 55
IP 65 with the appropriate cable glands

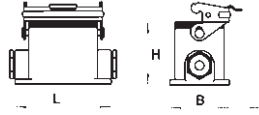
Number of poles	Thread	Cable gland type	Dimensions in mm			Stand. pack
			L	W	H	
Size 15 for multipole connectors	M 20	0 with cable gland	81	30	25.7	1
		1 with threaded collar	81	50	52.5	1
			81	50	52.5	1
15pole + ground	M 25	0 with cable gland	81	50	52.5	1
		1 with threaded collar	81	50	52.5	1
Size 25 for multipole connectors	M 20	0 with cable gland	96	30	25.7	1
		1 with threaded collar	95.7	50	57.5	1
			95.7	50	57.5	1
25pole + ground	M 25	0 with cable gland	95.7	50	57.5	1
		1 with threaded collar	95.7	50	57.5	1
Size 16 for multipole connectors	M 25	0 with cable gland	113	43	28	1
		1 with threaded collar	117	52	76.5	1
			117	52	76.5	1
40pole + ground	M 32	0 with cable gland	117	52	76.5	1
		1 with threaded collar	117	52	76.5	1
Size 24 for multipole connectors	M 25	0 with cable gland	140	43	28	1
		1 with threaded collar	144	52	76.5	1
			144	52	76.5	1
64pole + ground	M 32	0 with cable gland	144	52	76.5	1
		1 with threaded collar	144	52	76.5	1

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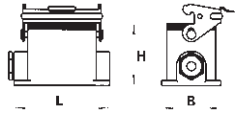
Version a



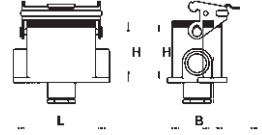
Version b




Version c



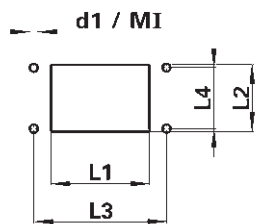
Version d



Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow-side entry cable gland on the left	Closed-bottom housing with bottom entry cable gland	Open-bottom housing with locking ridges for multipole adapters
Version a	Version b	Version c	Version d	Version a
				
Part no.	Part no.	Part no.	Part no.	Part no.
76.320.1528.0	76.330.1535.0 76.330.1535.1	76.331.1535.0 76.331.1535.1		
	76.334.1535.0 76.334.1535.1	76.335.1535.0 76.335.1535.1		
76.320.2528.0	76.330.2535.0 76.330.2535.1	76.331.2535.0 76.331.2535.1		
	76.334.2535.0 76.334.2535.1	76.335.2535.0 76.335.2535.1		
71.320.1628.0	76.330.4035.0 76.330.4035.1	76.331.4035.0 76.331.4035.1	76.333.4035.0 76.333.4035.1	76.326.4028.0
	76.334.4035.0 76.334.4035.1	76.335.4035.0 76.335.4035.1	76.337.4035.0 76.337.4035.1	
71.320.2428.0	76.330.6435.0 76.330.6435.1	76.331.6435.0 76.331.6435.1	76.333.6435.0 76.333.6435.1	76.326.6428.0
	76.334.6435.0 76.334.6435.1	76.335.6435.0 76.335.6435.1	76.337.6435.0 76.337.6435.1	

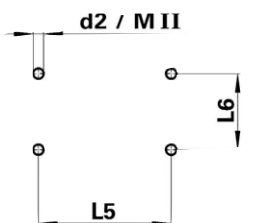
Housings with single locking levers and protective cover

revos HD



Mounting dimensions and cut-outs for open-bottom housings

Housing size	Cut-out (mm)		Mounting dimensions (mm)		d1 (mm)	M I
	L1	L2	L3	L4		
15	56	23	70	17.5	3.3	M 3
25	72	23	86	17.5	4.3	M 4
16	83.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4



Mounting dimensions for closed-bottom housings

Housing size	L5 (mm)	L6 (mm)	d2 (mm)	M II
15	48	40	4.3	M 4
25	64	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5

For inserts **600 V** UL/CSA

DIN EN 175301-801

Degrees of protection: IP 55

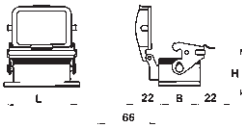
IP 65 with the appropriate cable glands

For inserts **250 V** IEC 61 984

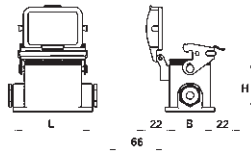
Number of poles	Thread	Cable gland type	Dimensions in mm			Stand. pack
			L	W	H	
Size 15 for multipole connectors			81	30	25.7	1
15pole + ground						
Size 25 for multipole connectors			96	30	25.7	1
25pole + ground						
Size 16 for multipole connectors	M 25	0 with cable gland 1 with threaded collar	113 117 117	43 52 52	28 76.5 76.5	1 1 1
40pole + ground	M 32	0 with cable gland 1 with threaded collar	117 117	52 52	76.5 76.5	1 1
Size 24 for multipole connectors	M 25	0 with cable gland 1 with threaded collar	140 144 144	43 52 52	28 76.5 76.5	1 1 1
64pole + ground	M 32	0 with cable gland 1 with threaded collar	144 144	52 52	76.5 76.5	1 1

revos

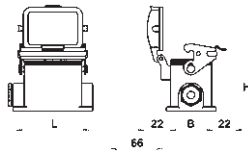
Version e



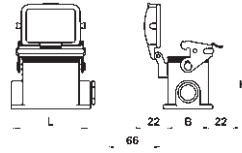
Version f



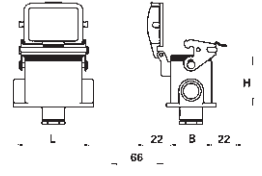
Version g



Version h



Version i



Open-bottom housing with protective cover for female and male inserts only

Version e



Closed-bottom housing with two narrow-side entry cable glands and protective cover

Version f



Closed bottom housing with one narrow-side entry cable gland on the left and protective cover

Version g



Closed bottom housing with one narrow-side entry cable gland on the right and protective cover

Version h



Closed bottom housing with one bottom entry cable gland and protective cover

Version i



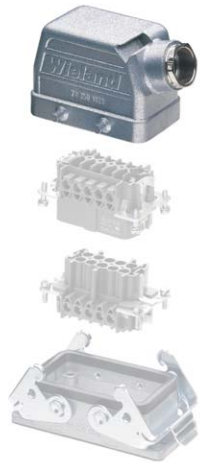
Open-bottom housing with protective cover and locking ridges for multipole adapters

Version e



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
76.325.1528.0					
76.325.2528.0					
71.325.1628.0	76.340.4035.0 76.340.4035.1	76.341.4035.0 76.341.4035.1	76.342.4035.0 76.342.4035.1	76.343.4035.0 76.343.4035.1	76.327.4028.0
71.325.2428.0	76.344.4035.0 76.344.4035.1	76.345.4035.0 76.345.4035.1	76.346.4035.0 76.346.4035.1	76.347.4035.0 76.347.4035.1	76.327.6428.0
	76.340.6435.0 76.340.6435.1	76.341.6435.0 76.341.6435.1	76.342.6435.0 76.342.6435.1	76.343.6435.0 76.343.6435.1	
	76.344.6435.0 76.344.6435.1	76.345.6435.0 76.345.6435.1	76.346.6435.0 76.346.6435.1	76.347.6435.0 76.347.6435.1	

Industrial multipole connectors [intracomponents.com](http://www.intracomponents.com)
 Hoods with double locking levers,
revos HD



For inserts **600 V** UL/CSA

DIN EN 175301-801

For inserts **250 V** IEC 61 984

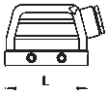
Degrees of protection: IP 55

IP 65 with the appropriate cable glands

Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	H	Stand. pack
Size 16 for multipole connectors 40pole + ground	M 25	0 with cable gland	93.5	43	76	1	
		1 with thread	93.5	43	76	1	
		2 with intermediate support	93.5	43	76	1	
		3 with strain relief	93.5	43	76	1	
	M 32	0 with cable gland	93.5	43	76	1	
		1 with threaded collar	93.5	43	76	1	
		2 with intermediate support	93.5	43	76	1	
		3 with strain relief	93.5	43	76	1	
Size 24 for multipole connectors 64pole + ground	M 25	0 with cable gland	120	43	76	1	
		1 with threaded collar	120	43	76	1	
		2 with intermediate support	120	43	76	1	
		3 with strain relief	120	43	76	1	
	M 32	0 with cable gland	120	43	76	1	
		1 with threaded collar	120	43	76	1	
		2 with intermediate support	120	43	76	1	
		3 with strain relief	120	43	76	1	

revos

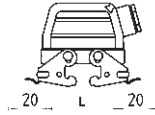
Version A



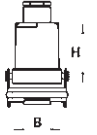
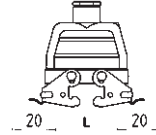
Version C



Version D



Version F



Hood with cable gland

Version A



Hood with cable gland

Version C



Hood with cable gland

Version D



Hood with cable gland

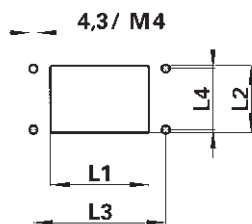
Version F



Part no.	Part no.	Part no.	Part no.
73.350.4035.0 73.350.4035.1 73.350.4035.2 73.350.4035.3	73.352.4035.0 73.352.4035.1 73.352.4035.2 73.352.4035.3	73.355.4035.0 73.355.4035.1 73.355.4035.2 73.355.4035.3	73.357.4035.0 73.357.4035.1 73.357.4035.2 73.357.4035.3
73.353.4035.0 73.353.4035.1 73.353.4035.2 73.353.4035.3	73.354.4035.0 73.354.4035.1 73.354.4035.2 73.354.4035.3	73.358.4035.0 73.358.4035.1 73.358.4035.2 73.358.4035.3	73.359.4035.0 73.359.4035.1 73.359.4035.2 73.359.4035.3
73.350.6435.0 73.350.6435.1 73.350.6435.2 73.350.6435.3	73.352.6435.0 73.352.6435.1 73.352.6435.2 73.352.6435.3	73.355.6435.0 73.355.6435.1 73.355.6435.2 73.355.6435.3	73.357.6435.0 73.357.6435.1 73.357.6435.2 73.357.6435.3
73.353.6435.0 73.353.6435.1 73.353.6435.2 73.353.6435.3	73.354.6435.0 73.354.6435.1 73.354.6435.2 73.354.6435.3	73.358.6435.0 73.358.6435.1 73.358.6435.2 73.358.6435.3	73.359.6435.0 73.359.6435.1 73.359.6435.2

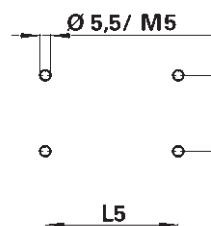
Housings with double locking levers, without protective cover

revos HD



Mounting dimensions and cut-outs for open-bottom housings

Housing size	Cut-out (mm)		Mounting dimensions (mm)	
	L1	L2	L3	L4
16	83.5	103	32	35
24	112	130	32	35



Mounting dimensions for closed-bottom housings

Housing size	L5 (mm)	L6 (mm)
16	105	45
24	132	45

For inserts **600 V** UL/CSA

DIN EN 175301-801

For inserts **250 V** IEC 61 984

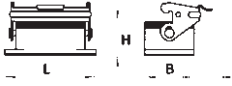
Degrees of protection: **IP 55**

IP 65 with the appropriate cable glands

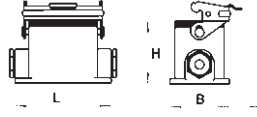
Number of poles	Thread	Cable gland type	Dimensions in mm			Stand. pack
			L	W	H	
Size 16 for multipole connectors	M 25	0 with cable gland	113	43	28	1
		1 with threaded collar	117	52	76.5	1
			117	52	76.5	1
40pole + ground	M 32	0 with cable gland	117	52	76.5	1
		1 with threaded collar	117	52	76.5	1
Size 24 for multipole connectors	M 25	0 with cable gland	140	43	28	1
		1 with threaded collar	144	52	76.5	1
			144	52	76.5	1
64pole + ground	M 32	0 with cable gland	144	52	76.5	1
		1 with threaded collar	144	52	76.5	1

revos

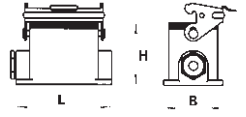
Version a



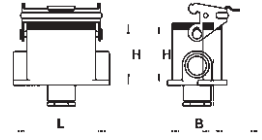
Version b



Version c



Version d



Open-bottom housing

Closed-bottom housing with two narrow-side entry cable glands

Closed bottom housing with one narrow-side entry cable gland on the left

Closed-bottom housing with bottom entry cable gland

Open-bottom housing with locking ridges for multipole adapters

Version a

Version b

Version c

Version d

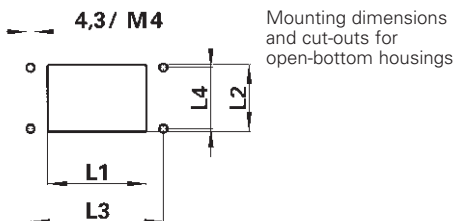
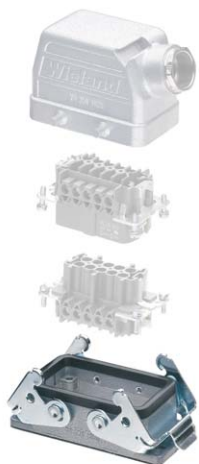
Version a



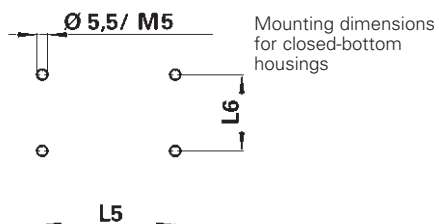
Part no.	Part no.	Part no.	Part no.	Part no.	
70.320.1628.0	73.330.4035.0 73.330.4035.1	73.331.4035.0 73.331.4035.1	73.333.4035.0 73.333.4035.1	73.326.4028.0	
	73.334.4035.0 73.334.4035.1	73.335.4035.0 73.335.4035.1	73.337.4035.0 73.337.4035.1		
70.320.2428.0	73.330.6435.0 73.330.6435.1	73.331.6435.0 73.331.6435.1	73.333.6435.0 73.333.6435.1	73.326.6428.0	
	73.334.6435.0 73.334.6435.1	73.335.6435.0 73.335.6435.1	73.337.6435.0 73.337.6435.1		

Hoods with double locking levers with protective cover

revos HD



Housing size	Cut-out (mm)		Mounting dimensions (mm)	
	L1	L2	L3	L4
16	83.5	103	32	35
24	112	130	32	35



Housing size	L5 (mm)	L6 (mm)
16	105	45
24	132	45

For inserts **600 V** UL/CSA

DIN EN 175301-801

Degrees of protection: IP 55

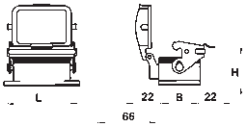
IP 65 with the appropriate cable glands

For inserts **250 V** IEC 61 984

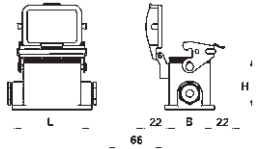
Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	H	Stand. pack
Size 16 for multipole connectors	M 25	0 with cable gland		113	43	28	1
		1 with threaded collar		117	52	76.5	1
				117	52	76.5	1
40pole + ground	M 32	0 with cable gland		117	52	76.5	1
		1 with threaded collar		117	52	76.5	1
Size 24 for multipole connectors	M 25	0 with cable gland		140	43	28	1
		1 with threaded collar		144	52	76.5	1
				144	52	76.5	1
64pole + ground	M 32	0 with cable gland		144	52	76.5	1
		1 with threaded collar		144	52	76.5	1

revos

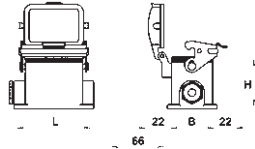
Version e



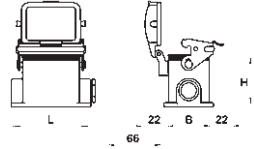
Version f



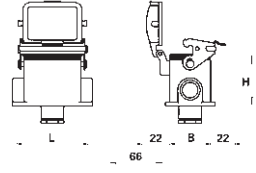
Version g



Version h



Version i



Open-bottom housing with protective cover for female and male inserts only

Version e



Closed-bottom housing with two narrow-side entry cable glands and protective cover

Version f



Closed bottom housing with one narrow-side entry cable gland on the left and protective cover

Version g



Closed bottom housing with one narrow-side entry cable gland on the right and protective cover

Version h



Closed bottom housing with one bottom entry cable gland and protective cover

Version i



Open-bottom housing with protective cover and locking ridges for multipole adapters

Version e



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.325.1628.0	73.340.4035.0 73.340.4035.1	73.341.4035.0 73.341.4035.1	73.342.4035.0 73.342.4035.1	73.343.4035.0 73.343.4035.1	73.327.4028.0
	73.344.4035.0 73.344.4035.1	73.345.4035.0 73.345.4035.1	73.346.4035.0 73.346.4035.1	73.347.4035.0 73.347.4035.1	
70.325.2428.0	73.340.6435.0 73.340.6435.1	73.341.6435.0 73.341.6435.1	73.342.6435.0 73.342.6435.1	73.343.6435.0 73.343.6435.1	73.327.6428.0
	73.344.6435.0 73.344.6435.1	73.345.6435.0 73.345.6435.1	73.346.6435.0 73.346.6435.1	73.347.6435.0 73.347.6435.1	

Industrial multipole connector onlinecomponents.com for cable to cable couplings with double locking lever

revos



All hoods and housings can be supplied with an intermediate support and without metric cable glands. For this case please change the part number by adding a 2 in the end (e.g. 72.352.1035.2). If you want to order hoods or housings with metric thread only, please indicate a 1 at the end of the part number (e.g. 72.352.1035.1).

Other than shown in the figure, the 6pole and 48pole connectors in version 70.3, and the 20, 26 and 32pole connectors in version 70.4 only have one locking lever on the broad side!

For accessories and marking material for hoods and open-bottom housings please see the section Accessories for industrial multipole connectors

Female insert with screw connection

Male insert with screw connection





Degree of protection: IP 55 accord. to DIN EN 60 529

Degree of protection: IP 65 accord. to DIN EN 60 529 with appropriate cable glands

Rated current accord. to IEC 61 984

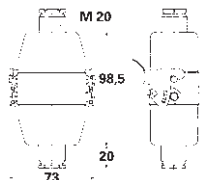
Type	Used cont.	Switch. cont.	ground	Cable entry	U	UL/CSA	I	Cross section	Stand. pack	Part no.	Part no.	
70.3	6	-	1	M 20	500 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.300.0640.0	70.310.0640.0
70.4	3	2	1	M 20	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.0340.0	70.410.0340.0
70.4	6	2	1	M 25	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.0640.0	70.410.0640.0
70.2	6	-	1	M 25	400 V	600 V	35 A	6.0 mm ²	8 AWG	10	70.200.0653.0	70.210.0653.0
70.3	10	-	1	M 20	500 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.300.1040.0	70.310.1040.0
70.4	10	2	1	M 25	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.1040.0	70.410.1040.0
70.3	16	-	1	M 32	500 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.300.1640.0	70.310.1640.0
70.4	16	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.1640.0	70.410.1640.0
70.4	20	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	5	70.400.2040.0	70.410.2040.0
70.3	24	-	1	M 32	500 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.300.2440.0	70.310.2440.0
70.4	26	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	5	70.400.2640.0	70.410.2640.0
70.4	32	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	5	70.400.3240.0	70.410.3240.0
70.3	48	-	1	M 32	500 V	600 V	16 A	2.5 mm ²	12 AWG	5	70.300.4840.0	70.310.4840.0

revos

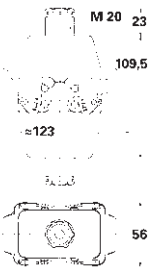
	Hood with cable gland	Hood with cable gland with locking levers and gasket	Hood with strain relief	Hood with strain relief with locking levers and gasket
				
Std. pack	Part no.	Part no.	Part no.	Part no.
1	70.352.0635.0	70.372.0635.0	70.352.0635.3	70.372.0635.3
1	72.352.1035.0	72.372.1035.0	72.352.1035.3	72.372.1035.3
1	72.352.1635.0	72.372.1635.0	72.352.1635.3	72.372.1635.3
1	70.352.1635.0	70.372.1635.0	70.352.1635.3	70.372.1635.3
1	70.352.1035.0	70.372.1035.0	70.352.1035.3	70.372.1035.3
1	72.352.2435.0	72.372.2435.0	72.352.2435.3	72.372.2435.3
1	70.354.1635.0	70.374.1635.0	70.354.1635.3	70.374.1635.3
1	72.354.2435.0	72.374.2435.0	72.354.2435.3	72.374.2435.3
1			70.375.4835.3	70.372.4835.3
1	70.354.2435.0	70.374.2435.0	70.354.2435.3	70.374.2435.3
1			70.375.4835.3	70.372.4835.3
1			70.375.4835.3	70.372.4835.3

Examples:

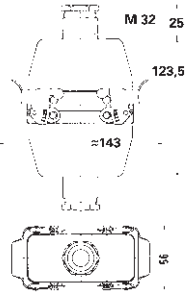
10pole connection



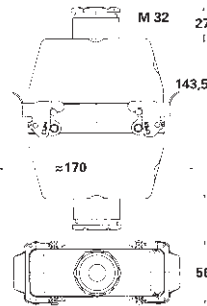
10pole connection



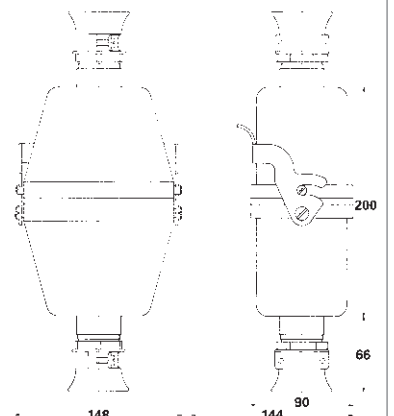
16pole connection



24pole connection



48pole connection



Industrial multipole connector onlinecomponents.com for cable to cable couplings with single locking lever

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All hoods and housings can be supplied with an intermediate support and without metric cable glands. For this case please change the part number by adding a 2 in the end (e.g. 72.352.1035.2). If you want to order hoods or housings with metric cable gland only, please indicate a 1 at the end of the part number (e.g. 72.352.1035.1).

For accessories and marking material for hoods and open-bottom housings please see the section Accessories for industrial multipole connectors

Degree of protection: IP 55 accord.to DIN EN 60 529

Degree of protection: IP 65
accord. to DIN EN 60 529 with appropriate cable glands

Rated current accord. to IEC 61 984

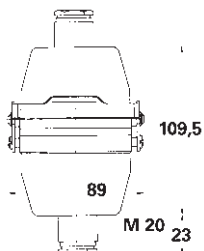
Type	Used cont.	Switch. cont.	Ground	Cable entry	U	UL/CSA	I	Cross section	Stand. pack	Part no.	Part no.	
71.4	3	2	1	M 20	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.0340.0	70.410.0340.0
71.4	6	2	1	M 25	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.0640.0	70.410.0640.0
71.2	6	-	1	M 25	400 V	600 V	35 A	6.0 mm ²	8 AWG	10	70.200.0653.0	70.210.0653.0
71.3	10	-	1	M 20	500 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.300.1040.0	70.310.1040.0
71.4	10	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.1040.0	70.410.1040.0
71.3	16	-	1	M 25	500 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.300.1640.0	70.310.1640.0
71.4	16	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.1640.0	70.410.1640.0
71.3	24	-	1	M 32	500 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.300.2440.0	70.310.2440.0
										Female insert with screw connection	Male insert with screw connection	
												
										Male insert with crimp connection	Male insert with crimp connection	
73.7	15	-	1	M 20	250 V	600 V	10 A	1.5 mm ²	16 AWG	10	73.700.1553.0	73.710.1553.0
73.7	15	-	1	M 25	250 V	600 V	10 A	1.5 mm ²	16 AWG	10	73.700.1553.0	73.710.1553.0
73.7	25	-	1	M 20	250 V	600 V	10 A	1.5 mm ²	16 AWG	10	73.700.2553.0	73.710.2553.0
73.7	25	-	1	M 25	250 V	600 V	10 A	1.5 mm ²	16 AWG	10	73.700.2553.0	73.710.2553.0

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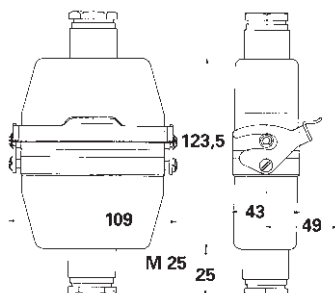
	Hood with cable gland	Hood with cable gland with locking levers and gasket	Hood with strain relief	Hood with strain relief with locking levers and gasket
				
Std. pack	Part no.	Part no.	Part no.	Part no.
1	77.352.1035.0	77.372.1035.0	77.352.1035.3	77.372.1035.3
1	77.352.1635.0	77.372.1635.0	77.352.1635.3	77.372.1635.3
1	71.352.1635.0	71.372.1635.0	71.352.1635.3	71.372.1635.3
1	71.352.1035.0	71.372.1035.0	71.352.1035.3	71.372.1035.3
1	77.354.2435.0	77.374.2435.0	77.354.2435.3	77.374.2435.3
1	71.352.1635.0	71.372.1635.0	71.352.1635.3	71.372.1635.3
1	77.354.2435.0	77.374.2435.0	77.354.2435.3	77.374.2435.3
1	71.354.2435.0	71.374.2435.0	71.354.2435.3	71.374.2435.3
1	76.352.1535.0	76.372.1535.0		
1	76.354.1535.0	upon request		
1	76.352.2535.0	76.372.2535.0		
1	76.354.2535.0	upon request		

Examples:

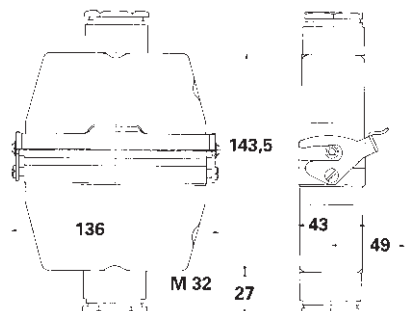
10pole connection



16pole connection



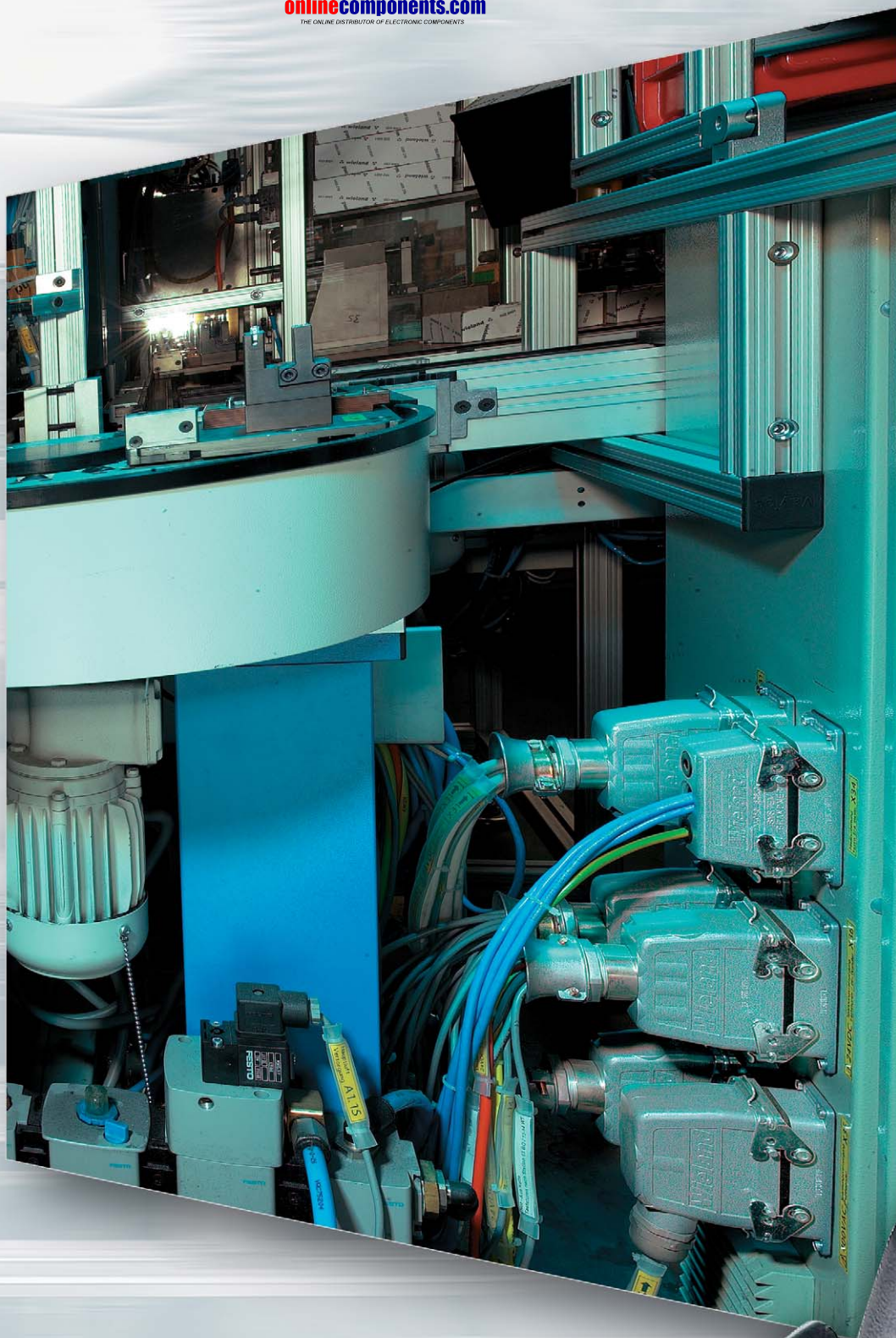
24pole connection



revos FLEX

Technical Data

■ Approvals	UL, CSA
■ Applicable standards	IEC 61 984
■ Contact inserts	
3pole	
Rated current	max. 40 A
Rated current accord. to UL/CSA	40 A / 35 A
Rated voltage	630 V
Rated voltage accord. to UL/CSA	600 V
Mains voltage	690 V AC
Insulating material	PC, zero halogen
Color	pebble gray, RAL 7032
Flammability class	UL 94 V-0
Crimp connection	Ø 3.6 mm ² , turned contact
4pole + ground	
Rated current	max. 16 A
Rated voltage	1000 V
Insulating material	PA GF, zero halogen
Color	black
Flammability class	UL 94 V-0
Crimp connection	Ø 2.5 mm ² , stamped contact
5pole	
Rated current	max. 20 A
Rated current accord. to UL/CSA	20 A / 16 A
Rated voltage	250 V
Rated voltage accord. to UL/CSA	600 V
Insulating material	PC, zero halogen
Color	pebble gray, RAL 7032
Flammability class	UL 94 V-0
Crimp connection	Ø 2.5 mm ² , turned contact
10pole	
Rated current	max. 10 A
Rated current accord. to UL/CSA	10 A
Rated voltage	250 V
Rated voltage accord. to UL/CSA	600 V
Insulating material	PC, zero halogen
Color	pebble gray, RAL 7032
Flammability class	UL 94 V-0
Crimp connection	Ø 1.6 mm ² , turned contact
20pole	
Rated current	max. 4 A
Rated current accord. to UL/CSA	5 A
Rated voltage	630 V
Rated voltage accord. to UL/CSA	63 V/ 60 V
Insulating material	PC, zero halogen
Color	pebble gray, RAL 7032
Flammability class	UL 94 V-0
Crimp connection	Ø 1.0 mm ² , stamped contact
■ Contacts	
Material	copper alloy
Surface	silver-plated (3, 4, 5 and 10pole) gold-plated (20pole)



Industrial Multipole Connectors

revos FLEX

Manager in terms of performance and flexibility

Industrial multipole connectors function as electro-mechanical interfaces and enable an efficient connection between the power supply and control lines of industrial systems and devices. Their complexity, however, becomes more and more demanding and sets limits to standard connector systems.

Wieland Electric GmbH developed the modular multipole connector system **revos** FLEX to meet the requirements of highly complex applications.

The high flexibility of the connector system is characterized by its individual design options which can be adapted to the various applications. The module frames can be fitted with modular inserts of 3 to 20 poles in a voltage range between 100V and 1000V, and for electrical power between 4A and 40A. Flexibility also shows in the fact that the module frames can be fitted inverted, meaning female and male contacts on the same side.

The contacts for the 3, 5 and 10pole modular inserts are turned and silver-plated and can be used for the crimp connection technique. For high-voltage applications, the modular inserts are designed with 4 poles + ground with punched and silver-plated contacts. The contacts of the 20pole modular inserts are also punched, but gold-plated.

You can choose among four sizes of module frames which provide a ground connection at the front.

Die cast aluminum housings are available for 6, 10, 16 and 24pole standard inserts and provide sufficient protection against tough environmental conditions.

System design

- 4 frame sizes
- 5 different modules
- 17 contact variations
- 306 hood and housing options

System advantages

- Flexible usage
 - The modules can be used independently of the signal flow
 - Signal, control and power modules can be combined in one connector
 - Already existing modules can be combined with new modules
 - Future module designs can be used due to the system's modularity
- Safe handling
 - The modules are coded and can therefore not be mated in the frame
 - The connectors can be coded as per the module assignment
 - Easy contact recognition because of the markings
 - Gas-tight crimping
- Cost reduction
 - Small quantities of connectors can be implemented cost effectively
 - Reduced number of connectors
 - Low stock due to reduced product variety
 - Higher availability due to reduced product variety
- in quantities of 100 pieces or more, the frames can be fitted with empty modules according to your drawings.



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See the following sequence list to design your own connector:

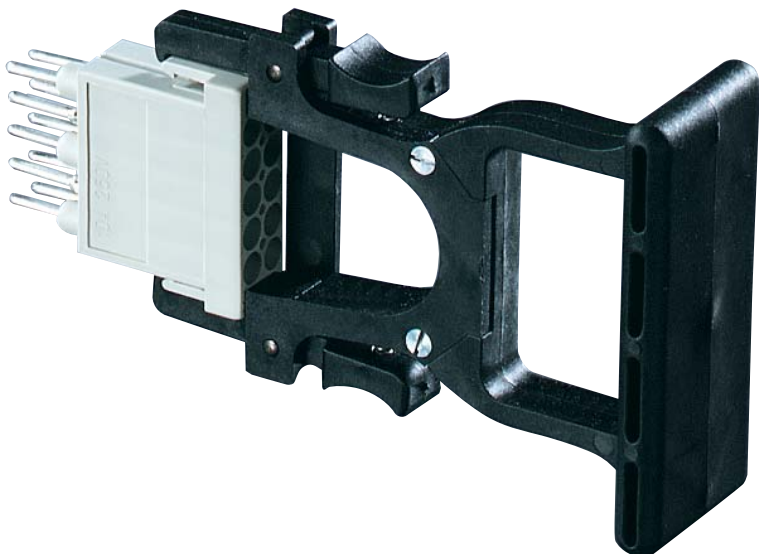
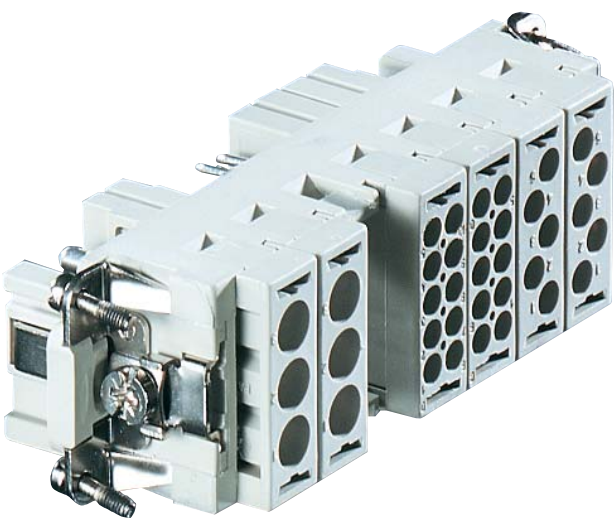
1 Determine the frame such as:
Male contact frame, size 10, for 3 modules 78.010.1053.0
Female contact frame, size 10, for 3 modules 78.000.1053.0

2 Determine the housing such as:
Hood 70.350.1035.0
Housings 70.320.1028.0

3 Select the modules such as:
Modular insert, 3pole, male 78.014.0353.0
Modular insert, 3pole, female 78.004.0353.0

4 Select the contacts such as:
Male contacts for 4 mm² 05.544.3129.8
Female contacts for 4 mm² 02.125.3129.8

5 Select the crimping tools such as:
Crimping tool 95.101.0800.0
Crimping die "D" 05.502.2300.0
Contact positioner "1" 05.502.3100.0



Modular industrial multipole connectors.com

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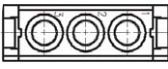
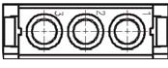




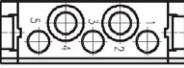
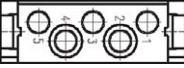




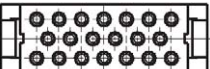
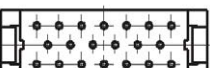

Technical information

revos FLEX S



Modular inserts

Crimp contacts

Number of poles of the modular inserts	Part no.	Stand. pack	Approval/	mm ²	AWG	Part no.	Stand. pack
3pole turned contact Ø 3.6 mm Connection range see crimp contact Rated current / UL/CSA max. 40 A / 35 A Rated voltage 630 V/8 kV/3 Mains voltage / UL/CSA 690 V AC / 600 V Insulating material PC, halogen-free Color pebble gray, RAL 7032 Flammability class UL 94 V-0	 	Modular male insert 78.014.0353.0 10 Modular fem. insert 78.004.0353.0 10		Contact Ø 3.6 mm			
				Male contact 4.0 12 05.544.3129.8 100 6.0 10 05.544.3229.8 100 10.0 8 05.544.3329.8 100 Female contact 4.0 12 02.125.3129.8 100 6.0 10 02.125.3229.8 100 10.0 8 02.125.3329.8 100 Contact material copper alloy Contact surface Ag			
4pole + ground punched ontact Ø 2.5 mm Connection range see crimp contact Rated current max. 16 A Rated voltage 1000 V/8 kV/3 Insulating material PA 6.6 GF, halogen-free Color black Flammability class UL 94 V-0	 	Mod. male insert 78.013.0453.0 10 Mod. fem. insert 78.003.0453.0 10		Contact Ø 2.5 mm			
				Male contact 0.5 – 1.5 20 – 16 05.544.3429.8 100 1.5 – 2.5 16 – 14 05.544.3529.8 100 Female contact 0.5 – 1.5 20 – 16 02.125.3429.8 100 1.5 – 2.5 16 – 14 02.125.3529.8 100 Contact material copper alloy Contact surface Ag			
5pole turned contact Ø 2.5 mm Connection range see crimp contact Rated current max. 20 A Rated voltage 250 V/6 kV/3 Insulating material PC, halogen-free Color pebble gray, RAL 7032 Flammability class UL 94 V-0	 	Mod. male insert 78.013.0553.0 10 Mod. fem. insert 78.003.0553.0 10		Contact Ø 2.5 mm			
				Male contact 0.5 20 05.544.3629.8 100 0.75 – 1.0 18 05.544.3729.8 100 1.5 16 05.544.3829.8 100 2.5 14 05.544.3929.8 100 4.0 12 05.544.4029.8 100 Female contact 0.5 20 02.125.3629.8 100 0.75 – 1.0 18 02.125.3729.8 100 1.5 16 02.125.3829.8 100 2.5 14 02.125.3929.8 100 4.0 12 02.125.4029.8 100 Contact material copper alloy Contact surface Ag			
10pole turned contact Ø 1.6 mm Connection range see crimp contact Rated current max. 10 A Rated voltage / UL/CSA 250 V/4 kV/3/ 240 V Insulating material PC, halogen-free Color pebble gray, RAL 7032 Flammability class UL 94 V-0	 	Mod. male insert 78.012.1053.0 10 Mod. fem. insert 78.002.1053.0 10		Contact Ø 1.6 mm			
				Male contact 0.14 – 0.37 26 – 22 05.544.4129.8 100 0.5 20 05.544.4229.8 100 0.75 – 1.0 18 05.544.4329.8 100 1.5 16 05.544.4429.8 100 2.5 14 05.544.4529.8 100 Female contact 0.14 – 0.37 26 – 22 02.125.4129.8 100 0.5 20 02.125.4229.8 100 0.75 – 1.0 18 02.125.4329.8 100 1.5 16 02.125.4429.8 100 2.5 14 02.125.4529.8 100 Contact material copper alloy Contact surface Ag			
20pole punched ontact Ø 1.0 mm Connection range see crimp contact Rated current / UL/CSA max. 4 A / 5 A Rated voltage / UL/CSA 100 V/1.5 kV/3 / 60 V Insulating material PC, halogen-free Color pebble gray, RAL 7032 Flammability class UL 94 V-0	 	Male module 78.011.2053.0 10 Female module 78.001.2053.0 10		Contact Ø 1.0 mm			
				Male contact 0.09 – 0.25 28 – 24 05.544.4629.7 100 0.25 – 0.5 24 – 20 05.544.4729.7 100 Female contact 0.09 – 0.25 28 – 24 02.125.4629.7 100 0.25 – 0.5 24 – 20 02.125.4729.7 100 Contact material copper alloy Contact surface Au			

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Crimping tools



Extraction tool for contacts



Extraction tool for modular inserts

	Part no.	Stand. pack		Part no.	Stand. pack		Part no.	Stand. pack
Crimping tool in system kit	95.101.0800.0	1		05.502.0910.0	1		05.502.1010.0	1
Crimping die "D"	05.502.2300.0	1						
Contact positioner "1"	05.502.3100.0	1						
Crimping tool in system kit	95.101.0800.0	1		05.502.0610.0	1			
Crimping die "C"	05.502.2200.0	1						
Contact positioner "2"	05.502.3200.0	1						
Crimping tool in system kit	95.101.0800.0	1		05.502.0810.0	1			
Crimping die "B"	05.502.2100.0	1						
Contact positioner "1"	05.502.3100.0	1						
Crimping tool in system kit	95.101.0800.0	1		05.502.0710.0	1			
Crimping die "B"	05.502.2100.0	1						
Contact positioner "1"	05.502.3100.0	1						
Crimping tool in system kit	95.101.0800.0	1		05.502.0410.0	1			
Crimping die "A" no contact positioner required	05.502.2000.0	1						



Crimping tools for the modular connectors

For contact crimping we provide crimping tools in a modular system: This crimping tool system consists of a crimping tool for which you can select the crimping dies and contact positioners for your required contact type. The crimping dies and the contact positioner are easily inserted in the tool and exchanged. You will require only one crimping tool for several contact types as you can use it with the corresponding crimping dies and contact positioners.

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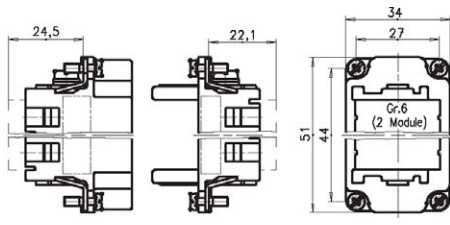



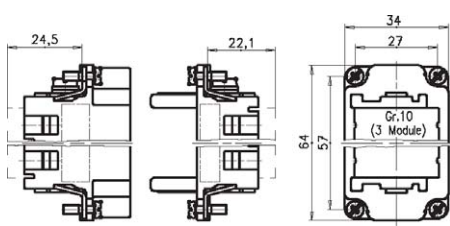



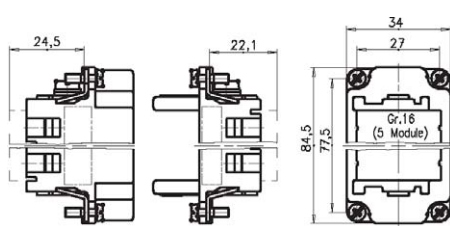



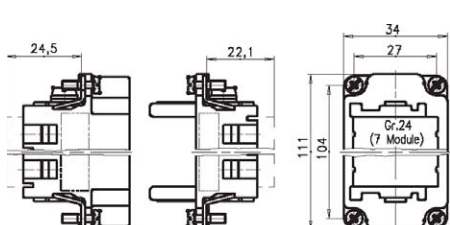




Male

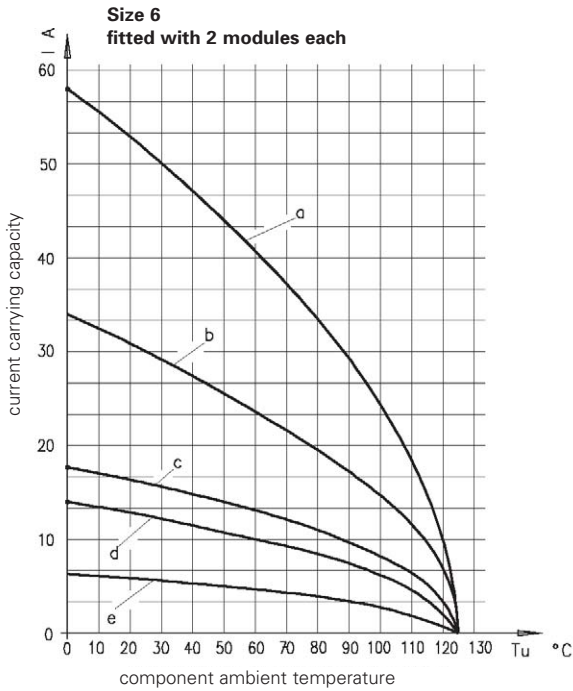
Female

Insulating material PC, halogen-free
 Color pebble gray, RAL 7032
 Flammability class UL 94 V-0

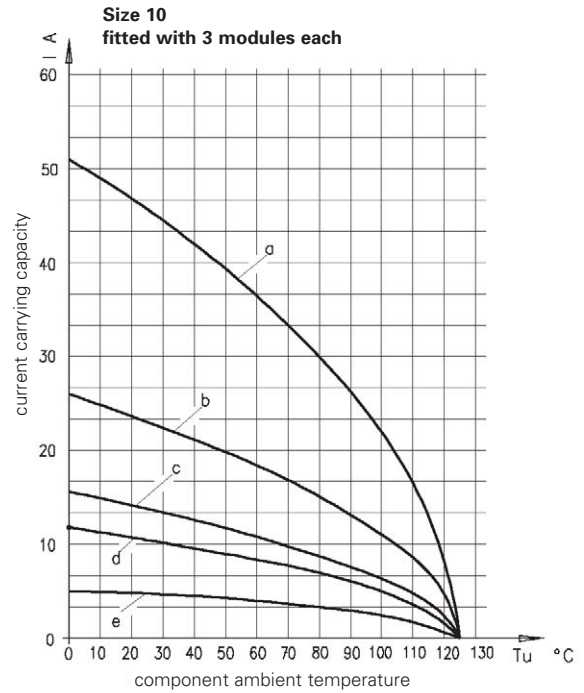
Module frame

	Dimensions in mm	Part no.	Approvals	Stand. pack
Module frame size 6 for 2 modules 	Male module frame Female module frame 	Male module 78.010.0653.0 Female module frame 78.000.0653.0	 	10 10
Module frame size 10 for 3 modules 	Male module frame Female module frame 	Male module frame 78.010.1053.0 Female module frame 78.000.1053.0	 	10 10
Module frame size 16 for 5 modules 	Male module frame Female module frame 	Male module frame 78.010.1653.0 Female module frame 78.000.1653.0	 	10 10
Module frame size 24 for 7 modules 	Male module frame Female module frame 	Male module frame 78.010.2453.0 Female module frame 78.000.2453.0	 	10 10

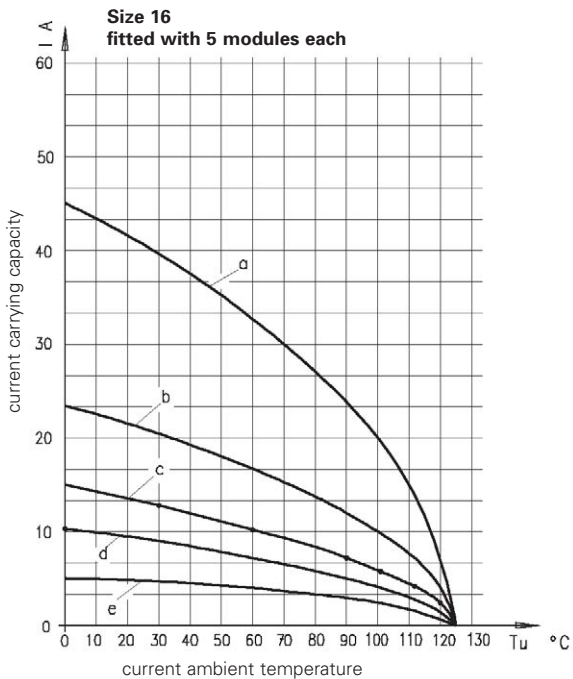
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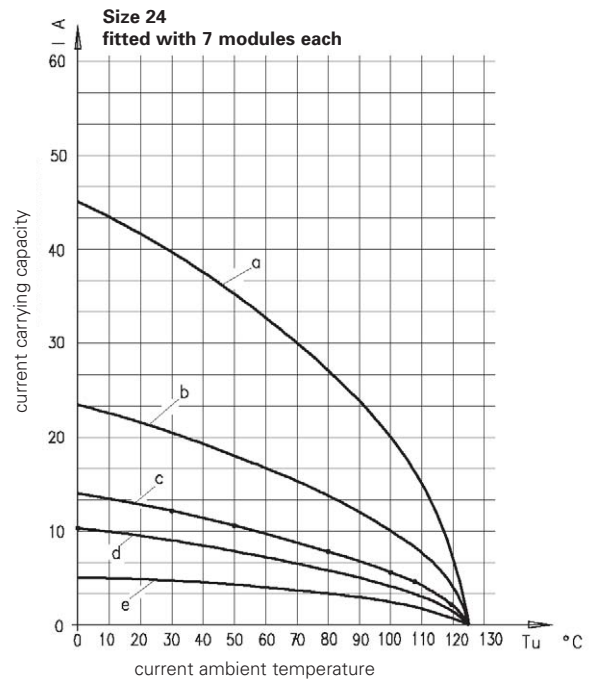
Curve	Num. of poles	Contact diameter	Connector cross section
a	6 (2x3)	3.6 mm, turned	6.0 mm ² / 10 AWG
b	10 (2x5)	2.5 mm, turned	2.5 mm ² / 14 AWG
c	20 (2x10)	1.6 mm, turned	1.5 mm ² / 16 AWG
e	40 (2x20)	1.0 mm, punched	0.5 mm ² / 20 AWG



Curve	Num. of poles	Contact diameter	Connector cross section
a	9 (3x3)	3.6 mm, turned	6.0 mm ² / 10 AWG
b	15 (3x5)	2.5 mm, turned	2.5 mm ² / 14 AWG
c	30 (3x10)	1.6 mm, turned	1.5 mm ² / 16 AWG
e	60 (3x20)	1.0 mm, punched	0.5 mm ² / 20 AWG



Curve	Num. of poles	Contact diameter	Connector cross section
a	15 (5x3)	3.6 mm, turned	6.0 mm ² / 10 AWG
b	25 (5x5)	2.5 mm, turned	2.5 mm ² / 14 AWG
c	50 (5x10)	1.6 mm, turned	1.5 mm ² / 16 AWG
e	100 (5x20)	1.0 mm, punched	0.5 mm ² / 20 AWG



Curve	Num. of poles	Contact diameter	Connector cross section
a	21 (7x3)	3.6 mm, turned	6.0 mm ² / 10 AWG
b	35 (7x5)	2.5 mm, turned	2.5 mm ² / 14 AWG
c	70 (7x10)	1.6 mm, turned	1.5 mm ² / 16 AWG
e	140 (7x20)	1.0 mm, punched	0.5 mm ² / 20 AWG

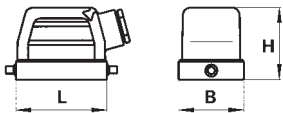
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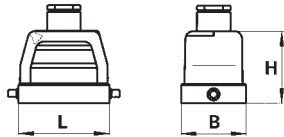
Hoods with single locking levers

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Version A



Version C



Degrees of protection: IP 55;
IP 65 with the appropriate cable glands (see the accessories)

Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	H	Stand. pack
Size 6 for 2 modular inserts 6pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		60	43	47.5	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		60	43	47.5	1
Size 10 for 3 modular inserts 10pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
Size 16 for 5 modular inserts 16pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	76	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	76	1
Size 24 for 7 modular inserts 24pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	76	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	76	1

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Hood	Hood
Version A	Version C
	
Part no.	Part no.
70.350.0635.0 70.350.0635.1 70.350.0635.2 70.350.0635.3	70.352.0635.0 70.352.0635.1 70.352.0635.2 70.352.0635.3
70.353.0635.0 70.353.0635.1 70.353.0635.2 70.353.0635.3	70.354.0635.0 70.354.0635.1 70.354.0635.2 70.354.0635.3
71.350.1035.0 71.350.1035.1 71.350.1035.2 71.350.1035.3	71.352.1035.0 71.352.1035.1 71.352.1035.2 71.352.1035.3
71.353.1035.0 71.353.1035.1 71.353.1035.2 71.353.1035.3	71.354.1035.0 71.354.1035.1 71.354.1035.2 71.354.1035.3
76.350.4035.0 76.350.4035.1 76.350.4035.2 76.350.4035.3	76.352.4035.0 76.352.4035.1 76.352.4035.2 76.352.4035.3
76.353.4035.0 76.353.4035.1 76.353.4035.2 76.353.4035.3	76.354.4035.0 76.354.4035.1 76.354.4035.2 76.354.4035.3
76.350.6435.0 76.350.6435.1 76.350.6435.2 76.350.6435.3	76.352.6435.0 76.352.6435.1 76.352.6435.2 76.352.6435.3
76.353.6435.0 76.353.6435.1 76.353.6435.2 76.353.6435.3	76.354.6435.0 76.354.6435.1 76.354.6435.2 76.354.6435.3

Modular industrial multipole connectors.com

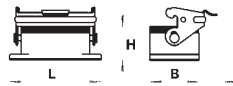
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Housings with single locking levers

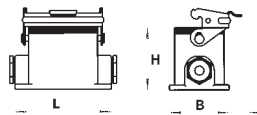
revos FLEX



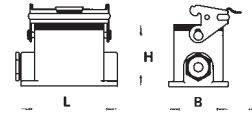
Version a



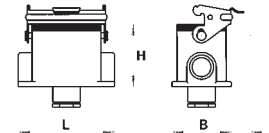
Version b



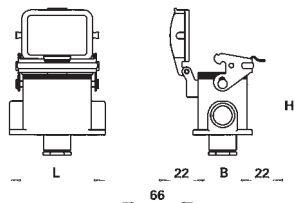
Version c



Version d



Version i



Degrees of protection: IP 55; IP 65
with the appropriate cable glands (see the accessories)

Open-bottom housing

Version a



Closed-bottom housing with two narrow-side entry cable glands

Version b



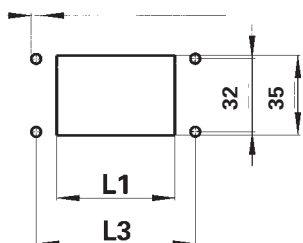
Closed bottom housing with one narrow-side entry cable gland on the left

Version c



Number of poles	Thread	Cable gland type	L	W	H	Std. pack	Part no.	Part no.	Part no.	
Size 6 for 2 modular inserts	M 20	0 with cable gland	80	43	28	1	70.320.0628.0	70.330.0635.0	70.331.0635.0	
		1 with threaded collar	84	52	54.5	1				
		1 with threaded collar	84	52	54.5	1				
Size 10 for 3 modular inserts	M 20	0 with cable gland	93	43	28	1	71.320.1028.0	71.330.1035.0	71.331.1035.0	
		1 with threaded collar	94	52	54.5	1				
		1 with threaded collar	94	52	54.5	1				
Size 16 high design for 5 modular inserts	M 25	0 with cable gland	113	43	28	1	71.320.1628.0	76.330.4035.0	76.331.4035.0	
		1 with threaded collar	117	52	76.5	1				
	M 32	0 with cable gland	117	52	76.5	1		76.334.4035.0	76.335.4035.0	
		1 with threaded collar	117	52	76.5	1				
	Size 24 high design for 7 modular inserts	M 25	0 with cable gland	140	43	28	1	71.320.2428.0	76.330.6435.0	76.331.6435.0
			1 with threaded collar	144	52	76.5	1			
M 32		0 with cable gland	144	52	76.5	1		76.334.6435.0	76.335.6435.0	
		1 with threaded collar	144	52	76.5	1				

Ø 4.3/M 4

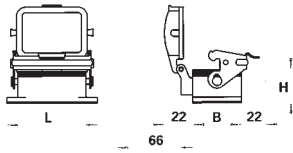


Mounting dimensions and cut-outs for open-bottom housings

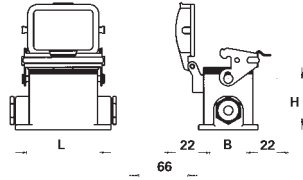
Housing size	(mm)	
	L1	L3
6	52	70
10	65	83
16	85.5	103
24	112	130

revos

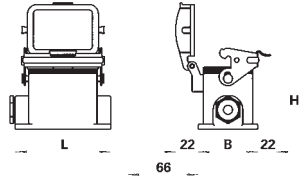
Version e



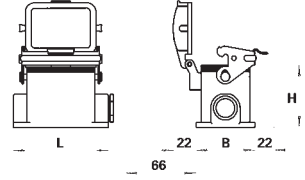
Version f



Version g



Version h



Closed-bottom housing with bottom entry cable gland

Version d



Open-bottom housing with protective cover

Version e



Closed-bottom housing with two narrow-side entry cable glands and protective cover

Version f



Closed bottom housing with one narrow-side entry cable gland on the left and protective cover

Version g



Closed bottom housing with one narrow-side entry cable gland on the right and protective cover

Version h



Closed bottom housing with bottom entry cable gland and protective cover

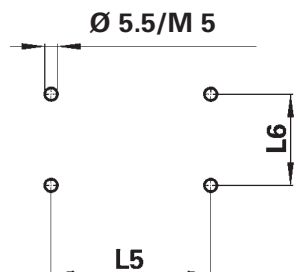
Version i



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.333.0635.0 70.333.0635.1	70.325.0628.0	70.340.0635.0 70.340.0635.1	70.341.0635.0 70.341.0635.1	70.342.0635.0 70.342.0635.1	70.343.0635.0 70.343.0635.1
71.333.1035.0 71.333.1035.1	71.325.1028.0	71.340.1035.0 71.340.1035.1	71.341.1035.0 71.341.1035.1	71.342.1035.0 71.342.1035.1	71.343.1035.0 71.343.1035.1
76.333.4035.0 76.333.4035.1	71.325.1628.0	76.340.4035.0 76.340.4035.1	76.341.4035.0 76.341.4035.1	76.342.4035.0 76.342.4035.1	76.343.4035.0 76.343.4035.1
76.337.4035.0 76.337.4035.1		76.344.4035.0 76.344.4035.1	76.345.4035.0 76.345.4035.1	76.346.4035.0 76.346.4035.1	76.347.4035.0 76.347.4035.1
76.333.6435.0 76.333.6435.1	71.325.2428.0	76.340.6435.0 76.340.6435.1	76.341.6435.0 76.341.6435.1	76.342.6435.0 76.342.6435.1	76.343.6435.0 76.343.6435.1
76.337.6435.0 76.337.6435.1		76.344.6435.0 76.344.6435.1	76.345.6435.0 76.345.6435.1	76.346.6435.0 76.346.6435.1	76.343.6435.0 76.343.6435.1

Housing size	L5 (mm)	L6 (mm)
6	70	40
10	82	40
16	105	45
24	132	45

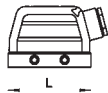
Mounting dimensions for closed-bottom housings



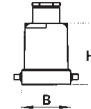
Modular industrial multipole **connectors.com**
 THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS
 Hoods with double locking levers
revos FLEX



Version A



Version C

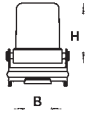
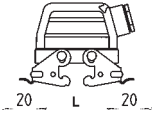


Degrees of protection: IP 55; IP 65
 with the appropriate cable glands (see the accessories)

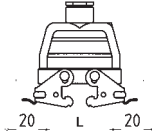
Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	H	Stand. pack
Size 10 for 3 modular inserts	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	76	1
Size 16 for 5 modular inserts	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	76	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	76	1
Size 24 for 7 modular inserts	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	76	1
	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	76	1

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Version D



Version F



Hood	Hood	Hood with locking levers	Hood with locking levers	
Version A	Version C	Version D	Version F	
				
Part no.	Part no.	Part no.	Part no.	
70.350.1035.0 70.350.1035.1 70.350.1035.2 70.350.1035.3	70.352.1035.0 70.352.1035.1 70.352.1035.2 70.352.1035.3	70.355.1035.0 70.355.1035.1 70.355.1035.2 70.355.1035.3	70.357.1035.0 70.357.1035.1 70.357.1035.2 70.357.1035.3	
73.353.1035.0 73.353.1035.1 73.353.1035.2 73.353.1035.3	73.354.1035.0 73.354.1035.1 73.354.1035.2 73.354.1035.3			
73.350.4035.0 73.350.4035.1 73.350.4035.2 73.350.4035.3	73.352.4035.0 73.352.4035.1 73.352.4035.2 73.352.4035.3	73.355.4035.0 73.355.4035.1 73.355.4035.2 73.355.4035.3	73.357.4035.0 73.357.4035.1 73.357.4035.2 73.357.4035.3	
73.353.4035.0 73.353.4035.1 73.353.4035.2 73.353.4035.3	73.354.4035.0 73.354.4035.1 73.354.4035.2 73.354.4035.3	73.358.4035.0 73.358.4035.1 73.358.4035.2 73.358.4035.3	73.359.4035.0 73.359.4035.1 73.359.4035.2 73.359.4035.3	
73.350.6435.0 73.350.6435.1 73.350.6435.2 73.350.6435.3	73.352.6435.0 73.352.6435.1 73.352.6435.2 73.352.6435.3	73.355.6435.0 73.355.6435.1 73.355.6435.2 73.355.6435.3	73.357.6435.0 73.357.6435.1 73.357.6435.2 73.357.6435.3	
73.353.6435.0 73.353.6435.1 73.353.6435.2 73.353.6435.3	73.354.6435.0 73.354.6435.1 73.354.6435.2 73.354.6435.3	73.358.6435.0 73.358.6435.1 73.358.6435.2 73.358.6435.3	73.359.6435.0 73.359.6435.1 73.359.6435.2 73.359.6435.3	

Modular industrial multipole connectors.com

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Housings with double locking levers

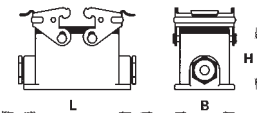
revos FLEX



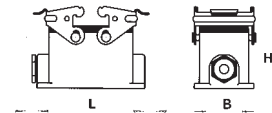
Version a



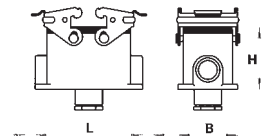
Version b



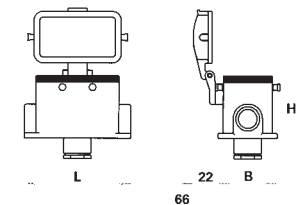
Version c



Version d



Version i



Degrees of protection:
IP 55
IP 65 with the appropriate cable glands (see the access.)

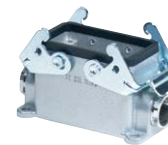
Open-bottom housing

Version a



Closed-bottom housing with two narrow-side entry cable glands

Version b

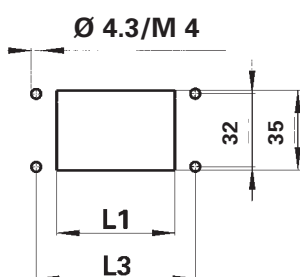


Closed bottom housing with one narrow-side entry cable gland on the left

Version c



Number of poles	Thread	Cable gland type	L	W	H	Stand. pack	Part no.	Part no.	Part no.
Size 10 for 3 modular inserts	M 20	0 with cable gland	93	43	28	1	70.320.1028.0	70.330.1035.0	70.331.1035.0
		1 with threaded collar	94	52	54.5	1			
		1 with threaded collar	94	52	54.5	1			
Size 16 high design for 5 modular inserts	M 25	0 with cable gland	113	43	28	1	70.320.1628.0	73.330.4035.0	73.331.4035.0
		1 with threaded collar	117	52	76.5	1			
		1 with threaded collar	117	52	76.5	1			
Size 16 high design for 5 modular inserts	M 32	0 with cable gland	117	52	76.5	1	73.334.4035.0	73.334.4035.1	73.335.6435.0
		1 with threaded collar	117	52	76.5	1			
		1 with threaded collar	117	52	76.5	1			
Size 24 high design for 7 modular inserts	M 25	0 with cable gland	140	43	28	1	70.320.2428.0	73.330.6435.0	73.331.4035.0
		1 with threaded collar	144	52	76.5	1			
		1 with threaded collar	144	52	76.5	1			
Size 24 high design for 7 modular inserts	M 32	0 with cable gland	140	43	28	1	73.334.6435.0	73.334.6435.1	73.335.6435.0
		1 with threaded collar	144	52	76.5	1			
		1 with threaded collar	144	52	76.5	1			

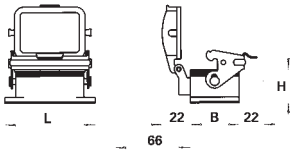


Mounting dimensions and cut-outs for open-bottom housings

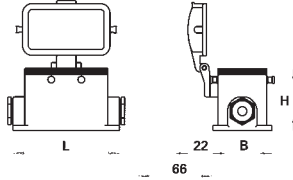
Housing size	(mm)	
	L1	L3
10	65	83
16	85.5	103
24	112	130

revos

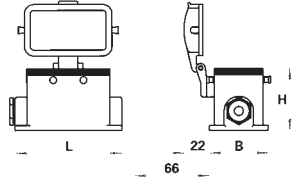
Version e



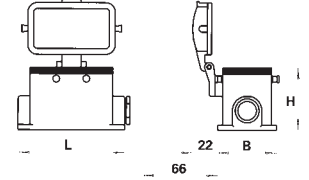
Version f



Version g



Version h



Closed-bottom housing with bottom entry cable gland

Version d



Open-bottom housing with protective cover

Version e



Closed-bottom housing with two narrow-side entry cable glands and protective cover

Version f



Closed bottom housing with one narrow-side entry cable gland on the left and protective cover

Version g



Closed bottom housing with one narrow-side entry cable gland on the right and protective cover

Version h



Closed bottom housing with bottom entry cable gland and protective cover

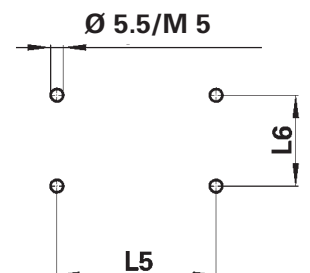
Version i



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.333.1035.0 70.333.1035.1	70.325.1028.0	70.340.1035.0 70.340.1035.1	70.341.1035.0 70.341.1035.1	70.342.1035.0 70.342.1035.1	70.343.1035.0 70.343.1035.1
73.333.4035.0 73.333.4035.1	70.325.1628.0	73.340.4035.0 73.340.4035.1	73.341.4035.0 73.341.4035.1	73.342.4035.0 73.342.4035.1	73.343.4035.0 73.343.4035.1
73.337.4035.0 73.337.4035.1		73.344.4035.0 73.344.4035.1	73.345.4035.0 73.345.4035.1	73.346.4035.0 73.346.4035.1	73.347.4035.0 73.347.4035.1
73.333.6435.0 73.333.6435.1	70.325.2428.0	73.340.6435.0 73.340.6435.1	73.341.6435.0 73.341.6435.1	73.342.6435.0 73.342.6435.1	73.343.6435.0 73.343.6435.1
73.337.6435.0 73.337.6435.1		73.344.6435.0 73.344.6435.1	73.345.6435.0 73.345.6435.1	73.346.6435.0 73.346.6435.1	73.347.6435.0 73.347.6435.1

Mounting dimensions for closed-bottom housings

Housing size	L5 (mm)	L6 (mm)
10	82	40
16	105	45
24	132	45



revos IT

Technical information

■ Applicable standards

IEC 61 984

■ Hoods and housings

Material

die cast aluminum alloy

Surface

silver gray, silicon-free finish

Clamping screws

galvanically zinc-plated steel

Locking levers:

Steel, galvanically zinc-plated and dichromated

Gaskets

Neoprene (oil-resistant and anti-aging)

1 cable feed-through

Cable diameter: 2 – 10 mm

2 cable feed-throughs

Cable diameter: 9 - 15 mm

Temperature range

-40 to +100 °C

Degree of protection

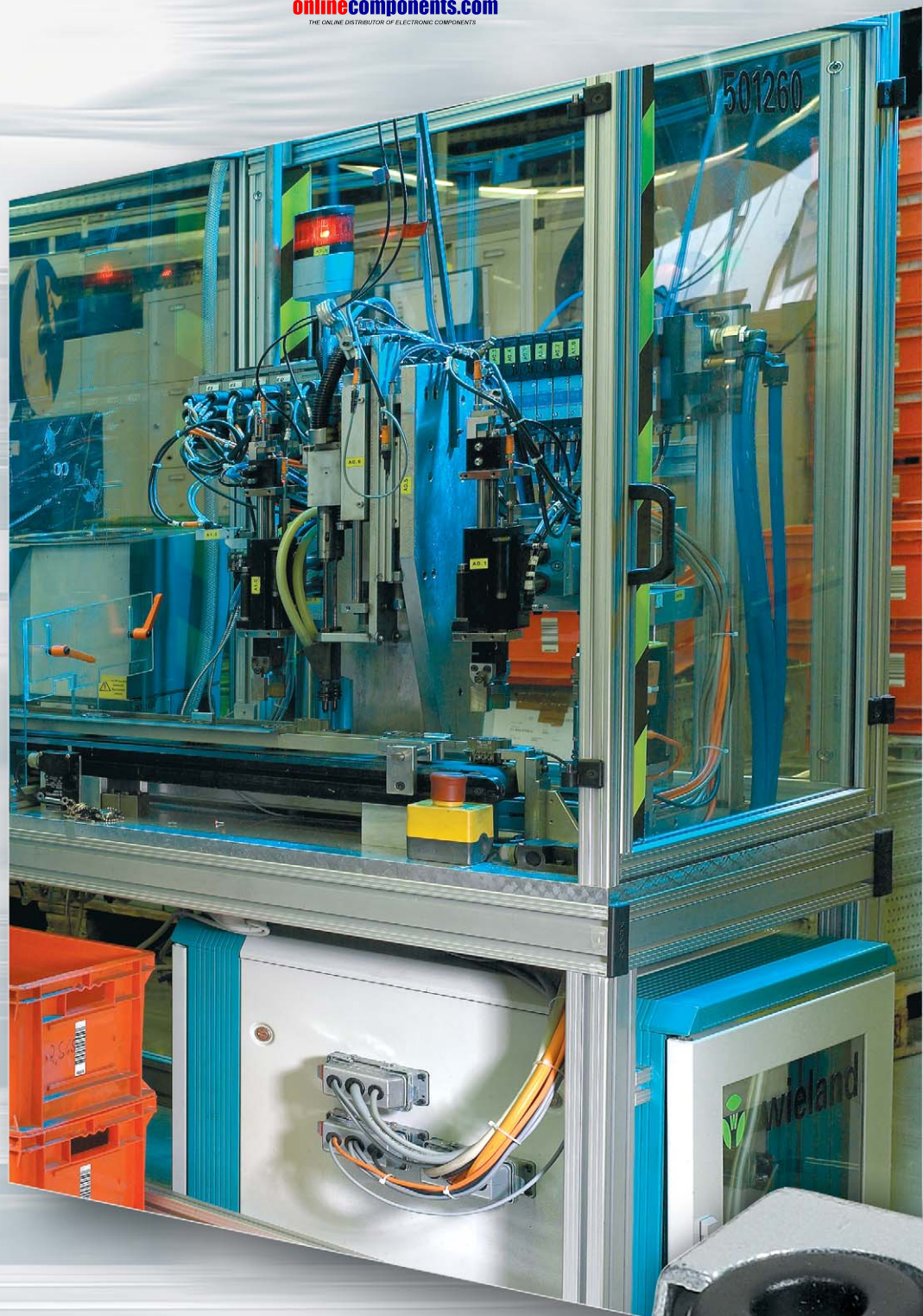
accord. to DIN EN 60 529

with latched locking levers

IP 55

with appropriate cable glands

IP 65



Industrial Multipole Connectors

Data cable feed-through

revos IT

The data cable feed-through can be separated.

The two halves, one of which has ring-shaped rubber gaskets, are closed by means of two threaded screws.

Inside each of the two halves a special rubber clamping profile properly seals the cables. Three metal clips provide the strain relief.

The **data cable feed-through** was designed to insert cables into closed housings, tightly and with strain relief, without having to disassemble the connectors. It is the ideal technique for connection cables of PLCs, data cables, measuring and encoder lines.

Each data cable feed-through has three feed-through facilities for cables of different diameters. Feed-through holes which are not used can be sealed with plastic covers.

The data cable feed-through can be snapped onto a 16pole housing without an insert. These housings normally provide enough space to insert the connectors of data cables or measuring lines without a problem.

Technical information

Hood and housing

Die cast aluminum alloy with silicon-free finish in silver gray

Temperature range: -40°C bis +100°C

Clamping screws: galvanically zinc-plated steel

Locking levers: steel, galvanically zinc-plated and dichromated

Gaskets: Neoprene (oil-resistant and anti-aging)

They meet the degree of protection IP 65 accord. to EN 60 529: (IEC 60 529: 1989, 2nd edition)

2 cable feed-throughs for cable diameters of 2 mm – 10 mm

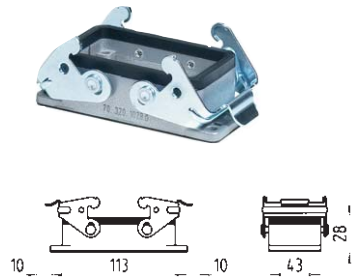
1 cable feed-through for cable diameters of 2 mm – 15 mm



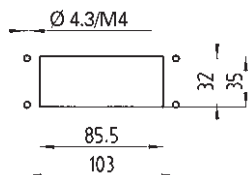
revos



Type	Part no.	Stand. pack
Data cable feed-through	70.060.1628.0	10
Housing, 16pole	70.320.1628.0	1
Rubber gaskets can be ordered as replacement parts		
Rubber gasket for:		
Connection range 2 mm – 10 mm	05.562.3183.0	10
Connection range 9 mm – 15 mm	05.562.3283.0	10



Mounting dimensions and cut-outs for open-bottom housings (mm)



Industrial multipole connectors with single locking levers, 9 to 100pole


D-Sub connectors

revos IT

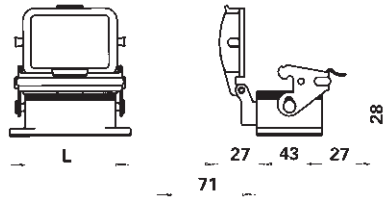
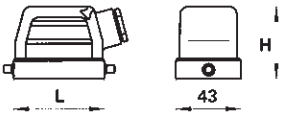


D-Sub connectors

Degrees of protection: **IP 55**
IP 65 with appropriate cable glands

Pole configuration	Part no.	Stand. pack	Part no.	Stand. pack	Size
		Housing with female connector		Hood with male connector	
9pole	Z7.415.0010.0		Z7.415.0235.0	10	6
2 x 9 = 18pole	Z7.415.0110.0		Z7.415.0335.0	10	6
15pole	Z7.415.0810.0		Z7.415.1035.0	10	6
2 x 15 = 30pole	Z7.415.0910.0		Z7.415.1135.0	10	6
25pole	Z7.415.1610.0		Z7.415.1935.0	10	10
15 + 25 = 40pole	Z7.415.1810.0		Z7.415.2135.0	10	10
2 x 25 = 50pole	Z7.415.1710.0		Z7.415.2035.0	10	10
37pole	Z7.415.2410.0		Z7.415.2635.0	10	16
2 x 37 = 74pole	Z7.415.2510.0		Z7.415.2735.0	10	16
50pole	Z7.415.3210.0		Z7.415.3335.0	10	16
2 x 50 = 100pole	Z7.415.3410.0		Z7.415.3535.0	10	16

revos



Housing size	L (mm)	H (mm)
6	60	47.5
10	73	53
16	93.5	60

Housing size	L (mm)
6	80
10	93
16	113

Delivery standard:

Hood/housing, D-Sub connector, mounting screws and mounting plates are delivered unassembled.

Hood with M 20 cable gland

The contacts are nickle-plated and hard-gold-plated in the contact area.

Current carrying capacity per contact with ambient temperatures of:

+ 20 °C	5 A
+ 70 °C	3 A
+ 100 °C	1.5 A

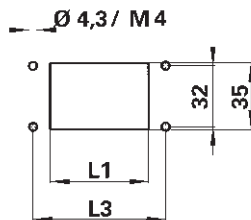
Solder connection

max. 0.5 mm²

Rated voltage

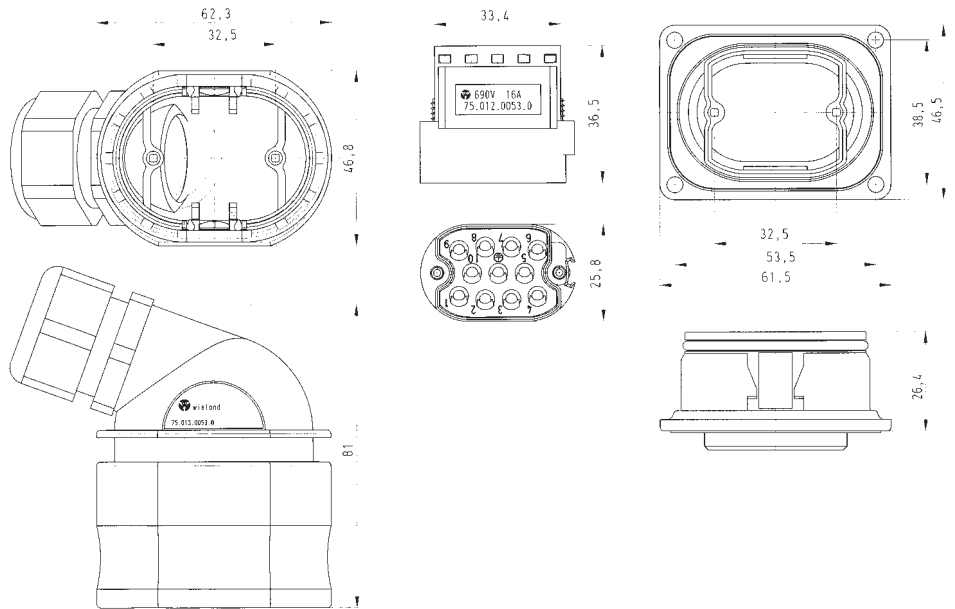
40 V/1 kV/2

Mounting dimensions and cut-outs for open-bottom housings (mm)





Housing size	L1 (mm)	L3 (mm)
6	52	70
10	65	83
16	85.5	103

revos MOT



600 V UL/CSA

690 V, 16 A IEC 61 984

Number of poles		Thread	Number of poles	>Ø< in mm	Approvals	Cable entry side	Stand. pack	Part no.
	Hood with IP 65 cable gland	M 25	10pole			narrow side	10	75.013.0051.0
	Hood with compression gland	M 25	10pole			narrow side	10	75.013.0051.2
	Housing		10pole + ground			open-bottom	10	75.013.5051.0
	Female insert		10pole + ground				10	75.012.0053.0
	Male insert		10pole + ground				10	75.012.5053.0
	Cable gland, standard	M 25 x 1.5		9 – 16				Z5.507.1453.1
	Cable gland	M 25 x 1.5		13 – 18				Z5.507.1553.1

revos

Contacts for crimp version

Female contacts



Male contacts



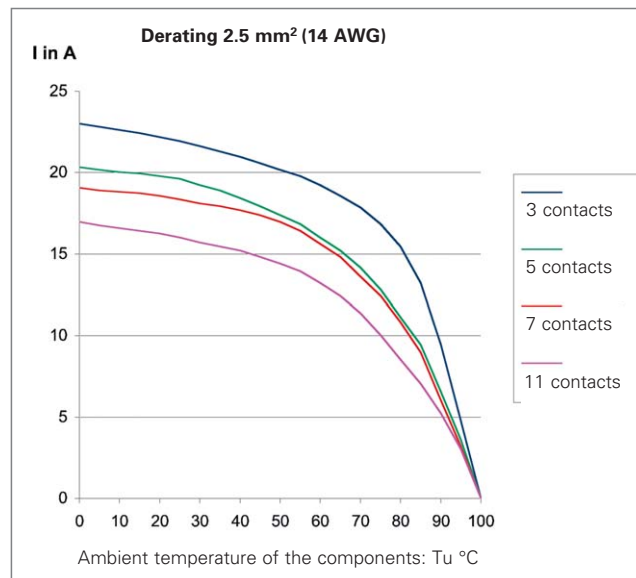
Crimping tool
Crimping die "B"
Contact positioner "3"
Extraction tool

Ø in mm ²	Part no.	Stand. pack	Ø in mm ²	Part no.	Stand. pack
	tin-plated			gold-plated	
0.5	20 AWG 02.123.7021.0	200	0.5	20 AWG 02.123.7001.0	upon request
0.75 - 1	18 AWG 02.123.7121.0	200	0.75 - 1	18 AWG 02.123.7101.0	upon request
1.5	16 AWG 02.123.7221.0	200	1.5	16 AWG 02.123.7201.0	upon request
2.5	14 AWG 02.123.7321.0	200	2.5	14 AWG 02.123.7301.0	upon request
4	12 AWG 02.123.7421.0	200	4	12 AWG 02.123.7401.0	upon request
0.5	20 AWG 05.543.7021.0	200	0.5	20 AWG 05.543.7001.0	upon request
0.75 - 1	18 AWG 05.543.7121.0	200	0.75 - 1	18 AWG 05.543.7101.0	upon request
1.5	16 AWG 05.543.7221.0	200	1.5	16 AWG 05.543.7201.0	upon request
2.5	14 AWG 05.543.7321.0	200	2.5	14 AWG 05.543.7301.0	upon request
4	12 AWG 05.543.7421.0	200	4	12 AWG 05.543.7401.0	upon request
	95.101.0800.0	1			
	05.502.2100.0	1			
	05.502.3300.0	1			
	05.502.3500.0	1			

silver-plated upon request

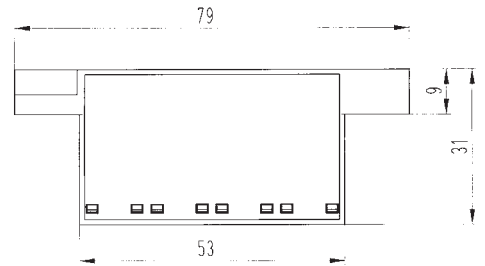
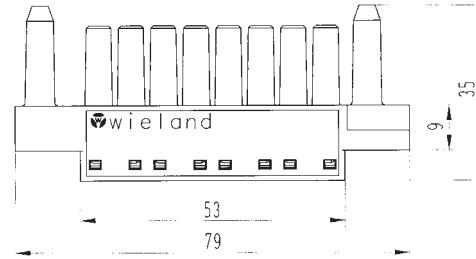
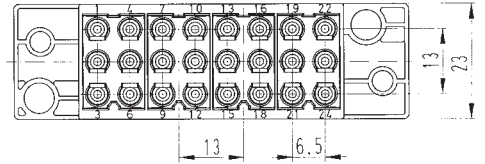
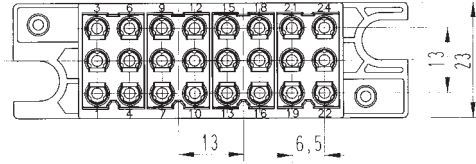
Technical information:

Rated current:	16 A
Rated voltage:	690 V
Nominal voltage accord. to UL:	600 V
Nominal voltage accord. to CSA:	600 V
Rated cross section:	0.5 - 4 mm ² 20 - 12 AWG
Pollution degree:	3
Rated peak voltage	8 kV
Temperature range:	-40 °C to +80 °C
Flammability accor. to UL 94:	V0
Inserts:	V0
hoods/housings:	V2
Connection range:	9 - 16 mm 13 - 18 mm
Connection style:	crimp connection
Degree of protection:	IP 65
Color:	inserts in gray RAL 7035 hoods/housings in black RAL 9005
Material:	Polyamide







24pole

revos SLIDE



250 V 10 A IEC 61 984

	Number of poles		Approvals	Stand. pack	Part no.
Female insert	24pole		 pending	100	99.700.6905.5
Male insert	24pole		 pending	100	99.701.6905.5

revos

Contacts for crimp version

Female contacts



Male contacts

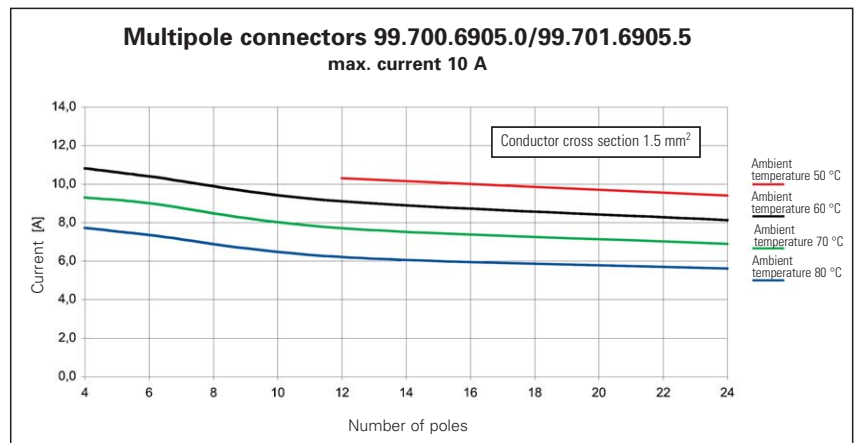
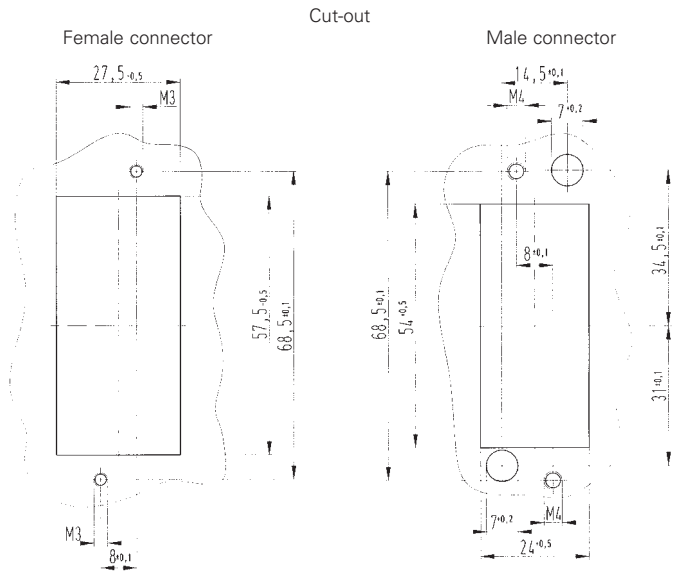


Crimping tool
Crimping die "B"
Contact positioner "3"
Extraction tool for the contacts

Ø mm ²	Part no.	Stand. pack
1.5 mm ² 16 AWG	silver-plated 02.125.1121.0	100
	05.544.5621.0	100
1.5 mm ² 16 AWG	95.101.0800.0	1
	05.502.2100.0	1
	05.502.3300.0	1
	05.502.3500.0	1

Technical information:

Rated current:	10 A
Rated voltage:	250 V
Rated cross section:	1.5 mm ² 16 AWG
Pollution degree:	3
Rated peak voltage	4 kV
Temperature range:	-20 °C to +80 °C
Flammability accor. to UL 94:	V0 50 (80) °C see derating
Degree of protection:	IP 20
Connection style:	crimp connection
Material:	Polyamide
Approvals:	UL/CSA pending



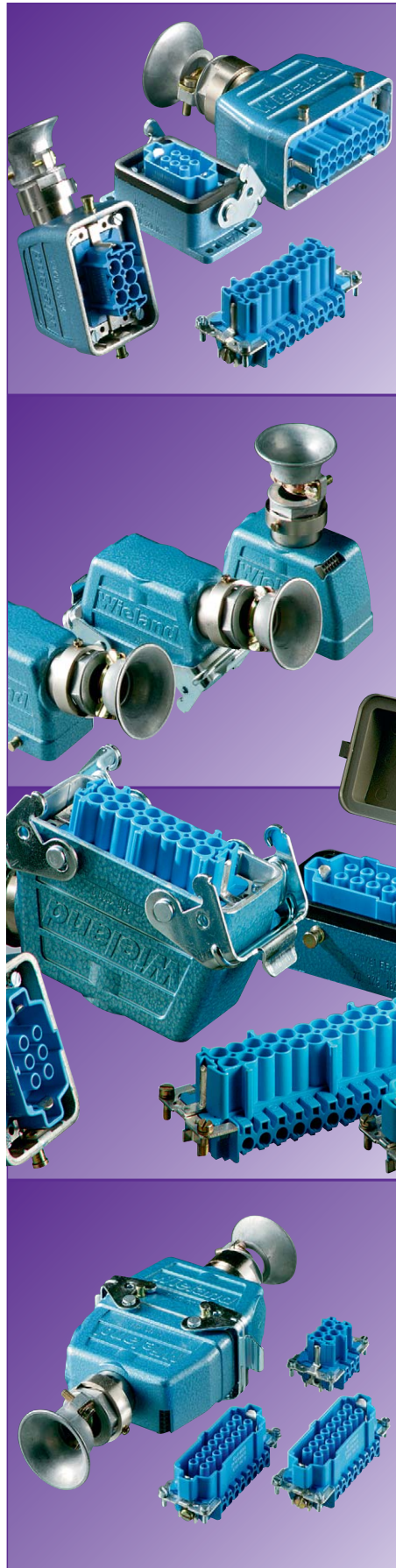
This curve does not apply for intermittent currents

Technical information

■ Approvals	BVS
■ Applicable standards	IEC 61 984
■ Contact inserts	
Rated current	16 A
Rated voltage	90 V
Pole configurations	6-, 10-, 16-, 24-, 48pole (2x24), + ground
Screw connection	0.5 – 2.5 mm ² / 20 – 12 AWG
Degree of pollution	3
Temperature range	–40 to +110 °C
■ Contacts	
Material	copper alloy
Surface	tin-plated
■ Hoods and housings	
Material	die cast aluminum alloy
Surface	light blue, silicon-free finish
Locking levers	zinc-plated steel
Gaskets	NBR
Temperature range	–40 to +110 °C
Degree of protection accord. to DIN EN 60 529	IP 55



Industrial Multipole Connectors



System description

- For applications in mining, machine construction, control and switchgear building, especially for use in intrinsic electrical systems
- BVS-tested and approved
- Reliable connector elements for power and control current lines
- Outstanding feature: a robust die cast zinc housing, color blue
- Protection of the internal contact-inserts against mechanical and hazardous industrial influences
- According to EN 60 529, IEC 60 529, the interlocked hoods and housings provide the degree of protection IP 55 (dust ingress and jet water)

Protective cover

- Hoods and housings with / without hinged protective cover

Cable to cable couplings

- low and high designs
- Locking with 1 lever on the broad side (6pole and 48pole)
- Locking with 2 levers on the narrow side (10, 16 and 24pole)

Female and male connector inserts:

- Insulating parts made from fiberglass reinforced Polyamide (technical information: see **facts & DATA**)

Material

Housing:

- Hoods/housings: die cast zinc alloy, with hammer finish in blue

Housing:

- with open-bottom housing: cable entry at the bottom
- with closed-bottom housing: narrow-side cable entry
- Connector with open-bottom housing; housing with protective cover attached by hinged joint
- Connector with closed-bottom housing; housing with protective cover attached by hinged joint
- Connector with compression gland

DQS certificates for all product families

- Quality standard as per DIN ISO 9001
- in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - OQS Certificate, Austria

revos



- ❑ Combination with flat open-bottom housing in die cast zinc alloy



- ❑ Combination with high closed-bottom housing in die cast zinc alloy



- ❑ Combination with low open-bottom housing in die cast zinc alloy with protective cover



- ❑ Combination with high closed-bottom housing in die cast zinc alloy with protective cover



- ❑ Combination of 2 hoods as cable to cable coupling, with narrow-side locking levers, die cast zinc alloy







90 V

Degree of protection: IP 55

Multipole connectors for intrinsic systems EEx ia, color: blue

		Rated current	Cross section	Approvals	Wire strip length	Stand. pack
 <p>Screw connection</p>	Female insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	EExia	7 mm	10
 <p>Screw connection</p>	Male insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	EExia	7 mm	10

revos

6pole + ground	10pole + ground	16pole + ground	24pole + ground	48pole + ground	
Part no.	Part no.	Part no.	Part no.	Part no.	
72.300.0653.9	72.300.1053.9	72.300.1653.9	72.300.2453.9	72.300.4853.9	
72.310.0653.9	72.310.1053.9	72.310.1653.9	72.310.2453.9	72.310.4853.9	

Modular industrial multipole connectors.com

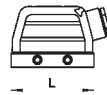
connectors.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Hoods with single and double locking levers

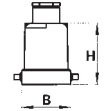
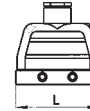
revos Ex



Version A



Version C



90 V

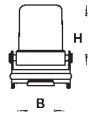
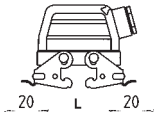
Degree of protection: IP 55

Multipole connectors for intrinsic systems EEx ia

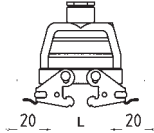
Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	H	Stand. pack
Size 6 for multipole connectors 6pole + ground	Pg 13.5	7 with Pg thread 9 with strain relief		60	43	47.5	1
	Pg 16	7 with Pg thread 9 with strain relief		60	43	47.5	1
Size 10 for multipole connectors 10pole + ground	Pg 16	7 with Pg thread 9 with strain relief		73	43	53	1
	Pg 21	7 with Pg thread 9 with strain relief		73	43	53	1
Size 16 for multipole connectors 16pole + ground	Pg 21	7 with Pg thread 9 with strain relief		93.5	43	60	1
	Pg 29	7 with Pg thread 9 with strain relief		93.5	43	60	1
Size 24 for multipole connectors 24pole + ground	Pg 21	7 with Pg thread 9 with strain relief		120	43	70	1
	Pg 29	7 with Pg thread 9 with strain relief		120	43	70	1
Size 48 for multipole connectors 48pole + ground	Pg 29	7 with Pg thread 9 with strain relief		132	90	107	1
	Pg 32	7 with Pg thread 9 with strain relief		132	90	107	1

revos

Version D



Version F



Hood with cable gland

Version A



Hood with cable gland

Version C



Hood with cable gland and locking levers

Version D



Hood with cable gland and locking levers

Version F



Part no.	Part no.	Part no.	Part no.
70.350.0628.7 70.360.0628.9	70.352.0628.7 70.362.0628.9		
70.363.0628.9	70.354.0628.7 70.364.0628.9		
70.350.1028.7 70.360.1028.9	70.352.1028.7 70.362.1028.9	70.355.1028.7 70.365.1028.9	70.367.1028.9
70.363.1028.9	70.354.1028.7 70.364.1028.9	70.368.1028.9	70.369.1028.9
70.350.1628.7 70.360.1628.9	70.352.1628.7 70.362.1628.9	70.355.1628.7 70.365.1628.9	70.367.1628.9
70.363.1628.9	70.354.1628.7 70.364.1628.9	70.368.1628.9	70.359.1628.7 70.369.1628.9
70.350.2428.7 70.360.2428.9		70.365.2428.9	70.367.2428.9
70.363.2428.9	70.354.2428.7	70.358.2428.7 70.368.2428.9	
70.350.4828.7 70.360.4828.9	70.352.4828.7 70.362.4828.9		
70.353.4828.7	70.354.4828.7 70.364.4828.9		

Modular industrial multipole connectors.com

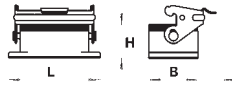
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Housings with single and double locking levers

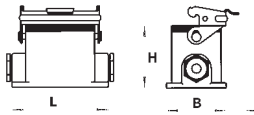
revos Ex



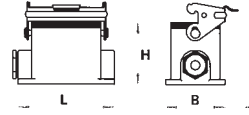
Version a



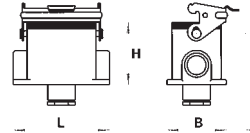
Version b



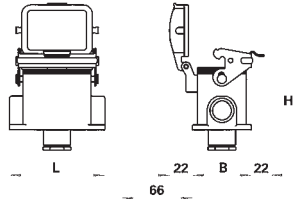
Version c



Version d



Version i



Open-bottom housing

Version a



Closed-bottom housing with two narrow-side entry cable glands

Version b



Closed bottom housing with one narrow-side entry cable gland on the left

Version c

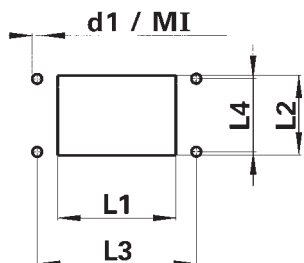


90 V

Degree of protection: IP 55

Multipole connectors for intrinsic systems EEx ia

Number of poles	Thread	Cable gland type	L	W	H	Stand. pack	Part no.	Part no.	Part no.
Housing size 6 for multipole connectors 6pole + ground		9 with cable gland	80	43	28	1	70.320.0628.9		
	Pg 16		84	52	54.5	1		70.330.0628.9	70.331.0628.9
Housing size 10 for multipole connectors 10pole + ground		9 with cable gland	93	43	28	1	70.320.1028.9		
	Pg 16		94	52	54.5	1		70.330.1028.9	70.331.1028.9
Housing size 16 for multipole connectors 16pole + ground			113	43	28	1	70.320.1628.9		
Housing size 24 for multipole connectors 24pole + ground		9 with cable gland	140	43	44	1	70.320.2428.9		
	Pg 21		144	52	56.5	1		70.330.2428.9	70.331.2428.9
Housing size 48 for multipole connectors 48pole + ground			165	90	44	1	70.320.4828.9		
	Pg 29	9 with cable gland	146	120	99	1			70.331.4828.9
	Pg 36	9 with strain relief	146	120	99	1			

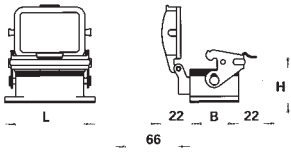


Mounting dimensions and cut-outs for open-bottom housings

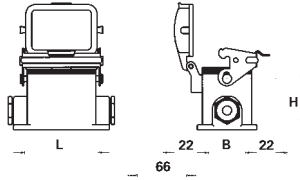
Housing size	Cut-out (mm)		Mounting dimensions (mm)		d1 (mm)	MI
	L1	L2	L3	L4		
6	52	35	70	32	4.3	M 4
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
48	117	81	148	70	6.4	M 6

revos

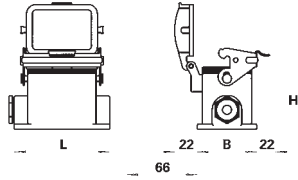
Version e



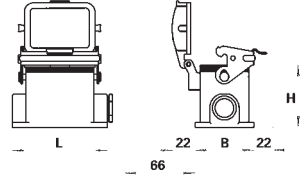
Version f



Version g



Version h



Closed-bottom housing with bottom entry cable gland

Version d



Open-bottom housing with protective cover

Version e



Closed-bottom housing with two narrow-side entry cable glands and protective cover

Version f



Closed bottom housing with one narrow-side entry cable gland on the left and protective cover

Version g



Closed bottom housing with one narrow-side entry cable gland on the right and protective cover

Version h



Closed bottom housing with bottom entry cable gland and protective cover

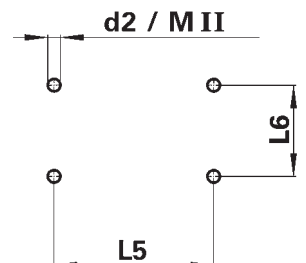
Version i



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.333.0628.9	70.325.0628.9	70.340.0628.9	70.341.0628.9	70.342.0628.9	70.343.0628.9
70.333.1028.9	70.325.1028.9	70.340.1028.9	70.341.1028.9	70.342.1028.9	70.343.1028.9
	70.325.1628.9				
70.333.2428.9	70.325.2428.9	70.340.2428.9	70.341.2428.9	70.342.2428.9	70.343.2428.9
	70.325.4828.9		70.341.4828.9		
			70.344.4828.9		

Housing size	L5 (mm)	L6 (mm)	d2 (mm)	MII
6	70	40	5.5	M 5
10	82	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5
48	111	106	6.5	M 6





Mounting dimensions for closed-bottom housings

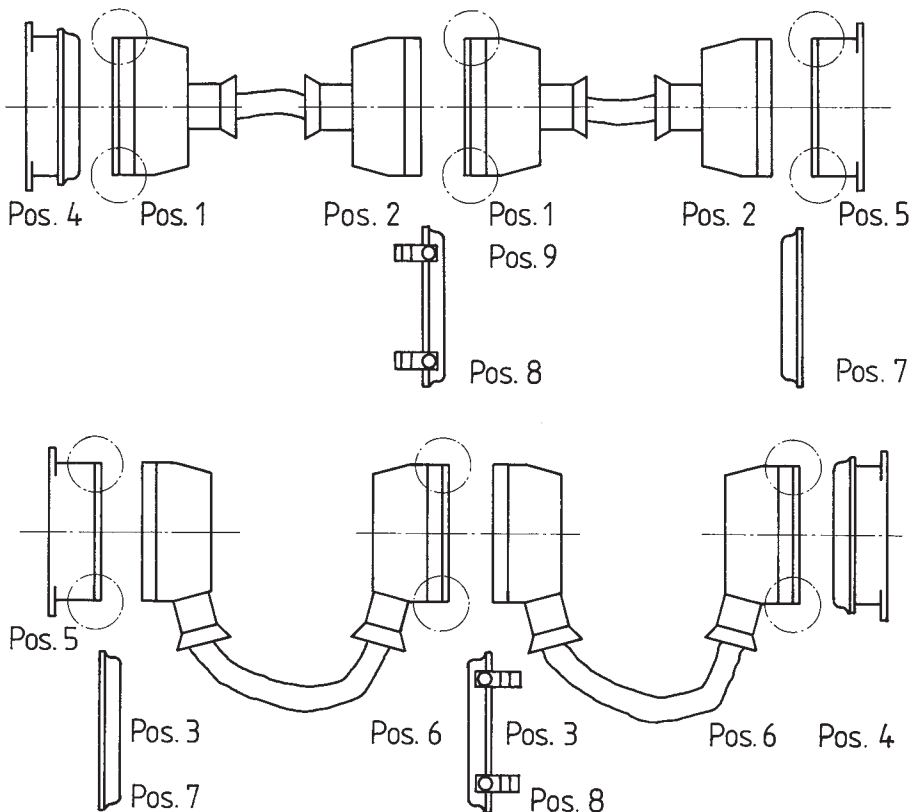


Special combinations for cable to cable couplings

revos Ex

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

		Female insert	Male insert	Hood with strain relief, with locking levers and gasket	Hood with strain relief without locking levers
				Pos. 1 	Pos. 2 
Number of poles	Cable entry size	Part no.	Part no.	Part no.	Part no.
6 + ground	Pg 13.5	72.300.0653.9	72.310.0653.9	99.701.3329.7	70.362.0628.9
6 + ground	Pg 16	72.300.0653.9	72.310.0653.9	99.721.3329.7	70.364.0628.9
10 + ground	Pg 16	72.300.1053.9	72.310.1053.9	99.707.3329.7	70.362.1028.9
10 + ground	Pg 21	72.300.1053.9	72.310.1053.9	99.727.3329.7	70.364.1028.9
16 + ground	Pg 21	72.300.1653.9	72.310.1653.9	99.703.3329.7	70.362.1628.9
16 + ground	Pg 29	72.300.1653.9	72.310.1653.9	99.723.3329.7	70.364.1628.9
24 + ground	Pg 29	72.300.2453.9	72.310.2453.9	99.705.3329.7	70.362.2428.9
48 + ground	Pg 29	72.300.4853.9	72.310.4853.9	70.377.4828.9	70.375.4828.9



Mounting examples

revos

Hood with strain relief without locking levers

Pos. 3



Open-bottom housing with protective cover gasket in the cover

Pos. 4



Open-bottom housing with locking levers, with gasket

Pos. 5



Hood with strain relief with locking levers and gasket

Pos. 6



Hood with Pg thread only, with locking levers, with gasket

Pos. 9
(do not combine with pos. 4)

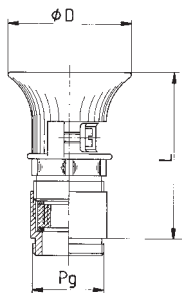


Hood with Pg thread only, without locking levers

Pos. 2



Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.360.0628.9	99.700.3329.7	70.320.0628.9	99.710.3329.7	70.372.0628.7	70.352.0628.7
70.363.0628.9	99.700.3329.7	70.320.0628.9	99.711.3329.7	-	70.354.0628.7
70.360.1028.9	99.706.3329.7	70.320.1028.9	-	70.372.1028.7	70.352.1028.7
70.363.1028.9	99.706.3329.7	70.320.1028.9	99.713.3329.7	-	70.354.1028.7
70.360.1628.9	99.702.3329.7	70.320.1628.9	-	70.372.1628.7	70.352.1628.7
70.363.1628.9	99.702.3329.7	70.320.1628.9	99.716.3329.7	-	70.354.1628.7
70.360.2428.9	99.704.3329.7	70.320.2428.9		70.372.2428.7	70.352.2428.7
70.360.4828.9		70.320.4828.9		70.372.4828.7	70.352.4828.7



Strain relief screw with locking ring

Part no.	Cable entry sizes		Ø (mm)
	L	Pg	Ø D
Z5.509.0529.0	44.6	13.5	35
Z5.508.8129.0	56.6	16	35
Z5.508.8229.0	63.1	21	35
Z5.508.8329.0	66.6	29	35
Z5.509.0829.0	89.6	36	81

Accessories

revos



For hoods with cable glands or flared cable entries and strain reliefs we provide locking rings in the size of the various cable entries to lock the pressure screw.



Locking ring

After the pressure screw is tightened, the locking ring is slid over the hexagon head of the pressure screw and is fixed to the compression gland by means of a pan head screw. The pressure screw is now protected against accidental loosening.

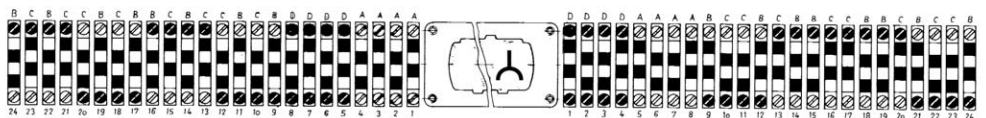
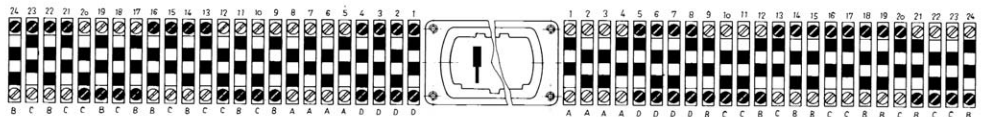
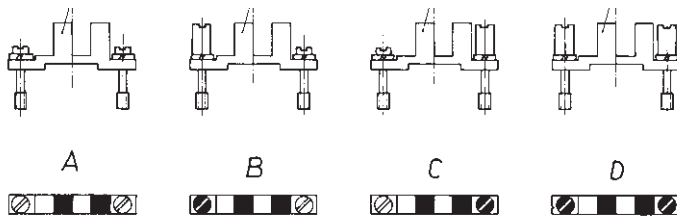


If several connectors of the same pole configuration have to be mounted adjacent to each other, coding fixtures prevent them from being mismatched. Only matching female and male parts can be connected. (4 coding options). Coding pins enable six unique combinations.

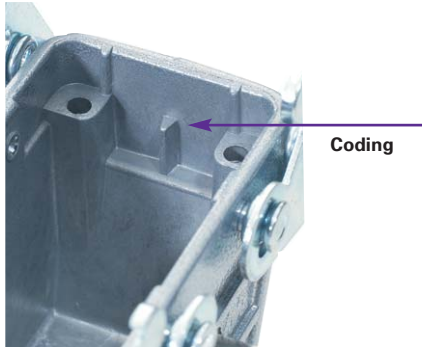
Coding fixtures in combination with special coding pins provide 24 codings according to the following plan (part no. **Z5.593.4053**): (not applicable for the versions 72.3 and 72.7)



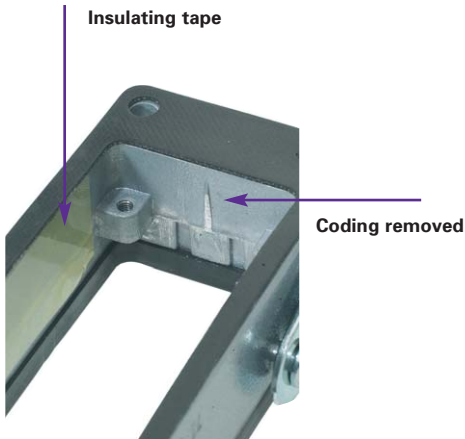
For part no. see page 788



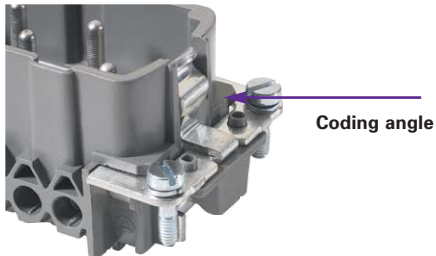
revos



The hoods and housings for 400 V inserts are coded, so that the female and male inserts for the series of 690/400 V and 690 V cannot be mounted to them.



The coding ribs of the hoods and housings of series 690/400 V and 690 V were removed. Additionally, two insulating tapes are attached inside these hoods and housings.

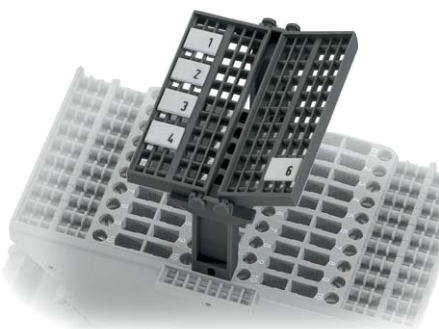


The female and male inserts of series 690/400 V and 690 V are equipped with coding angles. They prevent that the female and male inserts of this series are mounted to the hoods and housings for 400 V.

The 3pole, 6pole and 10pole inserts of series 690/400 V have a coding fixture which prevents that they are plugged together with 400 V male inserts.



Insulated jumper bar for multipole adapters (see page 781)



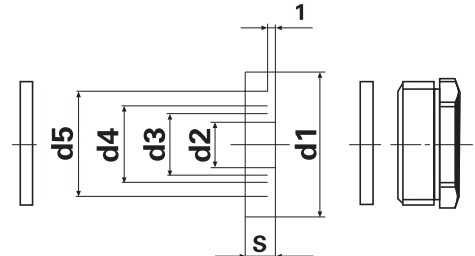
Marking tag carrier with 6 digits for open-bottom housings (see page 790) (without marking tags)

Accessories for multipole connectors and multipole adapters

Metric cable threads

revos

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Cable gland nickel-plated brass, with circular compression gland, IP 54 degree of protection

Metric thread	d1	d2	>Øk in mm	d3	>Øk in mm	d4	>Øk in mm	d5	>Øk in mm	Part no.	Stand. pack
M 16	13.8	3	2.0 – 4.5	6	5.0 – 7.5	9	8.0 – 10.5	–	–	Z5.507.2121.0	10
M 20	17.6	4	3.0 – 5.5	7	6.0 – 8.5	10	9.0 – 11.5	13	12.0 – 14.5	Z5.507.2221.0	10
M 25	22.6	8.5	7.5 – 10.0	11.5	10.5 – 13.0	14.5	13.5 – 16.0	17.5	16.5 – 19.0	Z5.507.2321.0	10
M 32	29.6	16	15.0 – 17.5	19	18.0 – 20.5	22	21.0 – 23.5	25	24.0 – 26.5	Z5.507.2421.0	10



Cable gland nickel-plated brass, with internal strain relief and gasket on the connection thread IP 68 degree of protection

Metric thread	>Øk in mm	⌀ mm	Thread length in mm	Part no.	Stand. pack
M 20 x 1.5	8.0 – 13.0	22	6	Z5.507.1321.0	10
M 25 x 1.5	11.0 – 18.0	27	7	Z5.507.1521.0	10
M 32 x 1.5	15.0 – 21.0	34	8	Z5.507.1721.0	10
M 40 x 1.5	19.0 – 27.0	44	8	Z5.507.1921.0	10

Hoods and housings with a cable gland from brass and IP 68 degree of protection can be preassembled upon request and for minimum order quantities of 50 pieces.



Plastic cable gland Polyamide, gray (RAL 7035), with strain relief IP 68 degree of protection

Metric thread	>Øk in mm	⌀ mm	Thread length in mm	Part no.	Stand. pack
M 20 x 1.5	6.0 – 12.0	24	9	Z5.507.1353.0	10
M 25 x 1.5	7.0 – 16.0	28	11	Z5.507.1553.0	10
M 32 x 1.5	10.0 – 21.0	36	11	Z5.507.1753.0	10
M 40 x 1.5	16.0 – 28.0	46	11	Z5.507.1953.0	10

For the use of plastic glands, the housings of size 6 must have a compression gland.

revos



Cable gland nickel-plated brass, with hexagon port on the compression gland, pressure screw with strain relief and protection against bending, IP54 degree of protection

Metric thread	$\gt\text{Øk}$ in mm	gland mm	Thread length in mm	Part no.	Stand. pack
M 16 x 1.5	6.0 – 9.0	18	5	Z5.507.9521.0	10
M 20 x 1.5	9.0 – 13.5	22	6	Z5.507.9621.0	10
M 25 x 1.5	14.0 – 20.0	30	7	Z5.507.9721.0	10
M 32 x 1.5	19.0 – 29.0	39	8	Z5.507.9821.0	10



EMC cable gland nickel-plated brass, for shielded cables, with internal strain relief, consistently insulated by a gasket on the connection thread, IP 68 degree of protection

Metric thread	$\gt\text{Øk}$ in mm	mm	Thread length in mm	Part no.	Stand. pack
M 20 x 1.5	8.0 – 13.0	22	6	Z5.507.4821.0	10
M 25 x 1.5	11.0 – 18.0	30	7	Z5.507.5021.0	10
M 32 x 1.5	15.0 – 21.0	34	8	Z5.507.5221.0	10



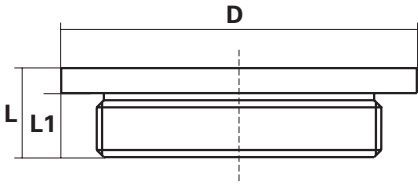
Cable gland nickel-plated brass, with hexagon port on the compression gland, pressure screw with centric strain relief and protection against bending, with universal gasket

Metric thread	$\gt\text{Øk}$ in mm	mm	Thread length in mm	Part no.	Stand. pack
M 20 x 1.5	8.5 – 14.0	24	6	Z5.507.5821.0	10
M 25 x 1.5	12.0 – 20.0	34	7	Z5.507.6021.0	10
M 32 x 1.5	18.0 – 28.0	42	8	Z5.507.6221.0	10
M 40 x 1.5	24.0 – 34.0	52	8	Z5.507.6421.0	10

Hoods and housings with a cable gland from brass and IP 68 degree of protection can be preassembled upon request and for minimum order quantities of 50 pieces.

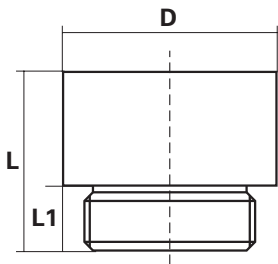
Accessories for multipole connectors and multipole adapters

revos



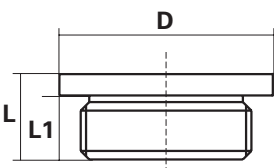
Reduction piece, nickel-plated brass

External thread	Internal thread	D	L1	L	Part no.	Stand. pack
M 20 x 1.5	M 16 x 1.5	22	6	9	05.507.9021.0	10
M 25 x 1.5	M 20 x 1.5	27	7	10	05.507.9121.0	10
M 32 x 1.5	M 25 x 1.5	34	8	11	05.507.9221.0	10
M 40 x 1.5	M 32 x 1.5	43	8	11.5	05.507.9321.0	10



Extension piece, nickel-plated brass

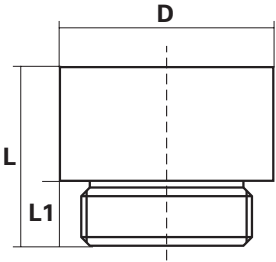
External thread	Internal thread	D	L1	L	Part no.	Stand. pack
M 16 x 1.5	M 20 x 1.5	22	5	17,5	05.507.8621.0	10
M 20 x 1.5	M 25 x 1.5	27	6	20	05.507.8721.0	10
M 25 x 1.5	M 32 x 1.5	34	7	22,5	05.507.8821.0	10
M 32 x 1.5	M 40 x 1.5	42	8	24,5	05.507.8921.0	10



Adapter for PG-metric conversion, nickel-plated brass

External thread	Internal thread	D	L1	L	Part no.	Stand. pack
Pg 13.5	M 20 x 1.5	26	6.5	19	05.507.7621.0	10
Pg 16	M 20 x 1.5	24	6.5	9.5	05.507.7721.0	10
Pg 21	M 25 x 1.5	30	7	10	05.507.7821.0	10

revos

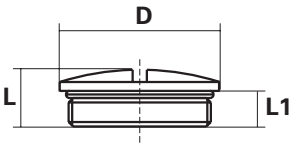


Adapter for metric-PG conversion, nickel-plated brass

External thread	Internal thread	D	L1	L	Part no.	Stand. pack
M 20 x 1.5	Pg 13.5	22	6	18.5	05.507.8121.0	10
M 20 x 1.5	Pg 16	24	6	19.5	05.507.8221.0	10
M 25 x 1.5	Pg 21	30	7	22	05.507.8321.0	10
M 32 x 1.5	Pg 29	39	8	24.5	05.507.8421.0	10

Adapter metric – NPT: Electroless nickel-plated aluminium

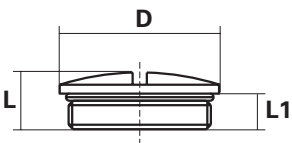
M 20 x 1.5 – 1/2" NPT	24	7	25	M20N02MA	10
M 20 x 1.5 – 3/4" NPT	30	7	25	M20N04MA	10
M 25 x 1.5 – 1/2" NPT	27	7	21	M25N02MA	10
M 25 x 1.5 – 3/4" NPT	30	7	25	M25N04MA	10
M 25 x 1.5 – 1" NPT	36	7	26.5	M25N06MA	10
M 32 x 1.5 – 1" NPT	36	7	26.5	M32N06MA	10



Blind piece,

metric, nickel-plated brass, with gasket from Perbunan

Metric thread	D	L1	L	Part no.	Stand. pack
M 20 x 1.5	22	6.5	9.5	05.507.4021.0	10
M 25 x 1.5	28	7	11	05.507.4121.0	10
M 32 x 1.5	35	8	12	05.507.4221.0	10
M 40 x 1.5	44	8.5	13	05.507.4321.0	10



Blind piece,




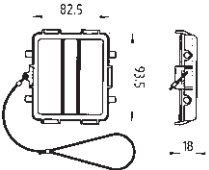

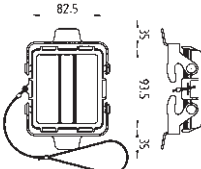


metric, fiberglass reinforced Polyamide, gray

Metric thread	D	L1	L	Part no.	Stand. pack
M 20 x 1.5	24	6	9	05.507.4053.0	10
M 25 x 1.5	30	7	10.5	05.507.4153.0	10
M 32 x 1.5	38	8	12	05.507.4253.0	10
M 40 x 1.5	48	9	13	05.507.4353.0	10






Accessories for multipole connectors and multipole adapters

Protective covers

revos

	for the housings	73.3xx.xxxx.x	70.3xx.xxxx.x	72.3xx.xxxx.x	Part no.	Stand. pack
			6pole	6pole	07.409.7056.0	10
			10pole	10pole	07.409.7156.0	10
		40pole	16pole	16pole	07.409.7256.0	10
		64pole	24pole	24pole	07.409.7356.0	10
Protective Polyamide covers for hoods and housings with locking levers						
with tether cord		40pole	16pole	16pole	Z7.409.8856.0	10
		64pole	24pole	24pole	Z7.409.8956.0	
with tether cord and loop		40pole	10pole	10pole	Z7.416.1656.0	10
		64pole	16pole	16pole	Z7.416.1756.0	10
			24pole	24pole	Z7.416.1856.0	10
			6pole	6pole	Z7.409.7056.0	10
			10pole	10pole	Z7.409.7156.0	10
		40pole	16pole	16pole	Z7.409.7256.0	10
		64pole	24pole	24pole	Z7.409.7356.0	10
Protective cover from Polyamide with catch spring from spring steel, galvanically tin-plated for hoods and housings without locking lever						
 				32pole	Z7.419.6228.0	10
	Protective cover for 32pole housing					
 				32pole	Z7.419.6128.0	10
	Protective cover for 32pole housing with locking lever					
				Plastic	07.417.6853.0	
	Cover with lockingbolts for housings and hoods with locking levers for revos MINI with gaskets for female inserts					
				Plastic	07.417.6753.0	
	Cover with lockingbolts for housings and hoods with locking levers for revos MINI without gaskets for female inserts					
				Metal	07.417.6829.0	
				Metal	07.417.6729.0	

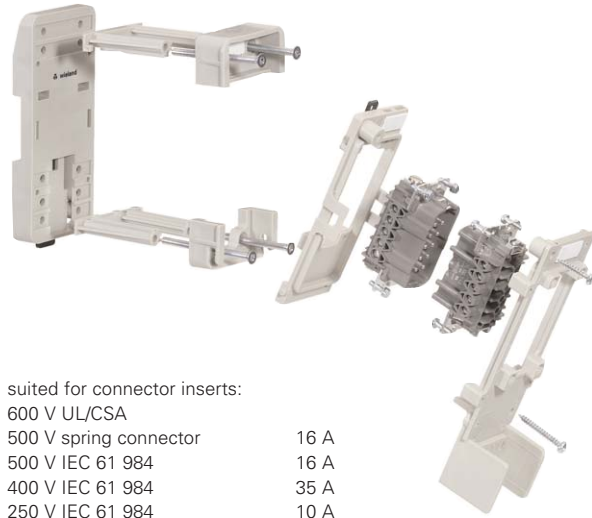
revos

	Number of poles	Part no.	Stand. pack
 <p>Insulated jumper bar for multipole adapters of series xx.xxx.xxxx.3 and xx.xxx.xxxx.4</p>	2pole	Z7.256.0227.0	10
	3pole	Z7.256.0327.0	10
	4pole	Z7.256.0427.0	10
	5pole	Z7.256.0527.0	10
	6pole	Z7.256.0627.0	10
	7pole	Z7.256.0727.0	10
	8pole	Z7.256.0827.0	10
	9pole	Z7.256.0927.0	10
	10pole	Z7.256.1027.0	10
	11pole	Z7.256.1127.0	10
	12pole	Z7.256.1227.0	10
	 <p>Insulated jumper bar for high-density multipole adapters</p>	2pole	Z7.258.1225.0	10
3pole		Z7.258.1325.0	10
4pole		Z7.258.1425.0	10
5pole		Z7.258.1525.0	10
6pole		Z7.258.1625.0	10
7pole		Z7.258.1725.0	10
8pole		Z7.258.1825.0	10
9pole		Z7.258.1925.0	10
10pole		Z7.258.2025.0	10
 <p>Marking tag carrier for housings with 6 digits (without marking tags)</p>			04.242.4453.0	250
 <p>Marking tag carrier complete with carrier (without marking tags)</p>	40pole	Z4.242.3753.0	10
	64pole	Z4.242.4053.0	10
 <p>Marking tag carrier for hoods (without marking tags) to be driven in with a rubber mallet into the space on top of the hood</p>		04.242.3853.0	10

Accessories







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Mounting frames for connector inserts

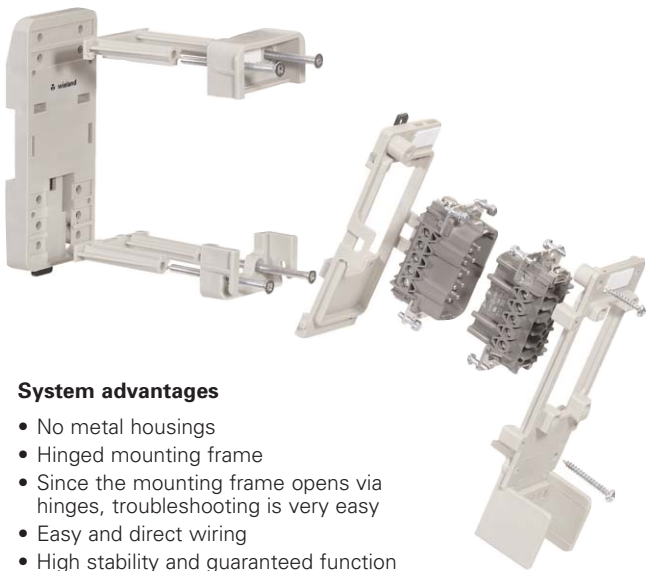


suited for connector inserts:

600 V UL/CSA	
500 V spring connector	16 A
500 V IEC 61 984	16 A
400 V IEC 61 984	35 A
250 V IEC 61 984	10 A

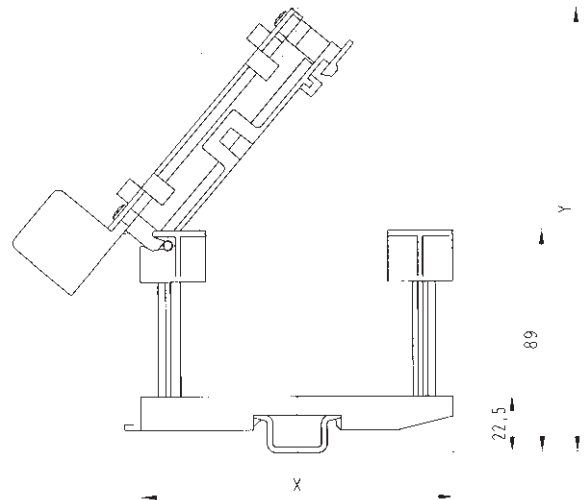
		Length	Part no.	Stand. pack
	Size 6 Mounting frame with strain relief	125	Z5.574.0653.0	1
	Size 10 Mounting frame with strain relief	125	Z5.574.1053.0	1
	Size 16 Mounting frame with strain relief	125	Z5.574.1653.0	1
	Size 24 Mounting frame with strain relief	150	Z5.574.2453.0	1
	Size 2 x 6 Mounting frame with strain relief	150	Z5.574.1253.0	1
	Sizes 6/10/16 Size 24 Mounting frame with base plate and fixing bolts for open-bottom housings	125	Z5.574.0053.0 Z5.574.0153.0	1 1

revos

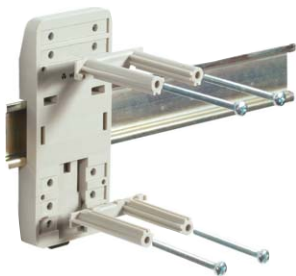


System advantages

- No metal housings
- Hinged mounting frame
- Since the mounting frame opens via hinges, troubleshooting is very easy
- Easy and direct wiring
- High stability and guaranteed function
- Degree of protection provided by the control cabinet
- Rewiring without disconnecting



- Mounts to rail 35 x 15
- Swivels by 80° when connected
- Swivels by 120° when disconnected




Mounting frame with base plate and fixing bolts for open housings

Accessories for multipole connectors and multipole adapters

Cover plates and reduction plates



	Housing size	Number of poles	Part no.	Stand. pack
Cover plates	6		07.416.6853.0	10
	10		07.416.6953.0	10
	16		07.416.7053.0	10
	24		07.416.7153.0	10



Cover plates to close prefabricated cut-outs in bulkhead walls of control cabinets

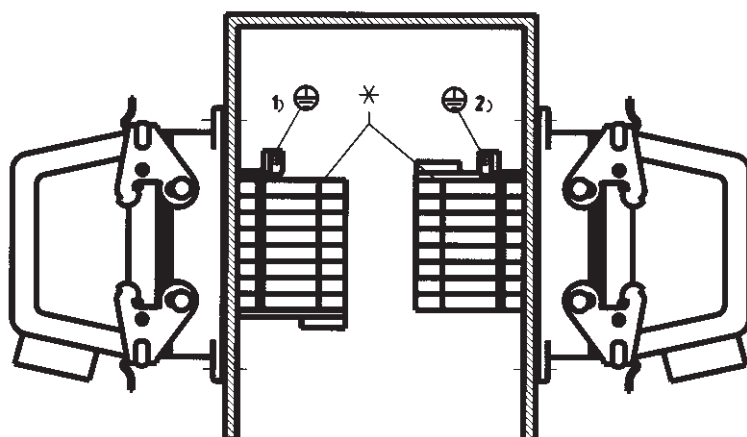
Material: Polyamide, fiberglass reinforced
 Color: RAL 7032
 Degr. of prot.: IP 65

Reduction plates	24/ 6		07.416.6353.0	10
	24/10		07.416.6453.0	10
	24/16		07.416.6553.0	10



Reduction plates to reduce prefabricated cut-outs of size 24 in bulkhead walls of control cabinets

Material: Polyamide, fiberglass reinforced
 Color: RAL 7032
 Degree of prot.: IP 65



- * Start of the markings 1 through
- 1 Multipole adapter in the version: ground connection left
- 2 Multipole adapter in the version: ground connection right

revos

The coding pins of version A can be used for:

- Screw inserts with part no.:
 70.2XX.XXXX.X
 70.3XX.XXXX.X
 70.4XX.XXXX.X
 72.2XX.XXXX.X
 72.3XX.XXXX.X

- Crimping inserts with part no.:
 70.7XX.XXXX.X
 72.7XX.XXXX.X
 73.7XX.XXXX.X

- Spring clamp inserts with part no.:
 70.5XX.XXXX.X

- Multipole adapters (mounting to the front) with part no.:
 70.0XX.XXXX.X
 70.1XX.XXXX.X
 72.0XX.XXXX.X
 72.1XX.XXXX.X
 73.9XX.XXXX.X

Codings are possible even for combinations of screw and crimping inserts, and multipole adapters.

The coding pins of version B can be used for:

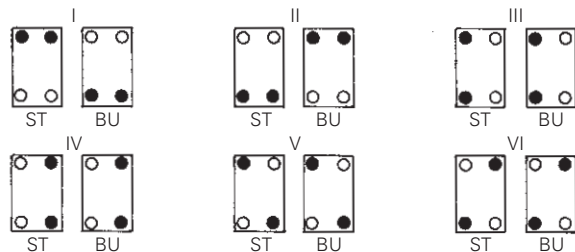
- Combinations of screw, crimping and spring clamp inserts, and multipole adapters, combined with multipole adapters (mounting to the rear of the housings) with part no.:
 70.9XX.XXXX.X
 72.9XX.XXXX.X
 73.1XX.XXXX.X

1) Six coding options with coding pins

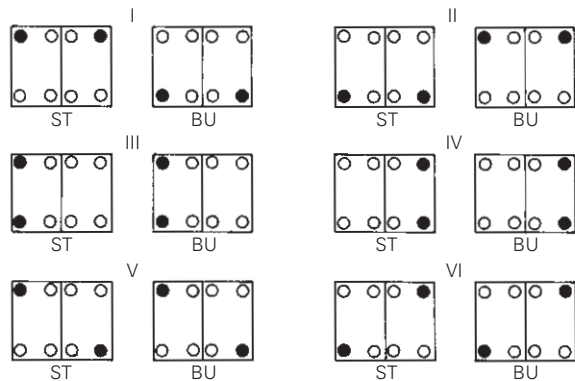
Coding pins

Order no. for version A: 05.592.0621.0 100
 05.513.4212.0 100

The use of coding pins enables six combinations for 3pole, 6pole, 10pole, 16pole and 24pole multipole connectors



and six combinations for 20, 26, 32 and 48pole multipole connectors






● Coding pins
 ○ Fixing screws

ST = male connector part
 BU = female connector part




revos

2) 72) Coding options with coding pins

Part no. for version **A:**

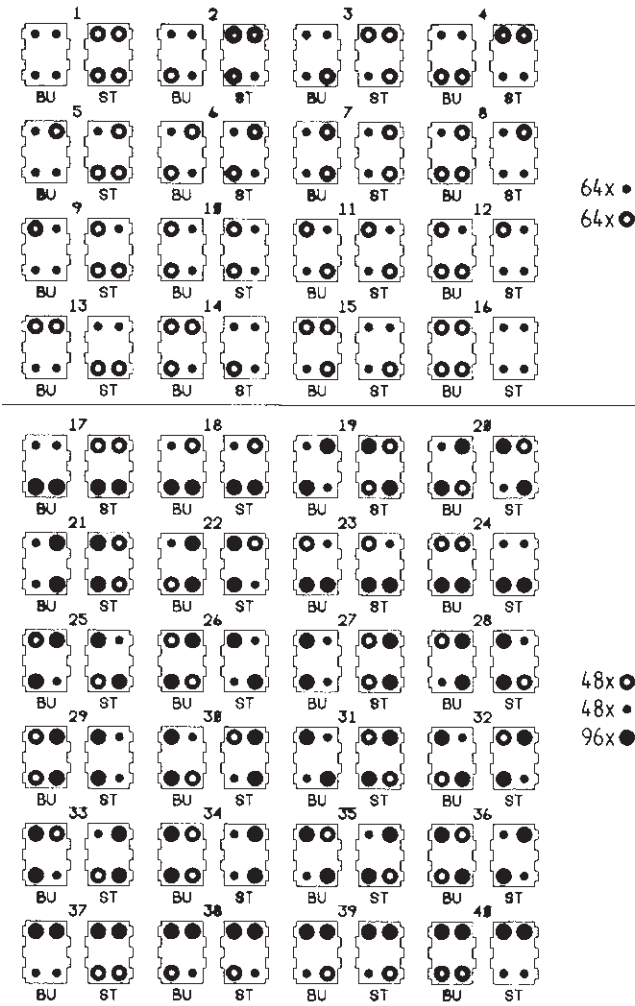
-  ● Coding bolts 05.576.6912.0*
-  • Coding pin 05.576.6612.0*
-  ○ Female coding piece 05.576.6712.0*

Part no. for version **B:**

-  ● Coding bolts 05.576.8512.0
-  • Coding pin 05.576.8312.0
-  ○ Female coding piece 05.576.8412.0

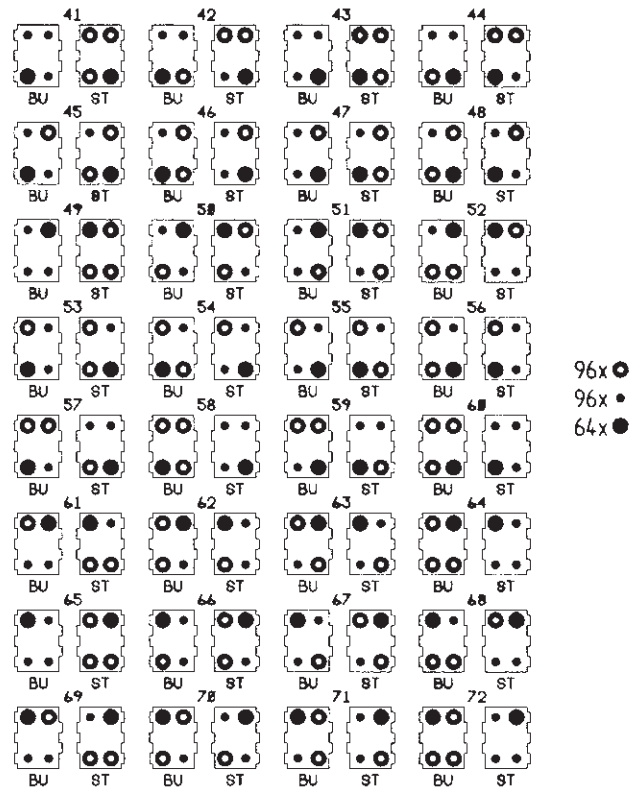
*) for 15pole or 25pole connectors of series 73.7... we provide only 16 different codings, as the coding bolts cannot be used.

Coding



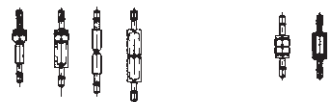
64x ●
64x ○

48x ●
48x •
96x ○



96x ●
96x •
64x ○

not pluggable pluggable



Accessories for multipole connectors and multipole adapters

Coding options with coding pieces

revos

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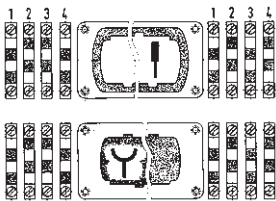
Part no. Stand. pack

Coding with coding pieces for:

- Screw inserts with part no.: 70.3xx.xxxx.x und 70.4xx.xxxx.x
- Crimping inserts with part no.: 70.7xx.xxxx.x
- Multipole adapters (mounting to the front) with part no.: 70.1xx.xxxx.x

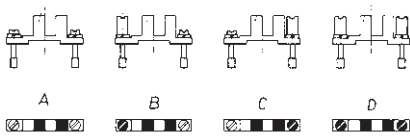
Codings are possible even for combinations of screw and crimping inserts, and multipole adapters.

1. Diagram for 4 codings with coding pieces



2. Diagram for 24 codings with coding pieces

25 593 3653 25 593 3753 25 593 3853 25 593 3953



Material Coding pieces from Polyamide
 Fixing screws Steel, galvanically zinc-plated and dichromated



Z5.592.1252.0 50

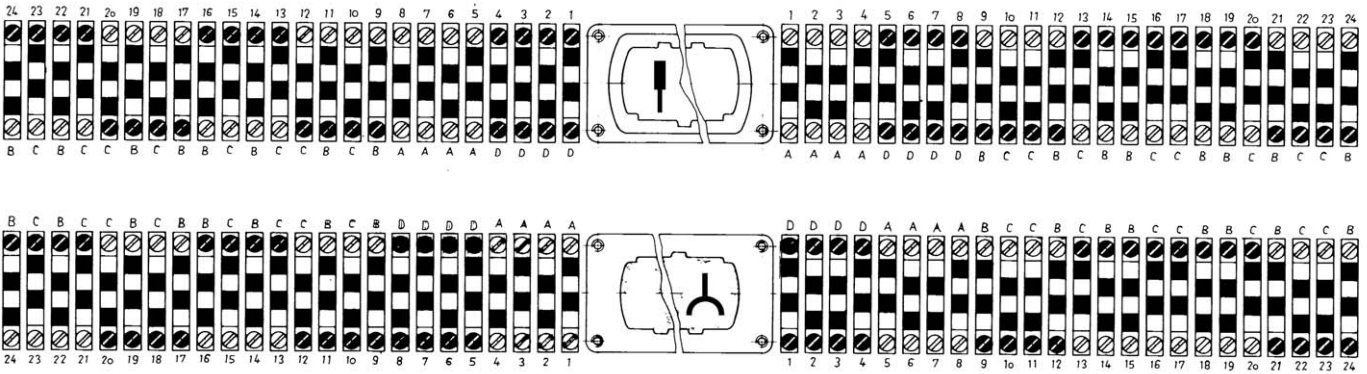
When the coding pieces are attached to the connectors in a special order, you will get four different combinations, and only the matching inserts or multipole adapters can be connected.

Z5.593.4053.0 1

Coding pieces and special coding pins for 24 different codings

revos

Coding pieces and special coding pins for 24 different codings



Accessories for multipole adapters

Marking accessories

revos

Material:
Polyamide 66/6
Color: black figures on white background



45° marking tag carrier



**Marking tag
3 digits**

Single tag



**Marking strip
6pole through 24pole**

Type	Part no.	Stand. pack	Type	Part no.	Stand. pack	Type	Part no.	Stand. pack
2 x 4digit			unmarked			6pole, marked 2 x 1 through 6		
9705 A/4 W	04.242.2853.0	200	9705 A	04.242.0850.0	500	9705 A/6,7/2x6 B1-6	99.002.0920.8	25
			marked*			10pole, marked 1 through 10		
			9705 AB	04.842.0850.0	500	9705 A/6,7/2x12 B1-10	99.003.0920.8	25
			* Please indicate the required marking together with the part number!			16pole, marked 1 through 8 and 9 through 16		
			Standard pack = 500 tags			9705 A/6,7/2x12 B1-16	99.004.0920.8	25
						24pole, marked 1 through 12 and 13 through 24		
						9705 A/6,7/2x12 B1-24	99.005.0920.8	25
						12 digits, unmarked		
						9705 A/6,7/12	04.242.6753.0	25
						12 digits, marked		
						9705 A/6,7/12 B	04.842.6753.0	25
						12 digits, marked 1 - 9		
						9705 A/6,7/12 B 1-9	99.000.0920.8	25
						unmarked		
						9705 A/5/10	04.242.5053.0	25
						marked		
						9705 A/5/10 B	04.842.5053.0	25
						unmarked		
						9705 AL/5/10	04.242.5153.0	25
						marked		
						9705 AL/5/10	04.842.5153.0	25
						* Please indicate the required marking * together with the part number!		
						Standard pack = 500 tags		



90° marking tag carrier



**Marking tag
8 digits**

Single tag

6 digits 04.242.3053.0 200
mounted in line for:
6pole multip. adapter 04.242.3353.0 50
10pole multip. adapter 04.242.3453.0 50
16pole multip. adapter 04.242.3553.0 25
24pole multip. adapter 04.242.3653.0 25

Accessories for multipole connectors and multipole adapters

Tear-off marking strips / marking tags



Material: Polyamide 66/6 white, marking in black	Marking per strip	Type	Part no.	Stand. pack
unmarked		9704 A	04.241.1150.0	25
marked with the same number	1 1 1 1 1 1 1 1 1 1	9704 A/1 B	04.841.1150.0	25
	2 2 2 2 2 2 2 2 2 2	9704 A/2 B	04.841.1250.0	25
	3 3 3 3 3 3 3 3 3 3	9704 A/3 B	04.841.1350.0	25
	4 4 4 4 4 4 4 4 4 4	9704 A/4 B	04.841.1450.0	25
	5 5 5 5 5 5 5 5 5 5	9704 A/5 B	04.841.1550.0	25
	6 6 6 6 6 6 6 6 6 6	9704 A/6 B	04.841.1650.0	25
	7 7 7 7 7 7 7 7 7 7	9704 A/7 B	04.841.1750.0	25
	8 8 8 8 8 8 8 8 8 8	9704 A/8 B	04.841.1850.0	25
	9 9 9 9 9 9 9 9 9 9	9704 A/9 B	04.841.1950.0	25
	0 0 0 0 0 0 0 0 0 0	9704 A/0 B	04.841.2050.0	25
	marked with consecutive numbers	1 2 3 4 5 6 7 8 9 0	9704 A/1-0 B	04.841.2150.0	25
marked with the same capital letters	A A A A A A A A A A	9704 A/AG B	04.841.2250.0	25
	B B B B B B B B B B	9704 A/BG B	04.841.2350.0	25
	C C C C C C C C C C	9704 A/CG B	04.841.2450.0	25
	D D D D D D D D D D	9704 A/DG B	04.841.2550.0	25
	E E E E E E E E E E	9704 A/EG B	04.841.2650.0	25
	F F F F F F F F F F	9704 A/FG B	04.841.2750.0	25
	G G G G G G G G G G	9704 A/GG B	04.841.2850.0	25
	H H H H H H H H H H	9704 A/HG B	04.841.2950.0	25
	I I I I I I I I I I	9704 A/IG B	04.841.3050.0	25
	J J J J J J J J J J	9704 A/JG B	04.841.3150.0	25
	K K K K K K K K K K	9704 A/KG B	04.841.3250.0	25
	L L L L L L L L L L	9704 A/LG B	04.841.3350.0	25
	M M M M M M M M M M	9704 A/MG B	04.841.3450.0	25
	N N N N N N N N N N	9704 A/NG B	04.841.3550.0	25
	O O O O O O O O O O	9704 A/OG B	04.841.3650.0	25
	P P P P P P P P P P	9704 A/PG B	04.841.3750.0	25
	Q Q Q Q Q Q Q Q Q Q	9704 A/QG B	04.841.3850.0	25
	R R R R R R R R R R	9704 A/RG B	04.841.3950.0	25
	S S S S S S S S S S	9704 A/SG B	04.841.4050.0	25
	T T T T T T T T T T	9704 A/TG B	04.841.4150.0	25
	U U U U U U U U U U	9704 A/UG B	04.841.4250.0	25
	V V V V V V V V V V	9704 A/VG B	04.841.4350.0	25
	W W W W W W W W W W	9704 A/WG B	04.841.4450.0	25
	X X X X X X X X X X	9704 A/XG B	04.841.4550.0	25
	Y Y Y Y Y Y Y Y Y Y	9704 A/YG B	04.841.4650.0	25
	Z Z Z Z Z Z Z Z Z Z	9704 A/ZG B	04.841.4750.0	25
marked with the same small letters	a a a a a a a a a a	9704 A/AK B	04.841.4850.0	25
	b b b b b b b b b b	9704 A/BK B	04.841.4950.0	25
	c c c c c c c c c c	9704 A/CK B	04.841.5050.0	25
	d d d d d d d d d d	9704 A/DK B	04.841.5150.0	25
	e e e e e e e e e e	9704 A/EK B	04.841.5250.0	25
	f f f f f f f f f f	9704 A/FK B	04.841.5350.0	25
	g g g g g g g g g g	9704 A/GK B	04.841.5450.0	25
	h h h h h h h h h h	9704 A/HK B	04.841.5550.0	25
	i i i i i i i i i i	9704 A/IK B	04.841.5650.0	25
	j j j j j j j j j j	9704 A/JK B	04.841.5750.0	25
	k k k k k k k k k k	9704 A/KK B	04.841.5850.0	25
	l l l l l l l l l l	9704 A/LK B	04.841.5950.0	25
	m m m m m m m m m m	9704 A/MK B	04.841.6050.0	25
	n n n n n n n n n n	9704 A/NK B	04.841.6150.0	25
	o o o o o o o o o o	9704 A/OK B	04.841.6250.0	25
	p p p p p p p p p p	9704 A/PK B	04.841.6350.0	25
	q q q q q q q q q q	9704 A/QK B	04.841.6450.0	25
	r r r r r r r r r r	9704 A/RK B	04.841.6550.0	25
	s s s s s s s s s s	9704 A/SK B	04.841.6650.0	25
	t t t t t t t t t t	9704 A/TK B	04.841.6750.0	25
	u u u u u u u u u u	9704 A/UK B	04.841.6850.0	25
	v v v v v v v v v v	9704 A/VK B	04.841.6950.0	25
	w w w w w w w w w w	9704 A/WK B	04.841.7050.0	25
	x x x x x x x x x x	9704 A/XK B	04.841.7150.0	25
	y y y y y y y y y y	9704 A/YK B	04.841.7250.0	25
	z z z z z z z z z z	9704 A/ZK B	04.841.7350.0	25
marked with the same symbols	+ + + + + + + + + +	9704 A/+ B	04.841.7450.0	25
	- - - - - - - - - -	9704 A/- B	04.841.7550.0	25
	/ / / / / / / / / /	9704 A// B	04.841.7650.0	25
	. . . . . . . . . .	9704 A/. B	04.841.7750.0	25
1 set of the same numbers = 10 x 25 strips = 2500 numbers	1 1 1 ... 0 0 0	111 bis 000	04.841.9050.0	1
1 set of cap. letters = 26 x 25 strips = 6500 letters	A A A ... Z Z Z	A bis Z GB	04.841.9150.0	1
1 set of small letters = 26 x 25 strips = 6500 letters	a a a ... z z z	a bis z KB	04.841.9250.0	1

Tools

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Technical explanations on:

Ferrules

Tools

Standards and certifications

facts structured in three main sections for:

- important accessories
- technical documentation and basic information in tables
- important standards and certifications

All Wieland Components which require **CE** general certification are **CE** certified, and identified with the **CE** logo.



Technical Explanations
Tools
Approvals

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Preparation of conductor ends

**Electric Automated
crimping machine**

Technical explanations

Approvals

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	<ul style="list-style-type: none"> • Ferrules according to DIN 46 228 p1 through p4 Page 796 • Ferrules Page 797 • Tools Page 798 <ul style="list-style-type: none"> – Crimp contact kit Page 798 – Crimping dies and contact positioners Page 798 – Crimping tools for ferrules Page 798 – Stripping tool, screwdrivers Page 799
	<ul style="list-style-type: none"> • Crimping machine Page 800 • Disposable magazines with female and male contacts for industrial multipole connectors Page 801
	<ul style="list-style-type: none"> • Types of mounting rails Page 802 • Tables, technical information, explanations Page 804 • DIN rail terminal blocks for increased safety (Ex terminal blocks) Page 824
	<ul style="list-style-type: none"> • Approvals Page 834

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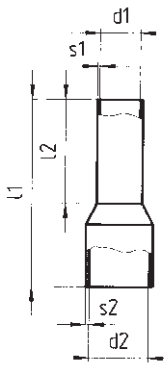
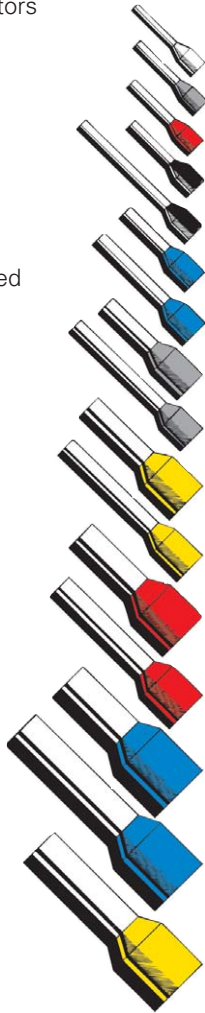
Ferrules with insulating sleeves
for 0.5 to 25 mm² conductors

Materials:

Sleeve:
– Polypropylene,
temperature resistant
up to 105 °C,
tracking resistant

Tube:

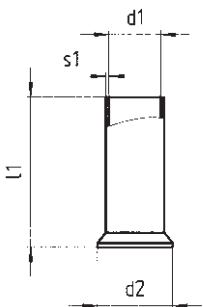
E-Cu, galvanically tin-plated



Cross section mm ² /AWG	Color	Part no.	Std. pack	s ₂	d ₂	l ₁	l ₂	d ₁	s ₁
accord. to DIN 46 228 T4									
0.50/20	norm.	white	06.600.2027.0	100	0.25	2.6	14	8	1.0 0.15
0.75/18	norm.	gray	06.600.2127.0	100	0.25	2.8	14	8	1.2 0.15
1.00/18	norm.	red	06.600.2227.0	100	0.25	3.0	14	8	1.4 0.15
1.50/16	norm.	black	06.600.2327.0	100	0.25	3.5	14	8	1.7 0.15
1.50/16	long	black	06.600.2427.0	100	0.25	3.5	24	18	1.7 0.15
2.50/14	norm.	blue	06.600.2527.0	100	0.25	4.2	14	8	2.2 0.15
2.50/14	long	blue	06.600.2627.0	100	0.25	4.2	24	18	2.2 0.15
4.00/12	norm.	gray	06.600.2727.0	100	0.30	4.8	17	10	2.8 0.20
4.00/12	long	gray	06.600.2827.0	100	0.30	4.8	26	18	2.8 0.20
6.00/10	norm.	yellow	06.600.2927.0	100	0.30	6.3	20	12	3.5 0.20
6.00/10	long	yellow	06.600.3027.0	100	0.30	6.3	26	18	3.5 0.20
10.00/8	norm.	red	06.600.3127.0	100	0.40	7.6	22	12	4.5 0.20
10.00/8	long	red	06.600.3227.0	100	0.40	7.6	28	18	4.5 0.20
16.00/6	norm.	blue	06.600.3327.0	100	0.40	8.8	24	12	5.8 0.20
16.00/6	long	blue	06.600.3427.0	100	0.40	8.8	28	18	5.8 0.20
25.00/4	half long	yellow	06.600.3527.0	50	0.40	11.2	30	18	7.3 0.20

Ferrules without insulating sleeves
for 0.5 to 16 mm² conductors

Material: E-Cu, galvanically tin-plated



accord. to DIN 46 228 T1

0.50/20	norm.		06.600.4027.0	1000		2.1	6	1.0 0.15	
0.75/18	norm.		06.600.4127.0	1000		2.3	6	1.2 0.15	
1.00/18	norm.		06.600.4227.0	1000		2.5	6	1.4 0.15	
1.50/16	norm.		06.600.4327.0	1000		2.8	7	1.7 0.15	
2.50/14	norm.		06.600.4427.0	1000		3.4	7	2.2 0.15	
4.00/12	norm.		06.600.4527.0	1000		4.0	9	2.8 0.20	
6.00/10	norm.		06.600.4627.0	500		4.7	10	3.5 0.20	
10.00/8	norm.		06.600.4727.0	500		5.8	12	4.5 0.20	
16.00/6	norm.		06.600.4827.0	100		7.5	12	5.8 0.20	
25.00/4	norm.		06.600.4927.0	100		9.5	15	7.3 0.20	
35.00/2	norm.		06.600.5027.0	100		11.0	18	8.3 0.20	

facts

Ferrules with insulating sleeves

for 0.36 to 25 mm² conductors

Materials:

Sleeve:

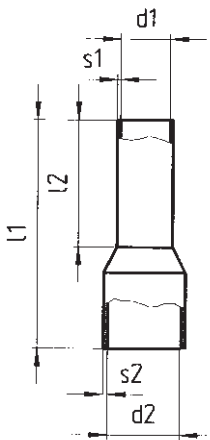
- Rilsan, temperature resistant up to 130 °C, tracking resistant

Tube:

E-Cu, galvanically tin-plated

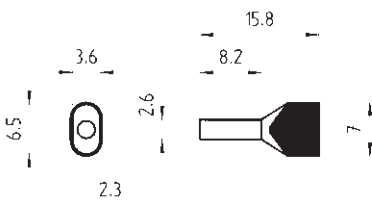


Cross section mm ² /AWG	Color	Part no.	Std. pack	s ₂	d ₂	l ₁	l ₂	d ₁	s ₁
2.08/16	yellow	05.596.6127.0	1000	0.25	3.7	14.5	8.2	2.0	0.175



Twin ferrules with insulating sleeves

Cross section mm ² /AWG	Type	Part no.	Std. pack
2 x 1.5/16	AEI 1,5 Z-N	05.599.2027.0	500



facts & DATA



Modular kit for Crimp contacts

For contact crimping we provide crimping tools in a modular system:
This crimping tool system consists of the basic crimping tool and case. Additionally, you can select the crimping dies and contact positioners for your required contact type. The crimping dies and the contact positioner are easily inserted in the tool and exchanged. You will require only one crimping tool for several contact types as you can use it with the corresponding crimping dies and contact positioners.



Crimping tool

for ferrules
0.08 – 6 mm²

AWG 28 – 10

Crimping tool

for ferrules
0.75 – 10 mm²

AWG 19 – 7

Cross section mm ² /AWG	Part no.	Std. pack	Part no.	Std. pack	Part no.	Std. pack
203 mm	95.101.0800.0	1				
<ul style="list-style-type: none"> parallel crimping releasable latch toggle ratio 			total length: 174 mm	95.101.0900.0 1	total length: 174 mm	95.101.1000.0 1
Crimp contacts, turned, Ø3.6 for revos 4 – 10 mm ² /12 – 8 AWG			<ul style="list-style-type: none"> square crimping releasable latch compression adjustable 		<ul style="list-style-type: none"> square crimping releasable latch compression adjustable 	
Crimping die D	05.502.2300.0	1				
Contact positioner 1	05.502.3100.0	1				
Crimp contacts, punched, Ø2.5 for revos 0.5 – 2.5 mm ² /20 – 14 AWG						
Crimping die C	05.502.2200.0	1				
Contact positioner 2	05.502.3200.0	1				
Crimp contacts, turned, Ø2.5 for revos 0.5 – 4 mm ² /20 – 12 AWG						
Crimping die B	05.502.2100.0	1				
Contact positioner 1	05.502.3100.0	1				
Crimp contacts, turned, Ø1.6 for revos 0.14 – 2.5 mm ² /26 – 14 AWG						
Crimping die B	05.502.2100.0	1				
Contact positioner 1	05.502.3100.0	1				
Crimp contacts, punched, Ø1 for revos 0.09 – 0.5 mm ² /28 – 20 AWG						
Crimping die A	05.502.2000.0	1				
No contact positioner required						
Crimp contacts, turned, for 400 V – 690 V series 0.5 – 4 mm ² /20 – 12 AWG						
Crimping die B	05.502.2100.0	1				
Contact positioner 3	05.502.3300.0	1				
Crimp contacts, punched, for multi-pole connectors 0.2 – 1.5 mm ² /24 – 16 AWG						
Crimping die E	05.502.2400.0	1				
Contact positioner 2	05.502.3200.0	1				



Crimping tool

for ferrules
10 – 25 mm²

AWG 7 – 4

Crimping tool

for ferrules
35 – 50 mm²

AWG 2 – 1/0

Stripping tool

0.08 – 10 mm²

AWG 28 – 7

Screwdriver

Part no.	Std. pack	Part no.	Std. pack	Part no.	Std. pack	Part no.	Std. pack
total length: 203 mm 95.101.1100.0	1	total length: 203 mm 95.101.1200.0	1	total length: 197 mm 95.350.0100.0	1	06.502.4000.0	1
<ul style="list-style-type: none"> • parallel crimping • releasable latch • toggle ratio • compression adjustable 		<ul style="list-style-type: none"> • parallel crimping • releasable latch • toggle ratio • compression adjustable 		<ul style="list-style-type: none"> • adjustable length • integrated wire cutter • tool elements made from glass fibre reinforced Polyamide 		<ul style="list-style-type: none"> • blade 0.6 x 3.5 accord. to DIN 5264 B • for WKF DIN rail spring clamp terminal blocks • for WKC DIN rail IDC terminal blocks • for multipole connectors with spring connection • ergonomically shaped handle 	

Automated crimping machine to connect wires to female and male contacts for multipole connectors

facts & DATA

Automatic stripping and crimping machine

This machine enables wire stripping and crimping in one operation.

A sensor registers when a cable is inserted manually. Then the wire is automatically stripped and then crimped – for the user, this means a time-saving operation.

The female and male parts can be fed in on reels (0.75 – 1.5 mm²) or by means of a reusable magazine (for 0.5 – 4 mm² connectors).

The following easily exchangeable tool inserts are available for multi-purpose use of the crimping machine:

- for ST 18 connectors
- for industrial multipole connectors

Dimensions: H 570 mm, W 410 mm, D 510 mm; weight: 85 kg

Power supply: 220 V ~

Part no. **95.000.0005.0**



	Description	for cross sect. in mm ² /AWG	Part no.	Std. pack
for connector versions 70.700 ... 58.0 70.710 ... 58.0 72.700 ... 58.0 72.710 ... 58.0	Disposable magazine with 25 female contacts	0.5 / 20	Z2.123.7000.0	25
		0.75 – 1 / 18	Z2.123.7100.0	25
		1.5 / 16	Z2.123.7200.0	25
		2.5 / 14	Z2.123.7300.0	25
		4* / 12	Z2.123.7400.0	25
	Disposable magazine with 25 male contacts	0.5 / 20	Z5.543.7000.0	25
		0.75 – 1 / 18	Z5.543.7100.0	25
		1.5 / 16	Z5.543.7200.0	25
		2.5 / 14	Z5.543.7300.0	25
		4* / 12	Z5.543.7400.0	25

* not possible with machine!

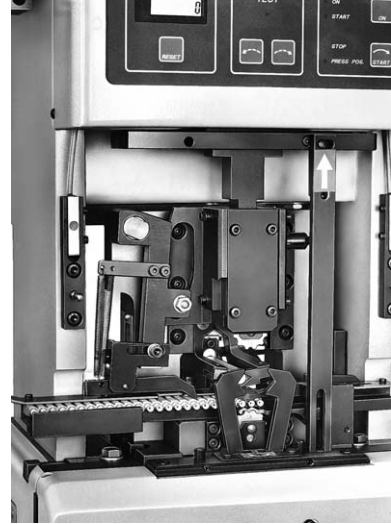


Disposable magazines with female and male contacts for industrial multipole connectors

facts

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Use of tool
when installed



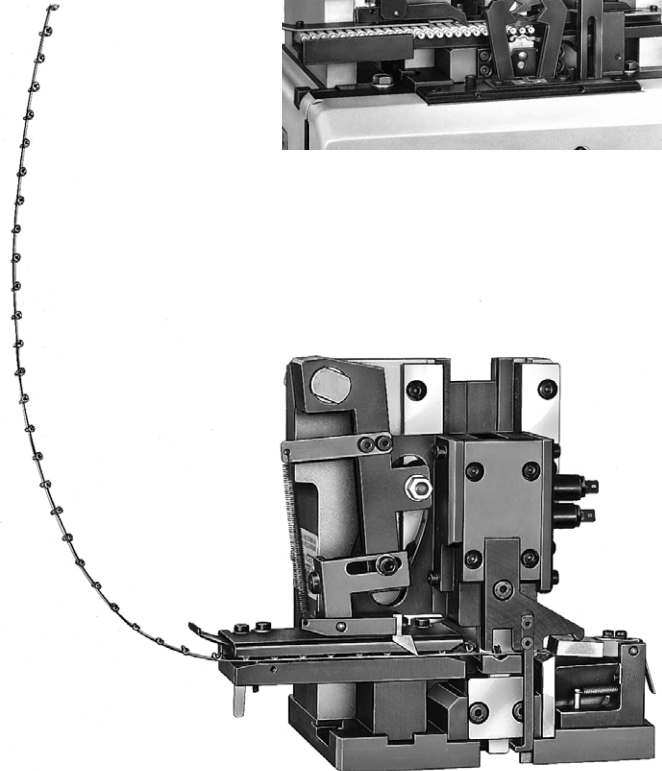
Use of tool with reels,
female and male contacts for:

multipole connectors

Part no. **95.000.0007.0**

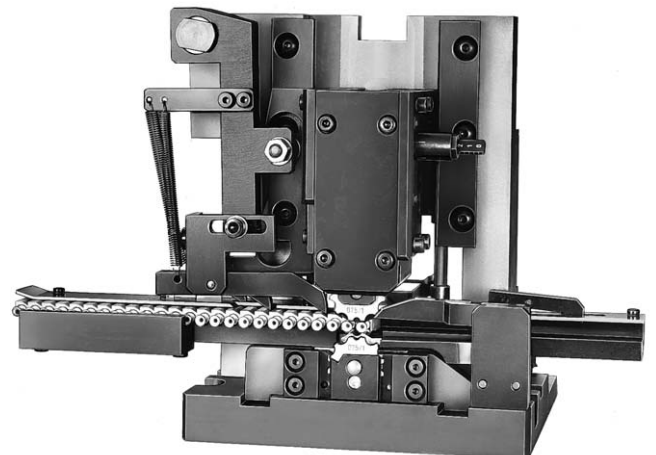
ST 18 connectors

Part no. **95.000.0008.0**

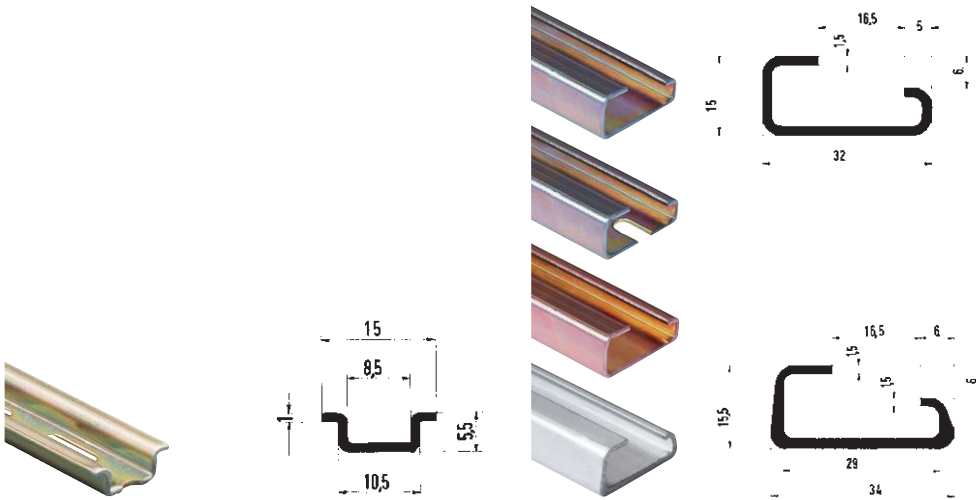


Use of tool for disposable magazines with
female and male contacts
for industrial multipole connectors

Part no. **95.000.0006.0**



facts & DATA



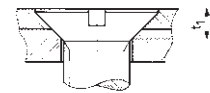
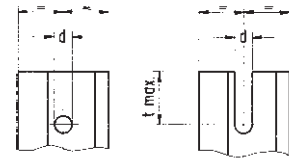
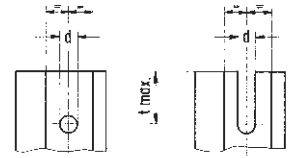
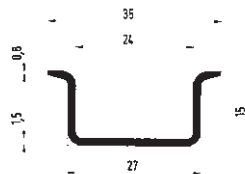
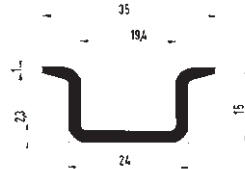
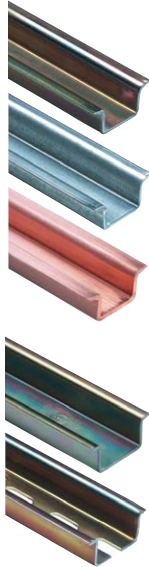
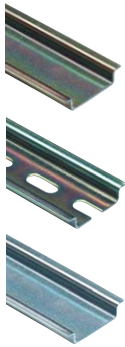
Mounting rail 15

accord. to DIN EN 60715

Mounting rail 32

accord. to DIN EN 60715

Type	Part no.	Std. pack	Type	Part no.	Std. pack
Length: 1 m	98.090.0000.0	galvan. zinc-plated steel	Length: 2 m		
Length: 2 m	98.090.0015.0	galvan. zinc-plated steel	9006 EN 60715 G-32	98.190.0000.0	galvan. zinc-plated steel
Length: 3 m	98.095.3000.0	galvan. zinc-plated steel	9006 CU EN 60715 G-32	98.220.0000.0	E-Cu
			slotted	98.190.1000.0	galvan. zinc-plated steel
			9006 AL 32	98.210.0000.0	AL
Mounting rail accord. to DIN EN 60715 - 15 x 5.5 yellow chromated steel, slotted Length: 1 m 9021 15 x 5,5 EN 60715 98.090.0000.0 1			Mounting rail accord. to DIN EN 60715 - G-32 yellow chromated steel, unslotted Length: 2 m 9006 EN 60715 G-32 98.190.0000.0 1		
Mounting rail same as above, but 2 m long 9021 98.090.0015.0 10			Mounting rail same as above, but slotted Length: 2 m 9006 slotted 98.190.1000.0 1		
			Mounting rail similar to DIN EN 60715 - G-32, made from aluminum, unslotted Length: 2 m 9006 AL 32 98.210.0000.0 1		
			Mounting rail similar to DIN EN 60715 - G-32, made from copper, unslotted Length: 2 m 9006 CU EN 60715 G-32 98.220.0000.0 10		



Mounting rail 35x7.5

accord. to DIN EN 60715

Mounting rail 35 x 15

accord. to DIN EN 60715

Mounting rails for OEM production

Type	Part no.	Std. pack	Type	Part no.	Std. pack
Length: 2 m			35 x 24 x 15 EN 60715	98.360.0000.0	galvan. zinc-plated steel
			35 x 24 x 15 EN 60715	98.380.0000.0	E-Cu
			similar to DIN EN 60715		
35 x 27 x 7,5 EN 60715	98.300.0000.0	galvan. zinc-plated steel	35 x 27 x 15	98.370.0000.0	galvan. zinc-plated steel
35 x 27 x 7,5 1 m	98.305.1000.0	galvan. zinc-plated steel	35 x 27 x 15 slotted	98.370.1000.0	galvan. zinc-plated steel
35 x 27 x 7,5 slotted	98.300.1000.0	galvan. zinc-plated steel	35 x 27 x 15 slotted 1 m	98.375.1000.0	galvan. zinc-plated steel
Mounting rail accord. to DIN EN 60715 - 35 x 7.5 yellow chromated steel, low version, unslotted Length: 2 m	98.300.0000.0	1	Mounting rail accord. to DIN EN 60715 - 35 x 15 yellow chromated steel, 2.3 mm thick high version, unslotted Length: 2 m	98.360.0000.0	1
Mounting rail same as above, but 1 m long	98.305.1000.0	1	Mounting rail similar to DIN EN 60715 - 35 x 15, yellow chromated steel, 1.5 mm thick high version, unslotted Length: 2 m	98.370.0000.0	1
Mounting rail same as above, but slotted Length: 2 m	98.300.1000.0	1	Mounting rail same as above, but slotted Length: 2 m	98.370.1000.0	1
			Mounting rail same as above, but 1 m long	98.375.1000.0	10
			Mounting rail DIN EN 60715 - 35 x 15 copper, 2.3 mm thick, high version, unslotted Length: 2 m	98.380.0000.0	10

Mounting rails are generally supplied in lengths of 2 m. For OEM production we can supply mounting rails in all desired lengths, already punched with fastening holes as shown in the following table.

Version	Size of the fastening screws					
	M 4		M 5		M 6	
	d	t max	d	t max	d	t max
1	4.5		5.5		6.6	
2	4.5	24	5.5	22	6.6	22
3	4.5		5.5		6.6	
4	4.5	24	5.5	22	6.6	22

Countersunk holes accord. to DIN 75 must be specially indicated. It should be observed that the measuring unit t_1 of countersunk screws M 4 and larger exceeds the material thickness of the mounting rail for the entire countersunk section. For this reason, the fastening base must provide a countersunk section also.

Information on transition from Pg to metric threads

facts & DATA

Pg threads are available upon request!

1. Basic legal conditions

The European standard EN 50 262 "Metric Cable Glands for Electrical Installation" was ratified on April 01, 1989 by CENELEC (European Committee for Electrotechnical Standardization) and put into force.

A corresponding German standard DIN EN 50 262 published in March 1999 will replace the national standards:
VDE security standard 0619 quoting standards DIN 46 319 and DIN 46 320, with a transition period until March 01, 2001.

EN 50 262 is valid in all EC countries and countries not belonging to the EC and cooperating in CENELEC will accept the standard.

The main difference in the new EN standard is its character as a security standard. As a building standard it only defines the metric thread and its lead.

2. Effects of the change

The changeover will affect all manufacturers of cable glands, cable entries and housings for rectangular connectors.

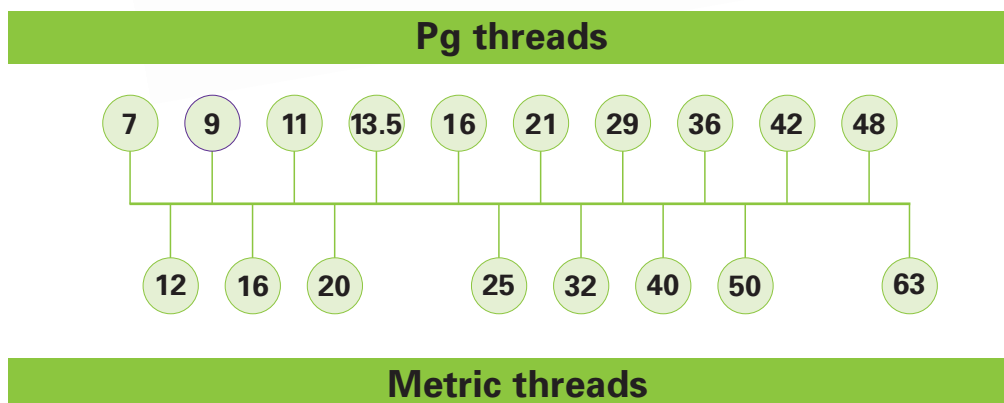
The ten Pg sizes :

Pg 7 / 9 / 11 / 13.5 / 16 / 21 / 29 / 36 / 42 and 48

are replaced by eight metric sizes :

M 12 / 16 / 20 / 25 / 32 / 40 / 50 and 63

3. Comparison of the Pg/metric cable gland sizes



4. Assigning the Pg/metric cable glands

As the ten Pg sizes are replaced by eight metric threads, users will need to reassign the connection ranges of the cables to the metric thread sizes and housings.

5. Conversion

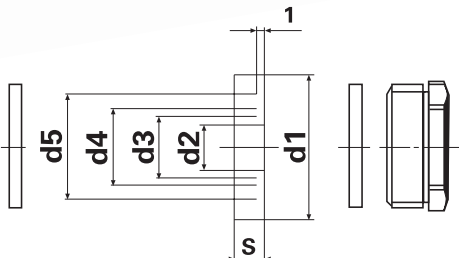
5.1 Comparison between Pg thread and metric thread

Pg thread	Metric thread	Preferred types
Pg 7	M 12	
Pg 9	M 16	
Pg 11	M 20	X
Pg 13.5	M 20	X
Pg 16	M 20	X
Pg 21	M 25	X
Pg 29	M 32	X
Pg 36	M 40	
Pg 42	M 50	

Hoods of the revos BASIC series with Pg thread 13.5 and 16 are also available with M 25, while PG thread 21 is also available with M 32 thread.

If you require the Pg 16 and 24 housings in M 32, you will have to use the extended height housings.

5.2 Connection range for housing versions 7x.xxx.xxxx.0



For more information visit us on the internet under www.wieland-electric.com

Please see the following table for the connection ranges of cable glands without strain relief:

Metric thread	d1	d2	Connection range in mm	d3	Connection range in mm	d4	Connection range in mm	d5	Connection range in mm
M 16	13.8	3	2 – 4.5	6	5 – 7.5	9	8 – 10.5		
M 20	17.6	4	3 – 5.5	7	6 – 8.5	10	9 – 11.5	13	12 – 14.5
M 25	22.6	8.5	7.5 – 10	11.5	10.5 – 13	14.5	13.5 – 16	17.5	16.5 – 19
M 32	29.6	16	15 – 17.5	19	18 – 20.5	22	21 – 23.5	25	24 – 26.5

5.3 Connection ranges for housing versions with flared gland 7x.xxx.xxxx.3

Metric thread	Connection range in mm
M 16	6 – 9
M 20	9 – 13.5
M 25	14 – 20
M 32	19 – 29

Information on hazardous location approval : Class I, Zone 2 Multipole Kits are available certified to CSA standard C22.2 182.3, E-79-15-95.

Please contact us to discuss your applications.

Maximum short-time current capability assigned to mounting rails

DIN EN 60 947-7-2/VDE 0611 part 3: 1996-06

Rail profile	Material	Equivalent E-Cu cross section mm ²	Short-time current capability		Rated thermal current of a PEN busbar A
			1 s	kA	
DIN rail TH 15 – 5.5 accord. to IEC 715	Steel	10	1.2		–
	Copper ¹⁾	25	3		101
	Aluminum ¹⁾	16	1.92		76
G rail G32 accord. to IEC 715	Steel	35	4.2		–
	Copper ¹⁾	120	14.4		269
	Aluminum ¹⁾	70	8.4		192
DIN rail TH 35 -7.5 accord. to IEC 715	Steel	16	1.92		–
	Copper ¹⁾	50	6		150
	Aluminum ¹⁾	35	4.2		125
DIN rail TH 35 -15 accord. to IEC 715 (made from 2.3 mm thick material)	Steel	50	6		–
	Copper ¹⁾	150	18		309
	Aluminum ¹⁾	95	11.4		232

¹⁾ Selected copper or aluminum alloys from the manufacturer of the terminal block layout were used to achieve the values in the table.

Electrical and thermal characteristics

Key figures / characteristics	Standard	IEC	Unit	tr./lf.	Duroplast	Thermoplast							
					Typ 150	Polyamide					Polybutylen- terephthalate PBT GF	Poly- carbonate PC	
						PA 6	PA 6 GF	PA 66	PA 66 GF	PA 66/6			PA 66/6 GF
Dielectric strength	VDE 0303-T21	IEC 243/1	kV / mm	tr./lf.	ca. 10	100 / 60	40 / 31	120 / 80	80 / 65	55 / 45	26 / 23	40	35
Dielectric loss tan δ at 1 MHz	VDE 0303-T4	IEC 250		tr./lf.	0.3	0.03 / 0.3	0.015 / -	0.025 / 0.2	0.02 / 0.1	0.02 / 0.3	0.016 / -	0.017	0.01
Specific feed through resistance	VDE 0303-T30	IEC 93	Ω x cm	lf.	10 ¹⁰	10 ¹²	10 ¹¹	10 ¹²	10 ¹²	10 ¹²	10 ¹⁵	10 ¹⁶	10 ¹⁵
Surface resistance	VDE0303-T30	IEC 93	Ω	lf.	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁴	10 ¹³	10 ¹⁵
Creepage	VDE0303-T1	IEC 112	CTI		600	600	550	600	550	600	325	200	225
Operating temperature RTI*	UL 746 B		°C at 1.5mm			130	140	125	115	120	140	140	130
Temperature index TI **	VDE0304 T.21	IEC 216-1	°C		120 / 80	100 / 80	185 / 160	118 / 101	157 / 139	123 / 107		130 / 120	
Lower operating temperature without mechanical stress			°C		-55	-40	-40	-40	-40	-40	-40	-40	-40
Flammability	UL 94		class/material thickness		V0	V2 / 1.5	V2 / 0.8	V2 / 0.4	V0 / 0.8	V0 / 0.4	V0 / 1.5	V0 / 0.5	V0 / 1.04
Suitability for tropical areas					good	good	good	good	good	good	good	good	good

* electrical value
** related to 50% strain resistance drop after 5,000/20,000 hours

Rated connecting capacity and connectable conductor

Table 1 (IEC 60 999-1: 2000)

Rated connecting capacity	Connectable conductors and their theoretical diameters									
	Metric					AWG				
	rigid			flexible		rigid			flexible	
	mm ²	solid Ø mm	stranded Ø mm	mm ²	Ø mm	Gauge	¹⁾ solid Ø mm	¹⁾ Class B stranded Ø mm		²⁾ Class I, K, M stranded Ø mm
0.50	0.5	0.9	1.1	0.5	1.1	20	0.85	0.97	20	1.02
0.75	0.75	1.0	1.2	0.75	1.3	18	1.07	1.23	18	1.28
1.0	1.0	1.2	1.4	1.0	1.5	–	–	–	–	–
1.5	1.5	1.5	1.7	1.5	1.8	16	1.35	1.55	16	1.60
2.5	2.5	1.9	2.2	2.5	2.3*	14	1.71	1.95	14	2.08
4.0	4.0	2.4	2.7	4.0	2.9*	12	2.15	2.45	12	2.70
6.0	6.0	2.9	3.3	4.0	2.9*	10	2.72	3.09	–	–
10.0	10.0	3.7	4.2	6.0	3.9	8	3.43	3.89	10	3.36
16.0	16.0	4.6	5.3	10.0	5.1	6	4.32	4.91	8	4.32
25.0	25.0	–	6.6	16.0	6.3	4	5.45	6.18	6	5.73
35.0	35.0	–	7.9	25.0	7.8	2	6.87	7.78	4	7.26

* Measurement only for flexible conductors of Class 5 according to HD 383 (= IEC 228A, mod.), DIN VDE 0295

¹⁾ Nominal diameter + 5%

²⁾ Largest diameter for conductors of Class I, K, M, + 5%

The diameter of the largest rigid and flexible conductors are based on Table 1 of HD 383 (IEC 228A) and for AWG conductors are based on ASTM B172-71, ICEA Publ. S-19-81 and ICEA Publ. S-66-516.

Theoretical diameters of the largest conductor and ratio between the rated cross section and connectable conductors

Table 1 (IEC 60 999-2: 1995)

Rated cross section	Theoretical diameter of the largest conductor					Connectable conductor
	Metric		Gauge	AWG/Kcmil		
	rigid stranded mm	flexible Class 5 mm		rigid stranded mm	flexible mm	
35*	7.9	9.2	2	7.78	9.02	is to be indicated in the appropriate equipment specifications
–	–	–	1	8.85	10.61	
50	9.1	11.0	0	9.64	12.08	
70	11.0	13.1	00	11.17	13.54	
95	12.9	15.1	000	12.54	15.33	
–	–	–	0000	14.08	17.22	
120	14.5	17.0	250	15.34	19.01	
150	16.2	19.0	300	16.80	20.48	
185	18.0	21.0	350	18.16	22.05	
–	–	–	400	19.42	24.05	
240	20.6	24.0	500	21.68	26.57	
300	23.1	27.0	600	23.82	30.03	

* see IEC 60 999-1, table 1

facts & DATA

Standard cross sections of round copper conductors

Metric size ISO mm ²	Comparison between AWG/kcmil und metric sizes			Metric size ISO mm ²	Comparison between AWG/kcmil und metric sizes		
	AWG	kcmil	mm ²		AWG	kcmil	mm ²
0.1*	28		0.081	16	6		13.3
0.14*	26		0.128	25	4		21.2
0.2	24		0.205	35	2		33.6
–	22		0.324	50	(1/0) 0		53.5
0.5	20		0.519	70	(2/0) 00		67.4
0.75	18		0.82	95	(3/0) 000		85
1	–		–	–	(4/0) 0000		107.2
1.5	16		1.3	120		250	127
2.5	14		2.1	150		300	152
4	12		3.3	185		350	177
6	10		5.3	240		500	253
10	8		8.4	300		600	304

* not standardized

Design and dimensions of solid, stranded, fine stranded and extra fine stranded copper conductors

Excerpt from DIN VDE 0295 (06.92)

Nominal cross section mm ²	solid		stranded		fine stranded	
	Diameter max. size	Number of wires	Diameter max. size	Number of wires	Diameter max. size	Number of wires Guide value
0.5	0.9	1	–	–	1.1	16
0.75	1.0	1	–	–	1.3	24
1	1.2	1	–	–	1.5	32
1.5	1.5	1	–	–	1.8	30
2.5	1.9	1	–	–	2.3	50
4	2.4	1	–	–	2.9	56
6	2.9	1	–	–	3.9	84
10	3.7	1	4.2	7	5.1	80
16	4.6	1	5.3	7	6.3	126
25	–	–	6.6	7	7.8	196
35	–	–	7.9	7	9.2	276
50	–	–	9.1	19	11	396
70	–	–	11	19	13.1	360
95	–	–	12.9	19	15.1	475
120	–	–	14.5	37	17	608
150	–	–	16.2	37	19	756
185	–	–	18	37	21	925
240	–	–	20.6	61	24	1224

Current carrying capacity of cables or wires

Recommended values for the current carrying capacity of cables or wires for fixed installation and external mounting have been taken from DIN VDE 0298 part 4/11.98 together with the modifications in draft DIN VDE 0298 part 4 A1/03.00 and are contained in supplement 1 to DIN VDE 0100 part 430, converted at 25 °C.

Current carrying capacity of DIN rail terminal blocks

The following tables apply for DIN rail terminal blocks and copper conductors:
Test currents according to DIN EN 60 947-7-1/VDE 0611 part 1: 2000-05

Rated cross section mm ²	0.2	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Test current A	4	6	9	13.5	17.5	24	32	41	57	76	101	125	150	192	232	269	309	353	415	520

The rated cross section of a DIN rail terminal block is the value indicated by the manufacturer of the connectable conductor cross section to which specific thermal, mechanical and electrical requirements refer.

The rated connecting capacity of a DIN rail terminal block is a range and/or a number of rated cross sections that the terminal block is intended for. It should be indicated for each terminal block separately.

The conductors can be rigid (solid or stranded) or flexible. The data pertains to unprepared conductor ends without ferrules and includes the largest and smallest connectable conductor cross sections. In general it is possible to connect two conductors with the same cross section and design.

For DIN rail terminal blocks with special functions, the rated current from the manufacturer has been determined according to the requirements of the special functions. Special functions can be given by pluggable connections, isolating points, fuses, relays or electronic components. The current carrying capacity of other terminal blocks has been fixed and assessed following the above specifications according to nach EN 60 999/VDE 0609 part 1 or EN 60 998-1/VDE 0613 part 1 or EN 60 335-1/DIN VDE 0700 part 1, as far as they are relevant.

The current carrying capacity for pluggable connectors (catalog sections **revos** and **wiecon** – for pluggable PC board connectors and headers) has been established and fixed according to DIN VDE 0627/06.86 and DIN 43 652, if applicable. Disconnect blocks, knife edged disconnect blocks and fuse blocks, cross connectors / jumper bars, jumpers and pluggable connectors should not be operated under load.

Torques

Excerpt from EN 60 947

Tightening torques for verification of mechanical stability of screw connections

Thread diameter (mm)		Tightening torque (Nm)		
Metric standard values	Diametrical range	I	II	III
2,5	≤ 2,8	0,2	0,4	0,4
3,0	> 2,8 through 3,0	0,25	0,5	0,5
–	> 3,0 through 3,2	0,3	0,6	0,6
3,5	> 3,2 through 3,6	0,4	0,8	0,8
4	> 3,6 through 4,1	0,7	1,2	1,2
4,5	> 4,1 through 4,7	0,8	1,8	1,8
5	> 4,7 through 5,3	0,8	2,0	2,0
6	> 5,3 through 6,0	1,2	2,5	3,0
8	> 6,0 through 8,0	2,5	3,5	6,0
10	> 8,0 through 10,0	–	4,0	10,0
12	> 10,0 through 12,0	–	–	14,0
14	> 12 through 15	–	–	19,0
16	> 15 through 20	–	–	25,0
20	> 20 through 24	–	–	36,0
24	> 24	–	–	50,0

Column I: Valid on for headless screws, that do not protrude from the threaded hole; also only for screws that are operated with screwdrivers having tip smaller than the screws' thread core diameter.

Column II: applies for nuts and screws that are tightened with a screwdriver.

Column III: applies for nuts and screws that can be tightened with tools other than a screwdriver

The recommended torques were established so that within a conforming practical tolerance band, the optimal conditions are achieved for mechanical, thermal and electrical requirements.

A further increase in the tightening torque of the terminal screw does not improve the contact resistance significantly. It is therefore not advisable to tighten the terminal screws more than recommended, although the majority of the Wieland terminal blocks, especially the terminal blocks of the WK series, can withstand much higher torques.

In extreme cases, the conductor and/or terminal block can be damaged if the upper tolerance limit is exceeded.

Insulation coordination for equipment within low-voltage systems DIN VDE 0110-1/VDE 0110 part 1/04.97 (IEC 60 664-1: 1992, mod.) – Partly translated from German Version HD 625.1, S1: 1996

Main section – 1.1 Scope

1.1.1 This part of IEC 664 deals with insulation coordination for equipment within low-voltage systems . It applies to equipment for use up to 2,000 m above sea level, having a rated voltage up to AC 1,000 V with rated frequencies up to 30 kHz or a rated voltage up to DC 1,500 V.

It specifies the requirements for clearances, creepage distances and solid insulation for equipment based upon their performance criteria. It includes methods of electric testing with respect to insulation coordination.

The minimum clearances specified in this part do not apply where ionized gases occur. Special requirements for such situations may be specified at the discretion of the relevant Technical Committee.

This standard does not deal with distances
– through liquid insulation,
– through gases other than air,
– through compressed air.

NOTE 1: Extension of the scope up to 1 MHz is under consideration.

NOTE 2: Higher voltages may exist in internal circuits of the equipment.

NOTE 3: Requirements for altitudes exceeding 2,000 m can be derived from Table A.2 of Annex A.

1.1.2 The object of this basic safety standard is to guide Technical Committees responsible for different equipment in order to rationalize their requirements so that insulation coordination is achieved.

It provides the information necessary to give guidance to Technical Committees when specifying clearances in air, creepage distances and solid insulation for equipment.

Product description and labelling

Currently there is still a range of device specifications, in which the regulations on insulation coordination have still not been incorporated. In addition, transition periods of up to 5 years apply for reworked standards in order to replace the older standards. Thus, for the foreseeable future, there are products existing side by side that have been developed and labelled following the old design rules and those that have already been designed according to the regulations for insulation coordination.

For this reason, wherever possible and applicable, the rating is given in the product descriptions according to the old and new regulations. The reassessment and conversion of the labelling of existing products is carried out in the framework of the transition periods in accordance with economical considerations.

facts & DATA

The rating is given according to the new regulation in the format

Rated voltage/Rated impulse voltage/Degree of pollution
e. g. 800 V/8 kV/3

With this data, the rated impulse voltage is given priority over the overvoltage category. Therefore it is left to the users to decide which overvoltage category to select based on the requirements. If no rated voltage is indicated, the voltage data refer to overvoltage category III and degree of pollution 3.

It is imperative that the indicated wire strip lengths are observed. When connecting the wire, care must be taken that the insulation material is fed as closely as possible to the metal clamping body, as otherwise the creepage distances and clearances might be reduced.

2.2.2.1 Impulse withstand categories (overvoltage categories)

Impulse withstand categories are means to distinguish degrees of availability of equipment with regard to required expectations on continuity of service and on an acceptable risk of failure. By selection of impulse withstand levels of equipment, insulation coordination can be achieved in the whole installation, reducing the risk of failure to an acceptable level providing a basis for overvoltage control.

A higher characteristic numeral of an impulse withstand category indicates a higher specific impulse withstand of the equipment and offers a wider choice of methods for overvoltage control.

The concept of impulse withstand categories is used for equipment energised directly from the mains. The application of impulse withstand categories is based on the requirement with regard to additional protection against overvoltages as specified in IEC 364-4-443.

Note: Overvoltages of atmospheric origin are not significantly physically attenuated downstream in most installations. Investigations have shown that the concept of a probabilistic approach has proven reasonable and useful.

2.2.2.1.1 Equipment energized directly from the low-voltage

Technical Committees shall specify the overvoltage category as based on the following general explanation of overvoltage categories (see also IEC 364-4-443):

- Equipment of **overvoltage category IV** is for use at the origin of the installation.

Note: Examples of such equipment are electricity meters and primary overcurrent protection equipment

- Equipment of **overvoltage category III** is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements.

Note: Examples of such equipment are switches, in the fixed installation and equipment for industrial use with permanent connection to the fixed installation.

- Equipment of **overvoltage category II** is energy-consuming equipment to be supplied from the fixed installation.

Note: Examples of such equipment are appliances, portable tools and other household and similar loads.

If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies.

- Equipment of **overvoltage category I** is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriately low level.

Note: Examples are protected electronic circuits.

2.5 Pollution

The micro-environment determines the effect of pollution on the insulation. The macro-environment, however, has to be taken into account when considering the micro-environment.

Means may be provided to reduce pollution at the insulation under consideration by effective use of enclosures, encapsulation or hermetic sealing. Such means to reduce pollution may not be effective when the equipment is subject to condensation or if, in normal operation, it generates pollutants itself.

Small clearances can be bridged completely by solid particles, dust and water and therefore minimum clearances are specified where pollution may be present in the micro-environment.

Note 1: Pollution will become conductive in the presence of humidity. Pollution caused by contaminated water, soot, metal or carbon dust is inherently conductive.

Note 2: Conductive pollution by ionized gases and metallic depositions occurs only in specific instances, for example in arc chambers of switchgear or controlgear, and is not covered by this part of IEC 664.

2.5.1 Degrees of pollution in the micro-environment

For the purpose of evaluating creepage distances and clearances, the following four degrees of pollution in the micro-environment are established:

- **Pollution degree 1**
No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.
- **Pollution degree 2**
Only non-conductive pollution occurs except that occasionally a temporary conductivity caused by condensation is to be expected.
- **Pollution degree 3**
Conductive pollution occurs or dry, non-conductive pollution occurs which becomes conductive due to condensation which is to be expected.
- **Pollution degree 4**
The pollution generates persistent conductivity caused by conductive dust or by rain or snow.

2.5.2 Coordination with macro-environment

This sub-clause is under consideration.

2.7 Insulation material (excerpt)

The insulation material is divided into the following four groups according to their CTI (Comparative Tracking Index):

- Insulation I: $600 \leq \text{CTI}$
- Insulation II: $400 \leq \text{CTI} < 600$
- Insulation III a: $175 \leq \text{CTI} < 400$
- Insulation III b: $100 \leq \text{CTI} < 175$

The comparative tracking index must be defined according to DIN IEC 112/VDE 0303 part 1 on specimens made specially for this purpose with test solution A.

Note: The proof-tracking index (PTI) is also used to identify the tracking characteristics of materials. A material may be included in one of the four groups given above on the basis that its PTI, established by the methods of IEC 112 using solution A, is equal to or greater than the lower value specified for the group.

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Derivation of the rated impulse voltage from the overvoltage category and assignment of the nominal supply voltages to the rated impulse voltages for equipment

Excerpt from table 1 (IEC 60 664-1: 1992)

Nominal supply voltage for alternating voltage systems according to IEC 38 in V		Voltages wire to ground in V derived from the nominal supply voltage up to U_{eff} and U_0	Rated impulse voltage in V for overvoltage category			
3phase	1phase		I	II	III	IV
		50	330	500	800	1500
		100	500	800	1500	2500
	120-240	150	800	1500	2500	4000
230/400 277/480 ¹⁾		300	1500	2500	4000	6000
400/690		600	2500	4000	6000	8000
1000		1000	4000	6000	8000	12000

¹⁾ The nominal-supply voltage 500 V is included

Dimensions of the clearances

DIN VDE 0110 part 1 section 3.1

Table 2: **Minimum clearances for the insulation coordination**

Required impulse voltage ¹⁾	Minimum clearances in heights up to 2000 m above sea level (NZ)							
	Case A (inhomogeneous field, see 1.3.15)				Case B (homogeneous field, see 1.3.14)			
	Degree of pollution				Degree of pollution			
	1	2	3	4	1	2	3	4
kV	mm	mm	mm	mm	mm	mm	mm	mm
0.33 ²⁾	0.01				0.01			
0.40	0.02				0.02			
0.50 ²⁾	0.04	³⁾			0.04	³⁾		
0.60	0.06	0.2 ⁴⁾			0.06	0.2 ⁴⁾		
0.80 ²⁾	0.10		0.8 ⁴⁾		0.1		0.8 ⁴⁾	
1.0	0.15			1.6 ⁴⁾	0.15			1.6 ⁴⁾
1.2	0.25	0.25			0.2			
1.5 ²⁾	0.5	0.5			0.3	0.3		
2.0	1.0	1.0	1.0		0.45	0.45		
2.5 ²⁾	1.5	1.5	1.5		0.6	0.6		
3.0	2	2	2	2	0.8	0.8		
4.0 ²⁾	3	3	3	3	1.2	1.2	1.2	
5.0	4	4	4	4	1.5	1.5	1.5	
6.0 ²⁾	5.5	5.5	5.5	5.5	2	2	2	2
8.0 ²⁾	8	8	8	8	3	3	3	3
10	11	11	11	11	3.5	3.5	3.5	3.5
12 ²⁾	14	14	14	14	4.5	4.5	4.5	4.5
15	18	18	18	18	5.5	5.5	5.5	5.5
20	25	25	25	25	8	8	8	8
25	33	33	33	33	10	10	10	10
30	40	40	40	40	12.5	12.5	12.5	12.5
40	60	60	60	60	17	17	17	17
50	75	75	75	75	22	22	22	22
60	90	90	90	90	27	27	27	27
80	130	130	130	130	35	35	35	35
100	170	170	170	170	45	45	45	45

¹⁾ This voltage is

- for functional insulation: the highest impulse voltage to be expected on the clearance (see 3.1.4);
- for base insulation, if directly or mainly influenced by transient overvoltages of the low-voltage network (see 2.2.2.2, 2.2.2.3.1 and 3.1.5): the rated impulse voltage of the equipment;
- for other base insulation (see 2.2.2.3.2): the highest impulse voltage which may occur in the circuit
- for reinforced insulation, see 3.1.5.

²⁾ Preferred values, as determined in 2.1.1.2

³⁾ For PC board connectors, the values of pollution degree 1 apply, except for the fact that the value must not be below 0.04 mm as determined in table 4

⁴⁾ The minimum clearances for the pollution degrees 2, 3 and 4 are based on experience, not on basic knowledge

Table A.2: **Height correction factors**

Height m	Normal air pressure kPa	Multiplication factor for clearances
2000	80.0	1.00
3000	70.0	1.14
4000	62.0	1.29
5000	54.0	1.48
6000	47.0	1.70
7000	41.0	1.95
8000	35.5	2.25
9000	30.5	2.62
10000	26.5	3.02
15000	12.0	6.67
20000	5.5	14.50

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Nominal voltage of the low-voltage network

Table 3a: **Single phase 3 or 2 wire alternating or direct voltage systems**

Nominal voltage of the power supply system (network) ^{*)}	Voltages for table 4	
	for insulation Wire – Wire ¹⁾	for insulation Wire – Ground ¹⁾
	All systems	3 wire systems center grounded
V	V	V
12.5	12.5	–
24 25	25	–
30	32	–
42 48 50, ^{**)}	50	–
60	63	–
30–60	63	32
100, ^{**)}	100	–
110 120	125	–
150, ^{**)}	160	–
220,	250	–
110–220 120–240	250	125
300, ^{**)}	320	–
220–440	500	250
600, ^{**)}	630	–
480–960	1000	500
1000, ^{**)}	1000	–

¹⁾ Wire-ground insulation level for ungrounded or impedance-grounded networks equal those of wire-wire, as the operating voltage of each wire to ground can in practice reach wire-wire voltage. The reason is that the actual voltage to ground is determined by the insulation resistance and the capacitive blind resistance of each wire to ground. That means that a low (but permissible) insulation resistance of a wire can practically ground it and increase the other two to wire-wire voltage to ground.

^{*)} For relation with the rated voltage see 2.2.1.

^{**)} (see national foot note)

Table 3b: **Three-phase 4 or 3 wire alternating voltage systems**

Nominal voltage of the power supply system (network) ^{*)}	Voltage for table 4		
	for insulation Wire – Wire	for insulation Wire – Ground	
	All systems	Three-phase 4 wire systems with grounded neutral ²⁾	Three-phase 3 wire systems ungrounded ¹⁾ or grounded wire
V	V	V	V
60	63	32	63
110 120 127	125	80	125
150, ^{**)}	160	–	160
208	200	125	200
220 230 240	250	160	250
300, ^{**)}	320	–	320
380 400 415	400	250	400
440	500	250	500
480 500	500	320	500
575	630	400	630
600, ^{**)}	630	–	630
660 690	630	400	630
720 830	800	500	800
960	1000	630	1000
1000, ^{**)}	1000	–	1000

¹⁾ Wire-ground insulation level for ungrounded or impedance grounded networks equal those of wire-wire, as the operating voltage of each wire to ground can in practice reach wire-wire voltage. The reason is that the actual voltage to ground is determined by the insulation resistance and the capacitive blind resistance of each wire to ground. That means that a low (but permissible) insulation resistance of a wire can practically ground it and increase the other two to wire-wire voltage to ground.

²⁾ For equipment which can be operated both in three-phase 4 wire and in three-phase 3 wire networks, grounded and also ungrounded, only the values for 3 wire systems are to be used.

^{*)} For relation with the rated voltage see 2.2.0.1.

^{**)} (see national foot note)

Dimensions of the creepage distances

DIN VDE 0110 part 1 section 3.2

Table 4: Minimum creepage distances for equipment under long-term voltage

Effective voltage value ¹⁾ V	Creepage distances											
	Printed circuits		Degree of pollution									
	Pollution degree		1	2			3			4		
	1 ²⁾ mm	2 ³⁾ mm	2 ²⁾ mm	Insulation material			Insulation material			Insulation material		
			I mm	II mm	III mm	I mm	II mm	III ⁴⁾ mm	I mm	II mm	III ⁴⁾ mm	
10	0.025	0.04	0.08	0.4	0.4	0.4	1	1	1	1.6	1.6	1.6
12.5	0.025	0.04	0.09	0.42	0.42	0.42	1.05	1.05	1.05	1.6	1.6	1.6
16	0.025	0.04	0.1	0.45	0.45	0.45	1.1	1.1	1.1	1.6	1.6	1.6
20	0.025	0.04	0.11	0.48	0.48	0.48	1.2	1.2	1.2	1.6	1.6	1.6
25	0.025	0.04	0.125	0.5	0.5	0.5	1.25	1.25	1.25	1.7	1.7	1.7
32	0.025	0.04	0.14	0.53	0.53	0.53	1.3	1.3	1.3	1.8	1.8	1.8
40	0.025	0.04	0.16	0.56	0.8	1.1	1.4	1.6	1.8	1.9	2.4	3
50	0.025	0.04	0.18	0.6	0.85	1.2	1.5	1.7	1.9	2	2.5	3.2
63	0.04	0.063	0.2	0.63	0.9	1.25	1.6	1.8	2	2.1	2.6	3.4
80	0.063	0.1	0.22	0.67	0.95	1.3	1.7	1.9	2.1	2.2	2.8	3.6
100	0.1	0.16	0.25	0.71	1	1.4	1.8	2	2.2	2.4	3	3.8
125	0.16	0.25	0.28	0.75	1.05	1.5	1.9	2.1	2.4	2.5	3.2	4
160	0.25	0.4	0.32	0.8	1.1	1.6	2	2.2	2.5	3.2	4	5
200	0.4	0.63	0.42	1	1.4	2	2.5	2.8	3.2	4	5	6.3
250	0.56	1	0.56	1.25	1.8	2.5	3.2	3.6	4	5	6.3	8
320	0.75	1.6	0.75	1.6	2.2	3.2	4	4.5	5	6.3	8	10
400	1	2	1	2	2.8	4	5	5.6	6.3	8	10	12.5
500	1.3	2.5	1.3	2.5	3.6	5	6.3	7.1	8	10	12.5	16
630	1.8	3.2	1.8	3.2	4.5	6.3	8	9	10	12.5	16	20
800	2.4	4	2.4	4	5.6	8	10	11	12.5	16	20	25
1000	3.2	5	3.2	5	7.1	10	12.5	14	16	20	25	32
1250			4.2	6.3	9	12.5	16	18	20	25	32	40
1600			5.6	8	11	16	20	22	25	32	40	50
2000			7.5	10	14	20	25	28	32	40	50	63
2500			10	12.5	18	25	32	36	40	50	63	80
3200			12.5	16	22	32	40	45	50	63	80	100
4000			16	20	28	40	50	56	63	80	100	125
5000			20	25	36	50	63	71	80	100	125	160
6300			25	32	45	63	80	90	100	125	160	200
8000			32	40	56	80	100	110	125	160	200	250
10000			40	50	71	100	125	140	160	200	250	320

¹⁾ This voltage is

- for functional insulation: the operating voltage
- for base and additional insulation of a power circuit directly supplied by the low-voltage network (see 2.2.1.1.1): the voltage selected from table 3a or 3b based on the rated voltage of the equipment, or the rated insulation voltage
- for base and additional insulation of systems, equipment and internal circuits, which are not directly supplied by the low-voltage network (see 2.2.1.1.2): the highest effective voltage value, which may occur among the ratings in the network, equipment or internal circuit under rated voltage supply and under unfavorable combination of the operating conditions

²⁾ Insulation material groups I, II, IIIa and IIIb

³⁾ Insulation material groups I, II and IIIa

⁴⁾ Insulation material group IIIb is not recommended for pollution degree 3 at voltages above 630 V and also not for pollution degree 4.

Note: In agreement with VDE 0110 for rated voltages 127, 208, 415, 660/690, 830 volt creepage distances must be rated according to the lower values of 125, 200, 400, 630, 800 Volts.

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Creepage distances and clearances according to DIN VDE 0110b/02.79

Reference voltage (table 1) up to		Insulation group A ₀		Insulation group A		Insulation group B			Insulation group C			Insulation group D		
Alternating voltage (effective values) V	Direct voltage V	Clearance L mm	Creepage distance mm	Clearance L mm	Creepage distance mm	Clearance L mm	Creepage distance a mm	b mm	Clearance L mm	Creepage distance a mm	b mm	Clearance L mm	Creepage distance a mm	b mm
12	15	0.06	0.1	0.15	0.2	0.4	0.6	0.8	0.8	1.2	1.7	1.6	2.3	3.2
30	36	0.1	0.15	0.2	0.25	0.5	0.8	1	1	1.5	2	1.8	2.6	3.5
60	75	0.15	0.2	0.25	0.35	0.7	1	1.3	1.2	1.7	2.3	2	3	4
125	150	0.25	0.35	0.4	0.5	1	1.3	2	1.6	2.2	3	2.5	3.5	5
250	300	0.5	0.7	0.8	1	1.6	2	3	2.5	3	4	3.5	5	7.5
380	450	0.8	1.1	1.2	1.5	2.4	3	4	3.5	4.5	6	5	7	10
500	600	1.1	1.5	1.6	2	3	4	5.5	4.5	6	8	6.5	9	13
660	800	1.5	2	2.2	2.8	4	5.5	7	6	8	10.5	8	12	17
750	900	1.8	2.2	2.5	3.2	4.5	6	8	6.5	9	12	9	13	19
1000	1200	2.5	3	3.5	4.5	6	8	11	9	12	16	12	17	25
1500	1800	4	5	5.5	7	9	12	17	13	18	24	17	25	36
2000	2400	5.5 ¹⁾	7	7.5 ¹⁾	9.5	12	16	23	17	24	30	22	33	47
3000	3600	9 ¹⁾	11	12 ¹⁾	15	18 ¹⁾	25	36	26 ¹⁾	36	45	32 ¹⁾	48	70
6000	7200	20 ¹⁾	25	26 ¹⁾	32	36 ¹⁾	50	70	50 ¹⁾	70	90	60 ¹⁾	90	125
10000	12000	35 ¹⁾	45	45 ¹⁾	55	60 ¹⁾	90	120	80 ¹⁾	120	160	100 ¹⁾	150	200

¹⁾ To prevent continuous glow at operating voltage (reference voltage) sharp-edged metal components should be avoided.
(W. Hermstein: Measuring clearances, especially for 50 Hz alternating voltage.
etz-a 90 (1969) 11, pages 251 to 255, 9B., 11 Qu

Insulation group A₀: Lower-power equipment in air-conditioned or clean and dry rooms that is suitably protected and heats up minimally when short circuits occur

Insulation group A: Electrical equipment in air-conditioned or clean and dry rooms that is suitably protected

Insulation group B: Electrical equipment in households, stores and other commercial premises, in precision engineering workshops, laboratories, testing stations, in rooms for medical use etc.

Insulation group C: Electrical equipment used primarily in premises for industrial, commercial and agricultural use, in unheated warehouses, in workshops, in boiler rooms, machine tools etc.

Insulation group D: Electrical equipment for use in motor vehicles that are particularly subject to the effects of conductive brake dust and moisture (condensation water or snow) and cannot be sufficiently protected by casing.

Division of creepage distances

Table 3: Resistance to creepage

1	2	3	4
Group	Resistance to creepage ¹⁾ (minimum value)	Creepage distance without ripple	Creepage distance with ripple accord. to § 8a)
I	(minimum value) KB 100	b	$\frac{a+b}{2}$
II	(minimum value) KB 380	$\frac{a+b}{2}$	a
III	KB > 600	a	a

¹⁾ Steps of creepage resistance according to DIN 53 480, VDE 0303 part 1

Note:

The voltages given according to DIN VDE 0110b/02.79 refer, unless otherwise identified, to insulation group C.

Degrees of protection according to DIN EN 60 529/ VDE 0470 part 1: 2000 – 09

Connecting devices such as modular terminals, connecting terminals, printed circuit board terminals and plug-in connectors etc., intended for mounting devices and installation that have no shock-protection housing in the sense of this standard. No IP protection category can thus be assigned to it. The insulating component is used in the first place for functional insulation, but can in addition offer protection against direct contact of active components e.g. safety finger contact and/or touch by the back of the hand. Its surface is not regarded as exposed. The definitive shock protection is secured by installation measures and by the external protective covering of the end device of the installation.

Identification examples using the IP code

Explanation of Alpha-numeric IP code system



A housing using this identification (IP code)

- 2 – protects people against access to dangerous components (touch-safe)
 - protects the equipment within the housing against ingress of solid foreign bodies with a diameter of 12.5 mm and larger
- 3 – protects the equipment within the housing against damaging effects of water that is sprayed from every direction against the housing
- C – protects people who are handling tools with a diameter of 2.5 mm and larger, and a length less than 100 mm, against access to dangerous components (the tool can be inserted into the housing at full length)
- S – is tested to provide protection against damaging effects of water ingress, while all components of the equipment are in standstill position

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Components of the IP code and its meaning

A short description of the IP code components is given in the following table:

Component	Figures or letter	Meaning for the protection of the equipment	Meaning for the protection of people:
Identification letter	IP	–	–
First identification number	0	against ingress of solid foreign bodies (unprotected)	against access to dangerous components with (unprotected)
	1	≥ 50 mm diameter	back of hand
	2	≥ 12.5 mm diameter	finger
	3	≥ 2.5 mm diameter	tool
	4	≥ 1.0 mm diameter	wire
	5	protected against dust	wire
	6	dustproof	wire
Second identification number		against ingress of water with damaging effects	
	0	(unprotected)	
	1	dripping water falling vertically	
	2	dripping water (15° slope)	
	3	spraying water	
	4	splashing water	
	5	jet water	
	6	powerful jet water	
	7	temporary submersion	
8	continuous submersion		

Table 1: **Degrees of protection against access to dangerous components, identified by the first identification number**

First identification number	Degree of protection	
	Brief description	Definition
0	unprotected	–
1	protected against access to dangerous components with the back of the hand	The access probe, 50 mm diameter sphere, must be a sufficient distance away from the dangerous components
2	protected against access to dangerous components with a finger	The jointed test finger, 12 mm in diameter, 80 mm in length, must be a sufficient distance away from the dangerous components
3	protected against access to dangerous components with a tool	The access probe with a diameter of 2.5 mm must not penetrate
4	protected against access to dangerous components with a wire	The access probe with a diameter of 1.0 mm must not penetrate
5	protected against access to dangerous components with a wire	The access probe with a diameter of 1.0 mm must not penetrate
6	protected against access to dangerous components with a wire	The access probe with a diameter of 1.0 mm must not penetrate
<p>Note: For the first identification numbers 3, 4, 5 and 6 protection against access to dangerous components is provided if a sufficient distance is maintained. Due to the simultaneously applicable requirement according to table 2, the definition "must not penetrate" was given in table 1.</p>		

Table 2: **Degrees of protection against solid foreign bodies**

First identification number	Degree of protection	
	Brief description	Definition
0	unprotected	–
1	protected against solid foreign bodies of 50 mm and larger	Full penetration of spheres of 50 mm diameters or allowed*)
2	protected against solid foreign bodies of 12.5 mm and larger	Full penetration of spheres of 12.5 mm diameters or allowed*)
3	protected against solid foreign bodies of 2.5 mm and larger	Full penetration of 2.5 mm diameter sphere is not allowed at all*)
4	protected against solid foreign bodies of 1.0 mm and larger	Full penetration of 1.0 mm diameter sphere is not allowed at all*)
5	protected against dust	Penetration of dust is not fully prevented, but dust must not penetrate to such an extent that the satisfactory functioning of the device or safety is restricted in any way
6	protected against dust	No penetration of dust

*) **Note:** The full diameter of the object probe must not go through any opening in the housing

Table 4: **Degrees of protection against access to dangerous components, identified by the additional letter**

First identification number	Degree of protection		Test conditions see section
	Brief description	Definition	
A	protected against touch with the back of hand	The access probe, 50 mm diameter sphere, must be at a sufficient distance away from dangerous components	15.2
B	protected against touch with the finger	The jointed test finger, 12 mm in diameter, 80 mm in length, sufficient distance away from dangerous components	15.2
C	protected against access with a tool	The access probe with a diameter of 2.5 mm and a length of 100 mm must be a sufficient distance away from dangerous components	15.2
D	protected against access with a wire	The access probe with a diameter of 1.0 mm and a length of 100 mm must be a sufficient distance away from dangerous components	15.2

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Table 3: **Degree of protection against water, identified by the second identification number**

Second identification number	Degree of protection	
	Brief description	Definition
0	unprotected	–
1	protected against dripping water	Dripping water falling vertically must not have a damaging effect
2	protected against dripping water if the housing is sloped up to 15°	Dripping water falling vertically must not have a damaging effect if the housing is sloped by an angle of up to 15° both sides of the vertical
3	protected against spraying water	Water that is sprayed at an angle of 60° both sides of the vertical must not have any damaging effect
4	protected against splashing water	Water that is sprayed from all directions against the housing must not have any damaging effect
5	protected against jet water	Water that is directed from all directions as a jet against the housing must not have any damaging effect
6	protected against powerful jet water	Water that is directed from all directions as a powerful jet against the housing must not have any damaging effect
7	protected against the effects of temporary immersion in water	Water must not penetrate in a quantity to cause damage if the housing is immersed temporarily in water under standard pressure and time conditions
8	protected against the effects of continuous immersion in water	Water must not penetrate in a quantity to cause damage if the housing is continuously immersed in water conditions that must be arranged between the manufacturer and the user. The conditions must however be more severe than for identification number 7.

Degree of protection against water, identified by the second identification number

The second identification number gives the protection category through housing in light of damaging influences on the electrical equipment following penetration of water.

Table 3 gives short descriptions and definitions for the degrees of protection that are represented by the second identification number .

Degrees of protection that are given in this table may only be determined by the second identification number and not by reference to the short description or definition. Until the second identification number 6, the designation means that the requirements for all the lower identification numbers have been fulfilled.

A housing that is identified only with the second identification number 7 or 8 is considered unsuitable for stress through jet water (identified with the second identification number 5 or 6) and does not need to meet the requirements of number 5 or 6. It should be provided with a double identification according to the following table:

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The housing complies with the test for			
jet water, second identification number	temporary/continuous immersion, second identification number	Identification and label	Field of application
5	7	IPX5 / IPX7	varied
6	7	IPX6 / IPX7	varied
5	8	IPX5 / IPX8	varied
6	8	IPX6 / IPX8	varied
	7	IPX7	limited
	8	IPX8	limited

Housings for “varied” use, as indicated in the last column, must meet the requirements both for exposure to jet water and temporary or continuous immersion in water.

Housings for “limited” use, as indicated in the last column, are only regarded as suitable for temporary or continuous immersion and as unsuitable for exposure to jet water.

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Modular terminals for installations with explosion hazard (Ex terminals) Protection category "Increased safety Eex e"

Ex terminals are modular terminals that have been tested and certified by a European Ex test institute in accordance with

DIN EN 50 014 – VDE 0171 part 1
"General requirements" and

DIN EN 50 019 – VDE 0170/0171 part 6
"Protection category: Increased safety 'e' "

The protection category "Increased safety EEx e" applies to electrical equipment that resists sparks, electric arcing or hazardous surface temperatures during operation. Modular terminals thus fall into temperature category T6, in which electrical equipment at an ambient temperature of 40°C and being operated in compliance with regulations, does not exceed the maximum temperature (surface temperature) of 85°C. Certified test institutes are e.g. the Physikalisch Technische Bundesanstalt PTB in Germany, the Laboratoire Central des Industries Electrique LCIE in France, the Health and Safety Executive BASEEFA in England, the EX-Labor of ASEV in Switzerland amongst others.

However, for modular terminals used as incomplete electrical equipment, only a partial certification is issued. This certificate is the basis for the final inspection and certification of the complete installation before it is commissioned by an expert.

The certificate (partial certification) includes a description of the modular terminals, in which special requirements regarding the preparation of terminal strips are made e.g. installing separating end cover plates when modular terminals are connected in series.

Test Certificate

Certificates from LCIE and ASEV are available for feed through terminals of the WK... range and protective conductor terminals of the WK...SL.. range, if indicated. The certificates identify the relevant nominal data and include the accessories listed in the description. The areas of application are divided into:

Group I: Electrical equipment for mines with firedamp hazard

Group II: Electrical equipment for areas with explosion hazard except for mines with firedamp hazard (e.g. installations with explosion hazard for the chemical and petrochemical industries)

In accordance with a resolution of the DKE, Deutsche Elektrotechnische Kommission, terminals are also accepted as electrical equipment for Group I (firedamp protection Eex e I) for which only the increased safety protection type 'e' for Group II (explosion protection Eex e II) has been certified and vice versa.

Modular terminals with Ex protection are identified with the label EEx e I/II or EEx e II and with the approval number. The complete test certification with a description is available upon request.

Protection category "Intrinsic safety Eex i"

According to the installation specification DIN VDE 0165, electrical equipment installed in areas with explosion hazard of group II, zone I (chemical and petrochemical industries) are excluded from the type test and obligatory marking, if they do not contain any voltage source and correspond to DIN EN 50020-VDE 0170/0171 part 7. This applies in particular to feed through terminals in the standard version, as DIN EN 50020 does not make any special demands on connector terminals of the protection category Eex i.

It has been generally accepted that feed through terminals in intrinsically safe circuits are clearly marked with the blue coloring of the insulated housing. For intrinsically safe circuits, feed through terminals can be used in the standard version and if required available with blue insulating housing.

EEx approvals according to the ATEX guideline – 94/9/EG

(ATEX = Atmospheres Explosibles) are currently being prepared.

This guideline aims at clarifying the procedures and applications of devices, components and protective systems to make them suitable for use in explosion hazard areas. Their proper use shall then help to eliminate the barriers and difficulties that occur in the free exchange of goods within the European Community. The transition period between EEx approvals and the ATEX guideline will last until June 30, 2003.

DIN VDE 0106 part 100: 1983 – 03 Protection against electrical shock. Layout of operating devices near live components

The standard cited in the **Accident Prevention Regulation VBG 4** is seen as the basis for the layout of electrical equipment up to 1000 V ~ (1500 V =) as regards protection against direct contact, where operating devices are arranged near live components that are operated by at least electrotechnically instructed persons (occasional handling).

A protected zone is established for this purpose which must be reached into on "occasional handling" of the operating device (switch, push button, rotary button). A distance of

- 30 mm around the operating device "safety from finger touch" and
- 100 mm around the operating device "safety from touch by the back of the hand"

is designed and required.

The VBG 4 regulation is directed at the installer or user of electrical installations who must plan, build and finally operate the installation in accordance with accident prevention regulations. The installer has the task of selecting electrical equipment with the objective and if necessary making it safe to touch using accessories. Only he can confirm that his installation conforms to the accident prevention regulation VBG4.

Wieland develops, builds and tests its products according to the relevant equipment and safety regulations that are likewise cited in regulation VBG4 and moreover offers a range of accessories that takes this requirement into account.

Range of standards DIN VDE 0100

Installation of power systems and equipment with nominal voltages up to 1,000 V

This VDE regulation is a regulation for installations but also contains important details for the manufacturer of equipment and components such as permissible loads for cables, the use of protective conductor terminals and neutral conductor isolating terminals.

DIN EN 50 110-1/VDE 0105 part 1: 10.97

Operation of power systems and equipment

DIN VDE 0106-100/VDE 0106 part 100: 03.83

Protection against electric shock;

Actuating members positioned close to parts liable to shock (VDE Specifications)

DIN VDE 0106-101/VDE 0106 part 101: 11.86

Protection against electric shock;

Basis requirements for protective separation in electrical equipment

DIN VDE 0108-1/VDE 0108 part 1: 10.89

Power systems and safety power supply in building installations for groups of people; general

DIN VDE 0110/11.72 und DIN VDE 0110 b/02.79 withdrawn!

Insulation coordination for electrical equipment in low-voltage installations
- Measurement of creepage distances and clearances

DIN VDE 0110-1/VDE 0110 part 1: 04.97

(IEC 60 664-1: 1992, modified)

HD 625.1 S1: 1996

– Basic principles, requirements and tests

DIN EN 60 204 1/VDE 0113 part 1: 11.98

(IEC 60 204-1: 1992, modified)

Electrical equipping of machines; part 1: general requirements

DIN EN 50 178/VDE 0160: 04.98

Equipping of power installations with electronic equipment

DIN VDE 0165: 02.91

Installation of electrical systems and equipment in areas with explosion hazard

DIN EN 60 079-14/VDE 0165 part 1: 08.98

EN 50 014: 1992/DIN VDE 0170/0171 part 1: 03.94 withdrawn

Electrical equipment for areas with explosion hazard; general specifications

DIN EN 50014/VDE 0170/0171 part 1: 02.00

DIN EN 50 019: VDE 0170/0171 part 6: 03.96

Electrical equipment for areas with explosion hazard; increased safety "e"

DIN EN 50 020: VDE 0170/0171 part 7: 04.96

Electrical equipment for areas with explosion hazard; intrinsic safety "i"

DIN EN 60 529: VDE 0470 part 1: 09.00

(IEC 60 529: 1989, +A: 1999)

Protection categories by housing (IP code)

DIN VDE 0606: 02.76 and DIN VDE 0606 b: 02.80 withdrawn*

VDE specification for connecting devices up to 750 V

Installation consumer units and meter mounting boards up to 250 V

DIN VDE 0606 part 1: 11.84 withdrawn*

Connecting devices up to 660 V; installation boxes for taking up devices and/or connecting terminals

DIN VDE 0609 part 1: 06.83 partly replaced by DIN EN 60999-1/VDE 0609 part 1: 12.00

Connecting points for screw terminals for connecting or linking copper conductors up to 240 mm²; general definitions

DIN EN 60 999: VDE 0609 part 1: 12.00

(IEC 60 999: 1999)

Connecting devices, safety requirements for screw terminal connections and screwless terminal connections for electrical copper conductors

DIN EN 60 947-7-1: VDE 0611 part 1: 05.00

(IEC 60 947-7-1: 1989)

Low-voltage switching devices

Part 7: Auxiliary equipment

Main section 1 – modular terminals for copper conductors

DIN EN 60 947-7-2: VDE 0611 part 3: 06.96

(IEC 60 947-7-2: 1995)

Low-voltage switching devices

Part 7: Auxiliary devices

Main section 2 – ground conductor terminals for copper conductors

DIN VDE 0611 part 3: 11.89

withdrawn, replaced by DIN EN 60 947-7-2/VDE 0611 part 3: 06.96

(transition period until 01.07.2001)

Modular terminals for connecting or linking copper conductors, protective conductive modular terminals up to 120 mm²

DIN VDE 0611-4/VDE 0611 part 4: 02.91

Modular terminals for connecting or linking copper conductors; multi-tier distribution board for modular terminals up to 6 mm²

E DIN VDE 0611-6/VDE 0611 part 6: 05.95

Modular terminals for copper conductors

Safety requirements for modular terminals for taking up fuse units

DIN VDE 0611-20/VDE 0611 part 20: 12.87

Modular terminal blocks for connection of copper conductors up to 1000 V a.c. and up to 1200 V d.c.; test for flammability and flame propagation

DIN EN 60 998-1/VDE 0613-1: 04.94

(IEC 60 998-1: 1990, modified)

Connecting devices for low-voltage circuits for household and similar use

Part 1: General requirements

DIN EN 60 998-2-1/VDE 0613 part 2-1: 04.94

(IEC 60 998-2-1: 1990, modified)

Connecting devices for low-voltage circuits for household and similar use

Part 2-1: Special requirements for connecting devices as separate equipment and screw terminals

DIN EN 60 998-2-2/VDE 0613 part 2-2: 08.94

(IEC 60 998-2-2: 1991)

Connecting devices for low-voltage circuits for household and similar use

Part 2-2: Special requirements for connecting devices as separate equipment and screwless terminals

***replaced by DIN VDE 0606-1/VDE 0606 part 1: 10.00**

connecting devices up to 690 V – installation boxes for taking up devices and/or connecting terminals

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DIN EN 60 998-2-3/VDE 0613 part 2-3: 09.94

(IEC 60 998-2-3: 1991)

Connecting devices for low-voltage circuits for household and similar use

Part 2-3 : Special requirements for connecting devices as separate equipment and IDC terminals

DIN EN 61 210/VDE 0613 part 6: 09.95

(IEC 61 210: 1993 modified)

Connecting devices

Flat push-on connection for electrical copper conductors; safety requirements

DIN EN 50 262/VDE 0619: 04.99

Metric cable glands for electrical installations; German version EN 50262: 1998

DIN EN 60 320-1/VDE 0625 part 1: 07.97

(IEC 60 320-1: 1994, modified + A1: 1995)

Appliance couplers for household and and similar general use

DIN EN 60 320-1 A2/VDE 0625 part 1 A2: 10.98

(IEC 60 320-1: 1994/A2: 1996)

Modification no. 2

DIN EN 60 320-2-2/VDE 0625 part 2-2: 09.99

(IEC 60 320-2-2: 1990, modified)

Appliance couplers for household and and similar general use

Part 2: Remote connections for devices for household use and similar installations

DIN EN 60 799/VDE 0626: 06.99

(IEC 60 799: 1998)

Electrical accessories – Cord sets and interconnection cord sets (IEC 60 799: 1998);

German version EN 60 799: 1998

DIN VDE 0627 : 06.86

Plug-in connectors and plug and socket devices with rated voltages up to AC 1000 V,

up to DC 1200 V and rated currents up to 500 A per contact

DIN VDE 0628: 11.84

Plug-in connectors for nominal voltages up to AC 380 V with nominal current of 16 A

DIN IEC 23/221/CD/VDE 0606 part 1535: 07.96

Separable connecting devices intended for permanent connection – Part. 1 : General requirements;

IEC 23/221/CD: 1996

DIN EN 60 947-1/VDE 0660 part 100: 12.99

(IEC 60 947-1: 1996, modified + Corrigendum March 1998)

Low-voltage switching devices

Part 1: General definitions

DIN EN 60 439-1/VDE 0660 part 500: 08.00

(IEC 60 439-1: 1999)

Low- voltage switchgear and controlgear assemblies – Part 1:

Type-tested and partially type-tested assemblies

DIN EN 60 439-3/VDE 0660 part 504: 04.92

(IEC 60 439-3: 1990, modified)

Switching devices; low-voltage switchgear assembly;

Part 3: Special requirements of low-voltage switchgear assembly that laymen have access to operate,

– Distribution boards –

DIN EN 60 335-1/VDE 0700 part 1: 10.95

(IEC 60 335-1: 1991, modified)

Safety of electrical devices for household and similar use;

Part 1: General requirements

**EN 60 335-1 A2: 1988, A5: 1989, A6: 1989 and A51:
1991/DIN VDE 0700 part 1 A6: 12.91**

Safety of electrical devices for household and similar use
Part 1: General requirements (modifications)

DIN EN 60 598-1/VDE 0711 part 1: 08.98

(IEC 60 598-1: 1996, modified)
Luminaires
Part 1: General requirements and tests

DIN EN 60 127-2/VDE 0820 part 2: 08.96

(IEC 60 127-2: 1989 + A1: 1995 + A2: 2000)
Miniature fuses Part 2: Cartridge fuse-links German version EN 60 127-2: 1989 + A1: 1995 + A2: 2000

DIN EN 60 127-6/VDE 0820 part 6: 12.96

(IEC 60 127-6: 1994 + A1996)
VDE specification for fuses (G fuses)
Specification for G fuse holder

EN 60 715: 2001/DIN EN 60 715: 09.2001

Dimensions of low-voltage switchgear and controlgear
Standardized mounting on rails for mechanical support of electrical devices in switchgear and controlgear installations
(IEC 60 715: 1981 + A1: 1995); German version EN 60 715: 2001

IEC 60 038: 1983/DIN IEC 38: 05.87

and supplement 1 to DIN IEC 38/12.92
IEC standard voltages

At the end of 1993, the international standard IEC 38 „IEC standard voltages“ was agreed.
In the framework of this standard it was not possible to standardize worldwide the applicable voltage values 220/380 V, 230/400 V and 240/415 V for 50 Hz low-voltage supply networks.
The supply nominal voltage should according to this standard not exceed the values 230/400 V + 6 %/-10 % during the transition period up to the year 2003.
Through these defined tolerances for the optional voltage of the networks, it is possible that 220/380 V rated electrical equipment, as indicated in DIN IEC 38, can be used safely until the end of their service life.
All the considerations indicated above should be used at the existing value of 380/660 V in light of the new value of 400/690 V.
Therefore, products that are tested, documented and labelled for 220/380 V have unlimited use in devices and installations for 230/400 V supply voltage until the end of the transition period.

DIN IEC 512 part 3: 05.94

Measurement and test procedures for electrical and mechanical components
Test 5b: Current carrying capacity (Derating curve)

DIN 43 652 part 1-3: 12.85 withdrawn

High-density connectors; square design

replaced by

DIN EN 175 301-801: 09.00

Detail Specification: High density rectangular connectors, round removable crimp contacts;
(German version EN 175 301-801: 1999)

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The indicated standards and regulations are considered for the development and manufacturing of our products, as applicable.

The installation instructions are also to be followed when installing our products in devices and systems.

New nominal supply voltages 30/400 V worldwide

Since the publication of standard IEC 38 in 1983, 230/400 V has replaced 220/380 V as international value for public low-voltage networks.

The supply nominal voltage should according to this standard not exceed the values 230/400 V + 6 %/–10 %, i.e. the range between 244 V and 207 V, during the transition period up to the year 2003.

Through these defined tolerances for the optional voltage of the networks, it is possible that 220/380 V rated electrical equipment, as indicated in DIN IEC 38, can be used safely until the end of their service life.

All the considerations indicated above should be used at the existing value of 380/660 V in light of the new value of 400/690 V.

DIN VDE 0106-100/VDE 0106 part 100: 03.83

(DIN 57106-100)

Protection of electric shock;

Actuating members positioned close to parts liable to shock (VDE Specification)

DIN VDE 0106-101/ VDE 106 part 101: 11.86

Protection against electric shock;

basic requirements for protective separation

DIN EN 50 178/VDE 0160/: 04.98

Equipping of power installations with electronic equipment

EN 50 005: 1976/DIN EN 50 005: 1977-07

Low voltage switchgear and controlgear for industrial use;

Terminal marking; General rules

IEC 60 038: 1983/DIN IEC 60 038: 1987-05

(DIN 40 002)

IEC standard voltages

IEC 60 127-2: 1989/EN 60 127-2: 1991/

DIN EN 60 127-2 1996-08

Miniature fuses; part 2: cartridge fuse-links

IEC 60 255/DIN VDE 0435

(1999-01)

Electrical relays; terms and definitions

DIN EN 60529 /VDE 0470 part 1: 09.00

(IEC 61529: 1989)

Protection categories by housing (IP code)

IEC 60 742: 1983 + A1/EN 60 742: 1995/

DIN EN 60 742/VDE 0551: 1995-09

Isolating transformers and safety isolating transformers – Requirements

DIN EN 60 068-2-1: 1995-03 Environmental testing

EN 600 68-2-1: 1985-08

IEC 600 68-2-1: 1990-04

Part 2: Tests; Tests A: Cold

DIN EN 60 068-2-2: 1994-08 Basic environmental testing procedures

EN 600 68-2-2: 1993-0

IEC 600 68-2-2

Part 2: Tests – Tests B: Dry heat

DIN EN 60 068-2-6: 1996-05 Environmental testing

EN 600 68-2-6: 1995-04/IEC 600 68-2-6: 1995-03

Part 2: Tests, Test Fc: Vibration (sinusoidal) (IEC 68-2-6: 1995 + Corrigendum 1995)
German version EN 60 068-2-6: 1995

DIN EN 60 068-2-32: 1995-03 Basic environmental testing procedures –

EN 600 68-2-32: 1993-04/IEC 600 68-2-32

Part 2: Tests; Test Ed: Free fall (IEC 68-2-32: 1975 + A1: 1982 + A2: 1990); German version EN 60 068-2-32: 1993

DIN EN 61 131-2/EN 61 131-2/

VDE 0411 part 500: 1995-05/IEC 61 131-2: 1992

Programmable controllers – Part 2: Equipment requirements and tests (IEC 61 131-2: 1992); German version
EN 61 131-2: 1994 + A11: 1996 + A12: 2000 + Corrigendum to EN 61 131-2: 1994 and its amendment A11: 1996

DIN EN 50 090-2-2/EN 50 090-2-2: 1996-06

VDE 0829 part 2-2: 1997-06

Home and building electronic systems (HBES) – Part 2-2: System overview – General technical requirements

DIN EN 50 170/2: 1997-07

EN 50 170: 1996-12

General purpose field communication system

EN 61 000-6-3 (2001-12) DIN EN 61 000-6-3/VDE 0839 part 6-3 (2001-12)

Electromagnetic compatibility (EMC) – Part 6-3: Generic standards; Emission standard for residential, commercial and light-industrial environments (IEC 61 000-6-3: 1996, modified)

EN 61 000-6-4 (2001-10) DIN EN 61 000-6-4/VDE 0839 part 6-4 (2001-12)

Electromagnetic compatibility (EMC) – Part 6-4: Generic standards; Emission standard for industrial environments, (IEC 61 000-6-4: 1997, modified); German version

EN 61 000-6-1 (2001-10) DIN EN 50 082-1/VDE 0839 part 82-1: 1997-11

Electromagnetic compatibility – Generic immunity standard – Part 1: Residential, commercial and light industry

IEC 61 000-6-2; 1999-01/EN 61 000-6-2 (2001-10)/DIN EN 61 000-6-2/

VDE 0839 part 6-2 (2001-12)

Electromagnetic compatibility (EMC) –
Part 6-2: Generic standards – Immunity for industrial environments (IEC 61 000-6-2: 1999)

IEC 61 000-4-2: 1995-01/EN 61 000-4-2: 1995-03/DIN EN 61 000-4-2/

VDE 0847 part 4-2: 2001-12

Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques – Section 2: Electrostatic discharge immunity test, Basic EMC Publication (IEC 1000-4-2: 1995); German version EN 61 000-4-2: 1995

IEC 61 000-4-3: 1995/EN 61 000-4-3: 1996/DIN EN 61 000-4-3/

VDE 0847 part 4-3: 2001-12

Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques –
Section 3: Radiated, radio-frequency electromagnetic field immunity test (IEC 1000-4-3: 1995, modified);
German version EN 61 000-4-3: 1996

IEC 61 000-4-4: 1995-01/EN 61 000-4-4: 1995-03/DIN EN 61 000-4-4/

VDE 0847 part 4-4: 2001-12

Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques –
Section 4: Electrical test transient/burst immunity test, Basic EMC Publication (IEC 1000-4-4: 1995);
German version EN 61 000-4-4: 1995

IEC 61 000-4-5: 1995-02/EN 61 000-4-5: 1995-03/DIN EN 61 000-4-5/

VDE 0847 part 4-5: 2001-12

Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques –
Section 5: Surge immunity test (IEC 1000-4-5: 1995);
German version EN 61 000-4-5: 1995

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IEC 61 000-4-6 1996-03; EN 61 000-4-6 1996-07;

DIN EN 61 000-4-6/VDE 0847 part 4-6 2001-12

Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques –
Section 6: Immunity to conducted disturbances, induced by radio-frequency fields (IEC 1000-4-6: 1996);
German version EN 61 000-4-6: 1996

IEC 61 000-4-11 (1994) EN 61 000-4-11 (1994-08)

DIN EN 61 000-4-11/VDE 0847 part 4-11

Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques –
Section 11: Voltages dips, short interruptions and voltages variations immunity tests (IEC 1000-4-11: 1994);
German version EN 61 000-4-11: 1994

IEC 61 000-4-15 (1997-11) EN 61 000-4-15 (1998-04)

DIN EN 61 000-4-15/VDE 0847 part 4-15 (1998-11)

Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques –
Section 15: Flickermeter – Functional and design specifications

IEC 61 000-3-3 (1994-12) EN 61 000-3-3 (1995-01)

DIN EN 61 000-3-3/VDE 0838 part 3 (1996-03)

Electromagnetic compatibility (EMC) – Part 3: Limits; section 3: Limitation of voltage fluctuations and
flicker in low-voltage supply systems for equipment with rated current $< \text{kleiner} \geq 16 \text{ A}$

IEC 61 000-3-2 (2000-08) EN 61 000-3-2 (1995-04)

DIN EN 61 000-3-2/VDE 0838 part 2 (1998-10)

Electromagnetic compatibility (EMC) – Part 3-2: Limits; Limits for harmonic current emissions
(equipment input current $< \text{kleiner} \geq 16 \text{ A}$ per phase)

EN 50 081-1 1992-01-00

DIN EN 50 081/VDE 0839 part 81-1 1993-03-00

Electromagnetic compatibility; generic emission standard; part 1: residential, commercial and light industry

DIN EN 55 011/VDE 0875 part 11: 2000-05

EN 55 011: 1998-03

IEC 60 255/DIN VDE 0435 (1999-01-00)

VDE 0551 = DIN EN 60742 (1995-09)

DIN EN 55 011/VDE 0875 part 11: 2000-05-00

Industrial, scientific and medical (ISM) radio-frequency equipment – Radio disturbance characteristics –
Limits and methods of measurement (IEC/CISPR 11: 1997, modified + A1: 1999);
German version EN 55 011: 1998 + A1: 1999

UL 94: 1996-10

Tests for flammability of plastic materials for parts in devices and appliances

VBG 4: 1979-04

Electric installation and equipment

COUNCIL DIRECTIVE

of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic
compatibility (89/336/EEC)

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List of approval and test institutes and test laboratories

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	AVK-TV	Arbeitsgemeinschaft Verstärkte Kunststoffe-Techn. Vereinigung e. V., Germany
BVS	BVS	Bergbau Versuchsstrecke (DMT), Germany
BSI	BSI	British Standards Institution, Great Britain
	BBJ	Biuro Badawcze ds. Jakosci, Poland
BV	BV	Bureau Veritas, France
	CSA	Canadian Standards Association, Canada
	CCA	CCA-NTR, CENELEC CERTIFICATION AGREEMENT-
	AU	Chief Electrical Inspector, Victoria, Australia
	CEBEC	Comite Electrotechnique Belge, Belgium
	DEMKO	Danmarks Elektriske Materielkontrol, Denmark
	DNV	Det Norske Veritas, Norway
	AU-DFT	Department of Fair Trading, NSW Consumer Protection Agency, Australia
EPM	EPM	Elektrisches Prüfamt München, Germany
	ESTI	Eidgenössisches Starkstrominspektorat, Switzerland
EIB	EIBA	European Installation Bus Association sc , Belgium
	ELMAC	EMV Labor J. Bühne, Germany
	FIMKO	Electrical Inspectorate, Finland
	EZU	Electrotechnical Testing Institute, Czech Republic
	DQS	Frankfurt, Germany
	GL	Germanischer Lloyd, Germany
	GS	Geprüfte Sicherheit, Germany
	EMCC	Ingenieurbüro EMCC Dr. Rasek, Germany
	MY-JBP	IBU Pejabat, Jabatan Bomba dan Penyelamat, Malaysia
	IMQ	Instituto Italiano del Marchio di Qualita, Italy
	KEMA	Keuring van Elektrotechnische Materialen, Netherlands, KEMA-ATEX
	IEL-Pr.Ber	Laboratorium Badawcze Oddz. Instyt. Elektrotechn. w Gdansku, Poland
LCIE	LCIE-EEX	Laboratoire Central des Industries Electriques, France
	LGA	Landesgewerbeanstalt Bayern, Germany
LCIE-PrBer	LCIE-PrBer	LCIE-Prüfbericht, France
LR	LR	Lloyd's Register of Shipping, Great Britain

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MEEI Magyar Elektrotechnikai Ellenoerzoe Intezet, Hungary



NEMKO Norges Elektriske Materiellkontroll, Norway



ÖVE Österreichischer Verband für Elektrotechnik, Austria

PTB

PTB Physikalisch-Technische Bundesanstalt, Germany

BGFE Prüf-u. Zert.stelle der Berufsgen. der Feinmech. u. Elektrt., Germany

RINA

RINA Registro Italiano Navale, Italy

Belstandart White Russia

BKI-EEx

BKI-EEx Robbanasbiztos Villamos Berendezesek Vizsgalo Allomasa, Hungary

GOST R Russian Federation

Russ. Reg. Russ. Reg. of Shipping, Russia



SEV Schweizerischer Elektrotechnischer Verein, Switzerland

EMV-SIE Siemens AG, AUT GT 6, Germany

SEV-EEx

SEV-EEx SEV Ex-Labor „Explosionsschutz“, Switzerland



SKTC Slovak Testing Centre, Elektrotechnicky ustav a.s., Slovakia

SIQ Slovenian Institute of Quality and Metrology, Slovenia

MPA Staatliche Materialprüfungsanstalt Darmstadt, Germany



SEMKO Svenska Elektriska Materielkontrollanstalten, Sweden

TÜV

TÜV Technischer Überwachungsverein, Germany

ASTA

ASTA The Association of Short Circuit Testing Authorityties, Great Britain

Ukrdershst Ukrdershstandart, Ukraine



ULlist Underwriters Laboratories Inc.(UL Listed), USA



ULrec Underwriters Laboratories Inc.(UL Recogn.), USA

UTE Union Technique de l'Electricite, France



VDE-UG VDE Gutachten mit Fertigungsüberwachung, Germany

VDE-PB VDE Pruefbericht zur Information des Herstellers, Germany



VDE Verband Deutscher Elektrotechniker e.V., Germany

ZIK Zavod za Ispitivanje Kvalitete robe, Croatia

Approval marks for "special tests"



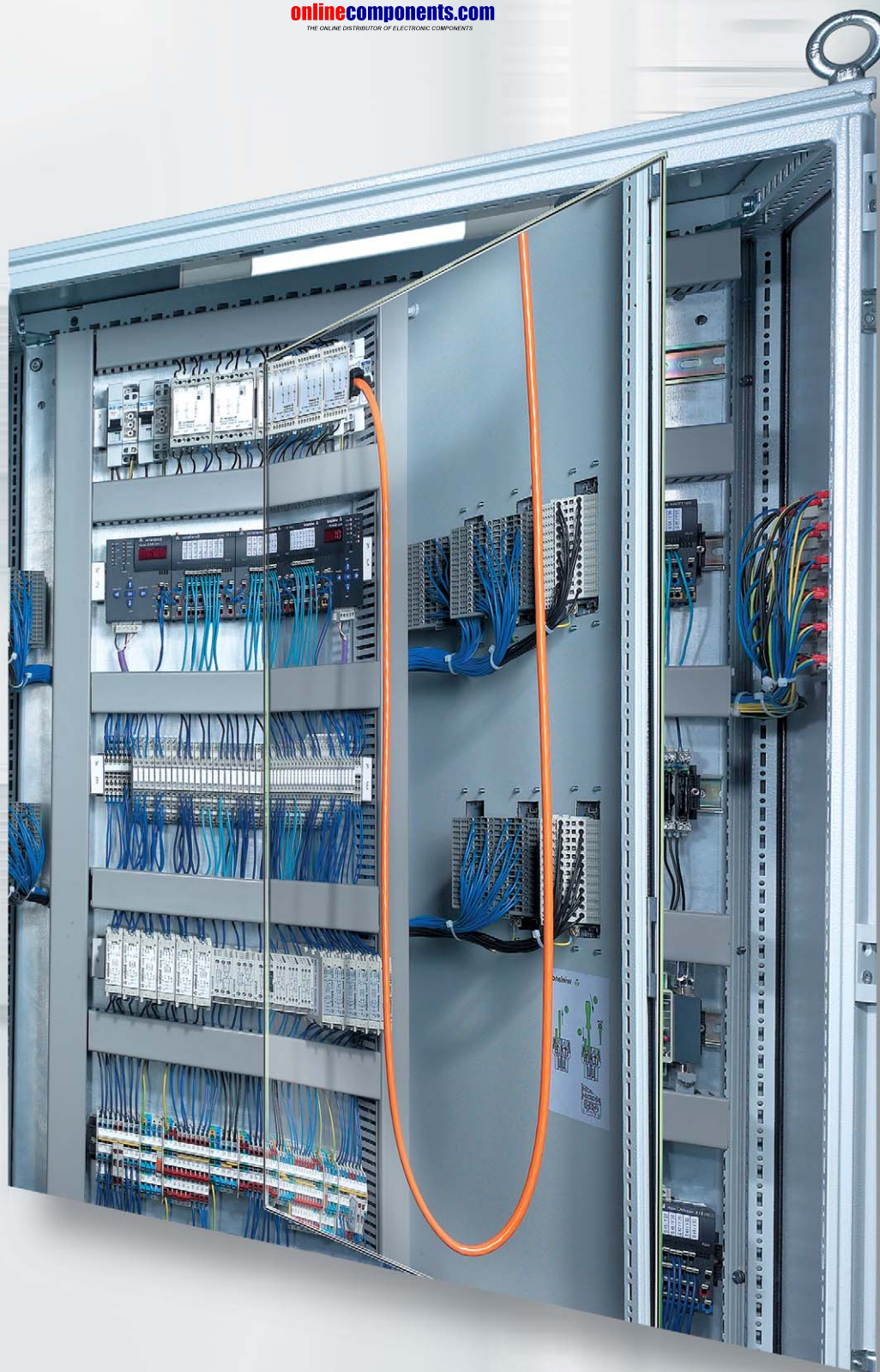
C UR US Underwr. Lab. Inc.(C-UL Recogn.-US), USA/Canada



C UL US Underwr. Lab. Inc.(C-UL Listed-US), USA/Canada

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.5 BIS 13,5 MM	Z2.803.0328.0	210	16E / 10	21.340.6053.0	259	35X27X7.5 EN 60715 2M	98.300.0000.0	20
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0,2-0,56 QMM	05.544.0929.0	683	1X15P STECKER LOET	Z7.415.1035.0	756	4E / 1	21.304.0153.0	257
0,5-0,15 QMM	02.124.1000.0	683	1X25+1X15P BUCHSE LOET	Z7.415.1810.0	756	4E / 1 DS	21.305.0153.0	257
0,5-1,5 QMM	02.124.1029.0	683	1X25+1X15P STECKER LOET	Z7.415.2135.0	756	4E / 2	21.304.0253.0	257
0,5-1,5 QMM	05.544.1000.0	683	1X25P BUCHSE LOET	Z7.415.1610.0	756	4E / 2 DS	21.305.0253.0	257
0,5-1,5 QMM	05.544.1029.0	683	1X25P STECKER LOET	Z7.415.1935.0	756	4E / 3	21.304.0353.0	257
0,5-1,5 QMM VERGOLDET	02.124.1400.0	683	1X37P BUCHSE LOET	Z7.415.2410.0	756	4E / 3 DS	21.305.0353.0	257
0,5-1,5 QMM VERGOLDET	02.124.1429.0	683	1X37P STECKER LOET	Z7.415.2635.0	756	4E / 4	21.304.0453.0	257
0,5-1,5 QMM VERGOLDET	05.544.1400.0	683	1X50P BUCHSE LOET	Z7.415.3210.0	756	4E / 4 DS	21.305.0453.0	257
0,5-1,5 QNN VERGOLDET	05.544.1429.0	683	1X50P STECKER LOET	Z7.415.3335.0	756	4E / 5	21.304.0553.0	257
1027	14.230.0270.0	262	2 DIN 46284 ST	14.210.0270.0	262	4E / 5 DS	21.305.0553.0	257
1029	14.220.0370.0	262	2,5 BIS 16,5 MM	14.211.0270.0	262	4E / 6	21.304.0653.0	257
1031	14.220.0270.0	262	2,08 GELB	05.596.6127.0	797	4E / 6 DS	21.305.0653.0	257
1032	14.200.0270.0	262	2,5 BIS 16,5 MM	Z2.803.0428.0	210	4E / 7	21.304.0753.0	257
1032 DS	14.201.0270.0	262	2072 / 2	Z7.220.0227.0	141	4E / 7 DS	21.305.0753.0	257
1032 M 3,5	14.200.1270.0	262	2072 / 3	Z7.220.0327.0	164	4E / 8	21.304.0853.0	257
1033	14.200.0370.0	262	2072 / 4	Z7.220.0427.0	164	4E / 8 DS	21.305.0853.0	257
1033 DS	14.201.0370.0	262	2072 / 5	Z7.220.0527.0	164	4E / 9	21.304.0953.0	257
1033 A	14.200.0470.0	262	2072 / 6	Z7.220.0627.0	141	4E / 9 DS	21.305.0953.0	257
1033 A DS	14.201.0470.0	262	2072 M	Z7.210.1027.0	164	4E / 10	21.304.1053.0	257
1033 A M 3,5	14.200.1470.0	262	20A	05.595.6400.0	128	4E / 10 DS	21.305.1053.0	257
1033 AP KR	14.290.0440.0	262	20E	21.340.4253.0	259	4E / 11	21.304.1153.0	257
1033 AP DS KR	14.291.0440.0	262	20E / 1	21.340.3153.0	259	4E / 11 DS	21.305.1153.0	257
1033 M 3,5	14.200.1370.0	262	20E / 1 DS	21.341.3153.0	259	4E DS	21.305.1253.0	257
1036 R	05.590.3121.0	263	20E / 2	21.340.3253.0	259	4Q DC24V 2A	99.801.3900.0	538
1038 A	30.400.0675.0	263	20E / 2 DS	21.341.3253.0	259	50A	05.595.6700.0	128
1038 A DS	30.401.0475.0	263	20E / 3	21.340.3353.0	259	513 S / 13 W	25.647.1353.0	284
1038 B	30.400.1075.0	263	20E / 3 DS	21.341.3353.0	259	547	14.100.0170.0	261
1038 B DS	30.401.0675.0	263	20E / 4	21.340.3453.0	259	548	14.100.0270.0	261
1038 C	30.400.1675.0	263	20E / 4 DS	21.341.3453.0	259	549	14.100.0370.0	261
1038 C DS	30.401.1075.0	263	20E / 5	21.340.3553.0	259	6 X 6 1000MM	98.325.1000.0	216
1039 M	98.060.0000.0	263	20E / 5 DS	21.341.3553.0	259	6 X 6 2000MM	98.320.0000.0	216
1039 W	05.522.0725.0	263	20E / 6	21.340.3653.0	259	6/10/16 Gehäuse-UT	Z5.574.0053.0	782
10A	05.595.6200.0	128	20E / 6 DS	21.341.3653.0	259	6A	05.595.6100.0	128
10A	05.595.9500.0	128	20E / 7	21.340.3753.0	259	6A	05.595.9400.0	128
10E	21.330.6253.0	259	20E / 7 DS	21.341.3753.0	259	6E	21.310.1253.0	258
10E / 1	21.330.5153.0	259	20E / 8	21.340.3853.0	259	6E / 1	21.310.0153.0	258
10E / 1 DS	21.331.5153.0	259	20E / 8 DS	21.341.3853.0	259	6E / 1 DS	21.311.0153.0	258
10E / 2	21.330.5253.0	259	20E / 9	21.340.3953.0	259	6E / 2	21.310.0253.0	258
10E / 2 BZ	04.070.0280.0	260	20E / 9 DS	21.341.3953.0	259	6E / 2 DS	21.311.0253.0	258
10E / 2 DS	21.331.5253.0	259	20E / 10	21.340.4053.0	259	6E / 3	21.310.0353.0	258
10E / 3	21.330.5353.0	259	20E / 10 DS	21.341.4053.0	259	6E / 3 DS	21.311.0353.0	258
10E / 3 BZ	04.070.0380.0	260	20E DS	21.341.4253.0	259	6E / 4	21.310.0453.0	258
10E / 3 DS	21.331.5353.0	259	2163	Z5.522.1923.0	215	6E / 4 DS	21.311.0453.0	258
10E / 4	21.330.5453.0	259	220 V AC 1 SCHLISSER	Z5.800.0353.0	450	6E / 5 DS	21.311.0553.0	258
10E / 4 BZ	04.070.0480.0	260	24 Gehäuse-UT	Z5.574.0153.0	782	6E / 6	21.310.0653.0	258
10E / 4 DS	21.331.5453.0	259	24 V 1 SCHLISSER	Z5.800.0053.0	448	6E / 6 DS	21.311.0653.0	258
10E / 5	21.330.5553.0	259	24 V 2 UMSCHALTER	57.800.7053.0	449	6E / 7	21.310.0753.0	258
10E / 5 BZ	04.070.0580.0	260	24 VDC 1W	Z8.000.0056.9	454	6E / 7 DS	21.311.0753.0	258
10E / 5 DS	21.331.5553.0	259	24 VDC 2W	Z8.000.0035.5	455	6E / 8	21.310.0853.0	258
10E / 6	21.330.5653.0	259	24/4BV 1 UMSCHALTER	57.800.5053.0	448	6E / 8 DS	21.311.0853.0	258
10E / 6 BZ	04.070.0680.0	260	25A	05.595.6500.0	128	6E / 9	21.310.0953.0	258
10E / 6 DS	21.331.5653.0	259	2A	05.595.5900.0	128	6E / 9 DS	21.311.0953.0	258
10E / 7	21.330.5753.0	259	2A	05.595.9200.0	128	6E / 10	21.310.1053.0	258
10E / 7 DS	21.331.5753.0	259	2X 9P BUCHSE LOET	Z7.415.0110.0	756	6E / 10 DS	21.311.1053.0	258
10E / 8	21.330.5853.0	259	2X 9P STECKER LOET	Z7.415.0335.0	756	6E DS	21.311.1253.0	258
10E / 8 DS	21.331.5853.0	259	2X15P BUCHSE LOET	Z7.415.0910.0	756	6E H	21.312.1253.0	257
10E / 9	21.330.5953.0	259	2X15P STECKER LOET	Z7.415.1135.0	756	6E H / 1	21.312.0153.0	257
10E / 9 DS	21.331.5953.0	259	2X25P BUCHSE LOET	Z7.415.1710.0	756	6E H / 1 DS	21.313.0153.0	257
10E / M BZ	04.070.1380.0	260	2X25P STECKER LOET	Z7.415.2035.0	756	6E H / 2	21.312.0253.0	257
10E / 10	21.330.6053.0	259	2X37P BUCHSE LOET	Z7.415.2510.0	756	6E H / 2 DS	21.313.0253.0	257
10E / 10 DS	21.331.6053.0	259	2X37P STECKER LOET	Z7.415.2735.0	756	6E H / 3	21.312.0353.0	257
10E / 12 BZ	04.070.1280.0	260	2X50P BUCHSE LOET	Z7.415.3410.0	756	6E H / 3 DS	21.313.0353.0	257
10E / 12 DBZ	04.071.1280.0	260	2X50P STECKER LOET	Z7.415.3535.0	756	6E H / 4	21.312.0453.0	257
10E DS	21.331.6253.0	259	3 DIN 46284 ST	14.210.0370.0	262	6E H / 4 DS	21.313.0453.0	257
110 VDC 1W	Z8.000.0181.0	456	3 D DIN 46284 ST	14.211.0370.0	262	6E H / 5	21.312.0553.0	257
110 VDC 2W	Z8.000.0176.2	458	300	90.100.0554.0	182	6E H / 5 DS	21.313.0553.0	257
110/220V 1 UMSCHALTER	57.800.5153.0	450	300 / 9708 / 2 S35	69.920.0553.0	47	6E H / 6	21.312.0653.0	257
111...BIS 000...	04.841.9050.0	395	300 B	90.100.1154.0	182	6E H / 6 DS	21.313.0653.0	257
111...BIS 000...	04.841.9050.0	791	300 B K	90.100.1354.0	182	6E H / 7	21.312.0753.0	257
111...BIS 000...	04.841.9050.0	181	300 K	90.100.1254.0	182	6E H / 7 DS	21.313.0753.0	257
13 BFK / 4 TOP K OB	25.840.3453.0	292	301	90.100.0754.0	182	6E H / 8	21.312.0853.0	257
134 / 14	25.500.1453.0	360	301 K	90.100.1454.0	182	6E H / 8 DS	21.313.0853.0	257
16,0 BIS 24,0 MM	Z2.803.1628.0	212	303	90.100.0854.0	182	6E H / 9	21.312.0953.0	257
16A	05.595.6300.0	128	303 K	90.100.1554.0	182	6E H / 9 DS	21.313.0953.0	257
16E	21.340.6253.0	259	305	90.100.1054.0	182	6E H / 10	21.312.1053.0	257
16E / 1	21.340.5153.0	259	305 K	90.100.1654.0	182	6E H / 10 DS	21.313.1053.0	257
16E / 1 DS	21.341.5153.0	259	315 E	05.590.0052.0	182	6E H / 11	21.312.1153.0	257
16E / 2	21.340.5253.0	259	315 GC	90.811.3055.0	182	6E H / 11 DS	21.313.1153.0	257
16E / 2 BZ	04.090.0280.0	260	315 GK	90.810.3055.0	182	6E H DS	21.313.1253.0	257
16E / 2 DS	21.341.5253.0	259	319 / 13,5 K ELFB.	90.800.1055.8	182	6E SONDERA.	99.262.3521.9	258
16E / 3	21.340.5353.0	259	319 / 13,5 K SCHW.	90.800.1055.1	182	6E SONDERA.	99.263.3521.9	258
16E / 3 BZ	04.090.0380.0	260	319 / 17,5 K ELFB.	90.800.2055.8	182	6E SONDERA.	99.264.3521.9	258
16E / 3 DS	21.341.5353.0	259	319 / 17,5 K SCHW.	90.800.2055.1	182	6E SONDERA.	99.265.3521.9	258
16E / 4	21.340.5453.0	259	35 X 24 X 15 EN 60715	98.360.0000.0	584	6E SONDERA.	99.266.3521.9	258
16E / 4 BZ	04.090.0480.0	260	35 X 24 X 15 EN 60715	98.360.0000.0	803	6E SONDERA.	99.267.3521.9	258
16E / 4 DS	21.341.5453.0	259	35 X 24 X 15 EN 60715	98.360.0000.0	308	6E SONDERA.	99.268.3521.9	258
16E / 5	21.340.5553.0	259	35 X 24 X 15 EN 60715	98.360.0000.0	20	6E SONDERA.	99.270.3521.9	258
16E / 5 BZ	04.090.0580.0	260	35 X 27 X 15	98.370.0000.0	38	6ES	22.310.1253.0	258
16E / 5 DS	21.341.5553.0	259	35 X 27 X 15	98.370.0000.0	803	6ES / 1	22.310.0153.0	258
16E / 6	21.340.5653.0	259	35 X 27 X 15 GELOCHT 1M	98.375.1000.0	803	6ES / 2	22.310.0253.0	258
16E / 6 BZ	04.090.0680.0	260	35 X 27 X 15 GELOCHT 2M	98.370.1000.0	46	6ES / 3	22.310.0353.0	258
16E / 6 DS	21.341.5653.0	259	35 X 27 X 15 GELOCHT 2M	98.370.1000.0				

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7572 L2 / 5 / 3 OB	27.002.4353.0	377	8105 B / 7 C0 VL OB	15.010.0753.0	383	8113 B / 6 F OB	25.322.3653.0	286
7572 L4 / 2 OB	27.002.0253.0	376	8105 B / 7 C0 VR OB	15.020.0753.0	382	8113 B / 6 OB	25.320.3653.0	286
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8006 M BZ	04.030.1180.0	260	8105 F / 2 G C4 OB NT	15.304.0258.9	383	8113 B / 7 F OB	25.322.3753.0	286
8016 / 2 BZ	04.080.0080.0	260	8105 F / 2 G C5 OB NT	15.305.0258.9	383	8113 B / 7 OB	25.320.3753.0	286
8016 / 3 BZ	04.080.0180.0	260	8105 F / 2 G C6 OB NT	15.306.0258.9	383	8113 B / 7 TOP	25.220.0753.0	296
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8016 / 12 BZ	04.080.1080.0	260	8105 F / 2 W C3 OB NT	15.313.0258.9	383	8113 B / 7 VL OB	25.326.3753.0	289
8016 M BZ	04.080.1180.0	260	8105 F / 2 W C4 OB NT	15.314.0258.9	383	8113 B / 7 VR	25.325.3753.0	289
8105 B / 2 C5 VR OB	15.025.0253.0	382	8105 F / 2 W C5 OB NT	15.315.0258.9	383	8113 B / 7 VR OB	25.325.3753.0	289
8105 B / 2 C0 OB	15.000.0253.0	382	8105 F / 2 W C6 OB NT	15.316.0258.9	383	8113 B / 8	25.320.0853.0	286
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8105 B / 2 C0 VR OB	15.020.0253.0	382	8105 F / 3 G C2 OB NT	15.302.0358.9	383	8113 B / 8 F OB	25.322.3853.0	286
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8105 B / 2 C2 OB	15.002.0253.0	382	8105 F / 3 G C6 OB NT	15.306.0358.9	383	8113 B / 8 TOP OB	25.220.3853.0	296
8105 B / 2 C2 VL OB GR	15.012.0253.0	383	8105 F / 3 G C7 OB NT	15.307.0358.9	383	8113 B / 8 VL	25.326.0853.0	289
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8105 B / 2 C3 VL OB	15.013.0253.0	383	8105 F / 3 W C3 OB NT	15.313.0358.9	383	8113 B / 8 VR OB	25.325.3853.0	289
8105 B / 2 C3 VR OB	15.023.0253.0	382	8105 F / 3 W C4 OB NT	15.314.0358.9	383	8113 B / 9	25.320.0953.0	286
8105 B / 2 C4 OB	15.004.0253.0	382	8105 F / 3 W C5 OB NT	15.315.0358.9	383	8113 B / 9 F	25.322.0953.0	286
8105 B / 2 C4 VL OB	15.014.0253.0	383	8105 F / 3 W C6 OB NT	15.316.0358.9	383	8113 B / 9 F OB	25.322.3953.0	286
8105 B / 2 C4 VR OB GR	15.024.0253.0	382	8105 F / 3 W C7 OB NT	15.317.0358.9	383	8113 B / 9 OB	25.320.3953.0	286
8105 B / 2 C5 OB	15.005.0253.0	382	8105 F / 4 G C1 OB NT	15.301.0458.9	383	8113 B / 9 TOP	25.220.0953.0	296
8105 B / 2 C5 VL OB	15.015.0253.0	383	8105 F / 4 G C2 OB NT	15.302.0458.9	383	8113 B / 9 TOP LED OB	25.230.3953.0	296
8105 B / 2 C5 VR OB	15.026.0253.0	382	8105 F / 4 G C3 OB NT	15.303.0458.9	383	8113 B / 9 TOP OB	25.220.3953.0	296
8105 B / 2 C6 OB	15.016.0253.0	383	8105 F / 4 G C4 OB NT	15.304.0458.9	383	8113 B / 9 VL	25.326.0953.0	289
8105 B / 2 C6 VR OB	15.026.0253.0	382	8105 F / 4 G C5 OB NT	15.305.0458.9	383	8113 B / 9 VL OB	25.326.3953.0	289
8105 B / 2 C7 OB	15.007.0253.0	382	8105 F / 4 G C6 OB NT	15.306.0458.9	383	8113 B / 9 VR	25.325.0953.0	289
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8105 B / 2 C7 VR OB GR	15.027.0253.0	382	8105 F / 4 W C2 OB NT	15.312.0458.9	383	8113 B / 10	25.320.1053.0	286
8105 B / 3 C0 OB	15.000.0353.0	382	8105 F / 4 W C3 OB NT	15.313.0458.9	383	8113 B / 10 F	25.322.1053.0	286
8105 B / 3 C0 VL OB	15.010.0353.0	383	8105 F / 4 W C4 OB NT	15.314.0458.9	383	8113 B / 10 F OB	25.322.4053.0	286
8105 B / 3 C0 VR OB	15.020.0353.0	382	8105 F / 4 W C5 OB NT	15.315.0458.9	383	8113 B / 10 OB	25.320.4053.0	286
8105 B / 3 C1 OB	15.001.0353.0	382	8105 F / 4 W C6 OB NT	15.316.0458.9	383	8113 B / 10 TOP	25.220.1053.0	296
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8105 B / 3 C1 VR OB	15.021.0353.0	382	8105 F / 5 G C2 OB NT	15.302.0558.9	383	8113 B / 10 TOP OB	25.220.4053.0	296
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8113 BFK / 5 TOP K OB	25.820.0553.0	292	8113 S / 5 S1 OB	25.395.3553.0	302	8134 / 2 ZN	25.500.6253.0	360
8113 BFK / 5 TOP K OB	25.820.3553.0	37	8113 S / 5 W OB	25.332.3553.0	298	8134 / 2 ZN OB	25.501.6253.0	360
8113 BFK / 6 TOP K	25.820.0653.0	292	8113 S / 5 W OB GR OF	99.265.9996.0	299	8134 / 3	25.500.0353.0	360
8113 BFK / 6 TOP K OB	25.820.0653.0	37	8113 S / 5 WF OB	25.339.3553.0	299	8134 / 3 OB	25.501.0353.0	360
8113 BFK / 6 TOP K OB	25.820.3653.0	292	8113 S / 6 G OB	25.330.3653.0	297	8134 / 3 ZN	25.500.6353.0	360
8113 BFK / 6 TOP K OB	25.820.3653.0	37	8113 S / 6 OB GR OF	99.206.9996.0	297	8134 / 3 ZN OB	25.501.6353.0	360
8113 BFK / 7 TOP K	25.820.0753.0	37	8113 S / 6 GF OB	25.338.3653.0	298	8134 / 4	25.500.0453.0	360
8113 BFK / 7 TOP K OB	25.820.0753.0	292	8113 S / 6 S OB GR	25.394.3653.0	302	8134 / 4 OB	25.501.0453.0	360
8113 BFK / 7 TOP K OB	25.820.3753.0	37	8113 S / 6 S1 OB	25.395.3653.0	302	8134 / 5	25.500.0553.0	360
8113 BFK / 7 TOP K OB	25.820.3753.0	292	8113 S / 6 W OB	25.332.3653.0	298	8134 / 5 OB	25.501.0553.0	360
8113 BFK / 8 TOP K	25.820.0853.0	37	8113 S / 6 W OB GR OF	99.266.9996.0	299	8134 / 6	25.500.0653.0	360
8113 BFK / 8 TOP K OB	25.820.0853.0	292	8113 S / 6 WF OB	25.339.3653.0	299	8134 / 6 OB	25.501.0653.0	360
8113 BFK / 8 TOP K OB	25.820.3853.0	292	8113 S / 7 G OB	25.330.3753.0	297	8134 / 7	25.500.0753.0	360
8113 BFK / 8 TOP K OB	25.820.3853.0	37	8113 S / 7 G OB GR OF	99.207.9996.0	297	8134 / 7 OB	25.501.0753.0	360
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8113 BFK / 9 TOP K OB	25.820.0953.0	292	8113 S / 7 S OB GR	25.394.3753.0	302	8134 / 8 OB	25.501.0853.0	360
8113 BFK / 9 TOP K OB	25.820.3953.0	292	8113 S / 7 S1 OB	25.395.3753.0	302	8134 / 9	25.500.0953.0	360
8113 BFK / 9 TOP K OB	25.820.3953.0	292	8113 S / 7 W OB	25.332.3753.0	298	8134 / 9 OB	25.501.0953.0	360
8113 BFK / 10 TOP K	25.820.1053.0	37	8113 S / 7 W OB GR OF	99.267.9996.0	299	8134 / 10	25.500.1053.0	360
8113 BFK / 10 TOP K OB	25.820.1053.0	292	8113 S / 7 WF OB	25.339.3753.0	299	8134 / 10 OB	25.501.1053.0	360
8113 BFK / 10 TOP K OB	25.820.4053.0	292	8113 S / 8 G OB	25.330.3853.0	297	8134 / 11	25.500.1153.0	360
8113 BFK / 10 TOP K OB	25.820.4053.0	37	8113 S / 8 G OB GR OF	99.208.9996.0	297	8134 / 11 OB	25.501.1153.0	360
8113 BFK / 11 TOP K	25.820.1153.0	37	8113 S / 8 GF OB	25.338.3853.0	298	8134 / 12	25.500.1253.0	360
8113 BFK / 11 TOP K OB	25.820.1153.0	292	8113 S / 8 S OB GR	25.394.3853.0	302	8134 / 12 OB	25.501.1253.0	360
8113 BFK / 11 TOP K OB	25.820.4153.0	292	8113 S / 8 S1 OB	25.395.3853.0	302	8134 / 13	25.500.1353.0	360
8113 BFK / 11 TOP K OB	25.820.4153.0	37	8113 S / 8 W OB	25.332.3853.0	298	8134 / 13 OB	25.501.1353.0	360
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8113 BFK / 12 TOP K OB	25.820.4253.0	37	8113 S / 9 G OB GR OF	99.209.9996.0	297	8134 / 16	25.500.1653.0	360
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8113 BFK / 13 TOP K OB	25.820.1353.0	292	8113 S / 9 S OB GR	25.394.3953.0	302	8135 / 2	25.520.0253.0	362
8113 BFK / 13 TOP K OB	25.820.4353.0	37	8113 S / 9 S1 OB	25.395.3953.0	302	8135 / 2 OB	25.521.0253.0	362
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8113 BFK / 14 TOP K	25.820.1453.0	37	8113 S / 9 W OB GR OF	99.269.9996.0	299	8135 / 2 ZN OB	25.521.6253.0	362
8113 BFK / 14 TOP K OB	25.820.1453.0	292	8113 S / 10 G OB	25.339.3953.0	299	8135 / 3	25.520.0353.0	362
8113 BFK / 14 TOP K OB	25.820.4453.0	292	8113 S / 10 G OB GR OF	25.330.4053.0	297	8135 / 3 OB	25.521.0353.0	362
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8113 BFK / 15 TOP K OB	25.820.1553.0	292	8113 S / 10 S OB GR	25.338.4053.0	298	8135 / 4	25.521.6353.0	362
8113 BFK / 15 TOP K OB	25.820.4553.0	292	8113 S / 10 S1 OB	25.394.4053.0	302	8135 / 4 OB	25.520.0453.0	362
8113 BFK / 15 TOP K OB	25.820.4553.0	37	8113 S / 10 W OB	25.395.4053.0	302	8135 / 4 OB	25.521.0453.0	362
8113 BFK / 16 TOP K	25.820.1653.0	37	8113 S / 10 W OB GR OF	99.270.9996.0	299	8135 / 5	25.520.0553.0	362
8113 BFK / 16 TOP K OB	25.820.1653.0	292	8113 S / 10 WF OB	25.339.4053.0	299	8135 / 5 OB	25.521.0553.0	362
8113 BFK / 16 TOP K OB	25.820.4653.0	37	8113 S / 11 G OB	25.330.4153.0	297	8135 / 6	25.520.0653.0	362
8113 BFK / 16 TOP K OB	25.820.4653.0	292	8113 S / 11 G OB GR OF	99.211.9996.0	297	8135 / 6 OB	25.521.0653.0	362
8113 BK / 2	01.060.0253.0	291	8113 S / 11 GF OB	25.338.4153.0	298	8135 / 7	25.520.0753.0	362
8113 BK / 2 OB	01.060.3253.0	291	8113 S / 11 S OB GR	25.394.4153.0	302	8135 / 7 OB	25.521.0753.0	362
8113 BK / 3	01.060.0353.0	291	8113 S / 11 S1 OB	25.395.4153.0	302	8135 / 8	25.520.0853.0	362
8113 BK / 3 OB	01.060.3353.0	291	8113 S / 11 W OB	25.332.4153.0	298	8135 / 8 OB	25.521.0853.0	362
8113 BK / 4	01.060.0453.0	291	8113 S / 11 W OB GR OF	99.271.9996.0	299	8135 / 9	25.520.0953.0	362
8113 BK / 4 OB	01.060.3453.0	291	8113 S / 11 WF OB	25.339.4153.0	299	8135 / 9 OB	25.521.0953.0	362
8113 BK / 5	01.060.0553.0	291	8113 S / 12 G OB	25.330.4253.0	297	8135 / 10	25.520.1053.0	362
8113 BK / 5 OB	01.060.3553.0	291	8113 S / 12 G OB GR OF	99.212.9996.0	297	8135 / 10 OB	25.521.1053.0	362
8113 BK / 6	01.060.0653.0	291	8113 S / 12 GF OB	25.338.4253.0	298	8135 / 11	25.520.1153.0	362
8113 BK / 6 OB	01.060.3653.0	291	8113 S / 12 S OB GR	25.394.4253.0	302	8135 / 11 OB	25.521.1153.0	362
8113 BK / 7	01.060.0753.0	291	8113 S / 12 S1 OB GR	25.395.4253.0	302	8135 / 12	25.520.1253.0	362
8113 BK / 7 OB	01.060.3753.0	291	8113 S / 12 W OB	25.332.4253.0	298	8135 / 12 OB	25.521.1253.0	362
8113 BK / 8	01.060.0853.0	291	8113 S / 12 W OB GR OF	99.272.9996.0	299	8135 / 13	25.520.1353.0	362
8113 BK / 8 OB	01.060.3853.0	291	8113 S / 12 WF OB	25.339.4253.0	299	8135 / 13 OB	25.521.1353.0	362
8113 BK / 9	01.060.0953.0	291	8113 S / 13 G OB	25.330.4353.0	297	8135 / 14	25.520.1453.0	362
8113 BK / 9 OB	01.060.3953.0	291	8113 S / 13 G OB GR OF	99.213.9996.0	297	8135 / 14 OB	25.521.1453.0	362
8113 BK / 10	01.060.1053.0	291	8113 S / 13 GF OB	25.338.4353.0	298	8135 / 15	25.520.1553.0	362
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8142 / 6 OB	25.602.2653.0	318	8190 / 5 OB	25.131.0553.0	358	8191 / 6 ZW	25.160.6653.0	345
8142 / 6 / 3	25.601.1353.0	318	8190 / 6	25.130.0653.0	358	8191 / 6 ZW OB	25.161.6653.0	345
8142 / 6 / 3 OB	25.603.1353.0	318	8190 / 6 / 3	25.132.0353.0	358	8191 / 7	25.160.0753.0	344
8142 / 7	25.600.2753.0	318	8190 / 6 / 3 OB	25.133.0353.0	358	8191 / 7 OB	25.161.0753.0	344
8142 / 7 OB	25.602.2753.0	318	8190 / 6 OB	25.131.0653.0	358	8191 / 7 ZW	25.160.6753.0	345
8142 / 8	25.600.2853.0	318	8190 / 7	25.130.0753.0	358	8191 / 7 ZW OB	25.161.6753.0	345
8142 / 8 OB	25.602.2853.0	318	8190 / 7 OB	25.131.0753.0	358	8191 / 8	25.160.0853.0	344
8142 / 8 / 4	25.601.1453.0	318	8190 / 8	25.130.0853.0	358	8191 / 8 OB	25.161.0853.0	344
8142 / 8 / 4 OB	25.603.1453.0	318	8190 / 8 / 4	25.132.0453.0	358	8191 / 8 ZW	25.160.6853.0	345
8142 / 9 OB	25.602.2953.0	318	8190 / 8 / 4 OB	25.133.0453.0	358	8191 / 8 ZW OB	25.161.6853.0	345
8142 / 10	25.600.3053.0	318	8190 / 8 OB	25.131.0853.0	358	8191 / 9	25.160.0953.0	344
8142 / 10 OB	25.602.3053.0	318	8190 / 9	25.130.0953.0	358	8191 / 9 OB	25.161.0953.0	344
8142 / 10 / 5	25.601.1553.0	318	8190 / 9 OB	25.131.0953.0	358	8191 / 9 ZW	25.160.6953.0	345
8142 / 10 / 5 OB	25.603.1553.0	318	8190 / 10	25.130.1053.0	358	8191 / 9 ZW OB	25.161.6953.0	345
8142 / 11	25.600.3153.0	318	8190 / 10 / 5	25.132.0553.0	358	8191 / 10	25.160.1053.0	344
8142 / 11 OB	25.602.3153.0	318	8190 / 10 / 5 OB	25.133.0553.0	358	8191 / 10 OB	25.161.1053.0	344
8142 / 12	25.600.3253.0	318	8190 / 10 OB	25.131.1053.0	358	8191 / 10 ZW	25.160.7053.0	345
8142 / 12 OB	25.602.3253.0	318	8190 / 11	25.130.1153.0	358	8191 / 10 ZW OB	25.161.7053.0	345
8142 / 12 / 6	25.601.1653.0	318	8190 / 11 OB	25.131.1153.0	358	8191 / 11	25.160.1153.0	344
8142 / 12 / 6 OB	25.603.1653.0	318	8190 / 12	25.130.1253.0	358	8191 / 11 OB	25.161.1153.0	344
8142 / 13	25.600.3353.0	318	8190 / 12 / 6	25.132.0653.0	358	8191 / 11 ZW	25.160.7153.0	345
8142 / 13 OB	25.602.3353.0	318	8190 / 12 / 6 OB	25.133.0653.0	358	8191 / 11 ZW OB	25.161.7153.0	345
8142 / 14	25.600.3453.0	318	8190 / 12 OB	25.131.1253.0	358	8191 / 12	25.160.1253.0	344
8142 / 14 OB	25.602.3453.0	318	8190 / 13	25.130.1353.0	358	8191 / 12 OB	25.161.1253.0	344
8142 / 14 / 7	25.601.1753.0	318	8190 / 13 OB	25.131.1353.0	358	8191 / 12 ZW	25.160.7253.0	345
8142 / 14 / 7 OB	25.603.1753.0	318	8190 / 14	25.130.1453.0	358	8191 / 12 ZW OB	25.161.7253.0	345
8142 / 15	25.600.3553.0	318	8190 / 14 / 7	25.132.0753.0	358	8191 / 13	25.160.1353.0	344
8142 / 15 OB	25.602.3553.0	318	8190 / 14 / 7 OB	25.133.0753.0	358	8191 / 13 OB	25.161.1353.0	344
8142 / 16	25.600.3653.0	318	8190 / 14 OB	25.131.1453.0	358	8191 / 13 ZW	25.160.7353.0	345
8142 / 16 OB	25.602.3653.0	318	8190 / 15	25.130.1553.0	358	8191 / 13 ZW OB	25.161.7353.0	345
8142 / 16 / 8	25.601.1853.0	318	8190 / 15 OB	25.131.1553.0	358	8191 / 14	25.160.1453.0	344
8142 / 16 / 8 OB	25.603.1853.0	318	8190 / 16	25.130.1653.0	358	8191 / 14 OB	25.161.1453.0	344
8152 / 5 TOP H OB	27.730.0553.0	348	8190 / 16 / 8	25.132.0853.0	358	8191 / 14 ZW	25.160.7453.0	345
8152 / 5 TOP V OB	27.720.0553.0	348	8190 / 16 / 8 OB	25.133.0853.0	358	8191 / 14 ZW OB	25.161.7453.0	345
8152 / 10 TOP H OB	27.730.1053.0	348	8190 / 16 OB	25.131.1653.0	358	8191 / 15	25.160.1553.0	344
8152 / 10 TOP V OB	27.720.1053.0	348	8190 / 18 / 9	25.132.0953.0	358	8191 / 15 OB	25.161.1553.0	344
8158 / 2 TOP H OB	25.790.0253.0	353	8190 / 18 / 9 OB	25.133.0953.0	358	8191 / 15 ZW	25.160.7553.0	345
8158 / 2 TOP V OB	25.780.0253.0	353	8190 / 20 / 10	25.132.1053.0	358	8191 / 15 ZW OB	25.161.7553.0	345
8158 / 3 TOP H OB	25.790.0353.0	353	8190 / 20 / 10 OB	25.133.1053.0	358	8191 / 16	25.160.1653.0	344
8158 / 3 TOP V OB	25.780.0353.0	353	8190 / 22 / 11	25.132.1153.0	358	8191 / 16 OB	25.161.1653.0	344
8158 / 4 TOP H OB	25.790.0453.0	353	8190 / 22 / 11 OB	25.133.1153.0	358	8191 / 16 ZW	25.160.7653.0	345
8158 / 4 TOP V OB	25.780.0453.0	353	8190 / 24 / 12	25.132.1253.0	358	8191 / 16 ZW OB	25.161.7653.0	345
8158 / 5 TOP H OB	25.790.0553.0	353	8190 / 24 / 12 OB	25.133.1253.0	358	8191 D / 2 / 6	25.180.0253.0	370
8158 / 5 TOP V OB	25.780.0553.0	353	8190 E / 2 / 4	25.130.3253.0	368	8191 D / 2 / 6 OB	25.180.5253.0	370
8158 / 6 TOP H OB	25.790.0653.0	353	8190 E / 2 / 4 OB	25.131.3253.0	368	8191 D / 2 / 6 ZN	25.180.4253.0	370
8158 / 6 TOP V OB	25.780.0653.0	353	8190 E / 3 / 6	25.130.3353.0	368	8191 D / 2 / 6 ZN OB	25.180.9253.0	370
8158 / 7 TOP H OB	25.790.0753.0	353	8190 E / 3 / 6 OB	25.131.3353.0	368	8191 D / 3 / 9	25.180.0353.0	370
8158 / 7 TOP V OB	25.780.0753.0	353	8190 E / 4 / 8	25.130.3453.0	368	8191 D / 3 / 9 OB	25.180.5353.0	370
8158 / 8 TOP H OB	25.790.0853.0	353	8190 E / 4 / 8 OB	25.131.3453.0	368	8191 D / 3 / 9 ZN	25.180.4353.0	370
8158 / 8 TOP V OB	25.780.0853.0	353	8190 E / 5 / 10	25.130.3553.0	368	8191 D / 3 / 9 ZN OB	25.180.9353.0	370
8158 / 9 TOP H OB	25.790.0953.0	353	8190 E / 5 / 10 OB	25.131.3553.0	368	8191 D / 4 / 12	25.180.0453.0	370
8158 / 9 TOP V OB	25.780.0953.0	353	8190 E / 6 / 12	25.130.3653.0	368	8191 D / 4 / 12 OB	25.180.5453.0	370
8158 / 10 TOP H OB	25.790.1053.0	353	8190 E / 6 / 12 OB	25.131.3653.0	368	8191 D / 5 / 15	25.180.0553.0	370
8158 / 10 TOP V OB	25.780.1053.0	353	8190 E / 7 / 14	25.130.3753.0	368	8191 D / 5 / 15 OB	25.180.5553.0	370
8158 / 11 TOP H OB	25.790.1153.0	353	8190 E / 7 / 14 OB	25.131.3753.0	368	8191 D / 6 / 18	25.180.0653.0	370
8158 / 11 TOP V OB	25.780.1153.0	353	8190 E / 8 / 16	25.130.3853.0	368	8191 D / 6 / 18 OB	25.180.5653.0	370
8158 / 12 TOP H OB	25.790.1253.0	353	8190 E / 8 / 16 OB	25.131.3853.0	368	8191 D / 7 / 21	25.180.0753.0	370
8158 / 12 TOP V OB	25.780.1253.0	353	8190 E / 9 / 18	25.130.3953.0	368	8191 D / 7 / 21 OB	25.180.5753.0	370
8158 / 13 TOP H OB	25.790.1353.0	353	8190 E / 9 / 18 OB	25.131.3953.0	368	8191 D / 8 / 24	25.180.0853.0	370
8158 / 13 TOP V OB	25.780.1353.0	353	8190 E / 10 / 20	25.130.4053.0	368	8191 D / 8 / 24 OB	25.180.5853.0	370
8158 / 14 TOP H OB	25.790.1453.0	353	8190 E / 10 / 20 OB	25.131.4053.0	368	8191 D / 9 / 27	25.180.5953.0	370
8158 / 14 TOP V OB	25.780.1453.0	353	8190 E / 11 / 22	25.130.4153.0	368	8191 D / 10 / 30	25.180.1053.0	370
8158 / 15 TOP H OB	25.790.1553.0	353	8190 E / 11 / 22 OB	25.131.4153.0	368	8191 D / 10 / 30 OB	25.180.6053.0	370
8158 / 15 TOP V OB	25.780.1553.0	353	8190 E / 12 / 24	25.130.4253.0	368	8191 D / 11 / 33	25.180.1153.0	370
8158 / 16 TOP H OB	25.790.1653.0	353	8190 E / 12 / 24 OB	25.131.4253.0	368	8191 D / 11 / 33 OB	25.180.6153.0	370
8158 / 16 TOP V OB	25.780.1653.0	353	8191 / 2	25.160.0253.0	344	8191 D / 12 / 36	25.180.1253.0	370
8185 TOP H	25.741.3953.0	350	8191 / 2 OB	25.161.0253.0	344	8191 D / 12 / 36 OB	25.180.6253.0	370
8185 TOP H	25.741.4153.0	350	8191 / 2 WVL OB	25.161.2853.0	594	8191 E / 2 / 4	25.178.0253.0	366
8185 TOP H	25.741.4353.0	350	8191 / 2 WVR OB	25.161.2553.0	594	8191 E / 2 / 4 OB	25.178.5253.0	366
8185 TOP H	25.741.4453.0	350	8191 / 2 ZN	25.170.0253.0	344	8191 E / 2 / 4 ZN	25.178.4253.0	366
8185 TOP H	25.741.4553.0	350	8191 / 2 ZN OB	25.171.0253.0	344	8191 E / 2 / 4 ZN OB	25.178.9253.0	366
8185 TOP V	25.741.1353.0	349	8191 / 2 ZW	25.160.6253.0	345	8191 E / 3 / 6	25.178.0353.0	366
8185 TOP V	25.741.1553.0	349	8191 / 2 ZW OB	25.161.6253.0	345	8191 E / 3 / 6 OB	25.178.5353.0	366
8185 / 1 TOP H	25.741.0153.0	349	8191 / 3	25.160.0353.0	344	8191 E / 3 / 6 ZN	25.178.4353.0	366
8185 / 1 TOP V	25.741.0053.0	349	8191 / 3 OB	25.161.0353.0	344	8191 E / 3 / 6 ZN OB	25.178.9353.0	366
8185 / 2 TOP H	25.741.3253.0	349	8191 / 3 WVL OB	25.161.2953.0	594	8191 E / 4 / 8	25.178.0453.0	366
8185 / 2 TOP V	25.741.0253.0	349	8191 / 3 WVR OB	25.161.2653.0	594	8191 E / 4 / 8 OB	25.178.5453.0	366
8185 / 3 TOP H	25.741.3353.0	349	8191 / 3 ZN	25.170.0353.0	344	8191 E / 5 / 10	25.178.0553.0	366
8185 / 3 TOP V	25.741.0353.0	349	8191 / 3 ZN OB	25.171.0353.0	344	8191 E / 5 / 10 OB	25.178.5553.0	366
8185 / 4 TOP H	25.741.3453.0	349	8191 / 3 ZW	25.160.6353.0	345	8191 E / 6 / 12	25.178.0653.0	366
8185 / 4 TOP V	25.741.0453.0	349	8191 / 3 ZW OB	25.161.6353.0	345	8191 E / 6 / 12 OB	25.178.5653.0	366
8185 / 5 TOP H	25.741.3553.0	349	8191 / 3 / 2	25.168.0253.0	344	8191 E / 7 / 14	25.178.0753.0	366
8185 / 5 TOP V	25.741.0553.0	349	8191 / 3 / 2 OB	25.169.0253.0	344	8191 E / 7 / 14 OB	25.178.5753.0	366
8185 / 6 TOP H	25.741.3653.0	349	8191 / 3 / 2 Z	25.168.2253.0	345	8191 E / 8 / 16	25.178.0853.0	366
8185 / 6 TOP V	25.741.0653.0	349	8191 / 3 / 2 Z OB	25.169.2253.0	345	8191 E / 8 / 16 OB	25.178.5853.0	366
8185 / 7 TOP H	25.741.3753.0	349	8191 / 3 / 2 ZN	25.168.6253.0	344	8191 E / 9 / 18	25.178.0953.0	366
8185 / 7 TOP V	25.741.0753.0	349	8191 / 3 / 2 ZN OB	25.169.6253.0	344	8191 E / 9 / 18 OB	25.178.5953.0	366
8185 / 8 TOP H	25.741.3853.0	349	8191 / 3 / 2 ZW	25.168.4253.0	345	8191 E / 10 / 20	25.178.1053.0	366
8185 / 8 TOP V	25.741.0853.0	349	8191 / 3 / 2 ZW OB	25.169.4253.0	345	8191 E / 10 / 20 OB	25.178.6053.0	366
8185 / 9 TOP V	25.741.0953.0	349	8191 / 4	25.160.0453.0	344	8191 E / 11 / 22	25.178.1153.0	366
8185 / 10 TOP H	25.741.4053.0	349	8191 / 4 OB	25.161.0453.0	344	8191 E / 11 / 22 OB	25.178.6153.0	366
8185 / 10 TOP V	25.741.1053.0	349	8191 / 4 ZW	25.160.6453.0	345	8191 E / 12 / 24	25.178.1253.0	366
8185 / 11 TOP V	25.741.1153.0	349	8191 / 4 ZW OB	25.161.6453.0	345	8191 E / 12 / 24 OB	25.178.6253.0	366
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8191 R / 7 Z OB	25.155.0753.0	342	8195 D / 4 / 12 OB	25.153.2453.0	372	8213 B / 6 TOP	25.240.0653.0	296
8191 R / 7 / 4 Z	25.157.1453.0	343	8195 D / 4 / 12 VB1	25.153.4453.0	372	8213 B / 6 TOP OB	25.240.3653.0	296
8191 R / 7 / 4 Z OB	25.157.0453.0	343	8195 D / 4 / 12 VB1 OB	25.153.6453.0	372	8213 B / 6 VL	25.346.0653.0	289
8191 R / 8 Z	25.155.2853.0	342	8195 D / 5 / 15	25.153.0553.0	372	8213 B / 6 VL OB	25.346.3653.0	289
8191 R / 8 Z OB	25.155.0853.0	342	8195 D / 5 / 15 OB	25.153.2553.0	372	8213 B / 6 VR	25.345.0653.0	289
8191 R / 9 Z	25.155.2953.0	342	8195 D / 5 / 15 VB1	25.153.4553.0	372	8213 B / 6 VR OB	25.345.3653.0	289
8191 R / 9 Z OB	25.155.0953.0	342	8195 D / 5 / 15 VB1 OB	25.153.6553.0	372	8213 B / 7	25.340.0753.0	286
8191 R / 9 / 5 Z	25.157.1553.0	343	8195 D / 6 / 18	25.153.0653.0	372	8213 B / 7 F	25.323.0753.0	286
8191 R / 9 / 5 Z OB	25.157.0553.0	343	8195 D / 6 / 18 OB	25.153.2653.0	372	8213 B / 7 F OB	25.323.3753.0	286
8191 R / 10 Z	25.155.3053.0	342	8195 D / 6 / 18 VB1	25.153.4653.0	372	8213 B / 7 OB	25.340.3753.0	286
8191 R / 10 Z OB	25.155.1053.0	342	8195 D / 6 / 18 VB1 OB	25.153.6653.0	372	8213 B / 7 TOP	25.240.0753.0	296
8191 R / 11 Z	25.155.3153.0	342	8195 D / 7 / 21	25.153.0753.0	372	8213 B / 7 TOP OB	25.240.3753.0	296
8191 R / 11 Z OB	25.155.1153.0	342	8195 D / 7 / 21 OB	25.153.2753.0	372	8213 B / 7 VL	25.346.0753.0	289
8191 R / 11 / 6 Z	25.157.1653.0	343	8195 D / 7 / 21 VB1	25.153.4753.0	372	8213 B / 7 VL OB	25.346.3753.0	289
8191 R / 11 / 6 Z OB	25.157.0653.0	343	8195 D / 7 / 21 VB1 OB	25.153.6753.0	372	8213 B / 7 VR	25.345.0753.0	289
8191 R / 12 Z	25.155.3253.0	342	8195 D / 8 / 24	25.153.0853.0	372	8213 B / 7 VR OB	25.345.3753.0	289
8191 R / 12 Z OB	25.155.1253.0	342	8195 D / 8 / 24 OB	25.153.2853.0	372	8213 B / 8	25.340.0853.0	286
8191 R / 13 Z	25.155.3353.0	342	8195 D / 8 / 24 VB1	25.153.4853.0	372	8213 B / 8 F	25.323.0853.0	286
8191 R / 13 Z OB	25.155.1353.0	342	8195 D / 8 / 24 VB1 OB	25.153.6853.0	372	8213 B / 8 F OB	25.323.3853.0	286
8191 R / 13 / 7 Z	25.157.1753.0	343	8195 D / 9 / 27	25.153.0953.0	372	8213 B / 8 OB	25.340.3853.0	286
8191 R / 13 / 7 Z OB	25.157.0753.0	343	8195 D / 9 / 27 OB	25.153.2953.0	372	8213 B / 8 TOP	25.240.0853.0	296
8191 R / 14 Z	25.155.3453.0	342	8195 D / 9 / 27 VB1	25.153.4953.0	372	8213 B / 8 TOP OB	25.240.3853.0	296
8191 R / 14 Z OB	25.155.1453.0	342	8195 D / 9 / 27 VB1 OB	25.153.6953.0	372	8213 B / 8 VL	25.346.0853.0	289
8192 / 2	25.190.0253.0	338	8195 D / 10 / 30	25.153.1053.0	372	8213 B / 8 VL OB	25.346.3853.0	289
8192 / 2 OB	25.191.0253.0	338	8195 D / 10 / 30 OB	25.153.3053.0	372	8213 B / 8 VR	25.345.0853.0	289
8192 / 2 ZN	25.190.9253.0	338	8195 D / 10 / 30 VB1	25.153.5053.0	372	8213 B / 8 VR OB	25.345.3853.0	289
8192 / 2 ZN OB	25.191.9253.0	338	8195 D / 10 / 30 VB1 OB	25.153.7053.0	372	8213 B / 9	25.340.0953.0	286
8192 / 2 ZW OB	25.191.6253.0	339	8195 V / 2 / 8	25.154.0253.0	373	8213 B / 9 F	25.323.0953.0	286
8192 / 3	25.190.0353.0	338	8195 V / 2 / 8 OB	25.154.2253.0	373	8213 B / 9 F OB	25.323.3953.0	286
8192 / 3 OB	25.191.0353.0	338	8195 V / 2 / 8 VB1	25.154.4253.0	373	8213 B / 9 OB	25.340.3953.0	286
8192 / 3 ZN	25.190.9353.0	338	8195 V / 2 / 8 VB1 OB	25.154.6253.0	373	8213 B / 9 TOP	25.240.0953.0	296
8192 / 3 ZN OB	25.191.9353.0	338	8195 v / 3 / 12	25.154.0353.0	373	8213 B / 9 TOP OB	25.240.3953.0	296
8192 / 3 ZW OB	25.191.6353.0	339	8195 V / 3 / 12 VB1	25.154.4353.0	373	8213 B / 9 VL	25.346.0953.0	289
8192 / 4	25.190.0453.0	338	8195 V / 3 / 12 VB1 OB	25.154.6353.0	373	8213 B / 9 VL OB	25.346.3953.0	289
8192 / 4 OB	25.191.0453.0	338	8195 V / 4 / 16	25.154.0453.0	373	8213 B / 9 VR	25.345.0953.0	289
8192 / 4 ZW OB	25.191.6453.0	339	8195 V / 4 / 16 OB	25.154.2453.0	373	8213 B / 9 VR OB	25.345.3953.0	289
8192 / 5	25.190.0553.0	338	8195 V / 4 / 16 VB1	25.154.4453.0	373	8213 B / 10	25.340.1053.0	286
8192 / 5 OB	25.191.0553.0	338	8195 V / 4 / 16 VB1 OB	25.154.6453.0	373	8213 B / 10 F	25.323.1053.0	286
8192 / 5 ZW OB	25.191.6553.0	339	8195 V / 5 / 20	25.154.0553.0	373	8213 B / 10 F OB	25.323.4053.0	286
8192 / 6	25.190.0653.0	338	8195 V / 5 / 20 OB	25.154.2553.0	373	8213 B / 10 OB	25.340.1053.0	286
8192 / 6 OB	25.191.0653.0	338	8195 V / 5 / 20 VB1	25.154.4553.0	373	8213 B / 10 S OB	27.341.4053.0	287
8192 / 6 ZW OB	25.191.6653.0	339	8195 V / 5 / 20 VB1 OB	25.154.6553.0	373	8213 B / 10 TOP	25.240.1053.0	296
8192 / 7	25.190.0753.0	338	8195 V / 6 / 24	25.154.0653.0	373	8213 B / 10 TOP OB	25.240.4053.0	296
8192 / 7 OB	25.191.0753.0	338	8195 V / 6 / 24 OB	25.154.2653.0	373	8213 B / 10 VL	25.346.1053.0	289
8192 / 7 ZW OB	25.191.6753.0	339	8195 V / 6 / 24 VB1	25.154.4653.0	373	8213 B / 10 VL OB	25.346.4053.0	289
8192 / 8	25.190.0853.0	338	8195 V / 6 / 24 VB1 OB	25.154.6653.0	373	8213 B / 10 VR	25.345.1053.0	289
8192 / 8 OB	25.191.0853.0	338	8195 V / 7 / 28	25.154.0753.0	373	8213 B / 10 VR OB	25.345.4053.0	289
8192 / 8 ZW OB	25.191.6853.0	339	8195 V / 7 / 28 OB	25.154.2753.0	373	8213 B / 11	25.340.1153.0	286
8192 / 9	25.190.0953.0	338	8195 V / 7 / 28 VB1	25.154.4753.0	373	8213 B / 11 F	25.323.1153.0	286
8192 / 9 OB	25.191.0953.0	338	8195 V / 7 / 28 VB1 OB	25.154.6753.0	373	8213 B / 11 F OB	25.323.4153.0	286
8192 / 9 ZW OB	25.191.6953.0	339	8195 V / 8 / 32	25.154.0853.0	373	8213 B / 11 OB	25.340.1153.0	286
8192 / 10	25.190.1053.0	338	8195 V / 8 / 32 OB	25.154.2853.0	373	8213 B / 11 TOP	25.240.1153.0	296
8192 / 10 OB	25.191.1053.0	338	8195 V / 8 / 32 VB1	25.154.4853.0	373	8213 B / 11 TOP OB	25.240.4153.0	296
8192 / 10 ZW OB	25.191.7053.0	339	8195 V / 8 / 32 VB1 OB	25.154.6853.0	373	8213 B / 11 VL	25.346.1153.0	289
8192 / 11	25.190.1153.0	338	8195 V / 9 / 36	25.154.0953.0	373	8213 B / 11 VL OB	25.346.4153.0	289
8192 / 11 OB	25.191.1153.0	338	8195 V / 9 / 36 OB	25.154.2953.0	373	8213 B / 11 VR	25.345.1153.0	289
8192 / 11 ZW OB	25.191.7153.0	339	8195 V / 9 / 36 VB1	25.154.4953.0	373	8213 B / 11 VR OB	25.345.4153.0	289
8192 / 12	25.190.1253.0	338	8195 V / 9 / 36 VB1 OB	25.154.6953.0	373	8213 B / 12	25.340.1253.0	286
8192 / 12 OB	25.191.1253.0	338	8195 V / 10 / 40	25.154.1053.0	373	8213 B / 12 F	25.323.1253.0	286
8192 / 12 ZW OB	25.191.7253.0	339	8195 V / 10 / 40 OB	25.154.3053.0	373	8213 B / 12 F OB	25.323.4253.0	286
8192 / 13	25.190.1353.0	338	8195 V / 10 / 40 VB1	25.154.5053.0	373	8213 B / 12 OB	25.340.4253.0	286
8192 / 13 OB	25.191.1353.0	338	8213 B / 2	25.340.0253.0	286	8213 B / 12 TOP	25.240.1253.0	296
8192 / 13 ZW OB	25.191.7353.0	339	8213 B / 2 F	25.323.0253.0	286	8213 B / 12 TOP OB	25.240.4253.0	296
8192 / 14	25.190.1453.0	338	8213 B / 2 F OB	25.323.3253.0	286	8213 B / 12 VL	25.346.1253.0	289
8192 / 14 OB	25.191.1453.0	338	8213 B / 2 OB	25.340.3253.0	286	8213 B / 12 VL OB	25.346.4253.0	289
8192 / 14 ZW OB	25.191.7453.0	339	8213 B / 2 TOP	25.240.0253.0	296	8213 B / 12 VR	25.345.1253.0	289
8192 / 15	25.190.1553.0	338	8213 B / 2 TOP OB	25.240.3253.0	296	8213 B / 12 VR OB	25.345.4253.0	289
8192 / 15 OB	25.191.1553.0	338	8213 B / 2 VL	25.346.0253.0	289	8213 B / 13	25.340.1353.0	286
8192 / 15 ZW OB	25.191.7553.0	339	8213 B / 2 VL OB	25.346.3253.0	289	8213 B / 13 F	25.323.1353.0	286
8192 / 16	25.190.1653.0	338	8213 B / 2 VR	25.345.0253.0	289	8213 B / 13 F OB	25.323.4353.0	286
8192 / 16 OB	25.191.1653.0	338	8213 B / 2 VR OB	25.345.3253.0	289	8213 B / 13 OB	25.340.4353.0	286
8192 / 16 ZW OB	25.191.7653.0	339	8213 B / 3	25.340.0353.0	286	8213 B / 13 TOP	25.240.1353.0	296
8192 E / 12 / 24 OB	25.198.6253.0	364	8213 B / 3 F	25.323.0353.0	286	8213 B / 13 TOP OB	25.240.4353.0	296
8192 E / 2 / 4	25.198.0253.0	364	8213 B / 3 F OB	25.323.3353.0	286	8213 B / 13 VL	25.346.1353.0	289
8192 E / 2 / 4 OB	25.198.5253.0	364	8213 B / 3 OB	25.340.3353.0	286	8213 B / 13 VL OB	25.346.4353.0	289
8192 E / 2 / 4 ZN	25.198.4253.0	364	8213 B / 3 TOP	25.240.0353.0	296	8213 B / 13 VR	25.345.1353.0	289
8192 E / 2 / 4 ZN OB	25.198.9253.0	364	8213 B / 3 TOP OB	25.240.3353.0	296	8213 B / 13 VR OB	25.345.4353.0	289
8192 E / 3 / 6	25.198.0353.0	364	8213 B / 3 VL	25.346.0353.0	289	8213 B / 14	25.340.1453.0	286
8192 E / 3 / 6 OB	25.198.5353.0	364	8213 B / 3 VL OB	25.346.3353.0	289	8213 B / 14 F	25.323.1453.0	286
8192 E / 3 / 6 ZN	25.198.4353.0	364	8213 B / 3 VR	25.345.0353.0	289	8213 B / 14 F OB	25.323.4453.0	286
8192 E / 3 / 6 ZN OB	25.198.9353.0	364	8213 B / 3 VR OB	25.345.3353.0	289	8213 B / 14 OB	25.340.4453.0	286
8192 E / 4 / 8	25.198.0453.0	364	8213 B / 4	25.340.0453.0	286	8213 B / 14 TOP	25.240.1453.0	296
8192 E / 4 / 8 OB	25.198.5453.0	364	8213 B / 4 F	25.323.0453.0	286	8213 B / 14 TOP OB	25.240.4453.0	296
8192 E / 5 / 10	25.198.0553.0	364	8213 B / 4 F OB	25.323.3453.0	286	8213 B / 14 VL	25.346.1453.0	289
8192 E / 5 / 10 OB	25.198.5553.0	364	8213 B / 4 OB	25.340.3453.0	286	8213 B / 14 VL OB	25.346.4453.0	289
8192 E / 6 / 12	25.198.0653.0	364	8213 B / 4 TOP	25.240.0453.0	296	8213 B / 14 VR	25.345.1453.0	289
8192 E / 6 / 12 OB	25.198.5653.0	364	8213 B / 4 TOP OB	25.240.3453.0	296	8213 B / 14 VR OB	25.345.4453.0	289
8192 E / 7 / 14	25.198.0753.0	364	8213 B / 4 VL	25.346.0453.0	289	8213 B / 15	25.340.1553.0	286
8192 E / 7 / 14 OB	25.198.5753.0	364	8213 B / 4 VL OB	25.346.3453.0	289	8213 B / 15 F	25.323.1553.0	286
8192 E / 8 / 16	25.198.0853.0	364	8213 B / 4 VR	25.345.0453.0	289	8213 B / 15 F OB	25.323.4553.0	286
8192 E / 8 / 16 OB	25.198.5853.0	364	8213 B / 4 VR OB	25.345.3453.0	289	8213 B / 15 OB	25.340.4553.0	286
8192 E / 9 / 18	25.198.0953.0	364	8213 B / 5	25.340.0553.0	286	8213 B / 15 TOP	25.240.1553.0	296</

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8213 B / 16 VR OB	25.345.4653.0	289	8213 S / 3 G OB GR OF	99.233.9996.1	297	8213 S / 12 G OB GR OF	99.242.9996.1	297
8213 BFK / 2 TOP K	25.840.0253.0	292	8213 S / 3 GF OB	25.359.3353.0	298	8213 S / 12 GF OB	25.359.4253.0	298
8213 BFK / 2 TOP K OB	25.840.3253.0	292	8213 S / 3 S OB GR	25.396.3353.0	302	8213 S / 12 S OB GR	25.396.4253.0	302
8213 BFK / 3 TOP K	25.840.0353.0	292	8213 S / 3 S1 OB GR	25.397.3353.0	302	8213 S / 12 S1 OB GR	25.397.4253.0	302
8213 BFK / 3 TOP K OB	25.840.3353.0	292	8213 S / 3 W OB	25.352.3353.0	298	8213 S / 12 W OB	25.352.4253.0	298
8213 BFK / 4 TOP K	25.840.0453.0	292	8213 S / 3 W OB GR OF	99.203.9996.2	299	8213 S / 12 W OB GR OF	99.212.9996.2	299
8213 BFK / 5 TOP K	25.840.0553.0	292	8213 S / 3 WF OB	25.358.3353.0	299	8213 S / 12 WF OB	25.358.4253.0	299
8213 BFK / 5 TOP K OB	25.840.3553.0	292	8213 S / 4 DFLS	25.303.3453.0	305	8213 S / 13 DFLS	25.303.4353.0	305
8213 BFK / 6 TOP K	25.840.0653.0	292	8213 S / 4 DFLS M	25.313.3453.0	305	8213 S / 13 DFLS M	25.313.4353.0	305
8213 BFK / 6 TOP K OB	25.840.3653.0	292	8213 S / 4 DFVWV	25.303.0453.0	305	8213 S / 13 DFVWV	25.303.1353.0	305
8213 BFK / 7 TOP K	25.840.0753.0	292	8213 S / 4 DFVWV M	25.313.0453.0	305	8213 S / 13 DFVWV M	25.313.1353.0	305
8213 BFK / 7 TOP K OB	25.840.3753.0	292	8213 S / 4 G OB	25.350.3453.0	297	8213 S / 13 G OB	25.350.4353.0	297
8213 BFK / 8 TOP K	25.840.0853.0	292	8213 S / 4 G OB GR OF	99.234.9996.1	297	8213 S / 13 G OB GR OF	99.243.9996.1	297
8213 BFK / 8 TOP K OB	25.840.3853.0	292	8213 S / 4 GF OB	25.359.3453.0	298	8213 S / 13 GF OB	25.359.4353.0	298
8213 BFK / 9 TOP K	25.840.0953.0	292	8213 S / 4 S OB GR	25.396.3453.0	302	8213 S / 13 S OB GR	25.396.4353.0	302
8213 BFK / 9 TOP K OB	25.840.3953.0	292	8213 S / 4 S1 OB GR	25.397.3453.0	302	8213 S / 13 S1 OB GR	25.397.4353.0	302
8213 BFK / 10 TOP K	25.840.1053.0	292	8213 S / 4 W OB	25.352.3453.0	298	8213 S / 13 W OB	25.352.4353.0	298
8213 BFK / 10 TOP K OB	25.840.4053.0	292	8213 S / 4 W OB GR OF	99.204.9996.2	299	8213 S / 13 W OB GR OF	99.213.9996.2	299
8213 BFK / 11 TOP K	25.840.1153.0	292	8213 S / 4 WF OB	25.358.3453.0	299	8213 S / 13 WF OB	25.358.4353.0	299
8213 BFK / 11 TOP K OB	25.840.4153.0	292	8213 S / 5 DFLS	25.303.3553.0	305	8213 S / 14 DFLS	25.303.4453.0	305
8213 BFK / 12 TOP K	25.840.1253.0	292	8213 S / 5 DFLS M	25.313.3553.0	305	8213 S / 14 DFLS M	25.313.4453.0	305
8213 BFK / 12 TOP K OB	25.840.4253.0	292	8213 S / 5 DFVWV	25.303.0553.0	305	8213 S / 14 DFVWV	25.303.1453.0	305
8213 BFK / 13 TOP K	25.840.1353.0	292	8213 S / 5 DFVWV M	25.313.0553.0	305	8213 S / 14 DFVWV M	25.313.1453.0	305
8213 BFK / 13 TOP K OB	25.840.4353.0	292	8213 S / 5 G OB	25.350.3553.0	297	8213 S / 14 G OB	25.350.4453.0	297
8213 BFK / 14 TOP K	25.840.1453.0	292	8213 S / 5 G OB GR OF	99.235.9996.1	297	8213 S / 14 G OB GR OF	99.244.9996.1	297
8213 BFK / 14 TOP K OB	25.840.4453.0	292	8213 S / 5 GF OB	25.359.3553.0	298	8213 S / 14 GF OB	25.359.4453.0	298
8213 BFK / 15 TOP K	25.840.1553.0	292	8213 S / 5 S OB GR	25.396.3553.0	302	8213 S / 14 S OB GR	25.396.4453.0	302
8213 BFK / 15 TOP K OB	25.840.4553.0	292	8213 S / 5 S1 OB GR	25.397.3553.0	302	8213 S / 14 S1 OB GR	25.397.4453.0	302
8213 BFK / 16 TOP K	25.840.1653.0	292	8213 S / 5 W OB	25.352.3553.0	298	8213 S / 14 W OB	25.352.4453.0	298
8213 BFK / 16 TOP K OB	25.840.4653.0	292	8213 S / 5 W OB GR OF	99.205.9996.2	299	8213 S / 14 W OB GR OF	99.214.9996.2	299
8213 BFK / 12 TOP K F	25.841.1253.0	292	8213 S / 5 WF OB	25.358.3553.0	299	8213 S / 14 WF OB	25.358.4453.0	299
8213 BL / 2 G	25.342.0253.0	295	8213 S / 6 DFLS	25.303.3653.0	305	8213 S / 15 DFLS	25.303.4553.0	305
8213 BL / 2 G OB	25.342.3253.0	295	8213 S / 6 DFLS M	25.313.3653.0	305	8213 S / 15 DFLS M	25.313.4553.0	305
8213 BL / 2 W	25.343.0253.0	295	8213 S / 6 DFVWV	25.303.0653.0	305	8213 S / 15 DFVWV	25.303.1553.0	305
8213 BL / 2 W OB	25.343.3253.0	295	8213 S / 6 DFVWV M	25.313.0653.0	305	8213 S / 15 DFVWV M	25.313.1553.0	305
8213 BL / 3 G	25.342.0353.0	295	8213 S / 6 G OB	25.350.3653.0	297	8213 S / 15 G OB	25.350.4553.0	297
8213 BL / 3 G OB	25.342.3353.0	295	8213 S / 6 G OB GR OF	99.236.9996.1	297	8213 S / 15 G OB GR OF	99.245.9996.1	297
8213 BL / 3 W	25.343.0353.0	295	8213 S / 6 GF OB	25.359.3653.0	298	8213 S / 15 GF OB	25.359.4553.0	298
8213 BL / 3 W OB	25.343.3353.0	295	8213 S / 6 S OB GR	25.396.3653.0	302	8213 S / 15 S OB GR	25.396.4553.0	302
8213 BL / 4 G	25.342.0453.0	295	8213 S / 6 S1 OB GR	25.397.3653.0	302	8213 S / 15 S1 OB GR	25.397.4553.0	302
8213 BL / 4 G OB	25.342.3453.0	295	8213 S / 6 W OB	25.352.3653.0	298	8213 S / 15 W OB	25.352.4553.0	298
8213 BL / 4 W	25.343.0453.0	295	8213 S / 6 W OB GR OF	99.206.9996.2	299	8213 S / 15 W OB GR OF	99.215.9996.2	299
8213 BL / 4 W OB	25.343.3453.0	295	8213 S / 6 WF OB	25.358.3653.0	299	8213 S / 15 WF OB	25.358.4553.0	299
8213 BL 5 G	25.342.0553.0	295	8213 S / 7 DFLS	25.303.3753.0	305	8213 S / 16 DFLS	25.303.4653.0	305
8213 BL 5 G OB	25.342.3553.0	295	8213 S / 7 DFLS M	25.313.3753.0	305	8213 S / 16 DFLS M	25.313.4653.0	305
8213 BL 5 W	25.343.0553.0	295	8213 S / 7 DFVWV	25.303.0753.0	305	8213 S / 16 DFVWV	25.303.1653.0	305
8213 BL 5 W OB	25.343.3553.0	295	8213 S / 7 DFVWV M	25.313.0753.0	305	8213 S / 16 DFVWV M	25.313.1653.0	305
8213 BL 6 G	25.342.0653.0	295	8213 S / 7 G OB	25.350.3753.0	297	8213 S / 16 G OB	25.350.4653.0	297
8213 BL 6 G OB	25.342.3653.0	295	8213 S / 7 G OB GR OF	99.237.9996.1	297	8213 S / 16 G OB GR OF	99.246.9996.1	297
8213 BL 6 W	25.343.0653.0	295	8213 S / 7 GF OB	25.359.3753.0	298	8213 S / 16 GF OB	25.359.4653.0	298
8213 BL 6 W OB	25.343.3653.0	295	8213 S / 7 S OB GR	25.396.3753.0	302	8213 S / 16 S OB GR	25.396.4653.0	302
8213 BL / 7 G	25.342.0753.0	295	8213 S / 7 S1 OB GR	25.397.3753.0	302	8213 S / 16 S1 OB GR	25.397.4653.0	302
8213 BL / 7 G OB	25.342.3753.0	295	8213 S / 7 W OB	25.352.3753.0	298	8213 S / 16 W OB	25.352.4653.0	298
8213 BL / 7 W	25.343.0753.0	295	8213 S / 7 W OB GR OF	99.207.9996.2	299	8213 S / 16 W OB GR OF	99.216.9996.2	299
8213 BL / 7 W OB	25.343.3753.0	295	8213 S / 7 WF OB	25.358.3753.0	299	8213 S / 16 WF OB	25.358.4653.0	299
8213 BL / 8 G	25.342.0853.0	295	8213 S / 8 DFLS	25.303.3853.0	305	8213 S / 16 G OB GR OF	99.239.9996.1	297
8213 BL / 8 G OB	25.342.3853.0	295	8213 S / 8 DFLS M	25.313.3853.0	305	8213 S E / 2 G OB	25.354.3253.0	303
8213 BL / 8 W	25.343.0853.0	295	8213 S / 8 DFVWV	25.303.0853.0	305	8213 S E / 2 W OB	25.356.3253.0	303
8213 BL / 8 W OB	25.343.3853.0	295	8213 S / 8 DFVWV M	25.313.0853.0	305	8213 S E / 3 G OB	25.354.3353.0	303
8213 BL / 9 G	25.342.0953.0	295	8213 S / 8 G OB	25.350.3853.0	297	8213 S E / 3 W OB	25.356.3353.0	303
8213 BL / 9 W	25.343.0953.0	295	8213 S / 8 G OB GR OF	99.238.9996.1	297	8213 SEG/5/10 G OB	27.354.0553.0	304
8213 BL / 9W OB	25.343.3953.0	295	8213 S / 8 GF OB	25.359.3853.0	298	8213 SEG/5/10 W OB	27.356.0553.0	304
8213 BL / 10 G	25.342.1053.0	295	8213 S / 8 S OB GR	25.396.3853.0	302	8213 SEG/10/20 G OB	27.354.1053.0	304
8213 BL / 10 G OB	25.342.4053.0	295	8213 S / 8 S1 OB GR	25.397.3853.0	302	8213 SEG/10/20 W OB	27.356.1053.0	304
8213 BL / 10 W	25.343.1053.0	295	8213 S / 8 W OB	25.352.3853.0	298	8213 SUFK/2 TOP	25.857.0253.0	293
8213 BL / 10 W OB	25.343.4053.0	295	8213 S / 8 W OB GR OF	99.208.9996.2	299	8213 SUFK/2 TOP OB	25.857.3253.0	293
8213 BL / 11 G	25.342.1153.0	295	8213 S / 8 WF OB	25.358.3853.0	299	8213 SUFK/3 TOP	25.857.0353.0	293
8213 BL / 11 G OB	25.342.4153.0	295	8213 S / 9 DFLS	25.303.3953.0	305	8213 SUFK/3 TOP OB	25.857.3353.0	293
8213 BL / 11 W	25.343.1153.0	295	8213 S / 9 DFLS M	25.313.3953.0	305	8213 SUFK/4 TOP	25.857.0453.0	293
8213 BL / 11 W OB	25.343.4153.0	295	8213 S / 9 DFVWV	25.303.0953.0	305	8213 SUFK/4 TOP OB	25.857.3453.0	293
8213 BL / 12 G	25.342.1253.0	295	8213 S / 9 DFVWV M	25.313.0953.0	305	8213 SUFK/5 TOP	25.857.0553.0	293
8213 BL / 12 G OB	25.342.4253.0	295	8213 S / 9 G OB	25.350.3953.0	297	8213 SUFK/5 TOP OB	25.857.3553.0	293
8213 BL / 12 W	25.343.1253.0	295	8213 S / 9 GF OB	25.359.3953.0	298	8213 SUFK/6 TOP	25.857.0653.0	293
8213 BL / 12 W OB	25.343.4253.0	295	8213 S / 9 S OB GR	25.396.3953.0	302	8213 SUFK/6 TOP OB	25.857.3653.0	293
8213 BL / 13 G	25.342.1353.0	295	8213 S / 9 S1 OB GR	25.397.3953.0	302	8213 SUFK/7 TOP	25.857.0753.0	293
8213 BL / 13 G OB	25.342.4353.0	295	8213 S / 9 W OB	25.352.3953.0	298	8213 SUFK/7 TOP OB	25.857.3753.0	293
8213 BL / 13 W	25.343.1353.0	295	8213 S / 9 W OB GR OF	99.209.9996.2	299	8213 SUFK/8 TOP	25.857.0853.0	293
8213 BL / 13 W OB	25.343.4353.0	295	8213 S / 9 WF OB	25.358.3953.0	299	8213 SUFK/8 TOP OB	25.857.3853.0	293
8213 BL / 14 G	25.342.1453.0	295	8213 S / 10 DFLS	25.303.4053.0	305	8213 SUFK/9 TOP	25.857.0953.0	293
8213 BL / 14 G OB	25.342.4453.0	295	8213 S / 10 DFLS M	25.313.4053.0	305	8213 SUFK/9 TOP OB	25.857.3953.0	293
8213 BL / 14 W	25.343.1453.0	295	8213 S / 10 DFVWV	25.303.1053.0	305	8213 SUFK/10 TOP	25.857.1053.0	293
8213 BL / 14 W OB	25.343.4453.0	295	8213 S / 10 DFVWV M	25.313.1053.0	305	8213 SUFK/10 TOP OB	25.857.4053.0	293
8213 BL / 15 G	25.342.1553.0	295	8213 S / 10 G OB	25.350.4053.0	297	8213 SUFK/11 TOP	25.857.1153.0	293
8213 BL / 15 G OB	25.342.4553.0	295	8213 S / 10 G OB GR OF	99.240.9996.1	297	8213 SUFK/11 TOP OB	25.857.4153.0	293
8213 BL / 15 W	25.343.1553.0	295	8213 S / 10 GF OB	25.359.4053.0	298	8213 SUFK/12 TOP	25.857.1253.0	293
8213 BL / 15 W OB	25.343.4553.0	295	8213 S / 10 S OB GR	25.396.4053.0	302	8213 SUFK/12 TOP OB	25.857.4253.0	293
8213 BL / 16 G	25.342.1653.0	295	8213 S / 10 S1 OB GR	25.397.4053.0	302	8213 SUFK/13 TOP	25.857.1353.0	293
8213 BL / 16 G OB	25.342.4653.0	295	8213 S / 10 W OB	25.352.4053.0	298	8213 SUFK/13 TOP OB	25.857.4353.0	293
8213 BL / 16 W	25.343.1653.0	295	8213 S / 10 W OB GR OF	99.210.9996.2	299	8213 SUFK/14 TOP	25.857.1453.0	293
8213 BL / 16 W OB	25.343.4653.0	295	8213 S / 10 WF OB	25.358.4053.0	299	8213 SUFK/14 TOP OB	25.857.4453.0	293
8213 S 2 DFVWV	25.303.0253.0	305	8213 S / 11 DFLS	25.303.4153.0	305	8213 SUFK/15 TOP	25.857.1553.0	293
8213 S / 2 DFLS	25.303.3253.0	305	8213 S / 11 DFLS M	25.313.4153.0	305	8213 SUFK/15 TOP OB</		

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8234 / 4	25.502.0453.0	360	8285/ 3 TOP V	25.751.0353.0	349	8291 E / 3 / 6 OB	25.179.5353.0	366
8234 / 4 OB	25.503.0453.0	360	8285/ 4 TOP H	25.751.3453.0	350	8291 E / 3 / 6 ZN	25.179.4353.0	366
8234 / 5	25.502.0553.0	360	8285/ 4 TOP V	25.751.0453.0	349	8291 E / 3 / 6 ZN OB	25.179.9353.0	366
8234 / 5 OB	25.503.0553.0	360	8285/ 5 TOP H	25.751.3553.0	350	8291 E / 4 / 8	25.179.0453.0	366
8234 / 6	25.502.0653.0	360	8285/ 5 TOP V	25.751.0553.0	349	8291 E / 4 / 8 OB	25.179.5453.0	366
8234 / 6 OB	25.503.0653.0	360	8285/ 6 TOP H	25.751.3653.0	350	8291 E / 5 / 10	25.179.0553.0	366
8234 / 7	25.502.0753.0	360	8285/ 6 TOP V	25.751.0653.0	349	8291 E / 5 / 10 OB	25.179.5553.0	366
8234 / 7 OB	25.503.0753.0	360	8285/ 8 TOP V	25.751.0853.0	349	8291 E / 6 / 12	25.179.0653.0	366
8234 / 8	25.502.0853.0	360	8285/ 10 TOP H	25.751.4053.0	350	8291 E / 6 / 12 OB	25.179.5653.0	366
8234 / 8 OB	25.503.0853.0	360	8285/ 10 TOP V	25.751.1053.0	349	8291 E / 7 / 12	25.179.0753.0	366
8234 / 9	25.502.0953.0	360	8285/ 12 TOP V	25.751.1253.0	349	8291 E / 7 / 14 OB	25.179.5753.0	366
8234 / 9 OB	25.503.0953.0	360	8285/ 15 TOP V	25.751.1553.0	349	8291 E / 8 / 16	25.179.0853.0	366
8234 / 10	25.502.1053.0	360	8285/ 16 TOP H	25.751.4653.0	350	8291 E / 9 / 18	25.179.0953.0	366
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8234 / 11 OB	25.503.1153.0	360	8291 / 2 OB	25.163.0253.0	344	8291 E / 10 / 20 OB	25.179.6053.0	366
8234 / 12	25.502.1253.0	360	8291 / 2 ZN	25.172.0253.0	344	8291 E / 11 / 22	25.179.1153.0	366
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8234 / 14	25.502.1453.0	360	8291 / 2 ZW OB	25.163.6253.0	345	8291 E / 12 / 24 OB	25.179.6253.0	366
8234 / 14 OB	25.503.1453.0	360	8291 / 3	25.162.0353.0	344	8291 E / 8 / 16 OB	25.179.5853.0	366
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8235 / 2 OB	25.523.0253.0	362	8291 / 3 ZW	25.162.6353.0	345	8291 R / 3 Z	25.156.2353.0	342
8235 / 2 ZN	25.522.6253.0	362	8291 / 3 ZW OB	25.163.6353.0	345	8291 R / 3 Z OB	25.156.0353.0	342
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8235 / 3	25.522.0353.0	362	8291 / 4 OB	25.163.0453.0	344	8291 R / 3 / 2 Z OB	25.157.4253.0	343
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8235 / 5	25.522.0553.0	362	8291 / 5 ZW OB	25.163.6553.0	345	8291 R / 6 Z	25.156.2653.0	342
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8235 / 6	25.522.0653.0	362	8291 / 6 OB	25.163.0653.0	344	8291 R / 7 Z	25.156.2753.0	342
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8235 / 7 OB	25.523.0753.0	362	8291 / 7	25.162.0753.0	344	8291 R / 7 / 4 Z OB	25.157.4453.0	343
8235 / 8	25.522.0853.0	362	8291 / 7 OB	25.163.0753.0	344	8291 R / 8 Z	25.156.2853.0	342
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8235 / 9	25.522.0953.0	362	8291 / 7 ZW OB	25.163.6753.0	345	8291 R / 9 Z	25.156.2953.0	342
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8235 / 11	25.522.1153.0	362	8291 / 8 ZW OB	25.163.6853.0	345	8291 R / 10 Z	25.156.3053.0	342
8235 / 11 OB	25.523.1153.0	362	8291 / 9	25.162.0953.0	344	8291 R / 10 Z OB	25.156.1053.0	342
8235 / 12	25.522.1253.0	362	8291 / 9 OB	25.163.0953.0	344	8291 R / 11 Z	25.156.3153.0	342
8235 / 12 OB	25.523.1253.0	362	8291 / 9 ZW	25.162.6953.0	345	8291 R / 11 Z OB	25.156.1153.0	342
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8235 / 14	25.522.1453.0	362	8291 / 10 OB	25.163.1053.0	344	8291 R / 12 Z	25.156.3253.0	342
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8235 / 15	25.522.1553.0	362	8291 / 10 ZW OB	25.163.7053.0	345	8291 R / 13 Z	25.156.3353.0	342
8235 / 15 OB	25.523.1553.0	362	8291 / 11	25.162.1153.0	344	8291 R / 13 Z OB	25.156.1353.0	342
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8235 / 16 OB	25.523.1653.0	362	8291 / 11 ZW	25.162.7153.0	345	8291 R / 14 Z	25.156.3453.0	342
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8258 / 8 TOP H OB	25.791.0853.0	353	8291 / 14 ZW	25.162.7453.0	345	8292 / 3 ZN	25.192.9353.0	338
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8258 / 10 TOP V OB	25.781.1053.0	353	8291 / 15 ZW OB	25.163.7553.0	345	8292 / 4 ZW OB	25.193.6453.0	339
8258 / 11 TOP H OB	25.791.1153.0	353	8291 / 16	25.162.1653.0	344	8292 / 5	25.192.0553.0	338
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8258 / 12 TOP H OB	25.791.1253.0	353	8291 / 16 ZW	25.162.7653.0	345	8292 / 5 ZW OB	25.193.6553.0	339
8258 / 12 TOP V OB	25.781.1253.0	353	8291 / 16 ZW OB	25.163.7653.0	345	8292 / 6	25.192.0653.0	338
8258 / 13 TOP H OB	25.791.1353.0	353	8291 D / 2 / 6	25.181.0253.0	370	8292 / 6 OB	25.193.0653.0	338
8258 / 13 TOP V OB	25.781.1353.0	353	8291 D / 2 / 6 OB	25.181.5253.0	370	8292 / 6 ZW OB	25.193.6653.0	339
8258 / 14 TOP H OB	25.791.1453.0	353	8291 D / 2 / 6 ZN	25.181.4253.0	370	8292 / 7	25.192.0753.0	338
8258 / 14 TOP V OB	25.781.1453.0	353	8291 D / 2 / 6 ZN OB	25.181.9253.0	370	8292 / 7 OB	25.193.0753.0	338
8258 / 15 TOP H OB	25.791.1553.0	353	8291 D / 3 / 9	25.181.0353.0	370	8292 / 7 ZW OB	25.193.6753.0	339
8258 / 15 TOP V OB	25.781.1553.0	353	8291 D / 3 / 9 OB	25.181.5353.0	370	8292 / 8	25.192.0853.0	338
8258 / 16 TOP H OB	25.791.1653.0	353	8291 D / 3 / 9 ZN	25.181.4353.0	370	8292 / 8 .OB	25.193.0853.0	338
8258 / 16 TOP V OB	25.781.1653.0	353	8291 D / 3 / 9 ZN OB	25.181.9353.0	370	8292 / 8 ZW OB	25.193.6853.0	339
8258 / 5 TOP V OB	25.781.0553.0	353	8291 D / 4 / 12	25.181.0453.0	370	8292 / 9	25.192.0953.0	338
8258 / 6 TOP V OB	25.781.0653.0	353	8291 D / 4 / 12 OB	25.181.5453.0	370	8292 / 9 OB	25.193.0953.0	338
8276	25.720.1353.0	378	8291 D / 5 / 15	25.181.0553.0	370	8292 / 9 ZW OB	25.193.6953.0	339
8276 TKS	25.720.1453.0	378	8291 D / 5 / 15 OB	25.181.5553.0	370	8292 / 10	25.192.1053.0	338
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8285 TOP H OB	25.751.3853.0	350	8291 D / 6 / 18 OB	25.181.5653.0	370	8292 / 10 ZW OB	25.193.7053.0	339
8285 TOP H	25.751.3953.0	350	8291 D / 7 / 21	25.181.0753.0	370	8292 / 11	25.192.1153.0	338
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8292 E / 2 / 4 ZN OB	25.199.9253.0	364	8313 S / 11 G OB	25.370.4153.0	300	8413 B / 3 VR	25.385.0353.0	290
8292 E / 3 / 6	25.199.0353.0	364	8313 S / 11 GF OB	25.374.7153.0	300	8413 B / 3 VR OB	25.385.2353.0	290
8292 E / 3 / 6 OB	25.199.5353.0	364	8313 S / 11 W OB	25.372.4153.0	301	8413 B / 4	25.380.0453.0	288
8292 E / 3 / 6 ZN	25.199.4353.0	364	8313 S / 11 WF OB	25.374.3153.0	301	8413 B / 4 F	25.324.4453.0	288
8292 E / 3 / 6 ZN OB	25.199.9353.0	364	8313 S / 12 G OB	25.370.4253.0	300	8413 B / 4 F OB	25.324.6453.0	288
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8292 E / 5 / 10	25.199.0553.0	364	8313 S / 12 WF OB	25.374.3253.0	301	8413 B / 4 VL OB	25.386.2453.0	290
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8292 E / 6 / 12 OB	25.199.5653.0	364	8358 / 3 TOP H OB	25.792.0353.0	354	8413 B / 5	25.380.0553.0	288
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8292 E / 7 / 14 OB	25.199.5753.0	364	8358 / 4 TOP H OB	25.792.0453.0	354	8413 B / 5 F OB	25.324.6553.0	288
8292 E / 8 / 16	25.199.0853.0	364	8358 / 4 TOP V OB	25.782.0453.0	354	8413 B / 5 OB	25.380.3553.0	288
8292 E / 8 / 16 OB	25.199.5853.0	364	8358 / 5 TOP H OB	25.792.0553.0	354	8413 B / 5 VL	25.386.0553.0	290
8292 E / 9 / 18	25.199.0953.0	364	8358 / 5 TOP V OB	25.782.0553.0	354	8413 B / 5 VL OB	25.386.2553.0	290
8292 E / 9 / 18 OB	25.199.5953.0	364	8358 / 6 TOP H OB	25.792.0653.0	354	8413 B / 5 VR	25.385.0553.0	290
8292 E / 10 / 20	25.199.1053.0	364	8358 / 6 TOP V OB	25.782.0653.0	354	8413 B / 5 VR OB	25.385.2553.0	290
8292 E / 10 / 20 OB	25.199.6053.0	364	8358 / 7 TOP H OB	25.792.0753.0	354	8413 B / 6	25.380.0653.0	288
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8292 E / 11 / 22 OB	25.199.6153.0	364	8358 / 8 TOP H OB	25.792.0853.0	354	8413 B / 6 F OB	25.324.6653.0	288
8292 E / 12 / 24	25.199.1253.0	364	8358 / 8 TOP V OB	25.782.0853.0	354	8413 B / 6 OB	25.380.3653.0	288
8292 E / 12 / 24 OB	25.199.6253.0	364	8358 / 9 TOP H OB	25.792.0953.0	354	8413 B / 6 VL	25.386.0653.0	290
8292 EH / 2 OB	27.000.2253.0	340	8358 / 9 TOP V OB	25.782.0953.0	354	8413 B / 6 VL OB	25.386.2653.0	290
8292 EH / 3 OB	27.000.2353.0	340	8358 / 10 TOP H OB	25.792.1053.0	354	8413 B / 6 VR	25.385.0653.0	290
8292 H / 2 OB	27.000.0253.0	341	8358 / 10 TOP V OB	25.782.1053.0	354	8413 B / 6 VR OB	25.385.2653.0	290
8292 H / 3 OB	27.000.0353.0	341	8358 / 11 TOP H OB	25.792.1153.0	354	8413 B / 7	25.380.0753.0	288
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8313 B / 2 F	25.324.0253.0	288	8358 / 12 TOP H OB	25.792.1253.0	354	8413 B / 7 F OB	25.324.6753.0	288
8313 B / 2 F OB	25.324.2253.0	288	8358 / 12 TOP V OB	25.782.1253.0	354	8413 B / 7 OB	25.380.3753.0	288
8313 B / 2 OB	25.360.3253.0	288	8358 / 13 TOP H OB	25.792.1353.0	354	8413 B / 7 VL	25.386.0753.0	290
8313 B / 3	25.360.0353.0	288	8358 / 13 TOP V OB	25.782.1353.0	354	8413 B / 7 VL OB	25.386.2753.0	290
8313 B / 3 F	25.324.0353.0	288	8358 / 14 TOP H OB	25.792.1453.0	354	8413 B / 7 VR	25.385.0753.0	290
8313 B / 3 F OB	25.324.2353.0	288	8358 / 14 TOP V OB	25.782.1453.0	354	8413 B / 7 VR OB	25.385.2753.0	290
8313 B / 3 OB	25.360.3353.0	288	8358 / 15 TOP H OB	25.792.1553.0	354	8413 B / 8	25.380.0853.0	288
8313 B / 4	25.360.0453.0	288	8358 / 15 TOP V OB	25.782.1553.0	354	8413 B / 8 F	25.324.4853.0	288
8313 B / 4 F	25.324.0453.0	288	8358 / 16 TOP H OB	25.792.1653.0	354	8413 B / 8 F OB	25.324.6853.0	288
8313 B / 4 F OB	25.324.2453.0	288	8358 / 16 TOP V OB	25.782.1653.0	354	8413 B / 8 OB	25.380.3853.0	288
8313 B / 4 OB	25.360.3453.0	288	8375 / 1 / 7.5	25.700.0153.0	374	8413 B / 8 VL	25.386.0853.0	290
8313 B / 5	25.360.0553.0	288	8385 TOP H	25.761.3253.0	352	8413 B / 8 VL OB	25.386.2853.0	290
8313 B / 5 F	25.324.0553.0	288	8385 TOP H	25.761.3453.0	352	8413 B / 8 VR	25.385.0853.0	290
8313 B / 5 F OB	25.324.2553.0	288	8385 TOP H	25.761.3653.0	352	8413 B / 8 VR OB	25.385.2853.0	290
8313 B / 5 OB	25.360.3553.0	288	8385 TOP H	25.761.3853.0	352	8413 B / 9	25.380.0953.0	288
8313 B / 6	25.360.0653.0	288	8385 TOP H	25.761.3753.0	352	8413 B / 9 F	25.324.4953.0	288
8313 B / 6 F	25.324.0653.0	288	8385 TOP H	25.761.3853.0	352	8413 B / 9 F OB	25.324.6953.0	288
8313 B / 6 F OB	25.324.2653.0	288	8385 TOP V	25.761.4053.0	351	8413 B / 9 OB	25.380.3953.0	288
8313 B / 6 OB	25.360.3653.0	288	8385 TOP V	25.761.0553.0	351	8413 B / 9 VL	25.386.0953.0	290
8313 B / 7	25.360.0753.0	288	8385 TOP V	25.761.0753.0	351	8413 B / 9 VL OB	25.386.2953.0	290
8313 B / 7 F	25.324.0753.0	288	8385 TOP V	25.761.0853.0	351	8413 B / 9 VR	25.385.0953.0	290
8313 B / 7 F OB	25.324.2753.0	288	8385 / 1 TOP H	25.761.0153.0	352	8413 B / 9 VR OB	25.385.2953.0	290
8313 B / 7 OB	25.360.3753.0	288	8385 / 1 TOP V	25.761.0053.0	351	8413 B / 10	25.380.1053.0	288
8313 B / 8	25.360.0853.0	288	8385 / 2 TOP V	25.761.0253.0	351	8413 B / 10 F	25.324.5053.0	288
8313 B / 8 F	25.324.0853.0	288	8385 / 3 TOP H	25.761.3353.0	352	8413 B / 10 F OB	25.324.7053.0	288
8313 B / 8 F OB	25.324.2853.0	288	8385 / 3 TOP V	25.761.0353.0	351	8413 B / 10 OB	25.380.4053.0	288
8313 B / 8 OB	25.360.3853.0	288	8385 / 6 TOP V	25.761.0653.0	351	8413 B / 10 VL	25.386.1053.0	288
8313 B / 9	25.360.0953.0	288	8390 / 2	25.150.0253.0	359	8413 B / 10 VL OB	25.386.3053.0	290
8313 B / 9 F	25.324.0953.0	288	8390 / 2 OB	25.151.0253.0	359	8413 B / 10 VR	25.385.1053.0	290
8313 B / 9 F OB	25.324.2953.0	288	8390 / 3	25.150.0353.0	359	8413 B / 10 VR OB	25.385.3053.0	290
8313 B / 9 OB	25.360.3953.0	288	8390 / 3 OB	25.151.0353.0	359	8413 B / 11	25.380.1153.0	288
8313 B / 10	25.360.1053.0	288	8390 / 4	25.150.0453.0	359	8413 B / 11 F	25.324.5153.0	288
8313 B / 10 F	25.324.1053.0	288	8390 / 4 OB	25.151.0453.0	359	8413 B / 11 F OB	25.324.7153.0	288
8313 B / 10 F OB	25.324.3053.0	288	8390 / 5	25.150.0553.0	359	8413 B / 11 OB	25.380.4153.0	288
8313 B / 10 OB	25.360.4053.0	288	8390 / 5 OB	25.151.0553.0	359	8413 B / 11 VL	25.386.1153.0	290
8313 B / 11	25.360.1153.0	288	8390 / 6	25.150.0653.0	359	8413 B / 11 VL OB	25.386.3153.0	290
8313 B / 11 F	25.324.1153.0	288	8390 / 6 OB	25.151.0653.0	359	8413 B / 11 VR	25.385.1153.0	290
8313 B / 11 F OB	25.324.3153.0	288	8390 / 7	25.150.0753.0	359	8413 B / 11 VR OB	25.385.3153.0	290
8313 B / 11 OB	25.360.4153.0	288	8390 / 7 OB	25.151.0753.0	359	8413 B / 12	25.380.1253.0	288
8313 B / 12	25.360.1253.0	288	8390 / 8	25.150.0853.0	359	8413 B / 12 F	25.324.5253.0	288
8313 B / 12 F	25.324.1253.0	288	8390 / 8 OB	25.151.0853.0	359	8413 B / 12 F OB	25.324.7253.0	288
8313 B / 12 F OB	25.324.3253.0	288	8390 / 9	25.150.0953.0	359	8413 B / 12 OB	25.380.4253.0	288
8313 B / 12 OB	25.360.4253.0	288	8390 / 9 OB	25.151.0953.0	359	8413 B / 12 VL	25.386.1253.0	290
8313 S / 2 G OB	25.370.3253.0	300	8390 / 10	25.150.1053.0	359	8413 B / 12 VL OB	25.386.3253.0	290
8313 S / 2 GF OB	25.374.6253.0	300	8390 / 10 OB	25.151.1053.0	359	8413 B / 12 VR	25.385.1253.0	290
8313 S / 2 W OB	25.372.3253.0	301	8390 / 11	25.150.1153.0	359	8413 B / 12 VR OB	25.385.3253.0	290
8313 S / 2 WF OB	25.374.2253.0	301	8390 / 11 OB	25.151.1153.0	359	8413 BFK / 2 TOP K	25.880.0253.0	294
8313 S / 3 G OB	25.370.3353.0	300	8390 / 12	25.150.1253.0	359	8413 BFK / 2 TOP K OB	25.880.3253.0	294
8313 S / 3 GF OB	25.374.6353.0	300	8390 / 12 OB	25.151.1253.0	359	8413 BFK / 2 TOP K F	25.881.0253.0	294
8313 S / 3 W OB	25.372.3353.0	301	8391 / 2	25.164.0253.0	346	8413 BFK / 2 TOP K F OB	25.881.3253.0	294
8313 S / 3 WF OB	25.374.2353.0	301	8391 / 2 OB	25.165.0253.0	346	8413 BFK / 3 TOP K	25.880.0353.0	294
8313 S / 4 G OB	25.370.3453.0	300	8391 / 2 Z	25.164.3253.0	347	8413 BFK / 3 TOP K OB	25.880.3353.0	294
8313 S / 4 GF OB	25.374.6453.0	300	8391 / 2 Z OB	25.165.3253.0	346	8413 BFK / 3 TOP K F	25.881.0353.0	294
8313 S / 4 W OB	25.372.3453.0	301	8391 / 2 ZN	25.174.0253.0	347	8413 BFK / 3 TOP K F OB	25.881.3353.0	294
8313 S / 4 WF OB	25.374.2453.0	301	8391 / 2 ZN OB	25.175.0253.0	346	8413 BFK / 4 TOP K	25.880.0453.0	294
8313 S / 5 G OB	25.370.3553.0	300	8391 / 2 W	25.164.6253.0	347	8413 BFK / 4 TOP K OB	25.880.3453.0	294
8313 S / 5 GF OB	25.374.6553.0	300	8391 / 2 W OB	25.165.6253.0	347	8413 BFK / 4 TOP K F	25.881.0453.0	294
8313 S / 5 W OB	25.372.3553.0	301	8391 / 3	25.164.0353.0	346	8413 BFK / 4 TOP K F OB	25.881.3453.0	294
8313 S / 5 WF OB	25.374.2553.0	301	8391 / 3 OB	25.165.0353.0	346	8413 BFK / 5 TOP K	25.880.0553.0	294
8313 S / 6 G OB	25.370.3653.0	300	8391 / 3 Z	25.164.3353.0	347	8413 BFK / 5 TOP K OB	25.880.3553.0	294
8313 S / 6 GF OB	25.374.6653.0	300	8391 / 3 Z OB	25.165.335				

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8413 BFK / 8 TOP K F OB	25.881.3853.0	294	8496 / 3 TOP H OB	27.713.0353.0	356	8513 BFK/15 TOP OB	25.630.4553.0	281
8413 BFK / 9 TOP K	25.880.0953.0	294	8496 / 3 TOP V OB	27.703.0353.0	356	8513 BFK/16 TOP	25.630.1653.0	281
8413 BFK / 9 TOP K OB	25.880.3953.0	294	8496 / 4 TOP H OB	27.713.0453.0	356	8513 BFK/16 TOP OB	25.630.4653.0	281
8413 BFK / 9 TOP K F	25.881.0953.0	294	8496 / 4 TOP V OB	27.703.0453.0	356	8513 S / 2 G	25.646.0253.0	284
8413 BFK / 9 TOP K F OB	25.881.3953.0	294	8491 / 2	25.166.0253.0	346	8513 S / 2 G F	25.646.3253.0	285
8413 BFK / 10 TOP K	25.880.1053.0	294	8491 / 2 OB	25.167.0253.0	346	8513 S / 2 W	25.647.0253.0	284
8413 BFK / 10 TOP K OB	25.880.4053.0	294	8491 / 2 Z	25.166.3253.0	347	8513 S / 2 W F	25.647.3253.0	285
8413 BFK / 10 TOP K F	25.881.1053.0	294	8491 / 2 Z OB	25.167.3253.0	346	8513 S / 3 G	25.646.0353.0	284
8413 BFK / 10 TOP K F OB	25.881.4053.0	294	8491 / 2 ZN	25.176.0253.0	347	8513 S / 3 GF	25.646.3353.0	285
8413 BFK / 11 TOP K	25.880.1153.0	294	8491 / 2 ZN OB	25.177.0253.0	346	8513 S / 3 W	25.647.0353.0	284
8413 BFK / 11 TOP K OB	25.880.4153.0	294	8491 / 2 ZW	25.166.6253.0	347	8513 S / 3 WF	25.647.3353.0	285
8413 BFK / 11 TOP K F	25.881.1153.0	294	8491 / 2 ZW OB	25.167.6253.0	347	8513 S / 4 G	25.646.0453.0	284
8413 BFK / 11 TOP K F OB	25.881.4153.0	294	8491 / 3	25.166.0353.0	346	8513 S / 4 GF	25.646.3453.0	285
8413 BFK / 12 TOP K	25.880.1253.0	294	8491 / 3 OB	25.167.0353.0	346	8513 S / 4 W	25.647.0453.0	284
8413 BFK / 12 TOP K OB	25.880.4253.0	294	8491 / 3 Z	25.166.3353.0	347	8513 S / 4 WF	25.647.3453.0	285
8413 BFK / 12 TOP K F	25.881.1253.0	294	8491 / 3 Z OB	25.167.3353.0	346	8513 S / 5 G	25.646.0553.0	284
8413 BFK / 12 TOP K F OB	25.881.4253.0	294	8491 / 3 ZN	25.176.0353.0	347	8513 S / 5 GF	25.646.3553.0	285
8413 S / 2 G OB	25.390.3253.0	300	8491 / 3 ZN OB	25.177.0353.0	346	8513 S / 5 W	25.647.0553.0	284
8413 S / 2 GF OB	25.398.6253.0	300	8491 / 3 ZW	25.166.6353.0	347	8513 S / 5 WF	25.647.3553.0	285
8413 S / 2 W OB	25.392.3253.0	301	8491 / 3 ZW OB	25.167.6353.0	347	8513 S / 6 G	25.646.0653.0	284
8413 S / 2 WF OB	25.398.2253.0	301	8513 B / 2	25.640.0253.0	280	8513 S / 6 GF	25.646.3653.0	285
8413 S / 3 G OB	25.390.3353.0	300	8513 B / 2 F	25.641.0253.0	280	8513 S / 6 W	25.647.0653.0	284
8413 S / 3 GF OB	25.398.6353.0	300	8513 B / 2 F OB	25.641.3253.0	280	8513 S / 6 WF	25.647.3653.0	285
8413 S / 3 W OB	25.392.3353.0	301	8513 B / 2 OB	25.640.3253.0	280	8513 S / 7 G	25.646.0753.0	284
8413 S / 3 WF OB	25.398.2353.0	301	8513 B / 3	25.640.0353.0	280	8513 S / 7 GF	25.646.3753.0	285
8413 S / 4 G OB	25.390.3453.0	300	8513 B / 3 F	25.641.0353.0	280	8513 S / 7 W	25.647.0753.0	284
8413 S / 4 GF OB	25.398.6453.0	300	8513 B / 3 F OB	25.641.3353.0	280	8513 S / 7 WF	25.647.3753.0	285
8413 S / 4 W OB	25.392.3453.0	301	8513 B / 3 OB	25.640.3353.0	280	8513 S / 8 G	25.646.0853.0	284
8413 S / 4 WF OB	25.398.2453.0	301	8513 B / 4	25.640.0453.0	280	8513 S / 8 GF	25.646.3853.0	285
8413 S / 5 G OB	25.390.3553.0	300	8513 B / 4 F	25.641.0453.0	280	8513 S / 8 W	25.647.0853.0	284
8413 S / 5 GF OB	25.398.6553.0	300	8513 B / 4 F OB	25.641.3453.0	280	8513 S / 8 WF	25.647.3853.0	285
8413 S / 5 W OB	25.392.3553.0	301	8513 B / 4 OB	25.640.3453.0	280	8513 S / 9 G	25.646.0953.0	284
8413 S / 5 WF OB	25.398.2553.0	301	8513 B / 5	25.640.0553.0	280	8513 S / 9 GF	25.646.3953.0	285
8413 S / 6 G OB	25.390.3653.0	300	8513 B / 5 F	25.641.0553.0	280	8513 S / 9 W	25.647.0953.0	284
8413 S / 6 GF OB	25.398.6653.0	300	8513 B / 5 F OB	25.641.3553.0	280	8513 S / 9 WF	25.647.3953.0	285
8413 S / 6 W OB	25.392.3653.0	301	8513 B / 5 OB	25.640.3553.0	280	8513 S / 10 G	25.646.1053.0	284
8413 S / 6 WF OB	25.398.2653.0	301	8513 B / 6	25.640.0653.0	280	8513 S / 10 GF	25.646.4053.0	285
8413 S / 7 G OB	25.390.3753.0	300	8513 B / 6 F	25.641.0653.0	280	8513 S / 10 W	25.647.1053.0	284
8413 S / 7 GF OB	25.398.6753.0	300	8513 B / 6 F OB	25.641.3653.0	280	8513 S / 10 WF	25.647.4053.0	285
8413 S / 7 W OB	25.392.3753.0	301	8513 B / 6 OB	25.640.3653.0	280	8513 S / 11 G	25.646.1153.0	284
8413 S / 7 WF OB	25.398.2753.0	301	8513 B / 7	25.640.0753.0	280	8513 S / 11 GF	25.646.4153.0	285
8413 S / 8 G OB	25.390.3853.0	300	8513 B / 7 F	25.641.0753.0	280	8513 S / 11 W	25.647.1153.0	284
8413 S / 8 GF OB	25.398.6853.0	300	8513 B / 7 F OB	25.641.3753.0	280	8513 S / 11 WF	25.647.4153.0	285
8413 S / 8 W OB	25.392.3853.0	301	8513 B / 7 OB	25.640.3753.0	280	8513 S / 12 G	25.646.1253.0	284
8413 S / 8 WF OB	25.398.2853.0	301	8513 B / 8	25.640.0853.0	280	8513 S / 12 GF	25.646.4253.0	285
8413 S / 9 G OB	25.390.3953.0	300	8513 B / 8 F	25.641.0853.0	280	8513 S / 12 W	25.647.1253.0	284
8413 S / 9 GF OB	25.398.6953.0	300	8513 B / 8 F OB	25.641.3853.0	280	8513 S / 12 WF	25.647.4253.0	285
8413 S / 9 W OB	25.392.3953.0	301	8513 B / 8 OB	25.640.3853.0	280	8513 S / 13 G	25.646.1353.0	284
8413 S / 9 WF OB	25.398.2953.0	301	8513 B / 9	25.640.0953.0	280	8513 S / 13 GF	25.646.4353.0	285
8413 S / 10 G OB	25.390.4053.0	300	8513 B / 9 F	25.641.0953.0	280	8513 S / 13 W	25.647.4353.0	285
8413 S / 10 GF OB	25.398.7053.0	300	8513 B / 9 F OB	25.641.3953.0	280	8513 S / 14 G	25.646.1453.0	284
8413 S / 10 W OB	25.392.4053.0	301	8513 B / 9 OB	25.640.3953.0	280	8513 S / 14 GF	25.646.4453.0	285
8413 S / 10 WF OB	25.398.3053.0	301	8513 B / 10	25.640.1053.0	280	8513 S / 14 W	25.647.1453.0	284
8413 S / 11 G OB	25.390.4153.0	300	8513 B / 10 F	25.641.1053.0	280	8513 S / 14 WF	25.647.4453.0	285
8413 S / 11 GF OB	25.398.7153.0	300	8513 B / 10 F OB	25.641.4053.0	280	8513 S / 15 G	25.646.1553.0	284
8413 S / 11 W OB	25.392.4153.0	301	8513 B / 10 OB	25.640.4053.0	280	8513 S / 15 GF	25.646.4553.0	285
8413 S / 11 WF OB	25.398.3153.0	301	8513 B / 11	25.640.1153.0	280	8513 S / 15 W	25.647.1553.0	284
8413 S / 12 G OB	25.390.4253.0	300	8513 B / 11 F	25.641.1153.0	280	8513 S / 15 WF	25.647.4553.0	285
8413 S / 12 GF OB	25.398.7253.0	300	8513 B / 11 F OB	25.641.4153.0	280	8513 S / 16 G	25.646.1653.0	284
8413 S / 12 W OB	25.392.4253.0	301	8513 B / 11 OB	25.640.4153.0	280	8513 S / 16 GF	25.646.4653.0	285
8413 S / 12 WF OB	25.398.3253.0	301	8513 B / 12	25.640.1253.0	280	8513 S / 16 W	25.647.1653.0	284
8458 / 2 TOP H OB	25.793.0253.0	354	8513 B / 12 F	25.641.1253.0	280	8513 S / 16 WF	25.647.4653.0	285
8458 / 2 TOP V OB	25.783.0253.0	354	8513 B / 12 F OB	25.641.4253.0	280	8513 SUFK / 2 OB	25.642.3253.0	281
8458 / 3 TOP H OB	25.793.0353.0	354	8513 B / 12 OB	25.640.4253.0	280	8513 SUFK / 3 OB	25.642.3353.0	281
8458 / 3 TOP V OB	25.783.0353.0	354	8513 B / 13	25.640.1353.0	280	8513 SUFK / 4 OB	25.642.3453.0	281
8458 / 4 TOP H OB	25.793.0453.0	354	8513 B / 13 F	25.641.1353.0	280	8513 SUFK / 5 OB	25.642.3553.0	281
8458 / 4 TOP V OB	25.783.0453.0	354	8513 B / 13 F OB	25.641.4353.0	280	8513 SUFK / 6 OB	25.642.3653.0	281
8458 / 5 TOP H OB	25.793.0553.0	354	8513 B / 13 OB	25.640.4353.0	280	8513 SUFK / 7 OB	25.642.3753.0	281
8458 / 5 TOP V OB	25.783.0553.0	354	8513 B / 14	25.640.1453.0	280	8513 SUFK / 8 OB	25.642.3853.0	281
8458 / 6 TOP H OB	25.793.0653.0	354	8513 B / 14 F	25.641.1453.0	280	8513 SUFK / 9 OB	25.642.3953.0	281
8458 / 6 TOP V OB	25.783.0653.0	354	8513 B / 14 F OB	25.641.4453.0	280	8513 SUFK / 10 OB	25.642.4053.0	281
8458 / 7 TOP H OB	25.793.0753.0	354	8513 B / 14 OB	25.640.4453.0	280	8513 SUFK / 11 OB	25.642.4153.0	281
8458 / 7 TOP V OB	25.783.0753.0	354	8513 B / 15	25.640.1553.0	280	8513 SUFK / 12	25.642.1253.0	281
8458 / 8 TOP H OB	25.793.0853.0	354	8513 B / 15 F	25.641.1553.0	280	8513 SUFK / 12 OB	25.642.4253.0	281
8458 / 8 TOP V OB	25.783.0853.0	354	8513 B / 15 F OB	25.641.4553.0	280	8520 B / 2 OB	25.470.0253.0	324
8458 / 9 TOP H OB	25.793.0953.0	354	8513 B / 15 OB	25.640.4553.0	280	8520 B / 3	25.470.3353.0	324
8458 / 9 TOP V OB	25.783.0953.0	354	8513 B / 16	25.640.1653.0	280	8520 B / 3 OB	25.470.0353.0	324
8458 / 10 TOP H OB	25.793.1053.0	354	8513 B / 16 F	25.641.1653.0	280	8520 B / 4 OB	25.470.0453.0	324
8458 / 10 TOP V OB	25.783.1053.0	354	8513 B / 16 F OB	25.641.4653.0	280	8520 B / 5 OB	25.470.0553.0	324
8458 / 11 TOP H OB	25.793.1153.0	354	8513 B / 16 OB	25.640.4653.0	280	8520 B / 6 OB	25.470.0653.0	324
8458 / 11 TOP V OB	25.783.1153.0	354	8513 BDK/10 TOP	25.630.1053.0	281	8520 B / 7	25.470.3753.0	324
8458 / 12 TOP H OB	25.793.1253.0	354	8513 BFK/ 2 TOP	25.630.0253.0	281	8520 B / 7 OB	25.470.0753.0	324
8458 / 12 TOP V OB	25.783.1253.0	354	8513 BFK/ 2 TOP OB	25.630.3253.0	281	8520 B / 8	25.470.3853.0	324
8458 / 13 TOP H OB	25.793.1353.0	354	8513 BFK/ 3 TOP	25.630.0353.0	281	8520 B / 8 OB	25.470.0853.0	324
8458 / 13 TOP V OB	25.783.1353.0	354	8513 BFK/ 3 TOP OB	25.630.3353.0	281	8520 B / 9 OB	25.470.0953.0	324
8458 / 14 TOP H OB	25.793.1453.0	354	8513 BFK/ 4 TOP	25.630.0453.0	281	8520 B / 10 OB	25.470.1053.0	324
8458 / 14 TOP V OB	25.783.1453.0	354	8513 BFK/ 4 TOP OB	25.630.3453.0	281	8520 B / 11	25.470.4153.0	324
8458 / 15 TOP H OB	25.793.1553.0	354	8513 BFK/ 5 TOP	25.630.0553.0	281	8520 B / 11 OB	25.470.1153.0	324
8458 / 15 TOP V OB	25.783.1553.0	354	8513 BFK/ 5 TOP OB	25.630.3553.0	281	8520 B / 12 OB	25.470.1253.0	324
8458 / 16 TOP H OB	25.793.1653.0	354	8513 BFK/ 6 TOP	25.630.0653.0	281	8520 B / 13	25.470.4353.0	324
8458 / 16 TOP V OB	25.783.1653.0	354	8513 BFK/ 6 TOP OB	25.630.3653.0	281	8520 B / 13 OB	25.470.1353.0	324
8485 TOP H	25.771.3453.0	352	8513 BFK/ 7 TOP	25.630.0753.0	281	8520 B / 14	25.470.4453.0	324
8485 TOP H	25.771.3553.0	352	8513 BFK/ 7 TOP OB	25.630.3753.0	281	8520 B / 14 OB	25.470.1453.0	324
8485 TOP H	25.771.3753.0	352	8513 BFK/ 8 TOP	25.630.0853.0	281	8520 B / 15	25.470.4553.0	

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8520 BL / 11 W OB	25.471.1153.0	325	8593 / 16 OB	25.195.1653.0	336	8813 B / 11 OB	25.620.4153.0	280
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8520 BL / 13 G OB	25.472.1353.0	325	8813 B / 2 F	25.621.0253.0	280	8813 B / 11 VL F	25.625.1153.0	283
8520 BL / 13 W	25.471.4353.0	325	8813 B / 2 F OB	25.621.3253.0	280	8813 B / 11 VL F OB	25.625.4153.0	283
8520 BL / 13 W OB	25.471.1353.0	325	8813 B / 2 OB	25.620.3253.0	280	8813 B / 11 VL OB	25.624.4153.0	282
8520 BL / 14 G	25.472.4453.0	325	8813 B / 2 VL	25.624.0253.0	282	8813 B / 11 VR	25.622.1153.0	282
8520 BL / 14 G OB	25.472.1453.0	325	8813 B / 2 VL F	25.625.0253.0	283	8813 B / 11 VR F	25.623.1153.0	283
8520 BL / 14 W	25.471.4453.0	325	8813 B / 2 VL F OB	25.625.3253.0	283	8813 B / 11 VR F OB	25.623.4153.0	283
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8520 S / 2 G 1.0	25.535.3225.0	324	8813 B / 3 OB	25.620.3353.0	280	8813 B / 12 VL OB	25.624.4253.0	282
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8520 S / 8 G 0.8	25.535.0825.0	324	8813 B / 4 OB	25.620.3453.0	280	8813 B / 13 VL F OB	25.625.4353.0	283
8520 S / 8 G 1.0	25.535.3825.0	324	8813 B / 4 VL	25.624.0453.0	282	8813 B / 13 VL OB	25.624.4353.0	282
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8520 S / 11 G 0.8	25.535.1125.0	324	8813 B / 4 VL OB	25.624.3453.0	282	8813 B / 13 VR F OB	25.623.4353.0	283
8520 S / 11 G 1.0	25.535.4125.0	324	8813 B / 4 VR F	25.623.0453.0	283	8813 B / 14	25.620.1453.0	280
8520 S / 12 G 0.8	25.535.1225.0	324	8813 B / 4 VR F OB	25.623.3453.0	283	8813 B / 14 F	25.621.1453.0	280
8520 S / 12 G 1.0	25.535.4225.0	324	8813 B / 4 VR OB	25.622.3453.0	282	8813 B / 14 F OB	25.621.4453.0	280
8520 S / 13 G 0.8	25.535.1325.0	324	8813 B / 5	25.620.0553.0	280	8813 B / 14 OB	25.620.4453.0	280
8520 S / 13 G 1.0	25.535.4325.0	324	8813 B / 5 F	25.621.0553.0	280	8813 B / 14 VL	25.624.1453.0	282
8520 S / 14 G 0.8	25.535.1425.0	324	8813 B / 5 F OB	25.621.3553.0	280	8813 B / 14 VL F	25.625.1453.0	283
8520 S / 14 G 1.0	25.535.4425.0	324	8813 B / 5 OB	25.620.3553.0	280	8813 B / 14 VL F OB	25.625.4453.0	283
8520 S / 15 G 0.8	25.535.1525.0	324	8813 B / 5 VL	25.624.0553.0	282	8813 B / 14 VL OB	25.624.4453.0	282
8520 S / 15 G 1.0	25.535.4525.0	324	8813 B / 5 VL F	25.625.0553.0	283	8813 B / 14 VR	25.622.1453.0	282
8520 S / 16 G 0.8	25.535.1625.0	324	8813 B / 5 VL F OB	25.625.3553.0	283	8813 B / 14 VR F	25.623.1453.0	283
8520 S / 16 G 1.0	25.535.4625.0	324	8813 B / 5 VL OB	25.624.3553.0	282	8813 B / 14 VR F OB	25.623.4453.0	283
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8543 / 3	25.600.5353.0	316	8813 B / 5 VR OB	25.622.3553.0	282	8813 B / 15 F	25.621.1553.0	280
8543 / 3 OB	25.602.5353.0	316	8813 B / 6	25.620.0653.0	280	8813 B / 15 F OB	25.621.4553.0	280
8543 / 4	25.600.5453.0	316	8813 B / 6 F	25.621.0653.0	280	8813 B / 15 OB	25.620.4553.0	280
8543 / 4 OB	25.602.5453.0	316	8813 B / 6 F OB	25.621.3653.0	280	8813 B / 15 VL	25.624.1553.0	282
8543 / 5	25.600.5553.0	316	8813 B / 6 OB	25.620.3653.0	280	8813 B / 15 VL F	25.625.1553.0	283
8543 / 5 OB	25.602.5553.0	316	8813 B / 6 VL	25.624.0653.0	282	8813 B / 15 VL F OB	25.625.4553.0	283
8543 / 6	25.600.5653.0	316	8813 B / 6 VL F	25.625.0653.0	283	8813 B / 15 VL OB	25.624.4553.0	282
8543 / 6 OB	25.602.5653.0	316	8813 B / 6 VL F OB	25.625.3653.0	283	8813 B / 15 VR	25.622.1553.0	282
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8543 / 9 OB	25.602.5953.0	316	8813 B / 7	25.620.0753.0	280	8813 B / 16 F OB	25.621.4653.0	280
8543 / 10	25.600.6053.0	316	8813 B / 7 F	25.621.0753.0	280	8813 B / 16 OB	25.620.4653.0	280
8543 / 10 OB	25.602.6053.0	316	8813 B / 7 F OB	25.621.3753.0	280	8813 B / 16 VL	25.624.1653.0	282
8543 / 11	25.600.6153.0	316	8813 B / 7 OB	25.620.3753.0	280	8813 B / 16 VL F	25.625.1653.0	283
8543 / 11 OB	25.602.6153.0	316	8813 B / 7 VL	25.624.0753.0	282	8813 B / 16 VL F OB	25.625.4653.0	283
8543 / 12	25.600.6253.0	316	8813 B / 7 VL F	25.625.0753.0	283	8813 B / 16 VL OB	25.624.4653.0	282
8543 / 12 OB	25.602.6253.0	316	8813 B / 7 VL F OB	25.625.3753.0	283	8813 B / 16 VR	25.622.1653.0	282
8543 / 13	25.600.6353.0	316	8813 B / 7 VL OB	25.624.3753.0	282	8813 B / 16 VR F OB	25.623.4653.0	283
8543 / 13 OB	25.602.6353.0	316	8813 B / 7 VR F	25.623.0753.0	283	8813 B / 16 VR OB	25.622.4653.0	282
8543 / 14	25.600.6453.0	316	8813 B / 7 VR F OB	25.623.3753.0	283	8813 B / 3 VR	25.622.0353.0	282
8543 / 14 OB	25.602.6453.0	316	8813 B / 7 VR OB	25.622.3753.0	282	8813 B / 4 VR	25.622.0453.0	282
8543 / 15	25.600.6553.0	316	8813 B / 8	25.620.0853.0	280	8813 B / 7 VR	25.622.0753.0	282
8543 / 15 OB	25.602.6553.0	316	8813 B / 8 F	25.621.0853.0	280	8813 B / 9 VR	25.622.0953.0	282
8543 / 16	25.600.6653.0	316	8813 B / 8 F OB	25.621.3853.0	280	8813 B / 5 VR	25.622.0553.0	282
8543 / 16 OB	25.602.6653.0	316	8813 B / 8 OB	25.620.3853.0	280	8813 S / 2 G	25.626.0253.0	284
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8593 / 2 OB	25.195.0253.0	336	8813 B / 8 VL F OB	25.625.3853.0	283	8813 S / 2 WF	25.627.3253.0	285
8593 / 2 ZN	25.194.9253.0	336	8813 B / 8 VL OB	25.624.3853.0	282	8813 S / 3 G	25.626.0353.0	284
8593 / 2 ZN OB	25.195.9253.0	336	8813 B / 8 VR	25.622.0853.0	282	8813 S / 3 GF	25.626.3353.0	285
8593 / 3	25.194.0353.0	336	8813 B / 8 VR F	25.623.0853.0	283	8813 S / 3 W	25.627.0353.0	284
8593 / 3 OB	25.195.0353.0	336	8813 B / 8 VR F OB	25.623.3853.0	283	8813 S / 3 WF	25.627.3353.0	285
8593 / 3 ZN	25.194.9353.0	336	8813 B / 8 VR OB	25.622.3853.0	282	8813 S / 4 G	25.626.0453.0	284
8593 / 3 ZN OB	25.195.9353.0	336	8813 B / 9	25.620.0953.0	280	8813 S / 4 GF	25.626.3453.0	285
8593 / 4	25.194.0453.0	336	8813 B / 9 F	25.621.0953.0	280	8813 S / 4 W	25.627.0453.0	284
8593 / 4 OB	25.195.0453.0	336	8813 B / 9 F OB	25.621.3953.0	280	8813 S / 4 WF	25.627.3453.0	285
8593 / 5	25.194.0553.0	336	8813 B / 9 OB	25.620.3953.0	280	8813 S / 5 G	25.626.0553.0	284
8593 / 5 OB	25.195.0553.0	336	8813 B / 9 VL	25.624.0953.0	282	8813 S / 5 GF	25.626.3553.0	285
8593 / 6	25.194.0653.0	336	8813 B / 9 VL F	25.625.0953.0	283	8813 S / 5 W	25.627.0553.0	284
8593 / 6 OB	25.195.0653.0	336	8813 B / 9 VL F OB	25.625.3953.0	283	8813 S / 5 WF	25.627.3553.0	285
8593 / 7	25.194.0753.0	336	8813 B / 9 VL OB	25.624.3953.0	282	8813 S / 6 G	25.626.0653.0	284
8593 / 7 OB	25.195.0753.0	336	8813 B / 9 VR F	25.623.0953.0	283	8813 S / 6 GF	25.626.3653.0	285
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8813 S / 11 WF	25.627.4153.0	285	9700 A / 8 SL 2 S35	56.010.9053.0	189	9704 A / 5 B	04.841.1550.0	791
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8813 S / 12 GF	25.626.4253.0	285	9700 A / 10 S35	54.016.7553.0	189	9704 A / 6 B	04.841.1650.0	791
8813 S / 12 W	25.627.1253.0	284	9700 A / 10 S35 BLAU	54.016.7553.6	191	9704 A / 6 B	04.841.1650.0	181
8813 S / 12 WF	25.627.4253.0	285	9700 A / 10 SL 2 S35	56.016.9053.0	189	9704 A / 6 B	04.841.1650.0	395
8813 S / 13 G	25.626.1353.0	284	9700 A / 12 S35	54.025.7553.0	191	9704 A / 7 B	04.841.1750.0	181
8813 S / 13 GF	25.626.4353.0	285	9700 A / 12 S35 BLAU	54.025.7553.6	191	9704 A / 7 B	04.841.1750.0	598
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8813 S / 14 GF	25.626.4453.0	285	9700 A / 16 SL 2 S35	56.035.9053.0	189	9704 A / 8 B	04.841.1850.0	181
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8813 S / 15 W	25.627.1553.0	284	9700 B/30 SI E18/S35/W0	56.925.4055.0	128	9704 A / 9 B	04.841.1950.0	791
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8813 S / 16 W	25.627.1653.0	284	9701 / 6 SL	07.312.0053.0	194	9704 A / 4 B	04.841.7450.0	181
8813 S / 16 WF	25.627.4653.0	285	9701 / 8	07.310.3253.0	191	9704 A / 4 B	04.841.7450.0	791
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8893 / 3 OB	25.197.0353.0	336	9701 A/6 SI KO TP 2/W0	07.310.5855.0	143	9704 A / 4 B	04.841.7650.0	599
8893 / 3 ZN	25.196.9353.0	336	9701 B / 8 ETK	07.310.5253.0	191	9704 A / 4 B	04.841.7650.0	395
8893 / 3 ZN OB	25.197.9353.0	336	9701 B / 10 ETK	07.310.5353.0	193	9704 A / 4 B	04.841.7650.0	791
8893 / 4	25.196.0453.0	336	9702 / 6	07.310.3453.0	190	9704 A / AG B	04.841.2250.0	395
8893 / 4 OB	25.197.0453.0	336	9702 / 6 BLAU	07.310.3453.6	191	9704 A / AG B	04.841.2250.0	598
8893 / 5	25.196.0553.0	336	9702 / 8	07.310.3553.0	190	9704 A / AG B	04.841.2250.0	791
8893 / 5 OB	25.197.0553.0	336	9702 / 8 BLAU	07.310.3553.6	191	9704 A / AK B	04.841.4850.0	599
8893 / 6	25.196.0653.0	336	9702 / 10	07.310.4053.0	191	9704 A / AK B	04.841.4850.0	395
8893 / 6 OB	25.197.0653.0	336	9702 / 10 BLAU	07.310.4053.6	191	9704 A / AK B	04.841.4850.0	791
8893 / 7	25.196.0753.0	336	9702 / 12	07.310.3653.0	191	9704 A / BG B	04.841.2350.0	598
8893 / 7 OB	25.197.0753.0	336	9702 / 12 BLAU	07.310.3653.6	191	9704 A / BG B	04.841.2350.0	791
8893 / 8	25.196.0853.0	336	9703 / 5 M	Z7.215.0027.0	190	9704 A / BG B	04.841.2350.0	395
8893 / 8 OB	25.197.0853.0	336	9703 / 5-2	Z7.215.0227.0	189	9704 A / BK B	04.841.4950.0	395
8893 / 9	25.196.0953.0	336	9703 / 5-3	Z7.215.0327.0	190	9704 A / BK B	04.841.4950.0	791
8893 / 9 OB	25.197.0953.0	336	9703 / 5-4	Z7.215.0427.0	190	9704 A / BK B	04.841.4950.0	599
8893 / 10	25.196.1053.0	336	9703 / 5-5	Z7.215.0527.0	190	9704 A / CG B	04.841.2450.0	395
8893 / 10 OB	25.197.1053.0	336	9703 / 5-6	Z7.215.0627.0	190	9704 A / CG B	04.841.2450.0	791
8893 / 11 OB	25.197.1153.0	336	9703 / 6 M-70	Z7.211.0027.0	72	9704 A / CG B	04.841.2450.0	598
8893 / 12	25.196.1253.0	336	9703 / 6-2	Z7.211.0227.0	72	9704 A / CK B	04.841.5050.0	395
8893 / 12 OB	25.197.1253.0	336	9703 / 6-3	Z7.211.0327.0	86	9704 A / CK B	04.841.5050.0	599
8893 / 13 OB	25.197.1353.0	336	9703 / 6-4	Z7.211.0427.0	86	9704 A / CK B	04.841.5050.0	791
8893 / 14 OB	25.197.1453.0	336	9703 / 6-5	Z7.211.0527.0	86	9704 A / DG B	04.841.2550.0	598
8893 / 15 OB	25.197.1553.0	336	9703 / 6-6	Z7.211.0627.0	72	9704 A / DG B	04.841.2550.0	791
8893 / 16	25.196.1653.0	336	9703 / 8 M-50	Z7.212.0027.0	196	9704 A / DG B	04.841.2550.0	395
8893 / 16 OB	25.197.1653.0	336	9703 / 8-2	Z7.212.0227.0	191	9704 A / DK B	04.841.5150.0	599
8893 / 2	25.196.0253.0	336	9703 / 8-3	Z7.212.0327.0	191	9704 A / DK B	04.841.5150.0	791
9003 C	04.241.0651.0	584	9703 / 8-4	Z7.212.0427.0	191	9704 A / DK B	04.841.5150.0	395
9003 C / 4	04.242.1050.0	584	9703 / 8-5	Z7.212.0527.0	191	9704 A / EG B	04.841.2650.0	791
9003 C / 4	04.242.1050.0	584	9703 / 8-6	Z7.212.0627.0	191	9704 A / EG B	04.841.2650.0	395
9003 C B	04.841.0651.0	584	9703 / 10 M	Z7.214.0027.0	196	9704 A / EG B	04.841.2650.0	598
9006 EN 60715 - G 32	98.190.0000.0	802	9703 / 10-2	Z7.214.0227.0	189	9704 A / EK B	04.841.5250.0	791
9006 EN 60715 - G 32	98.190.0000.0	584	9703 / 10-3	Z7.214.0327.0	191	9704 A / EK B	04.841.5250.0	599
9006 EN 60715 - G 32	98.190.0000.0	102	9703 / 10-4	Z7.214.0427.0	191	9704 A / EK B	04.841.5250.0	395
9006 AL 32	98.210.0000.0	802	9703 / 10-5	Z7.214.0527.0	191	9704 A / FG B	04.841.2750.0	598
9006 AL 32	98.210.0000.0	171	9703 / 10-6	Z7.214.0627.0	191	9704 A / FG B	04.841.2750.0	791
9006 CU EN 60715 - G 32	98.220.0000.0	110	9703 / 12 M	Z7.213.0027.0	196	9704 A / FG B	04.841.2750.0	395
9006 CU EN 60715 - G 32	98.220.0000.0	802	9703 / 12-2	Z7.213.0227.0	191	9704 A / FK B	04.841.5350.0	791
9006 GELOCHT	98.190.1000.0	171	9703 / 12-3	Z7.213.0327.0	191	9704 A / FK B	04.841.5350.0	599
9006 GELOCHT	98.190.1000.0	802	9703 / 12-4	Z7.213.0427.0	191	9704 A / FK B	04.841.5350.0	395
9011 A	05.508.3121.0	191	9703 / 12-5	Z7.213.0527.0	191	9704 A / GG B	04.841.2850.0	598
9011 B	05.508.3221.0	101	9703 / 12-6	Z7.213.0627.0	191	9704 A / GG B	04.841.2850.0	791
9011 C	05.508.8821.0	176	9703 / 16 M	Z7.216.0027.0	196	9704 A / GG B	04.841.2850.0	395
9011 D	05.508.8921.0	176	9703 / 16-2	Z7.216.0227.0	189	9704 A / GG B	04.841.5450.0	791
9012	27.269.0723.0	197	9703 / 16-3	Z7.216.0327.0	192	9704 A / GK B	04.841.5450.0	395
9012 / 2.5 UB	27.269.0623.0	161	9703 / 16-4	Z7.216.0427.0	192	9704 A / GK B	04.841.5450.0	599
9012 / 6	27.269.0523.0	197	9703 / 16-5	Z7.216.0527.0	192	9704 A / HG B	04.841.2950.0	791
9018 D	25.516.2511.0	169	9703 / 16-6	Z7.216.0627.0	192	9704 A / HG B	04.841.2950.0	598
9018 H	25.516.2711.0	169	9704 A	04.241.1150.0	598	9704 A / HG B	04.841.2950.0	395
9018 N	25.516.2811.0	169	9704 A	04.241.1150.0	791	9704 A / HK B	04.841.5550.0	395
9021/15X5,5EN60715	98.090.0000.0	802	9704 A	04.241.1150.0	181	9704 A / HK B	04.841.5550.0	599
9021/15X5,5EN60715	98.090.0000.0	171	9704 A / 0 B	04.841.2050.0	791	9704 A / HK B	04.841.5550.0	791
9021/15X5,5EN60715	98.090.0015.0	40	9704 A / 0 B	04.841.2050.0	598	9704 A / IG B	04.841.3050.0	791
9021/15X5,5EN60715	98.090.0015.0	802	9704 A / 0 B	04.841.2050.0	395	9704 A / IG B	04.841.3050.0	598
9208 / S15	25.522.7553.0	40	9704 A / 0 B	04.841.2050.0	181	9704 A / IG B	04.841.3050.0	395
9215 - 2	Z7.210.3227.0	114	9704 A / 1 B	04.841.1150.0	598	9704 A / IK B	04.841.5650.0	791
9215 - 3	Z7.210.3327.0	114	9704 A / 1 B	04.841.1150.0	791	9704 A / IK B	04.841.5650.0	395
9215 - 4	Z7.210.3427.0	164	9704 A / 1 B	04.841.1150.0	181	9704 A / IK B	04.841.5650.0	599
9215 - 5	Z7.210.3527.0	164	9704 A / 1 B	04.841.1150.0	395	9704 A / JG B	04.841.3150.0	395
9215 - 6	Z7.210.3627.0	114	9704 A / 10 B	04.841.2150.0	598	9704 A / JG B		

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9704 A /NK B	04.841.6150.0	■ 599	9705 A B	04.842.0850.0	■ 790	9785U/1 KOHM-SPT/V0	57.904.4655.0	■ 130
9704 A /OG B	04.841.3650.0	■ 598	9705 A L / 5 / 10	04.242.5153.0	■ 596	9785U/1 KOHM/V0	57.904.0655.0	■ 130
9704 A /OG B	04.841.3650.0	■ 791	9705 A L / 5 / 10	04.242.5153.0	■ 790	9785U/10 KOHM-SPT/V0	57.904.4955.0	■ 130
9704 A /OG B	04.841.3650.0	■ 395	9705 A L / 5 / 10	04.242.5153.0	■ 394	9785U/10 KOHM/V0	57.904.0955.0	■ 130
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9704 A /OK B	04.841.6250.0	■ 395	9705 A L / 5 / 10 B	04.842.5153.0	■ 790	9785U/10 OHM/V0	57.904.0055.0	■ 130
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9704 A /PG B	04.841.3750.0	■ 791	9705 AL	04.242.1553.0	■ 90	9785U/2 KOHM-SPT/V0	57.904.4755.0	■ 130
9704 A /PG B	04.841.3750.0	■ 598	9705 AL	04.242.1553.0	■ 394	9785U/2 KOHM/V0	57.904.0755.0	■ 130
9704 A /PK B	04.841.6350.0	■ 395	9705 AL	04.242.1553.0	■ 790	9785U/20 KOHM-SPT/V0	57.904.5055.0	■ 130
9704 A /PK B	04.841.6350.0	■ 791	9705 AL B	04.842.1553.0	■ 394	9785U/20 KOHM/V0	57.904.1055.0	■ 130
9704 A /PK B	04.841.6350.0	■ 599	9705 AL B	04.842.1553.0	■ 596	9785U/20 OHM-SPT/V0	57.904.4155.0	■ 130
9704 A /QG B	04.841.3850.0	■ 598	9705 AL B	04.842.1553.0	■ 790	9785U/20 OHM/V0	57.904.0155.0	■ 130
9704 A /QG B	04.841.3850.0	■ 791	9705 AL B	04.842.1553.0	■ 90	9785U/200 OHM-SPT/V0	57.904.4455.0	■ 130
9704 A /QG B	04.841.3850.0	■ 395	9705 AL / 5 /10/ 6MARCOM	Z4.242.5153.0	■ 442	9785U/200 OHM/V0	57.904.0455.0	■ 130
9704 A /QK B	04.841.6450.0	■ 791	9705 AL / 5 /10/ 6MARCOM	Z4.242.5153.0	■ 49	9785U/5 KOHM-SPT/V0	57.904.4855.0	■ 130
9704 A /QK B	04.841.6450.0	■ 395	9705A/5/ 9 B - 1 - 9	04.842.4953.0	■ 596	9785U/5 KOHM/V0	57.904.0855.0	■ 130
9704 A /QK B	04.841.6450.0	■ 599	9705A/5/ 9 B - 1 - 9	04.842.4953.0	■ 394	9785U/50 KOHM-SPT/V0	57.904.5155.0	■ 130
9704 A /RG B	04.841.3950.0	■ 395	9705A/5/ 9 B - 1 - 9	04.842.4953.0	■ 91	9785U/50 KOHM/V0	57.904.1155.0	■ 130
9704 A /RG B	04.841.3950.0	■ 598	9705A/5/10 B - 1 - 10	04.845.0153.0	■ 91	9785U/50 OHM-SPT/V0	57.904.4255.0	■ 130
9704 A /RG B	04.841.3950.0	■ 791	9705A/5/10 B 11- 20	04.845.0253.0	■ 91	9785U/50 OHM/V0	57.904.0255.0	■ 130
9704 A /RK B	04.841.6550.0	■ 395	9705A/5/10 B 21- 30	04.845.0353.0	■ 91	9785U/500 OHM-SPT/V0	57.904.4555.0	■ 130
9704 A /RK B	04.841.6550.0	■ 791	9705A/5/10 B 31- 40	04.845.0453.0	■ 91	9785U/500 OHM/V0	57.904.0555.0	■ 130
9704 A /RK B	04.841.6550.0	■ 599	9705A/5/10 B 41- 50	04.845.0553.0	■ 91	9786U/12/V0	57.904.2055.0	■ 131
9704 A /SG B	04.841.4050.0	■ 791	9705A/5/10 B 51- 60	04.845.0653.0	■ 91	9786U/TSK CU-CUNI/V0	57.904.7355.0	■ 132
9704 A /SG B	04.841.4050.0	■ 598	9705A/5/10 B 61- 70	04.845.0753.0	■ 91	9786U/TSK E-CU-A-CU/V0	57.904.7455.0	■ 132
9704 A /SG B	04.841.4050.0	■ 395	9705A/5/10 B 71- 80	04.845.0853.0	■ 91	9786U/TSK FE-CUNI/V0	57.904.7155.0	■ 132
9704 A /SK B	04.841.6650.0	■ 395	9705A/5/10 B 81- 90	04.845.0953.0	■ 91	9786U/TSK NICK-CUNI/V0	57.904.7055.0	■ 132
9704 A /SK B	04.841.6650.0	■ 791	9705A/5/10 B 91-100	04.845.1053.0	■ 91	9786U/TSK NICK-NI/V0	57.904.7255.0	■ 132
9704 A /SK B	04.841.6650.0	■ 599	9705A/5/10 B +	04.855.0253.0	■ 91	9813 M 10X 3 1000MM	98.290.0000.0	■ 72
9704 A /TG B	04.841.4150.0	■ 598	9705A/5/10 B + ROT	04.855.0253.5	■ 120	9813 M 5N 10X3 1000MM	98.290.1000.0	■ 24
9704 A /TG B	04.841.4150.0	■ 395	9705A/5/10 B -	04.855.0353.0	■ 91	A BIS Z GB	04.841.9150.0	■ 791
9704 A /TG B	04.841.4150.0	■ 791	9705A/5/10 B - BLAU	04.855.0353.6	■ 120	A BIS Z GB	04.841.9150.0	■ 395
9704 A /TK B	04.841.6750.0	■ 791	9705A/5/10B ERDZ	04.855.0153.0	■ 91	A BIS Z GB	04.841.9150.0	■ 181
9704 A /TK B	04.841.6750.0	■ 395	9705A/5/10B F1	04.855.0953.0	■ 91	A BIS Z KB	04.841.9250.0	■ 395
9704 A /TK B	04.841.6750.0	■ 599	9705A/5/10B F2	04.855.1053.0	■ 91	A BIS Z KB	04.841.9250.0	■ 181
9704 A /JG B	04.841.4250.0	■ 395	9705A/5/10B L1	04.855.0453.0	■ 91	A BIS Z KB	04.841.9250.0	■ 791
9704 A /JG B	04.841.4250.0	■ 598	9705A/5/10B L2	04.855.0553.0	■ 91	ABDECKG M.WARNZCH	04.343.5356.8	■ 105
9704 A /JG B	04.841.4250.0	■ 791	9705A/5/10B L3	04.855.0653.0	■ 91	ABDECKG M.WARNZCH	04.343.5456.8	■ 105
9704 A /JK B	04.841.6850.0	■ 791	9705A/5/10B L1L2L3NPE..	04.855.0853.0	■ 91	ABDECKG M.WARNZCH	04.325.1056.0	■ 189
9704 A /JK B	04.841.6850.0	■ 395	9705A/5/10B L2	04.855.0553.0	■ 91	ABDECKG M.WARNZCH	04.325.1156.0	■ 189
9704 A /JK B	04.841.6850.0	■ 599	9705A/5/10B PE	04.855.0753.0	■ 91	ABDECKG M.WARNZCH	04.325.1256.0	■ 189
9704 A /JG B	04.841.4350.0	■ 598	9705A/5/10B SL	04.855.3153.0	■ 91	ABDECKG M.WARNZCH	04.325.1356.0	■ 191
9704 A /JG B	04.841.4350.0	■ 791	9705A/5/10B SLZ	04.855.0053.0	■ 91	ABDECKG M.WARNZCH	04.325.1456.0	■ 189
9704 A /JG B	04.841.4350.0	■ 395	9705A/6,7 / 12	04.242.6753.0	■ 790	ABDECKG M.WARNZCH	04.325.1656.0	■ 189
9704 A /NK B	04.841.6950.0	■ 791	9705A/6,7 / 12 B	04.842.6753.0	■ 790	ABDECKG M.WARNZCH	04.343.4756.8	■ 102
9704 A /NK B	04.841.6950.0	■ 395	9705A/6,7 / 12 B 1- 9	99.000.0920.8	■ 790	ABDECKG M.WARNZCH	04.343.4856.8	■ 69
9704 A /NK B	04.841.6950.0	■ 599	9705A/6,7 / 12 B 1- 10	99.003.0920.8	■ 790	ABDECKG M.WARNZCH	04.343.4956.8	■ 103
9704 A /JWG B	04.841.4450.0	■ 395	9705A/6,7/2X 6 B 1- 6	99.002.0920.8	■ 790	ABDECKG M.WARNZCH	04.343.5056.8	■ 103
9704 A /JWG B	04.841.4450.0	■ 791	9705A/6,7/2X12 B 1-16	99.004.0920.8	■ 790	ABDECKG M.WARNZCH	04.343.5156.8	■ 104
9704 A /JWG B	04.841.4450.0	■ 598	9705A/6,7/2X12 B 1-24	99.005.0920.8	■ 790	ABDECKG M.WARNZCH	04.343.5256.8	■ 105
9704 A /JWG B	04.841.7050.0	■ 599	9705A/6 / 9 B - 1 - 9	04.842.5953.0	■ 91	ABDECKG M.WARNZCH	04.343.9156.8	■ 312
9704 A /JWG B	04.841.7050.0	■ 395	9705A/6/10 B - 1 - 10	04.846.0153.0	■ 91	ABDECKG M.WARNZCH	04.343.9156.8	■ 134
9704 A /JWG B	04.841.7050.0	■ 791	9705A/6/10 B 11- 20	04.846.0253.0	■ 91	ABDECKPLATTE 10	07.416.6953.0	■ 784
9704 A /XG B	04.841.4550.0	■ 395	9705A/6/10 B 21- 30	04.846.0353.0	■ 91	ABDECKPLATTE 16	07.416.7053.0	■ 784
9704 A /XG B	04.841.4550.0	■ 598	9705A/6/10 B 31- 40	04.846.0453.0	■ 91	ABDECKPLATTE 24	07.416.7153.0	■ 784
9704 A /XG B	04.841.4550.0	■ 791	9705A/6/10 B 41- 50	04.846.0553.0	■ 91	ABDECKPLATTE 6	07.416.6853.0	■ 784
9704 A /XK B	04.841.7150.0	■ 395	9705A/6/10 B 51- 60	04.846.0653.0	■ 91	ABDECKSTREIFEN	04.343.9056.8	■ 312
9704 A /XK B	04.841.7150.0	■ 791	9705A/6/10 B 61- 70	04.846.0753.0	■ 91	ABDECKSTREIFEN	04.343.9056.8	■ 134
9704 A /XK B	04.841.7150.0	■ 599	9705A/6/10 B 71- 80	04.846.0853.0	■ 91	ABDECKUNG	04.312.0554.0	■ 584
9704 A /YG B	04.841.4650.0	■ 598	9705A/6/10 B 81- 90	04.846.0953.0	■ 91	ABDECKUNG	04.312.0654.0	■ 584
9704 A /YG B	04.841.4650.0	■ 791	9705A/6/10 B 91-100	04.846.1053.0	■ 91	ABDECKUNG	04.312.2056.0	■ 125
9704 A /YG B	04.841.4650.0	■ 395	9705A/6/10 B ERDZ	04.856.0153.0	■ 91	ABDECKUNG	04.312.3054.0	■ 585
9704 A /YK B	04.841.7250.0	■ 395	9705A/6/10 B L1	04.856.0453.0	■ 19	ABDECKUNG	04.312.3254.0	■ 587
9704 A /YK B	04.841.7250.0	■ 599	9705A/6/10 B L2	04.856.0553.0	■ 91	ABDECKUNG	04.312.3354.0	■ 585
9704 A /YK B	04.841.7250.0	■ 791	9705A/6/10 B L3	04.856.0653.0	■ 91	ABDECKUNG	04.312.3454.0	■ 586
9704 A /ZG B	04.841.4750.0	■ 395	9705A/6/10 B SLZ	04.856.0053.0	■ 91	ABDECKUNG	04.312.3554.0	■ 587
9704 A /ZG B	04.841.4750.0	■ 791	9705A/6/10B +	04.856.0253.0	■ 91	ABDECKUNG	04.326.0056.0	■ 152
9704 A /ZG B	04.841.4750.0	■ 598	9705A/6/10B -	04.856.0353.0	■ 91	ABDECKUNG	04.326.1053.0	■ 128
9704 A /ZK B	04.841.7350.0	■ 599	9705A/6/10B F1	04.856.0953.0	■ 91	ABDECKUNG	04.343.6853.8	■ 308
9704 A /ZK B	04.841.7350.0	■ 791	9705A/6/10B F2	04.856.1053.0	■ 91	ABDECKUNG	04.343.6853.8	■ 36
9704 A /ZK B	04.841.7350.0	■ 395	9705A/6/10B L1L2L3NPE..	04.856.0853.0	■ 91	ABDECKUNG	04.343.8353.8	■ 33
9705 A	04.242.0850.0	■ 588	9705A/6/10B N1	04.856.3253.0	■ 91	ABDECKUNG	27.409.5753.0	■ 156
9705 A	04.242.0850.0	■ 321	9705A/6/10B PE	04.856.0753.0	■ 91	ABDECKUNG	27.409.5853.0	■ 158
9705 A	04.242.0850.0	■ 90	9705A/6/10B SL	04.856.3153.0	■ 91	ABISOLIERZANGE	9	

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AD VB 6/10 P GELB	04.342.3856.8	103	ADA.I.GEH.ST.10WR	71.955.1053.3	667	APF 2,5/D2 /8113	07.312.4153.0	308
AD VB 8/10 P GELB	04.342.3856.8	103	ADA.I.GEH.ST.10WR	71.955.1053.4	667	APF 2,5/D2 /8113	07.312.4153.0	36
AD VB 10 GELB	04.326.2353.8	82	ADA.I.GEH.ST.10WR	71.975.1053.3	671	APF 2,5/D2/8113 BLAU	07.312.4153.6	36
AD VB 10/10 GELB	04.342.1056.8	78	ADA.I.GEH.ST.10WR	71.975.1053.4	671	APF 2,5/D2/8113 BLAU	07.312.4153.6	308
AD VB 10/10 P GELB	04.342.4056.8	103	ADA.I.GEH.ST.10WR	72.955.1053.0	669	APF 4 E	07.312.5753.0	30
AD VB 16 GELB	04.326.2453.8	69	ADA.I.GEH.ST.10WR	77.955.1053.0	669	APF 4 E GRUEN	07.312.5753.7	31
AD VB 35 GELB	04.326.2553.8	105	ADA.I.GEH.ST.16WL	70.950.1653.3	667	APF 4 NT	07.312.5753.0	24
AD VB 70 GELB	04.326.2653.8	105	ADA.I.GEH.ST.16WL	70.950.1653.4	667	APF 4 TK	07.312.2853.0	38
AD VB WKM 2,5 / 15 GELB	04.326.3053.8	144	ADA.I.GEH.ST.16WL	71.950.1653.3	667	APF 4 TK	07.312.4353.0	39
AD VM-1,5/8 SCHWARZ	04.343.8053.0	45	ADA.I.GEH.ST.16WL	71.950.1653.4	667	APF4/D1/2	07.312.4853.0	27
ADA.I.GEH.3WR	70.965.0353.4	671	ADA.I.GEH.ST.16WL	72.950.1653.0	669	APF4/D1/2 BLAU	07.312.4853.6	27
ADA.I.GEH.BU.3WL	70.960.0353.3	671	ADA.I.GEH.ST.16WL	77.950.1653.0	669	APF4/D1/2 GRUEN	07.312.4853.7	29
ADA.I.GEH.BU.3WL	70.960.0353.4	671	ADA.I.GEH.ST.16WR	70.955.1653.3	667	API 10 - 16 BLAU/V0	07.311.9455.6	78
ADA.I.GEH.BU.3WL	71.960.0353.3	671	ADA.I.GEH.ST.16WR	70.955.1653.4	667	API 10 - 16 SL/V0	07.311.9555.0	82
ADA.I.GEH.BU.3WL	71.960.0353.4	671	ADA.I.GEH.ST.16WR	71.955.1653.3	667	API 10 - 16/V0	07.311.9455.0	78
ADA.I.GEH.BU.3WR	70.965.0353.3	671	ADA.I.GEH.ST.16WR	71.955.1653.4	667	API 10-16 ETK/1/V0	07.312.1955.0	80
ADA.I.GEH.BU.3WR	71.965.0353.3	671	ADA.I.GEH.ST.16WR	72.955.1653.0	669	API 35 BLAU/V0	07.311.8855.6	79
ADA.I.GEH.BU.3WR	71.965.0353.4	671	ADA.I.GEH.ST.16WR	72.955.1653.4	669	API 35/V0	07.311.8855.0	79
ADA.I.GEH.BU.6WL	70.940.0653.3	667	ADA.I.GEH.ST.16WR	77.955.1653.0	669	API 4/2/V0	07.311.6555.0	69
ADA.I.GEH.BU.6WL	70.960.0653.3	671	ADA.I.GEH.ST.24WL	70.950.2453.3	667	API 4/3/V0	07.311.6855.0	74
ADA.I.GEH.BU.6WL	70.960.0653.4	671	ADA.I.GEH.ST.24WL	70.950.2453.4	667	APIF 2,5	07.311.8353.0	58
ADA.I.GEH.BU.6WL	71.960.0653.3	671	ADA.I.GEH.ST.24WL	71.950.2453.3	667	APM 2,5 - 4 / 15	07.311.0853.0	145
ADA.I.GEH.BU.6WL	71.960.0653.4	671	ADA.I.GEH.ST.24WL	71.950.2453.4	667	APM 2,5 - 4 / 15 BLAU	07.311.0853.6	145
ADA.I.GEH.BU.6WL	72.940.0653.0	669	ADA.I.GEH.ST.24WL	72.950.2453.0	669	APM 2,5 F / 15	07.311.0653.0	144
ADA.I.GEH.BU.6WR	70.945.0653.3	667	ADA.I.GEH.ST.24WL	77.950.2453.0	669	APM 4 SL / 15	07.311.0753.0	145
ADA.I.GEH.BU.6WR	70.965.0653.3	671	ADA.I.GEH.ST.24WR	70.955.2453.3	667	APN 4ETK /V0	07.312.1155.0	106
ADA.I.GEH.BU.6WR	70.965.0653.4	671	ADA.I.GEH.ST.24WR	71.955.2453.3	667	APN 10 /V0	07.311.6655.0	103
ADA.I.GEH.BU.6WR	71.965.0653.4	671	ADA.I.GEH.ST.24WR	71.955.2453.4	667	APN 10 BL/V0	07.311.6655.6	103
ADA.I.GEH.BU.6WR	72.945.0653.0	669	ADA.I.GEH.ST.24WR	71.955.2453.0	669	APN 10ETK /V0	07.312.0955.0	106
ADA.I.GEH.BU.06WL	70.940.0653.4	667	ADA.I.GEH.ST.24WR	72.955.2453.0	669	APN 16 /V0	07.311.6755.0	104
ADA.I.GEH.BU.10WL	70.940.1053.3	667	ADA.I.GEH.ST.3WL	77.955.2453.0	669	APN 16 BL/V0	07.311.6755.6	104
ADA.I.GEH.BU.10WL	70.940.1053.4	667	ADC 2,5 GELB	70.970.0353.4	671	APN 16ETK /V0	07.312.0855.0	107
ADA.I.GEH.BU.10WL	70.960.1053.3	671	ADF 2,5/4 GELB	04.344.0353.8	231	APN2,5E	07.312.1755.0	116
ADA.I.GEH.BU.10WL	70.960.1053.4	671	ADF 2,5/4 GELB	04.343.6053.8	308	AUSDRUECKWERKZEUG	05.502.0200.0	207
ADA.I.GEH.BU.10WL	70.965.1053.4	671	ADF 4/4 GELB	04.343.6053.8	20	B EXP BOARD WEG 6 POL	28.000.0123.1	592
ADA.I.GEH.BU.10WL	71.940.1053.3	667	ADF 6/4 GELB	04.343.6153.8	19	BEF.HALTER	05.522.7356.0	331
ADA.I.GEH.BU.10WL	71.940.1053.4	667	ADF10/4 GELB	04.343.6253.8	21	BEF.HALTER	05.522.7756.0	331
ADA.I.GEH.BU.10WL	71.960.1053.3	671	ADF16/4 GELB	04.343.6453.8	21	BEF.HALTER	05.522.7856.0	331
ADA.I.GEH.BU.10WL	71.960.1053.4	671	AE1,5Z,N	04.343.6653.8	21	BEF.HALTER	05.593.8853.0	331
ADA.I.GEH.BU.10WL	72.940.1053.0	669	AKB 10 V / 20MA	05.599.2027.0	797	BEF.HALTER	05.599.2853.0	331
ADA.I.GEH.BU.10WL	77.940.1053.0	669	AKB 10 V /4-20MA	57.806.0053.0	504	BEF.HALTER	05.599.2953.0	331
ADA.I.GEH.BU.10WR	70.945.1053.3	667	AKB 20MA / 10 V	57.806.1553.0	504	BEF.HALTER	25.523.2453.0	297
ADA.I.GEH.BU.10WR	70.945.1053.4	667	AKB 4-20MA / 10 V	57.806.0253.0	504	BEF.HALTER	25.523.7753.0	295
ADA.I.GEH.BU.10WR	70.965.1053.3	671	AKT 10 V /4-20MA	57.806.0353.0	504	BEF.HALTER	25.523.7853.0	295
ADA.I.GEH.BU.10WR	71.945.1053.3	667	AKT 10 V / 20MA	57.806.0953.0	505	BEFFEST.HALT.KOMPL	25.523.7653.0	319
ADA.I.GEH.BU.10WR	71.945.1053.4	667	AKT 20MA / 10 V	57.806.0653.0	505	BEZ-SCHILD	04.240.0953.0	392
ADA.I.GEH.BU.10WR	71.965.1053.4	671	AKT 20MA / 20MA	57.806.0753.0	505	BEZ.BLATT PERF.	04.019.0289.0	47
ADA.I.GEH.BU.10WR	72.945.1053.0	669	AKT 20MA /4-20MA	57.806.1153.0	505	BEZ.BLATT PERF.	04.019.0889.0	183
ADA.I.GEH.BU.10WR	77.945.1053.0	669	AKT 0-10 V /+10 V	57.806.1253.0	505	BEZ.KLAPPSCHILD	04.210.0652.0	183
ADA.I.GEH.BU.16WL	70.940.1653.3	667	AKT 0-20MA /+10 V	57.806.2653.0	505	BEZ.KLAPPSCHILD	04.210.0752.0	183
ADA.I.GEH.BU.16WL	70.940.1653.4	667	AKT 4-20MA / 10 V	57.806.2753.0	505	BEZ.KLAPPSCHILD	04.210.0652.0	183
ADA.I.GEH.BU.16WL	71.940.1653.3	667	AKT 4-20MA / 20MA	57.806.0853.0	505	BEZ.KLAPPSCHILD	24.210.1652.0	183
ADA.I.GEH.BU.16WL	71.940.1653.4	667	AKT 4-20MA /+10 V	57.806.1353.0	505	BEZ.PLATTE	04.249.1053.0	499
ADA.I.GEH.BU.16WL	72.940.1653.0	669	AKT + 10 V /+10 V	57.806.5553.0	505	BEZ.PLATTE	04.249.1553.0	499
ADA.I.GEH.BU.16WL	77.940.1653.0	669	AKT + 10 V /0-10 V	57.806.1053.0	505	BEZ.PLATTE	04.249.2053.0	499
ADA.I.GEH.BU.16WR	70.945.1653.3	667	AKT + 10 V /0-10 V	57.806.2253.0	505	BEZ.PLATTE	04.249.4053.0	499
ADA.I.GEH.BU.16WR	70.945.1653.4	667	AM 5 X 12 D 933SZMS	57.806.2153.0	505	BEZ.PLATTE	07.340.2153.0	152
ADA.I.GEH.BU.16WR	71.945.1653.3	667	ANKERSCHIEBE 2M	06.065.0021.0	156	BEZ.PLATTE	07.340.2353.0	152
ADA.I.GEH.BU.16WR	71.945.1653.4	667	AP 2,5 - 4 /V0	98.400.0000.0	210	BEZ.SCHILD/TRAERER	04.242.3853.0	781
ADA.I.GEH.BU.16WR	72.945.1653.0	669	AP 2,5 - 4 BL/V0	07.311.0155.0	78	BEZ.SCHILD/TRAERER	04.242.4253.0	349
ADA.I.GEH.BU.16WR	77.945.1653.0	669	AP 2,5 U/8113 S/V /V0	07.311.0155.6	78	BEZ.SCHILD/TRAERER	04.242.4453.0	781
ADA.I.GEH.BU.24WL	70.940.2453.3	667	AP 2,5 U/D/8113 S/V/V0	07.312.1555.6	136	BEZ.SCHILD/TRAERER	04.242.4653.0	357
ADA.I.GEH.BU.24WL	70.940.2453.4	667	AP 2,5 U/D/8113 S/V/V0	07.312.1555.0	310	BEZ.SCHILD/TRAERER	04.242.5853.0	349
ADA.I.GEH.BU.24WL	71.940.2453.3	667	AP 4 TK /V0	07.311.6155.0	122	BEZ.SCHILD/TRAERER	24.242.3753.0	781
ADA.I.GEH.BU.24WL	71.940.2453.4	667	AP 4 TK BL /V0	07.311.6155.6	122	BEZ.SCHILD/TRAERER	24.242.4053.0	781
ADA.I.GEH.BU.24WL	71.940.2453.0	669	AP 6 /V0	07.311.0255.0	103	BEZEICHNUNGS-COMPUTER	95.502.0000.0	90
ADA.I.GEH.BU.24WL	72.940.2453.0	669	AP 6 BL/V0	07.311.0255.6	103	BGL-25VAC-2,5ADC	81.000.1000.0	526
ADA.I.GEH.BU.24WL	77.940.2453.0	669	AP 1 - 2,5	07.312.5053.0	232	BGL-40VAC-3ADC	87.230.2053.0	526
ADA.I.GEH.BU.24WR	70.945.2453.3	667	AP 1 - 2,5 BLAU	07.312.5053.6	232	BK M 8 / 32	32.640.0042.0	152
ADA.I.GEH.BU.24WR	70.945.2453.4	667	AP 1 - 2,5 GRUEN	07.312.5053.7	233	BK M 10 / 32	32.650.0042.0	153
ADA.I.GEH.BU.24WR	71.945.2453.3	667	AP 10/SI /V0	07.311.4155.0	125	BK M 6 / 32	32.630.0042.0	152
ADA.I.GEH.BU.24WR	71.945.2453.4	667	AP 2,5 U/8113 S/V BL/V0	07.312.1555.6	137	BU 70,3 /24 REV	25.570.1356.0	675
ADA.I.GEH.BU.24WR	72.945.2453.0	669	AP 2,5 U/D/8113 S/V/V0	07.311.9055.0	134	BU 70,1 / 6 REV WL	25.572.0156.0	675
ADA.I.GEH.BU.24WR	77.945.2453.0	669	AP 2,5 U/D/8113 S/V/V0	07.311.9055.0	312	BU 70,1 / 6 REV WR	25.572.1156.0	675
ADA.I.GEH.ST.3WL	70.970.0353.3	671	AP 2,5-4 KO/V0	07.310.9355.0	120	BU 70,1 / 6 REV UWL	25.572.4156.0	675
ADA.I.GEH.ST.3WL	71.970.0353.4	671	AP 2,5U/8113 /V0	07.312.4655.0	136	BU 70,1 / 6 REV UWR	25.572.5156.0	675
ADA.I.GEH.ST.3WR	70.975.0353.3	671	AP 2,5U/8113 /V0	07.312.4655.0	310	BU 70,1 / 6 REV WL	25.572.2156.0	675
ADA.I.GEH.ST.3WR	70.975.0353.4	671	AP 2,5U/8113S/H/V0	07.311.9855.0	311	BU 70,1 / 6 REV WR	25.572.3156.0	675
ADA.I.GEH.ST.3WR	71.975.0353.4	671	AP 3 S / IV/V0	07.311.4555.0	140	BU 70,1 / 6 REV UWL	25.572.6156.0	675
ADA.I.GEH.ST.6WL	70.950.0653.3	667	AP 3 S/V0	07.311.4455.0	140	BU 70,1 / 6 REV UWR	25.572.7156.0	675
ADA.I.GEH.ST.6WL	70.970.0653.3	671	AP 4 3S 1K / V0	07.311.3855.0	138	BU 70,1 /10 REV WL	25.572.0256.0	675
ADA.I.GEH.ST.6WL	70.970.0653.4	671	AP 4 E /V0	07.311.4055.0	114	BU 70,1 /10 REV WR	25.572.1256.0	675
ADA.I.GEH.ST.6WL	71.970.0653.3	671	AP 4 S / IV/V0	07.311.4355.0	141	BU 70,1 /10 REV UWL	25.572.4256.0	675
ADA.I.GEH.ST.6WL	71.970.0653.4	671	AP 4 S/V0	07.311.4255.0	141	BU 70,1 /10 REV UWR	25.572.5256.0	675
ADA.I.GEH.ST.6WL	72.950.0653.0	669	AP 4/D /V0	07.311.6355.0	112	BU 70,1 /10 RV WL	25.572.2256.0	675
ADA.I.GEH.ST.6WR	70.955.0653.3	667	AP 4/D BL /V0	07.311.6355.6	112	BU 70,1 /10 RV WR	25.572.3256.0	675
ADA.I.GEH.ST.6WR	70.955.0653.4	667	AP 5 S/V0	07.311.4655.0	139	BU 70,1 /10 RV UWL	25.572.6256.0	675
ADA.I.GEH.ST.6WR	70.975.0653.3	671	AP 8113 SE	07.310.9853.0	303	BU 70,1 /10 RV UWR	25.572.7256.0	675
ADA.I.GEH.ST.6WR	70.975.0653.4	671	AP 8185 TOP N	07.300.4753.0	349	BU 70,1 /16 REV		

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BU 70.3 / 10 REV	Z5.570.1256.0	675	BU 73.7 / 40 REV	Z5.570.7056.0	683	BZ KL 16 / 8 Z	Z4.102.0890.0	256
BU 70.3 / 10 REVZ	Z5.570.0256.0	675	BU 73.7 / 40 REVZ	Z5.570.6056.0	683	BZ KL 16 / 12 Z	Z4.102.1280.0	256
BU 70.3 / 10 RV	Z5.570.3256.0	675	BU 73.7 / 40 RV	Z5.570.9056.0	683	BZ KL 16 / 16 Z	Z4.102.1680.0	256
BU 70.3 / 10 RVZ	Z5.570.2256.0	675	BU 73.7 / 40 RVZ	Z5.570.8056.0	683	BZ KL 16 / 20 Z	Z4.102.2080.0	256
BU 70.3 / 16 REV	Z5.570.1056.0	675	BU 73.7 / 64 REV	Z5.570.7156.0	683	BZ KL 16 / 20 Z B	Z4.802.2080.0	256
BU 70.3 / 16 REVZ	Z5.570.0056.0	675	BU 73.7 / 64 REVZ	Z5.570.6156.0	683	BZ KL 17 / 24	07.451.2480.0	267
BU 70.3 / 16 RV	Z5.570.3056.0	675	BU 73.7 / 64 RV	Z5.570.9156.0	683	BZ KL 28 / 1 - 99	04.007.1080.0	214
BU 70.3 / 16 RVZ	Z5.570.2056.0	675	BU 73.7 / 64 RVZ	Z5.570.8156.0	683	BZ KL 29 / 1 - 55	04.007.3080.0	214
BU 70.3 / 24 REVZ	Z5.570.0356.0	675	BU.EIG.AN.L.	Z2.300.0653.0	767	CEMOS-SSAC3-400V-2A	80.020.6000.0	537
BU 70.3 / 24 RV	Z5.570.3356.0	675	BU.EIG.AN.L.	Z2.300.1053.9	767	CEMOS-SSPHC-400V-2.5A	80.020.6003.0	537
BU 70.3 / 24 RVZ	Z5.570.2356.0	675	BU.EIG.AN.L.	Z2.300.1653.9	767	CODIERAST BU.LST.	05.561.9153.0	286
BU 70.7 / 6 REV	Z5.570.5156.0	677	BU.EIG.AN.L.	Z2.300.2453.9	767	CODIERAST BU.LST.	05.561.9153.0	37
BU 70.7 / 6 REVZ	Z5.570.4156.0	677	BU.EIG.AN.L.	Z2.300.4853.9	767	CODIERAST STIFTL.	05.561.0053.0	36
BU 70.7 / 6 RV	Z5.570.8656.0	677	BU.EINSATZ 3/3/6	Z2.203.1253.0	705	CODIERAST STIFTL.	05.561.0053.0	284
BU 70.7 / 6 RVZ	Z5.570.6656.0	677	BU.EINSATZ 4/6	Z2.205.1053.0	699	CODIERAST STIFTL.	05.561.0053.0	788
BU 70.7 / 10 REV	Z5.570.5256.0	677	BU.EINSATZ 6/6	Z2.205.1253.0	703	CODIERSTIFT-AST	05.561.9453.5	319
BU 70.7 / 10 REVZ	Z5.570.4256.0	677	BU.EINSATZ 660V	Z2.205.1053.0	699	CODIERSTIFT-AST	05.561.9453.5	319
BU 70.7 / 10 RV	Z5.570.8756.0	677	BU.EINSATZ 660V	Z2.205.1053.0	699	CODIERSTUECK-AST	05.584.0053.0	137
BU 70.7 / 10 RVZ	Z5.570.6756.0	677	BU.EINSATZ 660V	Z2.205.1053.0	699	CODIERSTUECK-AST	05.584.0053.0	219
BU 70.7 / 16 REV	Z5.570.5056.0	677	BU.EINSATZ 660V	Z2.205.1053.0	699	CODIERSTUECK-AST	05.584.0053.0	321
BU 70.7 / 16 REVZ	Z5.570.4056.0	677	BU.EINSATZ 660V	Z2.205.1053.0	699	CODIERSTUECK-AST	05.584.0053.0	205
BU 70.7 / 16 RV	Z5.570.8556.0	677	BU.EINSATZ 660V	Z2.205.1053.0	699	CRIMPBACKEN A	05.502.2000.0	798
BU 70.7 / 16 RVZ	Z5.570.6556.0	677	BU.EINSATZ 660V	Z2.205.1053.0	699	CRIMPBACKEN A	05.502.2000.0	741
BU 70.7 / 24 REV	Z5.570.5356.0	677	BU.EINSATZ VERGOL	Z2.205.1053.0	699	CRIMPBACKEN B	05.502.2100.0	631
BU 70.7 / 24 REVZ	Z5.570.4356.0	677	BU.EINSATZ VERGOL	Z2.205.1053.0	699	CRIMPBACKEN B	05.502.2100.0	798
BU 70.7 / 24 RV	Z5.570.8856.0	677	BU.EINSATZ VERGOL	Z2.205.1053.0	699	CRIMPBACKEN B	05.502.2200.0	798
BU 70.7 / 24 RVZ	Z5.570.6856.0	677	BU.EINSTAZ VERGOL	Z2.205.1053.0	699	CRIMPBACKEN C	05.502.2200.0	741
BU 72.1 / 6 REV WL	Z5.572.0656.0	679	BUCHESEINSAZ	Z2.300.1040.0	631	CRIMPBACKEN C	05.502.2200.0	798
BU 72.1 / 6 REV WR	Z5.572.1656.0	679	BUCHESEINSAZ	Z2.300.1040.0	631	CRIMPBACKEN D	05.502.2300.0	739
BU 72.1 / 6 REV U WL	Z5.572.4656.0	679	BUCHESEINSAZ	Z2.300.1640.0	631	CRIMPBACKEN E	05.502.2400.0	683
BU 72.1 / 6 REV U WR	Z5.572.5656.0	679	BUCHESEINSAZ	Z2.300.1640.0	631	CRIMPBACKEN E	05.502.2400.0	798
BU 72.1 / 6 RV WL	Z5.572.2656.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	CZ 0.5 - 2.5 MM2 F.RVZ/S	95.101.0612.0	207
BU 72.1 / 6 RV WR	Z5.572.3656.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DATENEINF.OT. 16P	70.060.1628.0	755
BU 72.1 / 6 RV U WL	Z5.572.6656.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	07.409.7056.0	780
BU 72.1 / 6 RV U WR	Z5.572.7656.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	07.409.7156.0	780
BU 72.1 / 10 REV WL	Z5.572.0756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	07.409.7256.0	780
BU 72.1 / 10 REV WR	Z5.572.1756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	07.409.7356.0	780
BU 72.1 / 10 REV U WL	Z5.572.4756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	07.417.6279.0	713
BU 72.1 / 10 REV U WR	Z5.572.5756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	07.417.6753.0	713
BU 72.1 / 10 RV WL	Z5.572.2756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	Z7.416.1656.0	780
BU 72.1 / 10 RV WR	Z5.572.3756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	Z7.416.1756.0	780
BU 72.1 / 10 RV U WL	Z5.572.6756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	Z7.416.1856.0	780
BU 72.1 / 10 RV U WR	Z5.572.7756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	Z7.419.6228.0	780
BU 72.1 / 16 REV WL	Z5.572.0856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL	07.417.6829.0	713
BU 72.1 / 16 REV WR	Z5.572.1856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL M.DICHTUNG	07.417.6829.0	713
BU 72.1 / 16 REV U WL	Z5.572.4856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DECKEL M.VERRIEG.	Z7.419.6128.0	780
BU 72.1 / 16 REV U WR	Z5.572.5856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A 0,5 - 6	06.600.4027.0	796
BU 72.1 / 16 RV WL	Z5.572.2856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A 0,75 - 6	06.600.4127.0	796
BU 72.1 / 16 RV WR	Z5.572.3856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A 1 - 6	06.600.4227.0	796
BU 72.1 / 16 RV U WL	Z5.572.6856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A 1,5 - 7	06.600.4327.0	796
BU 72.1 / 16 RV U WR	Z5.572.7856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A 2,5 - 7	06.600.4427.0	796
BU 72.1 / 24 REV WL	Z5.572.0956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A 4 - 9	06.600.4527.0	796
BU 72.1 / 24 REV WR	Z5.572.1956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A 6 - 10	06.600.4627.0	796
BU 72.1 / 24 REV U WL	Z5.572.4956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A 6 - 10	06.600.4627.0	796
BU 72.1 / 24 REV U WR	Z5.572.5956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A 10 - 12	06.600.4727.0	796
BU 72.1 / 24 RV WL	Z5.572.2956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A 16 - 12	06.600.4827.0	796
BU 72.1 / 24 RV WR	Z5.572.3956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-A25 - 15	06.600.4927.0	796
BU 72.1 / 24 RV U WL	Z5.572.6956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 0,5 - 8	06.600.2027.0	796
BU 72.1 / 24 RV U WR	Z5.572.7956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 0,5 - 8	06.600.2027.0	796
BU 72.3 / 6 REV	Z5.570.1656.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 0,75 - 8	06.600.2127.0	796
BU 72.3 / 6 REVZ	Z5.570.0656.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 1 - 8	06.600.2227.0	796
BU 72.3 / 6 RV	Z5.570.3656.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 1,5 - 8	06.600.2327.0	796
BU 72.3 / 6 RVZ	Z5.570.2656.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 1,5 - 8	06.600.2427.0	796
BU 72.3 / 10 REV	Z5.570.1756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 2,5 - 8	06.600.2527.0	796
BU 72.3 / 10 REVZ	Z5.570.0756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 2,5 - 8	06.600.2627.0	796
BU 72.3 / 10 RV	Z5.570.3756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 4 - 10	06.600.2727.0	796
BU 72.3 / 10 RVZ	Z5.570.2756.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 4 - 18	06.600.2827.0	796
BU 72.3 / 16 REV	Z5.570.1856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 6 - 12	06.600.2927.0	796
BU 72.3 / 16 REVZ	Z5.570.0856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 6 - 18	06.600.3027.0	796
BU 72.3 / 16 RV	Z5.570.3856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E 10 - 12	06.600.3127.0	796
BU 72.3 / 16 RVZ	Z5.570.2856.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E10 - 18	06.600.3227.0	796
BU 72.3 / 24 REV	Z5.570.1956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E16 - 12	06.600.3327.0	796
BU 72.3 / 24 REVZ	Z5.570.0956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E16 - 18	06.600.3427.0	796
BU 72.3 / 24 RV	Z5.570.3956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 46228-E25 - 18	06.600.3527.0	796
BU 72.3 / 24 RVZ	Z5.570.2956.0	679	BUCHESEINSAZ	Z2.300.2440.0	631	DIN 5264 A 0,4 x 2,5	06.502.4300.0	281
BU 72.3 / 24 RV WL	Z5.570.1056.0	679	BUCHESENKONTAKT	02.125.1121.0	761	DIN 5264 A 0,6 x 3,5	06.502.4000.0	799
BU 72.3 / 24 RV WR	Z5.570.2056.0	679	BUCHESENKONTAKT	02.125.1121.0	761	DIN 5264 A 0,6 x 3,5	06.502.4000.0	293
BU 72.3 / 24 RVZ WL	Z5.572.8056.0	683	BUCHESENKONTAKT	02.125.3129.8	739	DIN 5264 A 0,6 x 3,5	06.502.4000.0	20
BU 73.1 / 40 REV WR	Z5.572.8356.0	683	BUCHESENKONTAKT	02.125.3229.8	740	DIN 5264 A 0,8 x 4,0	06.502.4100.0	21
BU 73.1 / 40 REV U WL	Z5.572.9156.0	683	BUCHESENKONTAKT	02.125.3229.8	740	DIN 5264 A 1,0 x 5,5	06.502.4200.0	21
BU 73.1 / 40 REV U WR	Z5.572.9356.0	683	BUCHESENKONTAKT	02.125.3229.8	740	DIN 5264 B 0,6x3,5 M	06.502.5000.0	30
BU 73.1 / 40 RV WL	Z5.572.8656.0	683	BUCHESENKONTAKT	02.125.3629.8	740	dipos EM	80.061.0010.3	582
BU 73.1 / 40 RV WR	Z5.572.9556.0	683	BUCHESENKONTAKT	02.125.3629.8	740	DIPOS JB 4,3	28.000.0229.5	499
BU 73.1 / 40 RV U WL	Z5.572.9556.0	683	BUCHESENKONTAKT	02.125.3829.8	740	DIPOS KODIERAST	25.563.0453.0	499
BU 73.1 / 40 RV U WR	Z5.572.9756.0	683	BUCHESENKONTAKT	02.125.3829.8	740	DIPOS KSQ	80.060.0020.1	508
BU 73.1 / 64 REV WL	Z5.572.8456.0	683	BUCHESENKONTAKT	02.125.4029.8	740	DIPOS KSQ	80.060.0021.1	508
BU 73.1 / 64 REV WR	Z5.572.9256.0	683	BUCHESENKONTAKT	02.125.4129.8	740	DIPOS KSQ 9.5 .. 10.5V	82.081.0000.0	508
BU 73.1 / 64 REV U WL	Z5.572.9456.0	683	BUCHESENKONTAKT	02.125.4229.8	740	DIPOS PT100	80.060.0010.1	499
BU 73.1 / 64 REV U WR	Z5.572.9456.0	683	BUCHESENKONTAKT	02.12				

contents TYPE

Type	Part no.	section / page	Type	Part no.	section / page	Type	Part no.	section / page
DST85/ 5	25.002.0553.0	328	FUER 0,5 MM2	05.543.7021.0	631	GEHAEUSEOBERTEIL	70.352.0635.3	633
DST85/ 5 OB	25.003.0553.0	328	FUER 0,5 MM2 KURZ	05.543.9021.0	655	GEHAEUSEOBERTEIL	70.352.1035.0	637
DST85/ 6	25.002.0653.0	328	FUER 0,75-1 MM2	02.123.7121.0	631	GEHAEUSEOBERTEIL	70.352.1035.1	637
DST85/ 6 OB	25.003.0653.0	328	FUER 0,75-1 MM2	05.543.7121.0	631	GEHAEUSEOBERTEIL	70.352.1035.2	637
DST85/ 7	25.002.0753.0	328	FUER 1,5 MM2	05.543.9121.0	655	GEHAEUSEOBERTEIL	70.352.1035.3	637
DST85/ 7 OB	25.003.0753.0	328	FUER 1,5 MM2	02.123.7221.0	631	GEHAEUSEOBERTEIL	70.352.1628.7	769
DST85/ 8	25.002.0853.0	328	FUER 1,5 MM2	05.543.7221.0	631	GEHAEUSEOBERTEIL	70.352.1635.0	637
DST85/ 8 OB	25.003.0853.0	328	FUER 1,5 MM2 KURZ	05.543.9221.0	655	GEHAEUSEOBERTEIL	70.352.1635.1	637
DST85/ 9	25.002.0953.0	328	FUER 1,5 MM2 VERGOLD	02.123.7201.0	631	GEHAEUSEOBERTEIL	70.352.1635.2	637
DST85/ 9 OB	25.003.0953.0	328	FUER 1,5 MM2 VERGOLD	05.543.7201.0	631	GEHAEUSEOBERTEIL	70.352.1635.3	637
DST85/10	25.002.1053.0	328	FUER 2,5 MM2	02.123.7321.0	631	GEHAEUSEOBERTEIL	70.352.2428.7	773
DST85/10 OB	25.003.1053.0	328	FUER 2,5 MM2	05.543.7321.0	631	GEHAEUSEOBERTEIL	70.352.2435.0	637
DST85/11	25.002.1153.0	328	FUER 2,5 MM2 KURZ	05.543.9321.0	655	GEHAEUSEOBERTEIL	70.352.2435.1	637
DST85/11 OB	25.003.1153.0	328	FUER 4 MM2	02.123.7421.0	631	GEHAEUSEOBERTEIL	70.352.2435.2	637
DST85/12	25.002.1253.0	328	FUER 4 MM2	05.543.7421.0	631	GEHAEUSEOBERTEIL	70.352.2435.3	637
DST85/12 OB	25.003.1253.0	328	FUER 4 MM2	05.543.9421.0	655	GEHAEUSEOBERTEIL	70.352.2435.4	637
DSTLF85/ 2	25.004.0253.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0227.0	781	GEHAEUSEOBERTEIL	70.352.3235.1	637
DSTLF85/ 2 OB	25.005.0253.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0327.0	781	GEHAEUSEOBERTEIL	70.352.3235.2	637
DSTLF85/ 3	25.004.0353.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0427.0	781	GEHAEUSEOBERTEIL	70.352.3235.3	637
DSTLF85/ 3 OB	25.005.0353.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0527.0	781	GEHAEUSEOBERTEIL	70.352.4828.7	769
DSTLF85/ 4	25.004.0453.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0627.0	781	GEHAEUSEOBERTEIL	70.352.4835.0	633
DSTLF85/ 4 OB	25.005.0453.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0727.0	781	GEHAEUSEOBERTEIL	70.352.4835.1	633
DSTLF85/ 5	25.004.0553.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0827.0	781	GEHAEUSEOBERTEIL	70.352.4835.2	633
DSTLF85/ 5 OB	25.005.0553.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0927.0	781	GEHAEUSEOBERTEIL	70.352.4835.3	633
DSTLF85/ 6	25.004.0653.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.1027.0	781	GEHAEUSEOBERTEIL	70.353.0635.0	633
DSTLF85/ 6 OB	25.005.0653.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.1127.0	781	GEHAEUSEOBERTEIL	70.353.0635.1	633
DSTLF85/ 7	25.004.0753.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.1227.0	781	GEHAEUSEOBERTEIL	70.353.0635.2	633
DSTLF85/ 7 OB	25.005.0753.0	328	FUER NYAF 1,5 MM2	05.592.7553.0	138	GEHAEUSEOBERTEIL	70.353.1035.0	637
DSTLF85/ 8	25.004.0853.0	328	FUER NYAF 2,5 MM2	05.592.7653.0	138	GEHAEUSEOBERTEIL	70.353.1035.1	637
DSTLF85/ 8 OB	25.005.0853.0	328	FUER WK 4E/U	Z1.299.9053.0	176	GEHAEUSEOBERTEIL	70.353.1035.2	637
DSTLF85/ 9	25.004.0953.0	328	FUER WK1 10/U	04.325.8553.8	69	GEHAEUSEOBERTEIL	70.353.1035.3	637
DSTLF85/ 9 OB	25.005.0953.0	328	FUER WK1 16/U	04.325.8653.8	79	GEHAEUSEOBERTEIL	70.353.1635.0	637
DSTLF85/10	25.004.1053.0	328	GEH.OT. TEIL L	75.900.0135.0	664	GEHAEUSEOBERTEIL	70.353.1635.1	637
DSTLF85/10 OB	25.005.1053.0	328	GEH.OT. TEIL L	75.950.1635.0	664	GEHAEUSEOBERTEIL	70.353.1635.2	637
DSTLF85/11	25.004.1153.0	328	GEH.OT. TEIL L	75.950.2435.0	664	GEHAEUSEOBERTEIL	70.353.1635.3	637
DSTLF85/11 OB	25.005.1153.0	328	GEH.OT. TEIL L	75.960.1635.0	664	GEHAEUSEOBERTEIL	70.353.2435.0	637
DSTLF85/12	25.004.1253.0	328	GEH.OT. TEIL L	75.960.2435.0	664	GEHAEUSEOBERTEIL	70.353.2435.1	637
DSTLF85/12 OB	25.005.1253.0	328	GEH.UT. 10 POL.	70.320.1038.0	684	GEHAEUSEOBERTEIL	70.353.2435.2	637
DSU-400V-250V4A	87.030.6453.0	542	GEH.UT. 16 POL.	70.320.1638.0	684	GEHAEUSEOBERTEIL	70.353.2435.3	637
EAS-UE / D-135	87.222.5953.0	564	GEH.UT. 24 POL.	70.320.2438.0	684	GEHAEUSEOBERTEIL	70.353.3235.1	637
EAS-UE / D-L-135	87.222.6053.0	564	GEH.UT. 6 POL.	70.320.0638.0	684	GEHAEUSEOBERTEIL	70.353.3235.2	637
EAS-UE/D-115	87.221.5953.0	562	GEH.UT. TEIL F	75.900.0035.0	664	GEHAEUSEOBERTEIL	70.353.4828.7	769
EAS-UE/D-L-115	87.221.6053.0	562	GEH.UT. TEIL F	75.931.1635.0	664	GEHAEUSEOBERTEIL	70.353.4835.1	633
EKAP BLAU	28.000.0202.2	442	GEH.UT. TEIL F	75.931.2435.0	664	GEHAEUSEOBERTEIL	70.353.4835.2	633
EKAP ROT	28.000.0202.1	442	GEH.UT. TEIL F	75.933.1635.0	664	GEHAEUSEOBERTEIL	70.354.0628.7	769
ETAGENKLEMME	56.704.6953.1	30	GEH.UT. TEIL F	75.933.2435.0	664	GEHAEUSEOBERTEIL	70.354.0635.0	633
ETIKETTEN A4	05.591.3089.0	416	GEH.UT. TEIL F	75.934.2435.0	664	GEHAEUSEOBERTEIL	70.354.0635.1	633
EUROPAKLEMLIST.1P	99.261.3521.9	258	GEH.UT. TEIL F	75.941.1635.0	664	GEHAEUSEOBERTEIL	70.354.0635.2	633
F. 400/690V-SER.	05.502.3500.0	631	GEH.UT. TEIL F	75.941.2435.0	664	GEHAEUSEOBERTEIL	70.354.1028.7	769
F.EIGSICH.ANL.ZINKDRCKG	99.721.3329.7	772	GEHAEUSEOBERTEIL	70.354.0635.3	633	GEHAEUSEOBERTEIL	70.354.1035.0	637
F.EIGSICH.ANL.ZINKDRCKG	99.723.3329.7	772	GEHAEUSEOBERTEIL	70.351.1035.1	637	GEHAEUSEOBERTEIL	70.354.1035.1	637
F.EIGSICH.ANL.ZINKDRCKG	99.727.3329.7	772	GEHAEUSEOBERTEIL	70.351.1035.2	637	GEHAEUSEOBERTEIL	70.354.1035.2	637
F.STCKHUELS.6,3 BIS2.5Q	05.582.8653.0	175	GEHAEUSEOBERTEIL	70.351.2435.1	637	GEHAEUSEOBERTEIL	70.354.1035.3	637
FEDERKONTAKT	02.124.4020.0	207	GEHAEUSEOBERTEIL	70.355.1035.1	637	GEHAEUSEOBERTEIL	70.354.1628.7	769
FEDERKONTAKT	02.124.4100.0	207	GEHAEUSEOBERTEIL	70.355.1035.2	637	GEHAEUSEOBERTEIL	70.354.1635.0	637
FEDERKONTAKT	02.125.1629.0	291	GEHAEUSEOBERTEIL	70.355.1635.1	637	GEHAEUSEOBERTEIL	70.354.1635.1	637
FEDERKONTAKT	02.125.1729.0	291	GEHAEUSEOBERTEIL	70.355.1635.2	637	GEHAEUSEOBERTEIL	70.354.1635.2	637
FEDERKONTAKT BAND	02.125.1600.0	291	GEHAEUSEOBERTEIL	70.355.2435.1	637	GEHAEUSEOBERTEIL	70.354.1635.3	637
FEDERKONTAKT BAND	02.125.1700.0	291	GEHAEUSEOBERTEIL	70.355.2435.2	637	GEHAEUSEOBERTEIL	70.354.1635.4	637
FKK18 / 1	02.220.0121.0	217	GEHAEUSEOBERTEIL	70.356.1035.1	637	GEHAEUSEOBERTEIL	70.354.2435.1	637
FKK18 / 1 Z	22.220.0121.0	217	GEHAEUSEOBERTEIL	70.356.1635.1	637	GEHAEUSEOBERTEIL	70.354.2435.2	637
FKK18 / 2	02.220.0321.0	217	GEHAEUSEOBERTEIL	70.356.2435.1	637	GEHAEUSEOBERTEIL	70.354.2435.3	637
FKK18 / 2 Z	22.220.0321.0	217	GEHAEUSEOBERTEIL	70.357.1035.1	637	GEHAEUSEOBERTEIL	70.354.3235.1	637
FKK18 / 3	02.220.0421.0	217	GEHAEUSEOBERTEIL	70.357.1635.1	637	GEHAEUSEOBERTEIL	70.354.3235.2	637
FKK18 / 3 Z	22.220.0421.0	217	GEHAEUSEOBERTEIL	70.357.2435.1	637	GEHAEUSEOBERTEIL	70.354.4828.7	769
FLACHSTECKER	05.555.8521.0	584	GEHAEUSEOBERTEIL	70.350.0628.7	769	GEHAEUSEOBERTEIL	70.354.4835.1	633
FLACHSTECKER	05.555.8621.0	584	GEHAEUSEOBERTEIL	70.350.0635.0	633	GEHAEUSEOBERTEIL	70.354.4835.2	633
FLACHSTECKER	05.555.8721.0	584	GEHAEUSEOBERTEIL	70.350.0635.1	633	GEHAEUSEOBERTEIL	70.355.1028.7	769
FLACHSTECKER	05.555.8821.0	584	GEHAEUSEOBERTEIL	70.350.0635.2	633	GEHAEUSEOBERTEIL	70.355.1035.0	637
FLACHSTECKER	05.555.8921.0	584	GEHAEUSEOBERTEIL	70.350.0635.3	633	GEHAEUSEOBERTEIL	70.355.1035.1	637
FLACHSTECKER	05.555.9121.0	584	GEHAEUSEOBERTEIL	70.350.1028.7	769	GEHAEUSEOBERTEIL	70.355.1628.7	769
FLARE MOVE BM SERIE 38	80.063.4129.3	444	GEHAEUSEOBERTEIL	70.350.1035.0	637	GEHAEUSEOBERTEIL	70.355.1635.0	637
FLARE MOVE BZ SERIE 38	80.063.4029.3	444	GEHAEUSEOBERTEIL	70.350.1035.1	637	GEHAEUSEOBERTEIL	70.355.1635.1	637
FLARE-110V-1W-250V6A-F	80.010.4131.0	442	GEHAEUSEOBERTEIL	70.350.1035.2	637	GEHAEUSEOBERTEIL	70.355.1635.2	637
FLARE-115V/48VDC-0,5A	80.020.4102.0	478	GEHAEUSEOBERTEIL	70.350.1635.3	637	GEHAEUSEOBERTEIL	70.355.2435.3	637
FLARE-120C-1W-250V6A-F	80.010.4106.0	442	GEHAEUSEOBERTEIL	70.350.1635.0	637	GEHAEUSEOBERTEIL	70.356.1035.0	637
FLARE-230V-1W-250V6A-F	80.010.4141.0	442	GEHAEUSEOBERTEIL	70.350.1635.1	637	GEHAEUSEOBERTEIL	70.356.1035.2	637
FLARE-230VAC/48VDC-0,5A	80.020.4103.0	479	GEHAEUSEOBERTEIL	70.350.1635.3	637	GEHAEUSEOBERTEIL	70.356.1035.3	637
FLARE-240C-1W-250V6A-F	80.010.4100.0	442	GEHAEUSEOBERTEIL	70.350.2435.0	637	GEHAEUSEOBERTEIL	70.356.1635.0	637
FLARE-240C-2W-250V6A-F	80.010.4103.0	443	GEHAEUSEOBERTEIL	70.350.2435.1	637	GEHAEUSEOBERTEIL	70.356.1635.2	637
FLARE-24V-1S-250V6A-HA	80.010.4101.0	446	GEHAEUSEOBERTEIL	70.350.2435.2	637	GEHAEUSEOBERTEIL	70.356.1635.3	637
FLARE-24V-1W-250V6A-CUT	80.010.4120.0	446	GEHAEUSEOBERTEIL	70.350.2435.3	637	GEHAEUSEOBERTEIL	70.356.2435.0	637
FLARE-24V-1W-48V20M	80.010.4005.0	442	GEHAEUSEOBERTEIL	70.350.3235.0	637	GEHAEUSEOBERTEIL	70.356.2435.2	637
FLARE-24V-1W-48V20M-F	80.010.4105.0	442	GEHAEUSEOBERTEIL	70.350.3235.1	637	GEHAEUSEOBERTEIL	70.356.2435.3	637
FLARE-24VDC/230VAC-0,5A	80.020.4150.0	479	GEHAEUSEOBERTEIL	70.350.3235.2	637	GEHAEUSEOBERTEIL	70.357.1035.0	637
FLARE-24VDC/48VDC-0,5A	80.020.4100.0	478	GEHAEUSEOBERTEIL	70.350.3235.3	637	GEHAEUSEOBERTEIL	70.357.1035.2	637
FLARE-24VDC/48VDC-2A	80.020.4101.0	478	GEHAEUSEOBERTEIL	70.350.4828.7	769	GEHAEUSEOBERTEIL	70.357.1035.3	637
FLARE-PID/0060-S-250V6A	81.020.4102.0	462	GEHAEUSEOBERTEIL	70.350.4835.0	633	GEHAEUSEOBERTEIL	70.357.1635.0	637
FLARE-PID/0100-S-250V6A	81.020.4101.0	462	GEHAEUSEOBERTEIL	70.350.4835.1	633	GEHAEUSEOBERTEIL	70.357.1635.2	637
FLARE-TIMER-S-250V6A	81.020.4100.0	462	GEHAEUSEOBERTEIL	70.350.4835.2	633	GEHAEUSEOBERTEIL	70.357.1635.3	637
FLK-SR 10	87.210.2201.3	561	GEHAEUSEOBERTEIL	70.351.0635.0	633	GEHAEUSEOBERTEIL	70.357.2435.0	637
FLK-SR 14	87.210.2202.3	561	GEHAEUSEOBERTEIL	70.351.0635.1	633	GEHAEUSEOBERTEIL	70.357.2435.1	637
FLK-SR 16	87.210.2203.3	561	GEHAEUSEOBERTEIL	70.351.0635.2	633	GEHAEUSEOBERTEIL	70.357.2435.3	637
FLK-SR 20	87.210.2204.3	561	GEHAEUSEOBERTEIL	70.351.0635.3	633	GEHAEUSEOBERTEIL	70.358.1035.0	637
FLK-SR 26	87.210.2205.3	561	GEHAEUSEOBERTEIL	70.351.1035.0	637	GEHAEUSEOBERTEIL	70.358.1035.1	637
FLK-SR 34	87.210.2207.3	561	GEHAEUSEOBERTEIL	70.351.1035.2	637	GEHAEUSEOBERTEIL	70.358.1035.2	637
FLK-SR 40	87.210.2208.3	561	GEHAEUSEOBERTEIL	70.351.1035.3	637	GEHAEUSEOBERTEIL	70.358.1035.3	637
FLK-SR 50	87.210.2210.3	561	GEHAEUSEOBERTEIL	70.351.1635.0	637	GEHAEUSEOBERTEIL	70.358.1635.0	637
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GEHAEUSEUNTERT	76.330.1535.0	723	GEHAEUSEUNTERT	77.343.1635.0	647	IVB WK 2.5-K 9 ROT	Z7.267.0927.5	160
GEHAEUSEUNTERT	76.330.1535.1	723	GEHAEUSEUNTERT	77.343.1635.1	647	IVB WK 2.5-K 11 ROT	Z7.267.1127.5	160
GEHAEUSEUNTERT	76.330.2535.0	723	GEHAEUSEUNTERT	77.343.2435.0	647	IVB WK 2.5-K 2 BLAU	Z7.267.0227.6	118
GEHAEUSEUNTERT	76.330.2535.1	723	GEHAEUSEUNTERT	77.343.2435.1	647	IVB WK 2.5-K- 2 ROT	Z7.267.0227.5	118
GEHAEUSEUNTERT	76.330.4035.0	723	GEHAEUSEUNTERT	99.700.3329.7	773	IVB WK 2.5-K- 3 BLAU	Z7.267.0327.6	160
GEHAEUSEUNTERT	76.330.4035.1	723	GEHAEUSEUNTERT	99.702.3329.7	773	IVB WK 2.5-K- 3 ROT	Z7.267.0327.5	160
GEHAEUSEUNTERT	76.331.1535.0	723	GEHAEUSEUNTERT	99.704.3329.7	773	IVB WK 2.5-K- 4 BLAU	Z7.267.0427.6	160
GEHAEUSEUNTERT	76.331.1535.1	723	GEHAEUSEUNTERT	99.706.3329.7	773	IVB WK 2.5-K- 4 ROT	Z7.267.0427.5	160
GEHAEUSEUNTERT	76.331.2535.0	723	GLEITMUTTER	05.516.9510.0	215	IVB WK 2.5-K- 5 BLAU	Z7.267.0527.6	160
GEHAEUSEUNTERT	76.331.2535.1	723	GRUNDZANGE	95.101.0800.0	291	IVB WK 2.5-K- 5 ROT	Z7.267.0527.5	160
GEHAEUSEUNTERT	76.331.4035.0	723	GRUNDZANGE	95.101.0800.1	631	IVB WK 2.5-K- 8 BLAU	Z7.267.0827.6	160
GEHAEUSEUNTERT	76.331.4035.1	723	GRUNDZANGE	95.101.0800.2	798	IVB WK 2.5-K- 8 ROT	Z7.267.0827.5	160
GEHAEUSEUNTERT	76.331.6435.0	723	GUMMISTOPFEN GR.	05.562.3283.0	755	IVB WK 2.5-K- 10 BLAU	Z7.267.1027.6	160
GEHAEUSEUNTERT	76.331.6435.1	723	GUMMISTOPFEN KL.	05.562.3183.0	755	IVB WK 2.5-K- 10 ROT	Z7.267.1027.5	160
GEHAEUSEUNTERT	76.333.4035.0	723	HALTEFEDER	05.549.0500.0	128	IVB WK 2.5-K- 12 BLAU	Z7.267.1227.6	118
GEHAEUSEUNTERT	76.333.4035.1	723	HALTERAHMEN 10	Z5.574.1053.0	782	IVB WK 2.5-K- 12 ROT	Z7.267.1227.5	118
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GEHAEUSEUNTERT	76.333.6435.1	723	HALTERAHMEN 24	Z5.574.2453.0	782	IVB WK 2.5-K-M-70 ROT	Z7.267.0027.5	160
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GEHAEUSEUNTERT	76.334.4035.1	634	ISOL.VERB.KAMM	Z7.258.1225.1	781	IVB WK4 E - 7	Z7.255.2727.0	160
GEHAEUSEUNTERT	76.334.6435.0	634	ISOL.VERB.KAMM	Z7.258.1325.0	781	IVB WK4 E - 8	Z7.255.2827.0	160
GEHAEUSEUNTERT	76.334.6435.1	634	ISOL.VERB.KAMM	Z7.258.1425.0	781	IVB WK4 E - 9	Z7.255.2927.0	160
GEHAEUSEUNTERT	76.335.1535.0	723	ISOL.VERB.KAMM	Z7.258.1525.0	781	IVB WK4 E-10	Z7.255.3027.0	160
GEHAEUSEUNTERT	76.335.1535.1	723	ISOL.VERB.KAMM	Z7.258.1625.0	781	IVB WK4 E-11	Z7.255.3127.0	160
GEHAEUSEUNTERT	76.335.2535.0	723	ISOL.VERB.KAMM	Z7.258.1725.0	781	IVB WK4 E-12	Z7.255.3227.0	160
GEHAEUSEUNTERT	76.335.2535.1	723	ISOL.VERB.KAMM	Z7.258.1825.0	781	IVB WK4 E/U- 2	Z7.271.2227.0	145
GEHAEUSEUNTERT	76.335.4035.0	634	ISOL.VERB.KAMM	Z7.258.1925.0	781	IVB WK4 E/U- 3	Z7.271.2327.0	145
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GEHAEUSEUNTERT	76.335.6435.1	634	ISOL.VERB.ST.	Z7.258.0325.0	204	IVB WK4 E/U- 6	Z7.271.2627.0	162
GEHAEUSEUNTERT	76.335.6435.1	634	ISOL.VERB.ST.	Z7.258.1025.0	204	IVB WK4 E/U- 7	Z7.271.2727.0	162
GEHAEUSEUNTERT	76.337.4035.0	635	ISOLIERGEHAUE	01.001.5053.0	584	IVB WK4 E/U- 8	Z7.271.2827.0	162
GEHAEUSEUNTERT	76.337.4035.1	635	ISOLIERGEHAUE	01.001.5153.0	584	IVB WK4 E/U- 9	Z7.271.2927.0	162
GEHAEUSEUNTERT	76.337.6435.0	635	ISOLIERGEHAUE	01.001.5353.0	586	IVB WK4 E/U-10	Z7.271.3027.0	162
GEHAEUSEUNTERT	76.337.6435.1	635	ISOLIERGEHAUE	01.001.5453.0	588	IVB WK4 E/U-11	Z7.271.3127.0	162
GEHAEUSEUNTERT	76.340.4035.0	725	ISOLIERGEHAUE	01.001.5653.0	588	IVB WK4 E/U-12	Z7.271.3227.0	145
GEHAEUSEUNTERT	76.340.4035.1	725	ISOLIERGEHAUE	01.001.5753.0	588	IVB WK4 - 2	Z7.271.4227.0	139
GEHAEUSEUNTERT	76.341.4035.0	725	ISOLIERGEHAUE	01.001.5853.0	588	IVB WK4 - 3	Z7.271.4327.0	139
GEHAEUSEUNTERT	76.341.6435.0	725	ISOLIERGEHAUE	01.001.6653.0	590	IVB WK4 -12	Z7.271.5227.0	69
GEHAEUSEUNTERT	76.342.4035.0	725	ISOLIERGEHAUE	01.001.6653.0	590	IVB WK4F 16-2	Z7.284.6227.0	25
GEHAEUSEUNTERT	76.342.6435.0	725	ISOLIERGEHAUE	01.001.6753.0	590	IVB WK4 E - 2	Z7.256.4227.0	114
GEHAEUSEUNTERT	76.344.4035.0	635	IVB 0.5 WK4. - 2	Z7.255.4027.0	86	IVB WK4 E - 3	Z7.256.4327.0	160
GEHAEUSEUNTERT	76.344.4035.1	635	IVB 0.5 WK4. - 3	Z7.255.4027.1	86	IVB WK4 E - 4	Z7.256.4427.0	160
GEHAEUSEUNTERT	76.344.6435.0	635	IVB 0.5 WK4. - 4	Z7.255.0427.0	86	IVB WK4 E - 5	Z7.256.4527.0	160
GEHAEUSEUNTERT	76.344.6435.1	635	IVB 0.5 WK4. - 5	Z7.255.0527.0	86	IVB WK4 E - 6	Z7.256.4627.0	114
GEHAEUSEUNTERT	76.345.4035.0	635	IVB 0.5 WK4. - 6	Z7.255.0627.0	86	IVB WK4 E - 7	Z7.256.4727.0	160
GEHAEUSEUNTERT	76.345.4035.1	635	IVB 0.5 WK4. - 7	Z7.255.0727.0	86	IVB WK4 E - 8	Z7.256.4827.0	160
GEHAEUSEUNTERT	76.345.6435.0	635	IVB 0.5 WK4. - 8	Z7.255.0827.0	86	IVB WK4 E - 9	Z7.256.4927.0	160
GEHAEUSEUNTERT	76.345.6435.1	635	IVB 0.5 WK4. - 9	Z7.255.0927.0	86	IVB WK4 E - 10	Z7.256.5027.0	160
GEHAEUSEUNTERT	76.346.4035.0	635	IVB 0.5 WK4. - 10	Z7.255.1027.0	86	IVB WK4 E - 11	Z7.256.5127.0	160
GEHAEUSEUNTERT	76.346.4035.1	635	IVB 0.5 WK4. - 11	Z7.255.1127.0	86	IVB WK4 E - 12	Z7.256.5227.0	160
GEHAEUSEUNTERT	76.346.6435.0	635	IVB 1 WK4. - 12	Z7.255.1227.0	86	IVBWK 2.5 - 2	Z7.280.2227.0	102
GEHAEUSEUNTERT	76.346.6435.1	635	IVB 1 WK4. - 2	Z7.255.4227.0	86	IVBWK 2.5 - 2	Z7.280.2227.1	310
GEHAEUSEUNTERT	76.347.4035.0	635	IVB 1 WK4. - 3	Z7.255.4327.0	86	IVBWK 2.5 - 3	Z7.280.2327.0	162
GEHAEUSEUNTERT	76.347.4035.1	635	IVB 1 WK4. - 4	Z7.255.4427.0	86	IVBWK 2.5 - 3	Z7.280.2327.1	102
GEHAEUSEUNTERT	76.347.6435.0	635	IVB 1 WK4. - 5	Z7.255.4527.0	86	IVBWK 2.5 - 4	Z7.280.2427.0	162
GEHAEUSEUNTERT	76.347.6435.1	635	IVB 1 WK4. - 6	Z7.255.4627.0	86	IVBWK 2.5 - 5	Z7.280.2527.0	162
GEHAEUSEUNTERT	76.347.6435.1	635	IVB 1 WK4. - 7	Z7.255.4727.0	86	IVBWK 2.5 - 6	Z7.280.2627.0	162
GEHAEUSEUNTERT	76.347.6435.1	635	IVB 1 WK4. - 8	Z7.255.4827.0	86	IVBWK 2.5 - 7	Z7.280.2727.0	162
GEHAEUSEUNTERT	77.320.1028.0	646	IVB 1 WK4. - 9	Z7.255.4927.0	86	IVBWK 2.5 - 8	Z7.280.2827.0	162
GEHAEUSEUNTERT	77.320.1628.0	646	IVB 1 WK4. - 10	Z7.255.5027.0	86	IVBWK 2.5 - 9	Z7.280.2927.0	162
GEHAEUSEUNTERT	77.320.2428.0	646	IVB 1 WK4. - 11	Z7.255.5127.0	86	IVBWK 2.5 - 10	Z7.280.3027.0	162
GEHAEUSEUNTERT	77.325.1028.0	647	IVB 1 WK4. - 12	Z7.255.5227.0	86	IVBWK 2.5 - 11	Z7.280.3127.0	162
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VBWk 4 - 9	Z7.281.1927.0	87	KL 16 / 20 PA DS	29.401.2053.0	256	KLADA ST. 6WR	72.015.0653.0	693
VBWk 4 - 10	Z7.281.2027.0	87	KL 16 / 4 PA	29.400.0453.0	256	KLADA ST. 6WR	72.115.0653.0	655
VBWk 4 - 11	Z7.281.2127.0	87	KL 16 / 4 PA DS	29.401.0453.0	256	KLADA ST. 6WR	72.115.0653.4	655
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VBWk 6 - 3	Z7.282.2327.0	101	KL 16 / 8 PA	29.400.0853.0	256	KLADA ST.10WL	70.130.1053.3	643
VBWk 6 - 4	Z7.282.2427.0	163	KL 16 / 8 PA DS	29.401.0853.0	256	KLADA ST.10WL	70.130.1053.4	643
VBWk 6 - 5	Z7.282.2527.0	163	KL 20 / 2 DS PA	29.500.1253.0	264	KLADA ST.10WL	72.110.1053.0	655
VBWk 6 - 6	Z7.282.2627.0	163	KL 20 / 2 PA	29.500.0253.0	264	KLADA ST.10WL	72.110.1053.4	655
VBWk 6 - 7	Z7.282.2727.0	163	KL 20 / 4 DS PA	29.500.1353.0	264	KLADA ST.10WR	70.115.1053.3	631
VBWk 6 - 8	Z7.282.2827.0	163	KL 20 / 4 PA	29.500.0353.0	264	KLADA ST.10WR	70.115.1053.4	631
VBWk 6 - 9	Z7.282.2927.0	163	KL 24 / 2	29.500.9253.0	265	KLADA ST.10WR	70.135.1053.3	643
VBWk 6 - 10	Z7.282.3027.0	163	KL 24 / 3	29.500.9353.0	265	KLADA ST.10WR	70.135.1053.4	643
VBWk 6 - 11	Z7.282.3127.0	163	KL 24 / 3 SL	29.502.9353.0	265	KLADA ST.10WR	72.115.1053.0	655
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VBWk 10 - 4	Z7.283.2427.0	78	KL 24 / 5	29.500.9553.0	265	KLADA ST.16WL	70.110.1653.3	631
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VBWk 2.5 - 2	Z7.280.6227.0	308	KL 28 / 6 DS PA	33.011.0653.0	214	KLADA ST.16WL	72.110.1653.0	655
VBWk 2.5 - 3	Z7.280.6327.0	308	KL 29 / 6 DS PA	33.041.0653.0	214	KLADA ST.16WL	72.110.1653.4	655
VBWk 2.5 - 3	Z7.280.6327.0	19	KL 30 / 3 DS PA	29.500.4053.0	265	KLADA ST.16WR	70.115.1653.3	631
VBWk 2.5 - 4	Z7.280.6427.0	308	KL 30 / 3 PA	29.500.3053.0	265	KLADA ST.16WR	70.115.1653.4	631
VBWk 2.5 - 4	Z7.280.6427.0	20	KL 58 / 3 / 1	29.130.1353.0	268	KLADA ST.16WR	72.115.1653.0	655
VBWk 2.5 - 5	Z7.280.6527.0	20	KL 58 / 3 S / 1	29.131.1353.0	269	KLADA ST.16WR	72.115.1653.4	655
VBWk 2.5 - 5	Z7.280.6527.0	308	KL 58 / 3 S R / 1	29.131.2353.0	269	KLADA ST.24WL	70.110.2453.3	631
VBWk 2.5 - 6	Z7.280.6627.0	20	KL 58 / 5 / 1	29.130.1553.0	268	KLADA ST.24WL	70.110.2453.4	631
VBWk 2.5 - 6	Z7.280.6627.0	308	KL 58 / 5 S / 1	29.131.1553.0	269	KLADA ST.24WL	72.110.2453.0	655
VBWk 2.5 - 7	Z7.280.6727.0	308	KL 58 / 5 S R / 1	29.131.2553.0	269	KLADA ST.24WL	72.110.2453.4	655
VBWk 2.5 - 7	Z7.280.6727.0	19	KL 58 / 6 / 1	29.130.1653.0	268	KLADA ST.24WR	70.115.2453.3	631
VBWk 2.5 - 8	Z7.280.6827.0	308	KL 58 / 6 S / 1	29.131.1653.0	269	KLADA ST.24WR	70.115.2453.4	631
VBWk 2.5 - 8	Z7.280.6827.0	20	KL 58 / 6 S R / 1	29.131.2653.0	269	KLADA ST.24WR	72.115.2453.0	655
VBWk 2.5 - 9	Z7.280.6927.0	20	KLADA BU. 3WL	70.120.0353.3	643	KLADA ST.24WR	72.115.2453.4	655
VBWk 2.5 - 9	Z7.280.6927.0	308	KLADA BU. 3WL	70.120.0353.4	643	KLADA ST.40WL	73.110.4053.0	719
VBWk 2.5 - 10	Z7.280.7027.0	20	KLADA BU. 3WR	70.125.0353.3	643	KLADA ST.40WR	73.115.4053.0	719
VBWk 2.5 - 10	Z7.280.7027.0	308	KLADA BU. 3WR	70.125.0353.4	643	KLADA ST.64WL	73.110.6453.0	719
VBWk 4 - 2	Z7.261.1227.0	20	KLADA BU. 6WL	70.000.0653.0	689	KLADA ST.64WR	73.115.6453.0	719
VBWk 4 - 10	Z7.261.2027.0	20	KLADA BU. 6WL	70.100.0653.0	631	KLADA STF 6WL	70.111.0653.0	631
VBWk 10 - 2	Z7.283.8227.0	21	KLADA BU. 6WL	70.100.0653.4	643	KLADA STF 6WR	70.116.0653.0	631
VBWk 16 - 2	Z7.284.4227.0	21	KLADA BU. 6WL	70.120.0653.0	631	KLADA STF10WL	70.111.1053.0	631
VBWk 4 - 3	Z7.261.1327.0	20	KLADA BU. 6WL	70.120.0653.4	643	KLADA STF10WL	70.111.1653.0	631
VBWk 4 - 4	Z7.261.1427.0	20	KLADA BU. 6WL	72.000.0653.0	693	KLADA STF10WR	70.116.1053.0	631
VBWk 4 - 5	Z7.261.1527.0	20	KLADA BU. 6WL	72.100.0653.0	655	KLADA STF16WR	70.116.1653.0	631
VBWk 4 - 6	Z7.261.1627.0	20	KLADA BU. 6WL	72.100.0653.4	655	KLADA STF24WL	70.111.2453.0	631
VBWk 4 - 7	Z7.261.1727.0	20	KLADA BU. 6WR	70.005.0653.0	689	KLADA STF24WR	70.116.2453.0	631
VBWk 4 - 8	Z7.261.1827.0	20	KLADA BU. 6WR	70.105.0653.3	631	KLADA BU.4/6WR	72.107.1053.0	699
VBWk 4 - 9	Z7.261.1927.0	20	KLADA BU. 6WR	70.105.0653.4	631	KLADA ST.4/6WR	72.117.1053.0	699
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VBWk 135 - 2	Z7.285.4227.0	79	KLADA BU. 6WR	70.125.0653.4	643	KLADAP BUF 3P WR	70.126.0353.0	643
VBWk 135 - 3	Z7.285.4327.0	79	KLADA BU. 6WR	72.005.0653.0	693	KLADAP BUF 3P WR	70.136.0653.0	643
VBWk 135 - 4	Z7.285.4427.0	79	KLADA BU. 6WR	72.105.0653.0	655	KLADAP BUF 6P WL	70.121.0653.0	643
VBWk 135 - 5	Z7.285.4527.0	79	KLADA BU. 6WR	72.105.0653.4	655	KLADAP BUF 6P WR	70.136.1053.0	643
VBWk 135 - 5	Z7.285.4627.0	79	KLADA BU.10WL	70.100.1053.3	631	KLADAP BUF 6P WL	70.121.0653.0	643
VBWk 135 - 6	Z7.285.4727.0	78	KLADA BU.10WL	70.100.1053.4	631	KLADAP BUF 6P WR	72.101.0653.0	655
VBWk 135 - 7	Z7.285.4827.0	78	KLADA BU.10WL	70.100.1053.3	643	KLADAP BUF 6P WR	70.126.0653.0	643
VBWk 135 - 8	Z7.285.4927.0	78	KLADA BU.10WL	70.120.1053.3	643	KLADAP BUF 6P WR	72.106.0653.0	655
VBWk 135 - 9	Z7.285.5027.0	78	KLADA BU.10WL	70.120.1053.4	643	KLADAP BUF10P WL	70.121.1053.0	643
VBWk 135 - 10	Z7.285.5127.0	78	KLADA BU.10WR	72.100.1053.0	655	KLADAP BUF10P WL	72.101.1053.0	655
VBWk 135 - 11	Z7.285.5227.0	163	KLADA BU.10WR	72.100.1053.4	655	KLADAP BUF10P WR	70.126.1053.0	643
VBWk 135 - 12	Z7.285.5327.0	163	KLADA BU.10WR	70.105.1053.3	631	KLADAP BUF10P WR	72.106.1053.0	655
VBWk 135 - 13	Z7.285.5427.0	163	KLADA BU.10WR	70.105.1053.4	631	KLADAP BUF16P WL	72.101.1653.0	655
VBWk 135 - 14	Z7.285.5527.0	163	KLADA BU.10WR	70.125.1053.3	643	KLADAP BUF16P WR	72.106.1653.0	655
VBWk 135 - 15	Z7.285.5627.0	163	KLADA BU.10WR	70.125.1053.4	643	KLADAP BUF24P WL	72.101.2453.0	655
VBWk 135 - 16	Z7.285.5727.0	103	KLADA BU.10WR	72.105.1053.0	655	KLADAP BUF24P WR	72.106.2453.0	655
VBWk 135 - 17	Z7.285.5827.0	104	KLADA BU.10WR	72.105.1053.4	655	KLADAP STF 3P WL	70.131.0353.0	643
VBWk 135 - 18	Z7.285.5927.0	104	KLADA BU.16WL	70.100.1653.3	631	KLADAP STF 3P WR	70.136.0353.0	643
VBWk 135 - 19	Z7.285.6027.0	163	KLADA BU.16WL	70.100.1653.4	631	KLADAP STF 6P WL	70.121.0653.0	643
VBWk 135 - 20	Z7.285.6127.0	163	KLADA BU.16WL	72.100.1653.0	655	KLADAP STF 6P WR	72.111.0653.0	655
VBWk 135 - 21	Z7.285.6227.0	163	KLADA BU.16WR	72.100.1653.4	655	KLADAP STF 6P WR	72.116.0653.0	655
VBWk 135 - 22	Z7.285.6327.0	163	KLADA BU.16WR	70.105.1653.3	631	KLADAP STF10P WL	70.131.1053.0	643
VBWk 135 - 23	Z7.285.6427.0	163	KLADA BU.16WR	70.105.1653.4	631	KLADAP STF10P WL	72.111.1053.0	655
VBWk 135 - 24	Z7.285.6527.0	163	KLADA BU.16WR	72.105.1653.0	655	KLADAP STF10P WR	72.116.1053.0	655
VBWk 135 - 25	Z7.285.6627.0	163	KLADA BU.16WR	72.105.1653.4	655	KLADAP STF16P WL	72.111.1653.0	655
VBWk 135 - 26	Z7.285.6727.0	163	KLADA BU.24WL	70.100.2453.3	631	KLADAP STF16P WR	72.116.1653.0	655
VBWk 135 - 27	Z7.285.6827.0	163	KLADA BU.24WL	70.100.2453.4	631	KLADAP STF24P WL	72.111.2453.0	655
VBWk 135 - 28	Z7.285.6927.0	163	KLADA BU.24WR	72.100.2453.0	655	KLADAP STF24P WR	72.116.2453.0	655
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VBWk 135 - 35	Z7.285.7627.0	163	KLADA BU.40WR	73.105.4053.0	719	KL17 N / 3 K/S6,3	29.608.3353.0	267
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VBWk 135 - 47	Z7.285.8827.0	210	KLADA ST. 3WL	70.130.0353.4	643	KL17 N / 9 K/S6,3	29.608.3953.0	267
VBWk 135 - 48	Z7.285.8927.0	210	KLADA ST. 3WR	70.135.0353.3	643	KL17 N / 10 /S6,3	29.608.1053.0	267
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KONT.AUFNAHME 2	05.502.3200.0	683	LP.STIFTFLEISTE	Z5.532.0925.0	317	LPSTL 1 / 10	25.001.1056.0	330
KONT.AUFNAHME 2	05.502.3200.0	798	LP.STIFTFLEISTE	Z5.532.1025.0	317	LPSTL 1 / 11	25.001.1156.0	330
KONT.AUFNAHME 3	05.502.3300.0	631	LP.STIFTFLEISTE	Z5.532.1125.0	317	LPSTL 1 / 12	25.001.1256.0	330
KONT.AUFNAHME 3	05.502.3300.0	798	LP.STIFTFLEISTE	Z5.532.1225.0	317	LPSTL 1 / 13	25.001.1356.0	330
KONTAKTFEDER	05.549.1200.0	177	LP.STIFTFLEISTE	Z5.532.1325.0	317	LPSTL 1 / 14	25.001.1456.0	330
KSO 11 / 1 Z KR	19.230.0040.0	216	LP.STIFTFLEISTE	Z5.532.1425.0	317	LPSTL 1 / 15	25.001.1556.0	330
KSQ 10 V	57.803.8053.0	509	LP.STIFTFLEISTE	Z5.532.1525.0	317	LPSTL 1 / 16	25.001.1656.0	330
KURZSCHLUSSTECKER	25.553.9400.0	176	LP.STIFTFLEISTE	Z5.532.1625.0	317	M - PB 8 SP	87.220.0853.3	482
LEITERHALTER	07.470.2256.0	258	LP.STIFTFLEISTE	Z5.532.3225.0	317	M - PB 1 SR	87.220.1353.3	482
LEITERHALTER	07.470.3256.0	258	LP.STIFTFLEISTE	Z5.532.3325.0	317	M - PB 4 SG	87.220.1453.3	483
LEL 1,5/1 WEISS	05.562.2453.0	309	LP.STIFTFLEISTE	Z5.532.3425.0	317	M - PB 4 SP	87.220.0753.3	482
LEL 1,5/1 WEISS	05.562.2453.0	33	LP.STIFTFLEISTE	Z5.532.3525.0	317	M - PB 8 SG	87.220.1553.3	483
LEL 1,5/2 GRAU	05.562.2553.0	309	LP.STIFTFLEISTE	Z5.532.3625.0	317	M 16 x 1,5	25.507.2121.0	776
LEL 1,5/2 GRAU	05.562.2553.0	33	LP.STIFTFLEISTE	Z5.532.3725.0	317	M 16 x 1,5	25.507.9521.0	777
LEL 1,5/3 SCHWARZ	05.562.2653.0	309	LP.STIFTFLEISTE	Z5.532.3825.0	317	M 16 x 1,5 - M 20 x 1,5	05.507.8621.0	778
LEL 1,5/3 SCHWARZ	05.562.2653.0	33	LP.STIFTFLEISTE	Z5.532.3925.0	317	M 20 x 1,5	05.507.4021.0	779
LEL 2,5/1 WEISS	05.561.6553.0	19	LP.STIFTFLEISTE	Z5.532.4025.0	317	M 20 x 1,5	05.507.4053.0	779
LEL 2,5/1 WEISS	05.561.6553.0	308	LP.STIFTFLEISTE	Z5.532.4125.0	317	M 20 x 1,5	25.507.2221.0	776
LEL 2,5/2 GRAU	05.561.6653.0	308	LP.STIFTFLEISTE	Z5.532.4225.0	317	M 20 x 1,5	25.507.4821.0	777
LEL 2,5/2 GRAU	05.561.6653.0	20	LP.STIFTFLEISTE	Z5.532.4325.0	317	M 20 x 1,5	25.507.5821.0	777
LEL 2,5/3 SCHWARZ	05.561.6753.0	308	LP.STIFTFLEISTE	Z5.532.4425.0	317	M 20 x 1,5	25.507.9621.0	777
LEL 2,5/3 SCHWARZ	05.561.6753.0	19	LP.STIFTFLEISTE	Z5.532.4525.0	317	M 20 x 1,5 IP68	25.507.1353.0	776
LEL 4/1 WEISS	05.561.8553.0	20	LP.STIFTFLEISTE	Z5.532.4625.0	317	M 20 x 1,5 - M 16 x 1,5	05.507.9021.0	778
LEL 4/2 GRAU	05.561.8653.0	20	LP.STIFTFLEISTE	Z5.540.0225.0	319	M 20 x 1,5 - M 25 x 1,5	05.507.8721.0	778
LEL 4/3 SCHWARZ	05.561.8753.0	20	LP.STIFTFLEISTE	Z5.540.0325.0	319	M 20 x 1,5 - PG 13,5	05.507.8121.0	779
LOCHSTREIFEN	07.413.3653.0	331	LP.STIFTFLEISTE	Z5.540.0425.0	319	M 20 x 1,5 - PG 16	05.507.8221.0	779
LP.STIFTFLEISTE	Z5.530.0225.0	318	LP.STIFTFLEISTE	Z5.540.0525.0	319	M 25 x 1,5	05.507.4121.0	779
LP.STIFTFLEISTE	Z5.530.0325.0	318	LP.STIFTFLEISTE	Z5.540.0625.0	319	M 25 x 1,5	05.507.4153.0	779
LP.STIFTFLEISTE	Z5.530.0425.0	318	LP.STIFTFLEISTE	Z5.540.0825.0	319	M 25 x 1,5	25.507.2321.0	776
LP.STIFTFLEISTE	Z5.530.0525.0	318	LP.STIFTFLEISTE	Z5.540.0925.0	319	M 25 x 1,5	25.507.6021.0	777
LP.STIFTFLEISTE	Z5.530.0625.0	318	LP.STIFTFLEISTE	Z5.540.1025.0	319	M 25 x 1,5	25.507.9721.0	777
LP.STIFTFLEISTE	Z5.530.0725.0	318	LP.STIFTFLEISTE	Z5.540.1125.0	319	M 25 x 1,5 - M 20 x 1,5	05.507.9121.0	778
LP.STIFTFLEISTE	Z5.530.0825.0	318	LP.STIFTFLEISTE	Z5.540.1225.0	319	M 25 x 1,5 - M 32 x 1,5	05.507.8821.0	778
LP.STIFTFLEISTE	Z5.530.0925.0	318	LP.STIFTFLEISTE	Z5.540.1325.0	319	M 25 x 1,5 - PG 21	05.507.8321.0	779
LP.STIFTFLEISTE	Z5.530.1025.0	318	LP.STIFTFLEISTE	Z5.540.1425.0	319	M 25x1,5 IP68	25.507.1553.0	776
LP.STIFTFLEISTE	Z5.530.1125.0	318	LP.STIFTFLEISTE	Z5.540.1525.0	319	M 32 x 1,5	05.507.4221.0	779
LP.STIFTFLEISTE	Z5.530.1225.0	318	LP.STIFTFLEISTE	Z5.540.1625.0	319	M 32 x 1,5	05.507.4253.0	779
LP.STIFTFLEISTE	Z5.530.1325.0	318	LP.STIFTFLEISTE	Z5.540.3225.0	319	M 32 x 1,5	25.507.2421.0	776
LP.STIFTFLEISTE	Z5.530.1425.0	318	LP.STIFTFLEISTE	Z5.540.3325.0	319	M 32 x 1,5	25.507.5221.0	777
LP.STIFTFLEISTE	Z5.530.1525.0	318	LP.STIFTFLEISTE	Z5.540.3425.0	319	M 32 x 1,5	25.507.6221.0	777
LP.STIFTFLEISTE	Z5.530.1625.0	318	LP.STIFTFLEISTE	Z5.540.3525.0	319	M 32 x 1,5	25.507.9821.0	777
LP.STIFTFLEISTE	Z5.530.3225.0	318	LP.STIFTFLEISTE	Z5.540.3625.0	319	M 32 x 1,5 IP68	25.507.1753.0	776
LP.STIFTFLEISTE	Z5.530.3325.0	318	LP.STIFTFLEISTE	Z5.540.3725.0	319	M 32 x 1,5 - M 25 x 1,5	05.507.9221.0	778
LP.STIFTFLEISTE	Z5.530.3425.0	318	LP.STIFTFLEISTE	Z5.540.3825.0	319	M 32 x 1,5 - M 40 x 1,5	05.507.8921.0	778
LP.STIFTFLEISTE	Z5.530.3525.0	318	LP.STIFTFLEISTE	Z5.540.3925.0	319	M 32 x 1,5 - PG 29	05.507.8421.0	779
LP.STIFTFLEISTE	Z5.530.3625.0	318	LP.STIFTFLEISTE	Z5.540.4025.0	319	M 40 x 1,5	05.507.4321.0	779
LP.STIFTFLEISTE	Z5.530.3725.0	318	LP.STIFTFLEISTE	Z5.540.4125.0	319	M 40 x 1,5	05.507.4353.0	779
LP.STIFTFLEISTE	Z5.530.3825.0	318	LP.STIFTFLEISTE	Z5.540.4225.0	319	M 40 x 1,5	25.507.6421.0	777
LP.STIFTFLEISTE	Z5.530.3925.0	318	LP.STIFTFLEISTE	Z5.540.4325.0	319	M 40 x 1,5 IP68	25.507.1921.0	776
LP.STIFTFLEISTE	Z5.530.4025.0	318	LP.STIFTFLEISTE	Z5.540.4425.0	319	M 40 x 1,5 - M 32 x 1,5	05.507.9321.0	778
LP.STIFTFLEISTE	Z5.530.4125.0	318	LP.STIFTFLEISTE	Z5.540.4525.0	319	M 40x1,5 IP68	25.507.1953.0	776
LP.STIFTFLEISTE	Z5.530.4225.0	318	LP.STIFTFLEISTE	Z5.540.4625.0	319	M-IAC 24	25.580.7800.0	482
LP.STIFTFLEISTE	Z5.530.4325.0	318	LP.STIFTFLEISTE	Z5.540.6225.0	319	M-IDC 24	25.580.8100.0	482
LP.STIFTFLEISTE	Z5.530.4425.0	318	LP.STIFTFLEISTE	Z5.540.6325.0	319	MZ5 x 1,5	25.507.5021.0	777
LP.STIFTFLEISTE	Z5.530.4525.0	318	LP.STIFTFLEISTE	Z5.540.6425.0	319	MAGAZ.M.25 BUCHS.	22.123.7400.0	800
LP.STIFTFLEISTE	Z5.530.4625.0	318	LP.STIFTFLEISTE	Z5.540.6525.0	319	MAGAZIN M. 25 BU.	22.123.7000.0	800
LP.STIFTFLEISTE	Z5.530.6225.0	318	LP.STIFTFLEISTE	Z5.540.6625.0	319	MAGAZIN M. 25 BU.	22.123.7100.0	800
LP.STIFTFLEISTE	Z5.530.6325.0	318	LP.STIFTFLEISTE	Z5.540.6725.0	319	MAGAZIN M. 25 BU.	22.123.7200.0	800
LP.STIFTFLEISTE	Z5.530.6425.0	318	LP.STIFTFLEISTE	Z5.540.6825.0	319	MAGAZIN M. 25 BU.	22.123.7300.0	800
LP.STIFTFLEISTE	Z5.530.6525.0	318	LP.STIFTFLEISTE	Z5.540.8225.0	319	MAGAZIN M. 25 ST.	25.543.7000.0	800
LP.STIFTFLEISTE	Z5.530.6625.0	318	LP.STIFTFLEISTE	Z5.540.8325.0	319	MAGAZIN M. 25 ST.	25.543.7100.0	800
LP.STIFTFLEISTE	Z5.530.6725.0	318	LP.STIFTFLEISTE	Z5.540.8425.0	319	MAGAZIN M. 25 ST.	25.543.7200.0	800
LP.STIFTFLEISTE	Z5.530.6825.0	318	LP.STIFTFLEISTE	Z5.540.8525.0	319	MAGAZIN M. 25 ST.	25.543.7300.0	800
LP.STIFTFLEISTE	Z5.530.8225.0	318	LP.STIFTFLEISTE	Z5.540.8625.0	319	MAGAZIN M. 25 ST.	25.543.7400.0	800
LP.STIFTFLEISTE	Z5.530.8325.0	318	LP.STIFTFLEISTE	Z5.540.8725.0	319	MMLLEISTEGE / 5	21.310.0553.0	258
LP.STIFTFLEISTE	Z5.530.8425.0	318	LP.STIFTFLEISTE	Z5.540.8825.0	319	MOD. 3POL	05.502.0910.0	741
LP.STIFTFLEISTE	Z5.530.8525.0	318	LP.STIFTFLEISTE	Z5.599.9025.0	320	MOD. 4POL	05.502.0610.0	741
LP.STIFTFLEISTE	Z5.530.8625.0	318	LP.STIFTFLEISTE	Z5.540.0725.0	319	MOD. 5POL	05.502.0810.0	741
LP.STIFTFLEISTE	Z5.530.8725.0	318	LPB-14L-250V1A	87.040.3053.0	540	MOD.10POL	05.502.0710.0	741
LP.STIFTFLEISTE	Z5.530.8825.0	318	LPST 1 / 2	25.000.0256.0	330	MOD.20POL	05.502.0410.0	741
LP.STIFTFLEISTE	Z5.531.0225.0	316	LPST 1 / 2 OB	25.010.0256.0	330	MODULOSEWZ.	05.502.1010.0	741
LP.STIFTFLEISTE	Z5.531.0325.0	316	LPST 1 / 3	25.000.0356.0	330	N SH/35/F	21.980.0153.0	213
LP.STIFTFLEISTE	Z5.531.0425.0	316	LPST 1 / 3 OB	25.010.0356.0	330	OAC 3-32V/24-280V	28.000.0156.9	482
LP.STIFTFLEISTE	Z5.531.0525.0	316	LPST 1 / 4	25.000.0456.0	330	OBerteil	75.013.0051.2	758
LP.STIFTFLEISTE	Z5.531.0625.0	316	LPST 1 / 4 OB	25.010.0456.0	330	OBerteil	75.013.0051.2	758
LP.STIFTFLEISTE	Z5.531.0725.0	316	LPST 1 / 5	25.000.0556.0	330	ODC 3-32V/3-200V	28.000.0169.9	482
LP.STIFTFLEISTE	Z5.531.0825.0	316	LPST 1 / 5 OB	25.010.0556.0	330	ODC 3-32V/3-60V	28.000.0169.8	482
LP.STIFTFLEISTE	Z5.531.0925.0	316	LPST 1 / 6	25.000.0656.0	330	PG 13,5 - M 20 x 1,5	05.507.7621.0	778
LP.STIFTFLEISTE	Z5.531.1025.0	316	LPST 1 / 6 OB	25.010.0656.0	330	PG 16 - M 20 x 1,5	05.507.7721.0	778
LP.STIFTFLEISTE	Z5.531.1125.0	316	LPST 1 / 7	25.000.0756.0	330	PG 21 - M 25 x 1,5	05.507.7821.0	778
LP.STIFTFLEISTE	Z5.531.1225.0	316	LPST 1 / 7 OB	25.010.0756.0	330	PRESSWERKZEUG	95.101.0900.0	798
LP.STIFTFLEISTE	Z5.531.1325.0	316	LPST 1 / 8	25.000.0856.0	330	PRESSWERKZEUG	95.101.1000.0	798
LP.STIFTFLEISTE	Z5.531.1425.0	316	LPST 1 / 8 OB	25.010.0856.0	330	PRESSWERKZEUG	95.101.1100.0	799
LP.STIFTFLEISTE	Z5.531.1525.0	316	LPST 1 / 9	25.000.0956.0	330	PRESSWERKZEUG	95.101.1200.0	799
LP.STIFTFLEISTE	Z5.531.1625.0	316	LPST 1 / 9 OB	25.010.0956.0	330	PRUEFSTECKER	21.299.7153.0	189
LP.STIFTFLEISTE	Z5.531.3225.0	316	LPST 1 / 10	25.000.1056.0	330	PRUEFSTECKER	21.299.8153.0	176
LP.STIFTFLEISTE	Z5.531.3325.0	316	LPST 1 / 10 OB	25.010.1056.0	330	PRUEFSTECKER	25.533.7121.0	357
LP.STIFTFLEISTE	Z5.531.3425.0	316	LPST 1 / 11	25.000.1156.0	330	PRUEFSTECKER	25.533.7221.0	357
LP.STIFTFLEISTE	Z5.531.3525.0	316	LPST 1 / 11 OB	25.010.1156.0	330	PRUEFSTECKER	25.543.0153.0	358

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QUERSCHALTASCHWE	Z7.269.3523.0	190	RICOS S 8 I/O	83.031.1100.1	428	ST 70.3 /24 RV	Z5.571.3356.0	675
QUERSCHALTASCHWE	Z7.269.3623.0	161	RICOS S 8 I/O	83.031.1300.1	428	ST 70.3 /24 REVZ	Z5.571.2356.0	675
QUERSCHALTASCHWE	Z7.269.4023.0	161	RICOS SOCKET FEMALE-S	83.031.0010.0	410	ST 70.7 /6 REVZ	Z5.571.5156.0	677
QUERSCHALTASCHWE	Z7.269.4123.0	161	RICOS SOCKET FINAL-DP	83.030.0011.0	410	ST 70.7 /6 REVZ	Z5.571.4156.0	677
QUERSCHALTASCHWE	Z7.269.4223.0	161	RICOS SOCKET KNOT-DP	83.030.0010.0	410	ST 70.7 /6 RV	Z5.571.8656.0	677
R12- 12V-W-LED	87.220.7553.0	454	RICOS SOCKET MALE-S	83.031.0011.0	410	ST 70.7 /6 REVZ	Z5.571.6656.0	677
RAB - FS16 W A-S5	87.221.6653.0	566	RSV 2 BLAU	93.004.0056.6	207	ST 70.7 /10 REVZ	Z5.571.5256.0	677
RAB - FS16 W B-S5	87.221.6753.0	566	RSV 2 GRAU	93.004.0056.0	207	ST 70.7 /10 REVZ	Z5.571.4256.0	677
RAB - SS 4	87.220.1853.0	454	RV A/2 L BLAU	26.500.4453.0	208	ST 70.7 /10 RV	Z5.571.8756.0	677
RAB - SS 4/2	87.220.4753.3	455	RV2 A/2 TP1 BLAU	26.500.4553.0	209	ST 70.7 /10 RVZ	Z5.571.6756.0	677
RAB - SS 8/2	87.220.4853.3	455	RV2 A/3 L	26.500.4153.0	208	ST 70.7 /16 REVZ	Z5.571.5056.0	677
RAB - SS 4 M	87.221.5553.0	454	RV2 A/3 TP1	26.500.4253.0	209	ST 70.7 /16 REVZ	Z5.571.4056.0	677
RAB-FSS 16	87.220.2253.3	454	RV2 A/4 BLAU	26.500.4353.0	208	ST 70.7 /16 RV	Z5.571.8056.0	677
RAB-FSS 8	87.220.1953.3	454	RV2 A/6	26.500.4053.0	208	ST 70.7 /16 RVZ	Z5.571.6556.0	677
RASTHEBEL	05.594.3653.0	331	RV2 S/2 L BLAU	26.500.2453.0	206	ST 70.7 /24 REVZ	Z5.571.5356.0	677
REDUZIERPL. 24/10	07.416.6453.0	784	RV2 S/2 TP1 BLAU	26.500.2553.0	207	ST 70.7 /24 REVZ	Z5.571.4356.0	677
REDUZIERPL. 24/16	07.416.6553.0	784	RV2 S/3 L	26.500.2153.0	206	ST 70.7 /24 RV	Z5.571.8856.0	677
REDUZIERPL. 24/6	07.416.6353.0	784	RV2 S/3 TP1	26.500.2253.0	207	ST 70.7 /24 REVZ	Z5.571.6856.0	677
REVOS MOD. RAHM. BU	78.000.0653.0	742	RV2 S/4 BLAU	26.500.2353.0	206	ST 72.3 /10 REVZ	Z5.571.1756.0	679
REVOS MOD. RAHM. BU	78.000.1053.0	739	RV2 S/6	26.500.2053.0	206	ST 72.1 /6 REVZ	Z5.573.0656.0	679
REVOS MOD. RAHM. BU	78.000.1653.0	742	SBS-4SI-230V6.3A	87.010.7453.0	540	ST 72.1 /6 REVZ	Z5.573.1656.0	679
REVOS MOD. RAHM. BU	78.000.2453.0	742	SBS-4SI-24V6.3A	87.010.7653.0	540	ST 72.1 /6 REVZ	Z5.573.4656.0	679
REVOS MOD. RAHM. ST	78.010.0653.0	742	SCHIENENHALTER	Z5.519.0310.0	213	ST 72.1 /6 REVZ	Z5.573.5656.0	679
REVOS MOD. RAHM. ST	78.010.1053.0	739	SCHIENENHALTER	Z5.519.0410.0	213	ST 72.1 /6 RVZ	Z5.573.2656.0	679
REVOS MOD. RAHM. ST	78.010.1653.0	742	SCHIENENTRAEGER	Z1.980.0040.0	211	ST 72.1 /6 RVZ	Z5.573.3656.0	679
REVOS MOD. RAHM. ST	78.010.2453.0	742	SCHNELLMONT.GRIFF	05.582.8153.0	175	ST 72.1 /6 RVZ	Z5.573.6656.0	679
REVOS MODULBUJ. 3P	78.004.0353.0	739	SCHNELLMONT.GRIFF	05.593.4153.0	190	ST 72.1 /6 RVZ	Z5.573.7656.0	679
REVOS MODULBUJ. 4P	78.003.0453.0	740	SCHNELLMONT.GRIFF	05.593.5853.0	190	ST 72.1 /10 REVZ	Z5.573.0756.0	679
REVOS MODULBUJ. 5P	78.003.0553.0	740	SCHNELLMONT.GRIFF	05.593.5953.0	191	ST 72.1 /10 REVZ	Z5.573.1756.0	679
REVOS MODULBUJ. 10P	78.002.1053.0	740	SCHNELLMONT.GRIFF	05.594.5853.0	175	ST 72.1 /10 REVZ	Z5.573.4756.0	679
REVOS MODULBUJ. 20P	78.001.2053.0	740	SCHNELLMONT.GRIFF	05.594.5953.0	175	ST 72.1 /10 REVZ	Z5.573.5756.0	679
REVOS MODULST. 3P	78.014.0353.0	739	SCHNELLMONT.GRIFF	05.594.6053.0	175	ST 72.1 /10 RVZ	Z5.573.2756.0	679
REVOS MODULST. 4P	78.013.0453.0	740	SCHRAUBBUCHSE	05.508.8621.0	197	ST 72.1 /10 RVZ	Z5.573.3756.0	679
REVOS MODULST. 5P	78.013.0553.0	740	SCHRAUBBUCHSE	05.508.8721.0	197	ST 72.1 /10 RVZ	Z5.573.6756.0	679
REVOS MODULST. 10P	78.012.1053.0	740	SCHRAUBBUCHSE	05.508.9721.0	197	ST 72.1 /10 RVZ	Z5.573.7756.0	679
REVOS MODULST. 20P	78.011.2053.0	740	SCHRAUBENSATZ	Z6.012.0812.0	305	ST 72.1 /16 REVZ	Z5.573.0556.0	679
RFK 1 / 150 FK PA/VO	59.197.0255.0	157	SCHUTZDECKEL	Z7.409.7056.0	780	ST 72.1 /16 REVZ	Z5.573.1556.0	679
RFK 1 / 150 FMK PA/VO	59.197.1255.0	157	SCHUTZDECKEL	Z7.409.7156.0	780	ST 72.1 /16 REVZ	Z5.573.4556.0	679
RFK 1 / 150 FMK S35/VO	56.397.1255.0	157	SCHUTZDECKEL	Z7.409.7256.0	780	ST 72.1 /16 REVZ	Z5.573.5556.0	679
RFK 1 / 150 K PA/VO	59.197.0155.0	157	SCHUTZDECKEL	Z7.409.7356.0	780	ST 72.1 /16 RVZ	Z5.573.2556.0	679
RFK 1 / 185 F PA/VO	59.198.0055.0	158	SCHUTZDECKEL	Z7.409.8856.0	780	ST 72.1 /16 RVZ	Z5.573.3556.0	679
RFK 1 / 185 F S35/VO	56.398.0055.0	158	SCHUTZDECKEL	Z7.409.8956.0	780	ST 72.1 /16 RVZ	Z5.573.6556.0	679
RFK 1 / 185 FM PA/VO	59.198.1055.0	158	SELBSTKLEBESCHILD	05.584.9499.0	183	ST 72.1 /16 RVZ	Z5.573.7556.0	679
RFK 1 / 185 FM S35/VO	56.398.1055.0	158	SIST- GL-/VO	Z1.299.4255.0	38	ST 72.1 /24 REVZ	Z5.573.0856.0	679
RFK 1 / 240 F PA/VO	59.199.0055.0	159	SIST-.../VO	Z1.299.4055.0	38	ST 72.1 /24 REVZ	Z5.573.1856.0	679
RFK 1 / 240 F S35/VO	56.399.0055.0	159	SIST-LED /VO	Z1.299.4155.0	38	ST 72.1 /24 REVZ	Z5.573.4856.0	679
RFK 1 / 240 FK PA/VO	59.199.0255.0	159	SPERRBOLZ.M.FEDRG	05.513.4212.0	786	ST 72.1 /24 REVZ	Z5.573.5856.0	679
RFK 1 / 240 FK S35/VO	56.399.0255.0	159	SPERRBOLZ.M.FEDRG	05.592.0621.0	786	ST 72.1 /24 RVZ	Z5.573.2856.0	679
RFK 1 / 240 FM PA/VO	59.199.1055.0	159	SPERRSTUECK	05.593.7756.0	331	ST 72.1 /24 RVZ	Z5.573.3856.0	679
RFK 1 / 240 FM S35/VO	56.399.1055.0	159	SPERRSTUECK	Z5.592.1252.0	788	ST 72.1 /24 RVZ	Z5.573.6856.0	679
RFK 1 / 240 FMK PA/VO	59.199.1255.0	159	SR - A 4	Z1.000.9153.0	485	ST 72.1 /24 RVZ	Z5.573.7856.0	679
RFK 1 / 240 FMK S35/VO	56.399.1255.0	159	SR - 15	Z1.000.4753.0	485	ST 72.3 /6 REVZ	Z5.571.1656.0	679
RFK 1 / 240 K PA/VO	59.199.0155.0	159	SR 4-20 MA/UE 9,5-40VDC	57.802.3053.0	452	ST 72.3 /6 REVZ	Z5.571.0656.0	679
RFK 1 / 240 K S35/VO	56.399.0155.0	159	SSM-7E230V	87.010.2053.0	541	ST 72.3 /6 RVZ	Z5.571.3656.0	679
RFK 1 / 95 F PA/VO	59.195.0055.0	156	SSM-7E230V-250V5A	87.030.1053.0	541	ST 72.3 /6 REVZ	Z5.571.2656.0	679
RFK 1 / 95 F S35/VO	56.395.0055.0	156	SSW-V.24V/RS422	57.007.0153.0	553	ST 72.3 /6 REVZ	Z5.571.0756.0	679
RFK 1 / 95 FK PA/VO	59.195.0255.0	156	SSW-V.24V/RS485	57.007.0253.0	554	ST 72.3 /10 RVZ	Z5.571.3756.0	679
RFK 1 / 95 FK S35/VO	56.395.0255.0	156	SSW-V.24V/TTY	57.007.0053.0	553	ST 72.3 /10 RVZ	Z5.571.2756.0	679
RFK 1 / 95 FM PA/VO	59.195.1055.0	156	ST 2 / 2,3 ROT	Z5.553.2921.0	353	ST 72.3 /16 REVZ	Z5.571.1556.0	679
RFK 1 / 95 FM S35/VO	56.395.1055.0	156	ST 2 / 2,3 ROT	Z5.553.2921.0	19	ST 72.3 /16 REVZ	Z5.571.0556.0	679
RFK 1 / 95 FMK PA/VO	59.195.1255.0	156	ST 2 / 4 SCHWARZ	Z5.553.3021.0	176	ST 72.3 /16 RVZ	Z5.571.3556.0	679
RFK 1 / 95 FMK S35/VO	56.395.1255.0	156	ST 70.3 /24 REV	Z5.571.1356.0	675	ST 72.3 /16 RVZ	Z5.571.2556.0	679
RFK 1 / 95 K PA/VO	59.195.0155.0	156	ST 70.1 /6 REVZ	Z5.573.0156.0	675	ST 72.3 /24 REVZ	Z5.571.1856.0	679
RFK 1 / 95 K S35/VO	56.395.0155.0	156	ST 70.1 /6 REVZ	Z5.573.1156.0	675	ST 72.3 /24 REVZ	Z5.571.0856.0	679
RICOS PV-A	83.039.0000.0	416	ST 70.1 /6 REVZ	Z5.573.4156.0	675	ST 72.3 /24 RVZ	Z5.571.3856.0	679
RICOS 16 I	83.035.3000.1	416	ST 70.1 /6 REVZ	Z5.573.5156.0	675	ST 72.3 /24 RVZ	Z5.571.2856.0	679
RICOS 16 O	83.035.3200.1	419	ST 70.1 /6 RVZ	Z5.573.2156.0	675	ST 72.7 /6 REVZ	Z5.571.5656.0	681
RICOS 4A1 / +10V	83.035.4000.1	424	ST 70.1 /6 RVZ	Z5.573.3156.0	675	ST 72.7 /6 REVZ	Z5.571.4656.0	681
RICOS 4A1 / 10V	83.035.4001.1	424	ST 70.1 /6 RVZ	Z5.573.6156.0	675	ST 72.7 /6 RVZ	Z5.571.9656.0	681
RICOS 4A1 / 20MA	83.035.4010.1	426	ST 70.1 /6 RVZ	Z5.573.7156.0	675	ST 72.7 /6 REVZ	Z5.571.7656.0	681
RICOS 4A1 / PT100	83.035.4040.1	423	ST 70.1 /10 REVZ	Z5.573.0256.0	675	ST 72.7 /10 REVZ	Z5.571.5756.0	681
RICOS 4A1 / TC	83.035.4050.1	423	ST 70.1 /10 REVZ	Z5.573.1256.0	675	ST 72.7 /10 REVZ	Z5.571.4756.0	681
RICOS 4A1A0 / +10V	83.035.4100.1	425	ST 70.1 /10 REVZ	Z5.573.4256.0	675	ST 72.7 /10 RVZ	Z5.571.9756.0	681
RICOS 4A1A0 / 10V	83.035.4101.1	425	ST 70.1 /10 RVZ	Z5.573.5256.0	675	ST 72.7 /16 REVZ	Z5.571.7756.0	681
RICOS 4A1A0 / 20MA	83.035.4110.1	427	ST 70.1 /10 RVZ	Z5.573.2256.0	675	ST 72.7 /16 REVZ	Z5.571.4556.0	681
RICOS 4A1A0 / 4-20MA	83.035.4111.1	427	ST 70.1 /10 RVZ	Z5.573.3256.0	675	ST 72.7 /16 REVZ	Z5.571.5556.0	681
RICOS 41 AC 115V	83.035.5000.1	417	ST 70.1 /10 RVZ	Z5.573.6256.0	675	ST 72.7 /16 RVZ	Z5.571.9556.0	681
RICOS 41 AC 230V	83.035.5005.1	417	ST 70.1 /16 REVZ	Z5.573.7256.0	675	ST 72.7 /16 RVZ	Z5.571.7556.0	681
RICOS 40 RELAY	83.035.5200.1	418	ST 70.1 /16 REVZ	Z5.573.0056.0	675	ST 72.7 /24 REVZ	Z5.571.8556.0	681
RICOS 8 I/O	83.035.3100.1	416	ST 70.1 /16 REVZ	Z5.573.1056.0	675	ST 72.7 /24 REVZ	Z5.571.4856.0	681
RICOS 8 I/O	83.035.3300.1	419	ST 70.1 /16 REVZ	Z5.573.4056.0	675	ST 72.7 /24 RVZ	Z5.571.9856.0	681
RICOS BC-CAN-DN	83.032.0000.1	411	ST 70.1 /16 REVZ	Z5.573.5056.0	675	ST 72.7 /24 REVZ	Z5.571.7856.0	681
RICOS BC-CANOPEN	83.033.0000.1	411	ST 70.1 /16 RVZ	Z5.573.2056.0	675	ST 73.1 /40 REVZ	Z5.573.8056.0	683
RICOS BC-DP	83.030.0000.1	410	ST 70.1 /16 RVZ	Z5.573.3056.0	675	ST 73.1 /40 REVZ	Z5.573.9356.0	683
RICOS BC-S	83.031.0000.1	410	ST 70.1 /16 RVZ	Z5.573.6056.0	675	ST 73.1 /40 RVZ	Z5.573.8656.0	683
RICOS CAN-DN 16 I	83.032.1000.1	429	ST 70.1 /16 RVZ	Z5.573.7056.0	675	ST 73.1 /40 RVZ	Z5.573.9556.0	683
RICOS CAN-DN 16 O	83.032.1200.1	429	ST 70.1 /24 REVZ	Z5.573.0356.0	675	ST 73.1 /40 RVZ	Z5.573.8956.0	683
RICOS CAN-DN 8 I/O	83.032.1100.1	429	ST 70.1 /24 REVZ	Z5.573.1356.0	675	ST 73.1 /40 RVZ	Z5.573.9556.0	683
RICOS CAN-DN 8 I/O	83.032.1300.1	429	ST 70.1 /24 REVZ	Z5.573.4356.0	675	ST 73.1 /40 RVZ	Z5.573.9756.0	683
RICOS CANOPEN 16 I	83.033.1000.1	429	ST 70.1 /24 RVZ	Z5.573.5356.0	675	ST 73.1 /64 REVZ	Z5.573.8156.0	683
RICOS CANOPEN 16 O	83.033.1200.1	429	ST 70.1 /24 RVZ	Z5.573.2356.0	675	ST 73.1 /64 REVZ	Z5.573.8456.0	683
RICOS CANOPEN 8 I/O	83.033.1100.1	429	ST 70.1 /24 RVZ	Z5.573.3356.0	675	ST 73.1 /64 REVZ	Z5.573.9256.0	683
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ST.IG.ANL.	Z2.310.1053.9	767	STVB. KOMPLETT	99.721.0000.6	672	VB 1 WK 4..- 7	07.255.4727.0	168
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ST.EINSATZ 660V	Z0.410.0640.0	643	TR.STUECK M. U-F	05.583.0053.0	584	VB 11 / 1 / 2	07.250.0227.0	258
ST.EINSATZ 660V	Z0.410.1040.0	643	TR.STUECK M. U-F	05.583.0053.0	675	VB 11 / 1 / 6	07.250.0627.0	258
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ST.EINSATZ VERGOL	Z0.311.2440.0	631	TRENNWAND M.BEZ.	07.340.1353.0	152	VB RFK 1 / 95 / 3 / 32	07.205.1327.0	153
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STECKER D-SUB 15	87.200.2206.3	560	TS M4 S35	69.335.0453.0	219	VB WK 4 - 4	Z7.281.0427.0	87
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STECKERBUCHSE	05.509.6021.0	176	TSN AD 16 GELB	07.311.8553.8	104	VB WK 4/D..-3	Z7.281.6327.0	164
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STECKEREINSATZ	Z0.310.0640.0	631	TUSCHESTIFT 0.25	95.502.0125.0	49	VB WK 4/D..-5	Z7.281.6527.0	164
STECKEREINSATZ	Z0.310.1040.0	631	TUSCHESTIFT 0.35	95.502.0135.0	49	VB WK 4/D..-6	Z7.281.6627.0	164
STECKEREINSATZ	Z0.310.1640.0	631	TW 2,5 - 4 / 15 BLAU	07.311.1853.6	145	VB WK 4/D..M-70	Z7.281.6027.0	164
STECKEREINSATZ	Z0.310.2440.0	631	TW 2,5 - 4 / VO	07.311.1155.0	78	VB WK 10 / SI - 2	Z7.287.0227.0	125
STECKEREINSATZ	Z0.310.3253.0	631	TW 2,5 - 4 BL/VO	07.311.1155.6	78	VB WK 10 / SI - 3	Z7.287.0327.0	125
STECKEREINSATZ	Z0.310.4840.0	631	TW 4 TK.. / VO	07.311.8155.0	122	VB WK 10 / SI - 4	Z7.287.0427.0	165
STECKEREINSATZ	Z0.510.0653.0	631	TW 6 BL/VO	07.311.1255.6	103	VB WK 10 / SI - 5	Z7.287.0527.0	165
STECKEREINSATZ	Z0.510.1053.0	631	TW 1 - 2,5	07.312.5153.0	232	VB WK 10 / SI - 6	Z7.287.0627.0	165
STECKEREINSATZ	Z0.510.1653.0	631	TW 1 - 2,5	07.312.5153.6	232	VB WK 10 / SI M-30	Z7.287.0027.0	165
STECKEREINSATZ	Z0.510.2453.0	631	TW 2,5-3 D/U / VO	07.312.1255.0	118	VB WK 2,5 - 2	Z7.280.0227.0	120
STECKEREINSATZ	Z0.510.3253.0	631	TW 2,5-4 K/U / VO	07.312.0555.0	118	VB WK 2,5 - 3	Z7.280.0327.0	120
STECKEREINSATZ	Z0.510.4853.0	631	TW 2,5-4 KO/VO	07.310.9455.0	120	VB WK 2,5 - 4	Z7.280.0427.0	164
STECKEREINSATZ	Z0.710.0658.0	631	TW 4 E / VO	07.311.5055.0	114	VB WK 2,5 - 5	Z7.280.0527.0	164
STECKEREINSATZ	Z0.710.1058.0	631	TW 6 / VO	07.311.1255.0	103	VB WK 2,5 - 6	Z7.280.0627.0	120
STECKEREINSATZ	Z0.710.1658.0	631	TWC 1 - 2,5 D1.	07.312.5353.0	234	VB WK 2,5 M-80	Z7.280.0027.0	164
STECKEREINSATZ	Z0.710.2458.0	631	TWC 1 - 2,5 D1. BLAU	07.312.5353.6	234	VB WK 4E - 11	Z7.255.3127.0	168
STECKEREINSATZ	Z0.710.3253.0	631	TWC 1 - 2,5 D2 / E	07.312.5553.0	231	VB WK 6 - 2	Z7.282.0227.0	165
STECKEREINSATZ	Z0.710.4858.0	631	TWC 1 - 2,5 D2 / E BLAU	07.312.5553.6	236	VB WK 6 - 3	Z7.282.0327.0	165
STECKEREINSATZ	Z2.210.0653.0	693	TWF 1,5 E	07.312.3653.0	33	VB WK 6 - 4	Z7.282.0427.0	165
STECKEREINSATZ	Z2.215.0653.0	707	TWF 2,5 - 4	07.312.2253.0	19	VB WK 6 - 5	Z7.282.0527.0	165
STECKEREINSATZ	Z2.310.0653.0	655	TWF 2,5 - 4 BLAU	07.312.2253.6	20	VB WK 6 - 6	Z7.282.0627.0	165
STECKEREINSATZ	Z2.310.1053.0	655	TWF 2,5/D 1/2	07.312.2453.0	26	VB WK 6 M-40	Z7.282.0027.0	165
STECKEREINSATZ	Z2.310.1653.0	655	TWF 2,5/D 1/2 BLAU	07.312.2453.6	26	VB WK / S/WW/U - 2	Z7.281.3227.0	140
STECKEREINSATZ	Z2.310.2453.0	655	TWF 2,5/D 2/2	07.312.2653.0	26	VB WK / S/WW/U - 3	Z7.281.3327.0	140
STECKEREINSATZ	Z2.310.3253.0	655	TWF 2,5/D 2/2 BLAU	07.312.2653.6	26	VB WK / S/WW/U - 4	Z7.281.3427.0	164
STECKEREINSATZ	Z2.310.4853.0	655	TWF 4 E	07.312.5853.0	30	VB WK / S/WW/U - 5	Z7.281.3527.0	164
STECKEREINSATZ	Z2.310.8953.0	655	TWF 4/D1/2	07.312.4953.0	27	VB WK / S/WW/U - 6	Z7.281.3627.0	140
STECKEREINSATZ	Z2.710.0658.0	655	TWF 4/D1/2 BLAU	07.312.4953.6	27	VB WK / S/WW/U - 20	Z7.281.3027.0	164
STECKEREINSATZ	Z2.710.1058.0	655	TWI 4/VO	07.311.6955.0	72	VB WK2,5 KO - 2	Z7.257.0227.0	120
STECKEREINSATZ	Z2.710.1658.0	655	TWM 2,5 - 4 / 15	07.311.1853.0	145	VB WK2,5 KO - 3	Z7.257.0327.0	120
STECKEREINSATZ	Z2.710.2458.0	655	TWN 10 / VO	07.311.7655.0	103	VB WK2,5 KO - 20	Z7.257.2027.0	120
STECKEREINSATZ	Z2.710.3258.0	655	TWN 10 BL/VO	07.311.7655.6	103	VB WK4 E - 7	07.255.2727.0	168
STECKEREINSATZ	Z2.710.4858.0	655	TWN 16 / VO	07.311.7755.0	104	VB WK4 E - 8	07.255.2827.0	168
STECKEREINSATZ	Z3.310.0353.0	713	TWN 16 BL/VO	07.311.7755.6	104	VB WK4 E - 9	07.255.2927.0	168
STECKEREINSATZ	Z3.310.0453.0	713	TWN 35 / VO	07.311.7855.0	105	VB WK4 E - 10	07.255.3027.0	168
STECKEREINSATZ	Z3.310.0753.0	713	TWN 35 BL / VO	07.311.7855.6	105	VB WK4 E - 12	07.255.3227.0	168
STECKEREINSATZ	Z3.310.0853.0	713	TWN 70 / VO	07.311.7955.0	105	VB WK4 E - 2	07.255.2227.0	168
STECKEREINSATZ	Z3.310.1553.0	719	TWN 70 BL / VO	07.311.7955.6	105	VB WK4 E - 3	07.255.2327.0	168
STECKEREINSATZ	Z3.310.2553.0	719	TWN2,5E	07.312.1855.0	116	VB WK4 E - 4	07.255.2427.0	168
STECKEREINSATZ	Z3.310.4058.0	719	UEBERGABE UNIVERSAL-S5	87.221.6353.0	563	VB WK4 E - 5	07.255.2527.0	168
STECKEREINSATZ	Z3.310.6458.0	719	UEBERGABE UNIVERSAL-S5	87.222.6353.0	565	VB WK4 E - 6	07.255.2627.0	168
STECKERKONTAKT	05.544.3129.8	739	UET +10 V	57.802.1053.0	506	VB WK4 E M	07.255.2027.0	168
STECKERKONTAKT	05.544.3229.8	740	UET-P +10 V	57.802.1153.0	507	VB WK1 10 - 2	Z7.288.0227.0	87
STECKERKONTAKT	05.544.3329.8	740	UET-P +20 MA	57.802.1353.0	507	VB WK1 10 - 3	Z7.288.0327.0	87
STECKERKONTAKT	05.544.3429.8	740	UET-P +199mV	57.802.1453.0	507	VB WK1 10 - 4	Z7.288.0427.0	87
STECKERKONTAKT	05.544.3529.8	740	UET-P/LCD +10 V	57.802.2153.0	507	VB WK1 10 - 5	Z7.288.0527.0	87
STECKERKONTAKT	05.544.3629.8	740	UET-P/LCD +20MA	57.802.2353.0	507	VB WK1 10 - 6	Z7.288.0627.0	87
STECKERKONTAKT	05.544.3729.8	740	UET/LCD +10 V	57.802.2053.0	506	VB WK1 10 M-40	Z7.288.0027.0	87
STECKERKONTAKT	05.544.3829.8	740	UET/LCD +20 MA	57.802.2253.0	506	VB WK1 16 - 2	Z7.289.0227.0	87
STECKERKONTAKT	05.544.3929.8	740	UNTERLEGPLATTE	07.470.1380.0	258	VB WK1 16 - 3	Z7.289.0327.0	69
STECKERKONTAKT	05.544.4029.8	740	UNTERLEGPLATTE	07.471.1380.0	259	VB WK1 16 - 4	Z7.289.0427.0	87
STECKERKONTAKT	05.544.4129.8	740	UNTERLEGPLATTE	07.472.1380.0	259	VB WK1 16 - 5	Z7.289.0527.0	87
STECKERKONTAKT	05.544.4229.8	740	UNTERLEGPLATTE	07.473.1380.0	259	VB WK1 16 - 6	Z7.289.0627.0	87
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VBS WK4 E - 9	07.256.4927.0	168	WK 4 / D 1/2 U/V0 BLAU	57.504.5055.6	112	WKC 1 E/35	56.301.7053.0	231
VBS WK4 E - 10	07.256.5027.0	168	WK 4 / THSI5 U/V0	57.904.5355.0	124	WKC 1 SL/35	56.301.9053.0	231
VBS WK4 E - 11	07.256.5127.0	168	WK 4 / U / V0	57.504.0055.0	69	WKC 1 TKG/35	56.301.4053.0	231
VBS WK4 E - 12	07.256.5227.0	168	WK 4 / U BL / V0	57.504.0055.6	69	WKC 1 TKM/35	56.301.2053.0	231
VBWKN 10 - 2	Z7.283.6227.0	165	WK 4 / U F1/V0	57.504.1055.0	142	WKC 1 TKM/35 BLAU	56.301.2053.6	240
VBWKN 10 - 3	Z7.283.6327.0	165	WK 4 / U F2/V0	57.504.1155.0	142	WKC 2,5 / 35	56.303.0053.0	231
VBWKN 10 - 4	Z7.283.6427.0	165	WK 4 3-6 S 1K / U / V0	57.504.3755.0	138	WKC 2,5 / 35 BLAU	56.303.0053.6	231
VBWKN 10 - 5	Z7.283.6527.0	165	WK 4 3-6 S 1K/IW/U/V0	57.504.2755.0	139	WKC 2,5 D1/2/35	56.303.5053.0	231
VBWKN 10 - 6	Z7.283.6627.0	165	WK 4 5S2.8 1K / U/V0	57.504.3855.0	138	WKC 2,5 D1/2/35 BLAU	56.303.5053.6	234
VBWKN 10 - M-40	Z7.283.6027.0	165	WK 4 5S2.8 1K/IW/U/V0	57.504.2855.0	139	WKC 2,5 D1/2/SL/35	56.303.9353.0	235
VBWKN150 - 2	Z7.287.1227.0	165	WK 4 E / U G-U/LR/V0	57.404.8055.9	115	WKC 2,5 D2/2/35	56.303.5153.0	231
VBWKN150 - 3	Z7.287.1327.0	165	WK 4 E / U G-U/LR/V0	57.404.8355.5	115	WKC 2,5 D2/2/35 BLAU	56.303.5153.6	236
VERB.-SCHIENE	05.561.4125.0	310	WK 4 E / U G2/1/V0	57.404.8855.9	115	WKC 2,5 D2/2/SL/35	56.303.9153.0	231
VERB.-SCHIENE	05.561.4125.0	134	WK 4 E / U G2/V0	57.404.7955.9	115	WKC 2,5 E/35	56.303.7053.0	231
VERBINDUNGSKAMM	07.250.3027.0	128	WK 4 E / U G0/V0	57.404.8255.5	115	WKC 2,5 E/35 G-U/LR	56.303.8353.5	239
VERBINDUNGSKAMM #	07.250.1627.0	256	WK 4 E / U GU/V0	57.404.8155.9	115	WKC 2,5 E/35 G2	56.303.7953.5	239
VERBINDUNGSKAMM #	07.250.3127.0	128	WK 4 E / U LD 42V/V0	57.404.8455.5	115	WKC 2,5 E/35 G0	56.303.8253.5	239
VM WKF KO. 18	69.700.1853.0	45	WK 4 SL / U / V0	57.504.9055.0	69	WKC 2,5 E/35 ORANGE	56.303.7553.9	239
VM WKF KO. 9	69.700.0953.0	45	WK 4 TKG-TRST / U/V0	57.504.4555.0	123	WKC 2,5 E/35 ROT	56.303.7553.5	239
W.NR.07060796 GE SONDER	99.272.3521.9	258	WK 4 TKG-TRST P3/U/V0	57.504.4855.0	123	WKC 2,5 E/35/1D/2G ROT	56.303.7153.5	239
WAK16/1	30.494.1010.0	216	WK 4 TKS D / U / V0	57.504.4455.0	101	WKC 2,5 SL/35	56.303.9053.0	231
WAK16/1 BL	30.494.1010.6	216	WK 6 / U / V0	57.506.0055.0	101	WKC 2,5 TKG/35	56.303.4053.0	231
WAK16/1 GN	30.494.1010.7	216	WK 6 SL / U BL / V0	57.506.0055.6	101	WKC 2,5 TKM/35	56.303.2053.0	231
WAK16/2 BL/V0	30.494.3021.6	24	WK 6 SL / U / V0	57.506.9055.0	101	WKC 2,5 TKM/35 BLAU	56.303.2053.6	240
WAK25/3	30.494.1110.0	216	WK 10/SI U 5 X 20 /V0	57.910.5055.0	101	WKC2.5E/35/1D/2G ORANGE	56.303.7153.9	239
WAK25/3 BL	30.494.1110.6	193	WK 10/SI U 5 X 25 /V0	57.910.5155.0	125	WKF 1.5 E / 35	56.702.7053.0	33
WAK25/3 GN	30.494.1110.7	216	WK 10/SI U 5 X 30 /V0	57.910.5255.0	125	WKF 1.5E/8113/35	07.312.4753.0	37
WAK35/2 BL/V0	30.494.4021.6	107	WK 10/SI U 5X20M.GLB/V0	57.910.5855.0	125	WKF 1.5E/8113/35	07.312.4753.0	309
WAK35/2 BLANK	30.494.4121.0	24	WK 10/SI U 5X20M.NGL/V0	57.910.5455.0	125	WKF 1.5E/8113/35	56.702.2053.0	37
WAK35/3	30.494.2510.0	216	WK 10/SI U 6,3 X 32 /V0	57.910.5355.0	125	WKF 1.5E/8113/35	56.702.2053.6	309
WAK35/3 BL	30.494.2510.6	193	WK 10/SI U D/V0	57.910.4955.0	125	WKF 1.5 KOA 2L/SL	37.702.7853.0	45
WAK35/3 GN	30.494.2510.7	216	WK 10/SI U6.3X32M.GLB/V0	57.910.6155.0	125	WKF 1.5 KOA 2L/SL-PGE	37.702.8653.0	45
WAK4/1	30.494.0010.0	216	WK 10/SI U6.3X32M.NGL/V0	57.910.5755.0	125	WKF 1.5 KOE	37.702.7753.0	45
WAK4/1 BL	30.494.0010.6	216	WK 2,5 U / 8113 S-SV	05.576.5853.0	311	WKF 1.5 KOE-PGN	37.702.8753.0	45
WAK4/1 GN	30.494.0010.7	216	WK 2,5 U / 8113 S-SV	05.576.5853.0	311	WKF 1.5 KOI 3L	37.702.7453.0	44
WAK4/3	30.494.0110.0	216	WK 2,5-3 D SL /V0	56.503.8355.0	119	WKF 1.5 KOI 3L-PGE	37.702.8453.0	44
WAK4/3 BL	30.494.0110.6	216	WK 2,5-3 D SL-NGN /V0	56.503.8455.0	119	WKF 1.5 KOI 3L/SL	37.702.7553.0	44
WAK4/3 GN	30.494.0110.7	216	WK 2,5-3 D SL-PGN /V0	56.503.8555.0	119	WKF 1.5 KOI 3L/SL-PGE	37.702.8553.0	44
WE 1/U	25.523.5753.0	101	WK 2,5-3 D/U /V0	57.503.8855.0	118	WKF 10/35	56.710.0053.0	21
WE 1/U	25.523.5753.0	584	WK 2,5-3 D/U-NGN /V0	57.503.8955.0	118	WKF 10/35 BLAU	56.710.0053.6	21
WE 2/U	25.523.5653.0	105	WK 2,5-3 D/U-PGN /V0	57.503.9055.0	118	WKF 10SL/35	56.710.9053.0	23
WE SH 1/35	25.515.3310.0	212	WK 2,5-4 KI SL /V0	56.503.7355.0	119	WKF 16/35	56.716.0053.0	21
WE SH 2/35	25.515.3410.0	212	WK 2,5-4 KI SL-NGN /V0	56.503.7455.0	119	WKF 16/35 BLAU	56.716.0053.6	21
WEB1001 LEERG.B3	87.030.0053.0	585	WK 2,5-4 KI SL-PGN /V0	56.503.7555.0	119	WKF 16SL/35	56.716.9053.0	23
WEB1001 LEERG.B1	86.010.0053.0	584	WK 2,5-4 KI SL-PRT /V0	56.503.7655.0	119	WKF 2,5 / 35	56.703.0053.0	19
WEB1001 LEERG.B1	87.010.0053.0	584	WK 2,5-4 KI/U /V0	57.503.7855.0	118	WKF 2,5 / 35 BLAU	56.703.0053.6	19
WEB1001 LEERG.B2	86.020.0053.0	584	WK 2,5-4 KI/U-NGN /V0	57.503.7955.0	118	WKF 2,5 / D / D / 35	56.703.5253.0	27
WEB1001 LEERG.B2	87.020.0053.0	584	WK 2,5-4 KOI / U /V0	57.503.7055.0	120	WKF 2,5 / D 1/2 /SL/35	56.703.9353.0	28
WEB1001 LEERG.B3	86.030.0053.0	585	WK 2,5-4 KOI / U-NGN /V0	57.503.7155.0	120	WKF 2,5 / D 2/2 / SL/35	56.703.9153.0	19
WEB1001 LEERG.B4	86.040.0053.0	585	WK 2,5-4 KOI / U-PGN /V0	57.503.7255.0	121	WKF 2,5 / D2/SL35/8113	56.703.9253.0	36
WEB1001 LEERG.B4	87.040.0053.0	585	WK 2,5U/8113S/H/V0	57.503.2055.0	137	WKF 2,5 / D2/SL35/8113	56.703.9253.6	308
WEB1001 LEERG.B6	87.060.0053.0	586	WK 2,5U/8113S/H/V0	57.503.2055.0	311	WKF 2,5 SL / 35	56.703.9053.0	19
WEB1001 LEERG.B7	87.070.0053.0	586	WK 4 E/U LD +P O 24/V0	57.404.7255.5	115	WKF 2,5 D1/2/35	56.703.5053.0	19
WEB1001 LEERG.B8	87.080.0053.0	587	WK 4 E/U LD -P O 24/V0	57.404.7455.9	115	WKF 2,5 D1/2/35 BLAU	56.703.5053.6	19
WEB1001 LEERG.B9	87.090.0053.0	587	WK 4 E/U LDG +P O 24/V0	57.404.8755.5	115	WKF 2,5 D2 35/8113	56.703.2053.0	308
WEF 1 BS/35	69.920.1053.0	47	WK 4 E/U LED+PO 24LD/V0	57.404.6255.9	115	WKF 2,5 D2 35/8113	56.703.2053.6	36
WEG 1/35	25.523.9353.0	20	WK 4 SI-D/U 5 X20/V0	57.504.1755.0	126	WKF 2,5 D2/ 35/8113 BL	56.703.2053.6	308
WEG 1/35	25.523.9353.0	308	WK 4 SI-D/U 5 X25/V0	57.504.1655.0	126	WKF 2,5 D2/ 35/8113 BL	56.703.2053.6	36
WEG LEERG. F. 4A	57.801.0053.0	592	WK 4 TKG/U / V0	57.504.4055.0	101	WKF 2,5 D2/2/35	56.703.5153.0	19
WEG LEERG. F. 4A	57.801.5053.0	592	WK 4 TKM P3/U / V0	57.504.2355.0	101	WKF 2,5 D2/2/35 BLAU	56.703.5153.6	19
WEG LEERG. F. 6A	57.801.5153.0	593	WK 4 TKM/U / V0	57.504.2055.0	101	WKF 4 E/35	56.704.7053.0	30
WEG LEERG. F. 6A	57.801.5253.0	593	WK 4 TKM/U BL / V0	57.504.2055.6	123	WKF 4 / 35	56.704.0053.0	19
WIEBOX CN 19 DK	07.416.5353.0	594	WK 4/D E/U/V0	57.504.5255.0	113	WKF 4 / 35 BLAU	56.704.0053.6	19
WIEBOX CN 19 DU	07.416.5453.0	594	WK 4/D1/2U/V0	57.504.5055.0	112	WKF 4 E/SL/35	56.704.9253.0	31
WIEBOX CN 19 EP	07.416.4553.0	594	WK 4/D2/2SLU/V0	57.504.9155.0	112	WKF 4 NT / 35	56.704.8153.0	24
WIEBOX CN 19 FK	07.416.4853.0	594	WK 4/D2/2U BL/V0	57.504.5155.6	113	WKF 4 SL / 35/V0	56.704.9053.0	19
WIEBOX CN 19 FKG	07.416.4856.0	594	WK 4/D2/2U/V0	57.504.5155.0	112	WKF 4 TKG / 35	56.704.4053.0	38
WIEBOX CN 19 GK	21.296.3553.0	594	WK 4/THSI 5 GL 250U /V0	57.904.5755.0	124	WKF 4 TKM / 35	56.704.2053.0	39
WIEBOX CN 19 GKL	21.296.3453.0	594	WK 4/THSI 5 GL 500U /V0	57.904.5855.0	124	WKF 4/D1/2/35	56.704.5053.0	27
WIEBOX CN 22 DK	07.416.5653.0	594	WK 4/THSI 5 LED 12U /V0	57.904.5455.0	124	WKF 4/D1/2/35 BLAU	56.704.5053.6	27
WIEBOX CN 22 DU	07.416.5753.0	594	WK 4/THSI 5 LED 24U /V0	57.904.5555.0	124	WKF 4/D1/2/SL/35	56.704.9353.0	29
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WIEBOX CN 22 FK	07.416.4953.0	594	WK 4/THSI6,3 GL 250U/V0	57.904.6755.0	124	WKF 6/35 BLAU	56.706.0053.6	21
WIEBOX CN 22 FKG	07.416.4956.0	594	WK 4/THSI6,3 GL 500U/V0	57.904.6855.0	124	WKF 6SL/35	56.706.9053.0	23
WIEBOX CN 22 GK	21.296.3953.0	594	WK 4/THSI6,3 LED 12U/V0	57.904.6455.0	124	WKI 10 / U BLAU/V0	57.510.1155.6	78
WIEBOX CN 22 GKL	21.296.3853.0	594	WK 4/THSI6,3 LED 24U/V0	57.904.6555.0	124	WKI 10 / U/V0	57.510.1155.0	80
WIEBOX CN 26 DK	07.416.5853.0	595	WK 4/THSI6,3 LED 60U/V0	57.904.6655.0	124	WKI 10 ETK/U/V0	57.510.8255.0	84
WIEBOX CN 26 DU	07.416.5953.0	595	WK 4/THSI6,3 U /V0	57.904.6355.0	124	WKI 10 PEN/35/V0	56.510.9455.0	84
WIEBOX CN 26 EP	07.416.4753.0	595	WK 4E SL /U /V0	57.504.9255.0	115	WKI 10 SL / 35/V0	56.510.9255.0	82
WIEBOX CN 26 FK	07.416.5053.0	595	WK 4E/U /V0	57.404.7055.0	114	WKI 16 / U BLAU/V0	57.516.1155.6	69
WIEBOX CN 26 FKG	07.416.5056.0	595	WK 4E/UV SW/V0	57.404.6955.1	114	WKI 16 / U/V0	57.516.1155.0	69
WIEBOX CN 26 GK	21.296.4353.0	595	WK2,5-4 KI/U-PGN /V0	57.503.8055.0	118	WKI 16 ETK/U/V0	57.516.9255.0	69
WIEBOX CN 26 GKL	21.296.4253.0	595	WK2,5U / 8113S/V.../V0	57.503.2655.0	336	WKI 16 PEN/35/V0	56.516.9455.0	84
WIEBOX CN BL1	05.561.9553.0	594	WK2,5U/8113S/V/LED25/V0	57.503.2755.0	310	WKI 16 SL / 35/V0	56.516.9255.0	69
WIEBOX CN BL2	05.561.9653.0	594	WK2,5U/8113S/V/LED25/V0	57.503.2755.0	336	WKI 35 / U BLAU/V0	57.535.1155.6	79
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X L= 1500 MIT SCHIRM	08.000.0106.1	569						
X L= 1500 OHNE SCHIRM	08.000.0107.5	569						
X L= 2000 MIT SCHIRM	08.000.0106.2	569						
X L= 2000 OHNE SCHIRM	08.000.0107.6	569						
X L= 2500 MIT SCHIRM	08.000.0106.3	569						
X L= 2500 OHNE SCHIRM	08.000.0107.7	569						
X L= 3000 MIT SCHIRM	08.000.0106.4	569						
X L= 3000 OHNE SCHIRM	08.000.0107.8	569						
X L= 3500 MIT SCHIRM	08.000.0106.5	569						
X L= 4000 MIT SCHIRM	08.000.0106.6	569						
X L= 4000 OHNE SCHIRM	08.000.0108.0	569						
X L= 4500 MIT SCHIRM	08.000.0106.7	569						
X L= 4500 OHNE SCHIRM	08.000.0108.1	569						
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X L= 5000 OHNE SCHIRM	08.000.0108.2	569						
X L= 6000 MIT SCHIRM	08.000.0106.9	569						
X L= 6000 OHNE SCHIRM	08.000.0108.3	569						
X L= 7000 MIT SCHIRM	08.000.0107.0	569						
X L= 7000 OHNE SCHIRM	08.000.0108.4	569						
X L= 8000 MIT SCHIRM	08.000.0107.1	569						
X L= 8000 OHNE SCHIRM	08.000.0108.5	569						
X L= 9000 MIT SCHIRM	08.000.0107.2	569						
X L= 9000 OHNE SCHIRM	08.000.0108.6	569						
X L=10000 MIT SCHIRM	08.000.0107.3	569						
X L=10000 OHNE SCHIRM	08.000.0108.7	569						
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04.841.1950.0	9704 A / 9 B	181	04.841.4950.0	9704 A / BK B	791	04.842.0651.0	9705 A B	90
04.841.1950.0	9704 A / 9 B	395	04.841.5050.0	9704 A / CK B	395	04.842.0850.0	9705 A B	321
04.841.1950.0	9704 A / 9 B	598	04.841.5050.0	9704 A / CK B	599	04.842.0850.0	9705 A B	588
04.841.1950.0	9704 A / 9 B	791	04.841.5050.0	9704 A / CK B	791	04.842.0850.0	9705 A B	790
04.841.2050.0	9704 A / 0 B	181	04.841.5150.0	9704 A / DK B	395	04.842.0850.0	9705 AL B	90
04.841.2050.0	9704 A / 0 B	395	04.841.5150.0	9704 A / DK B	599	04.842.1553.0	9705 AL B	394
04.841.2050.0	9704 A / 0 B	598	04.841.5150.0	9704 A / DK B	791	04.842.1553.0	9705 AL B	596
04.841.2050.0	9704 A / 0 B	791	04.841.5250.0	9704 A / EK B	395	04.842.1553.0	9705 AL B	790
04.841.2150.0	9704 A / 1-0 B	181	04.841.5250.0	9704 A / EK B	599	04.842.4953.0	9705A/5/9 B 1- 9	91
04.841.2150.0	9704 A / 1-0 B	349	04.841.5250.0	9704 A / EK B	791	04.842.4953.0	9705A/5/9 B 1- 9	394
04.841.2150.0	9704 A / 1-0 B	598	04.841.5350.0	9704 A / FK B	395	04.842.4953.0	9705A/5/9 B 1- 9	596
04.841.2150.0	9704 A / 1-0 B	791	04.841.5350.0	9704 A / FK B	599	04.842.5053.0	9705 A / 5 / 10 B	55
04.841.2250.0	9704 A / AG B	395	04.841.5350.0	9704 A / FK B	791	04.842.5053.0	9705 A / 5 / 10 B	349
04.841.2250.0	9704 A / AG B	598	04.841.5450.0	9704 A / GK B	395	04.842.5053.0	9705 A / 5 / 10 B	596
04.841.2250.0	9704 A / AG B	791	04.841.5450.0	9704 A / GK B	599	04.842.5053.0	9705 A / 5 / 10 B	790
04.841.2350.0	9704 A / BG B	395	04.841.5450.0	9704 A / GK B	791	04.842.5153.0	9705 A L / 5 / 10 B	790
04.841.2350.0	9704 A / BG B	598	04.841.5550.0	9704 A / HK B	395	04.842.5553.0	9705 A / 5 / 10 / 5 B	55
04.841.2350.0	9704 A / BG B	791	04.841.5550.0	9704 A / HK B	599	04.842.5553.0	9705 A / 5 / 10 / 5 B	394
04.841.2450.0	9704 A / JG B	395	04.841.5650.0	9704 A / IJ B	395	04.842.5553.0	9705 A / 5 / 10 / 5 B	596
04.841.2450.0	9704 A / JG B	598	04.841.5650.0	9704 A / IJ B	599	04.842.5953.0	9705A/6/9 B 1- 9	91
04.841.2450.0	9704 A / JG B	791	04.841.5650.0	9704 A / IJ B	791	04.842.6053.0	9705 A / 6 / 10 B	69
04.841.2550.0	9704 A / DG B	395	04.841.5750.0	9704 A / JI B	395	04.842.6553.0	9705 A / 6 / 10 / 5 B	69
04.841.2550.0	9704 A / DG B	598	04.841.5750.0	9704 A / JI B	599	04.842.6753.0	9705A/6,7/ 12 B	790
04.841.2550.0	9704 A / DG B	791	04.841.5850.0	9704 A / KK B	395	04.842.7553.0	9705 A / 7,5 / 10 B	351
04.841.2650.0	9704 A / EG B	598	04.841.5850.0	9704 A / KK B	791	04.842.7953.0	9705A/8/9 B 1- 9	201
04.841.2650.0	9704 A / EG B	791	04.841.5950.0	9704 A / LL B	395	04.842.8053.0	9705 A / 8 / 10 B	189
04.841.2750.0	9704 A / FG B	395	04.841.5950.0	9704 A / LL B	791	04.842.8553.0	9705 A / 8 / 10 / 5 B	91
04.841.2750.0	9704 A / FG B	598	04.841.6050.0	9704 A / MK B	395	04.845.0153.0	9705A/5/10 B 1- 10	91
04.841.2750.0	9704 A / FG B	791	04.841.6050.0	9704 A / MK B	599	04.845.0253.0	9705A/5/10 B 11- 20	91
04.841.2850.0	9704 A / GG B	395	04.841.6050.0	9704 A / MK B	791	04.845.0353.0	9705A/5/10 B 21- 30	91
04.841.2850.0	9704 A / GG B	598	04.841.6150.0	9704 A / NK B	395	04.845.0453.0	9705A/5/10 B 31- 40	91
04.841.2850.0	9704 A / GG B	791	04.841.6150.0	9704 A / NK B	599	04.845.0553.0	9705A/5/10 B 41- 50	91
04.841.2950.0	9704 A / HG B	395	04.841.6150.0	9704 A / NK B	791	04.845.0653.0	9705A/5/10 B 51- 60	91
04.841.2950.0	9704 A / HG B	598	04.841.6250.0	9704 A / OK B	395	04.845.0753.0	9705A/5/10 B 61- 70	91
04.841.2950.0	9704 A / HG B	791	04.841.6250.0	9704 A / OK B	599	04.845.0853.0	9705A/5/10 B 71- 80	91
04.841.3050.0	9704 A / JG B	395	04.841.6250.0	9704 A / OK B	791	04.845.0953.0	9705A/5/10 B 81- 90	91
04.841.3050.0	9704 A / JG B	598	04.841.6350.0	9704 A / PK B	395	04.845.1053.0	9705A/5/10 B 91-100	91
04.841.3050.0	9704 A / JG B	791	04.841.6350.0	9704 A / PK B	599	04.846.0153.0	9705A/6/10 B 1- 10	91
04.841.3150.0	9704 A / JG B	395	04.841.6450.0	9704 A / QK B	395	04.846.0253.0	9705A/6/10 B 11- 20	91
04.841.3150.0	9704 A / JG B	598	04.841.6450.0	9704 A / QK B	599	04.846.0353.0	9705A/6/10 B 21- 30	91
04.841.3150.0	9704 A / JG B	791	04.841.6450.0	9704 A / QK B	791	04.846.0453.0	9705A/6/10 B 31- 40	91
04.841.3250.0	9704 A / KG B	395	04.841.6550.0	9704 A / RK B	395	04.846.0553.0	9705A/6/10 B 41- 50	91
04.841.3250.0	9704 A / KG B	598	04.841.6550.0	9704 A / RK B	599	04.846.0653.0	9705A/6/10 B 51- 60	91
04.841.3250.0	9704 A / KG B	791	04.841.6650.0	9704 A / SK B	395	04.846.0753.0	9705A/6/10 B 61- 70	91
04.841.3350.0	9704 A / LG B	395	04.841.6650.0	9704 A / SK B	599	04.846.0853.0	9705A/6/10 B 71- 80	91
04.841.3350.0	9704 A / LG B	598	04.841.6650.0	9704 A / SK B	791	04.846.0953.0	9705A/6/10 B 81- 90	91
04.841.3350.0	9704 A / LG B	791	04.841.6750.0	9704 A / TK B	395	04.846.1053.0	9705A/6/10 B 91-100	91
04.841.3450.0	9704 A / MG B	395	04.841.6750.0	9704 A / TK B	599	04.848.0153.0	9705A/8/10 B 1- 10	201
04.841.3450.0	9704 A / MG B	598	04.841.6850.0	9704 A / UK B	395	04.848.0253.0	9705A/8/10 B 11- 20	201
04.841.3450.0	9704 A / MG B	791	04.841.6850.0	9704 A / UK B	599	04.848.0353.0	9705A/8/10 B 21- 30	201
04.841.3550.0	9704 A / NG B	395	04.841.6850.0	9704 A / UK B	791	04.848.0453.0	9705A/8/10 B 31- 40	201
04.841.3550.0	9704 A / NG B	598	04.841.6950.0	9704 A / VK B	395	04.848.0553.0	9705A/8/10 B 41- 50	201
04.841.3550.0	9704 A / NG B	791	04.841.6950.0	9704 A / VK B	599	04.848.0653.0	9705A/8/10 B 51- 60	201
04.841.3650.0	9704 A / OG B	395	04.841.6950.0	9704 A / VK B	791	04.848.0753.0	9705A/8/10 B 61- 70	201
04.841.3650.0	9704 A / OG B	598	04.841.7050.0	9704 A / WJ B	395	04.848.0853.0	9705A/8/10 B 71- 80	201
04.841.3650.0	9704 A / OG B	791	04.841.7050.0	9704 A / WJ B	599	04.848.0953.0	9705A/8/10 B 81- 90	201
04.841.3750.0	9704 A / PG B	395	04.841.7050.0	9704 A / WJ B	791	04.848.1053.0	9705A/8/10 B 91-100	201
04.841.3750.0	9704 A / PG B	598	04.841.7150.0	9704 A / XJ B	395	04.855.0053.0	9705A/5/10B SLZ	91
04.841.3750.0	9704 A / PG B	791	04.841.7150.0	9704 A / XJ B	599	04.855.0153.0	9705A/5/10B ERDZ	91
04.841.3850.0	9704 A / QG B	395	04.841.7150.0	9704 A / XJ B	791	04.855.0253.0	9705A/5/10 B +	91
04.841.3850.0	9704 A / QG B	598	04.841.7250.0	9704 A / YK B	395	04.855.0253.0	9705A/5/10 B + ROT	120
04.841.3850.0	9704 A / QG B	791	04.841.7250.0	9704 A / YK B	599	04.855.0353.0	9705A/5/10 B -	91
04.841.3950.0	9704 A / RG B	395	04.841.7350.0	9704 A / ZK B	395	04.855.0353.6	9705A/5/10 B - BLAU	120
04.841.3950.0	9704 A / RG B	598	04.841.7350.0	9704 A / ZK B	599	04.855.0453.0	9705A/5/10B L1	91
04.841.3950.0	9704 A / RG B	791	04.841.7450.0	9704 A / ZK B	791	04.855.0553.0	9705A/5/10B L2	91
04.841.4050.0	9704 A / SG B	395	04.841.7450.0	9704 A / ZK B	395	04.855.0653.0	9705A/5/10B L3	91
04.841.4050.0	9704 A / SG B	598	04.841.7550.0	9704 A / ZK B	599	04.855.0753.0	9705A/5/10B PE	91
04.841.4050.0	9704 A / SG B	791	04.841.7550.0	9704 A / ZK B	791	04.855.0853.0	9705A/5/10B L1L2L3NPE..	91
04.841.4150.0	9704 A / TG B	395	04.841.7550.0	9704 A / ZK B	395	04.855.0953.0	9705A/5/10B F1	91
04.841.4150.0	9704 A / TG B	598	04.841.7450.0	9704 A / + B	181	04.855.1053.0	9705A/5/10B F2	91
04.841.4150.0	9704 A / TG B	791	04.841.7450.0	9704 A / + B	395	04.855.3153.0	9705A/5/10B SL	91
04.841.4250.0	9704 A / UG B	395	04.841.7450.0	9704 A / + B	599	04.855.3253.0	9705A/5/10B N	91
04.841.4250.0	9704 A / UG B	598	04.841.7450.0	9704 A / + B	791	04.856.0053.0	9705A/6/10 B SLZ	91
04.841.4250.0	9704 A / UG B	791	04.841.7550.0	9704 A / - B	181	04.856.0153.0	9705A/6/10 B ERDZ	91
04.841.4350.0	9704 A / VJ B	395	04.841.7550.0	9704 A / - B	395			

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04.856.0553.0	9705A/6/10 B L2	91	05.543.7001.0		631	05.584.8953.0	TR.STUECK M. U-F	590
04.856.0653.0	9705A/6/10 B L3	91	05.543.7021.0	FUER 0,5 MM2	631	05.584.9489.0	SELBSTKLEBESCHILD	183
04.856.0753.0	9705A/6/10B PE	91	05.543.7101.0		631	05.590.0052.0	315 E	182
04.856.0853.0	9705A/6/10B L1L2L3NPE..	91	05.543.7121.0	FUER 0,75-1 MM2	631	05.590.3121.0	1036 R	263
04.856.0953.0	9705A/6/10B F1	91	05.543.7201.0	FUER 1,5 MM2 VERGOLD	631	05.591.1255.0		410
04.856.1053.0	9705A/6/10B F2	91	05.543.7221.0	FUER 1,5 MM2	631	05.591.3089.0	ETIKETTEN A4	416
04.856.3153.0	9705A/6/10B SL	91	05.543.7301.0		631	05.591.3255.0	RICOS DISK BASE	410
04.856.3253.0	9705A/6/10B N	201	05.543.7321.0	FUER 2,5 MM2	631	05.591.3389.0	RICOS MANUAL D.	410
04.858.0053.0	9705A/8/10B SLZ	91	05.543.7401.0		631	05.592.0621.0	SPERRBOLZ M.FEDRG	786
04.858.0153.0	9705A/8/10B ERDZ	201	05.543.7421.0	FUER 4 MM2	631	05.592.1152.0		256
04.858.0253.0	9705A/8/10B +	201	05.543.9021.0	FUER 0,5 MM2 KURZ	655	05.592.1953.0	TRENNSTUECK	215
04.858.0353.0	9705A/8/10B -	201	05.543.9121.0	FUER 0,75-1 MM2	655	05.592.7553.0	FUER NYAF 1,5 MM2	138
04.858.0453.0	9705A/8/10B L1	201	05.543.9221.0	FUER 1,5 MM2 KURZ	655	05.592.7653.0	FUER NYAF 2,5 MM2	138
04.858.0553.0	9705A/8/10B L2	201	05.543.9321.0	FUER 2,5 MM2 KURZ	655	05.593.4153.0	SCHNELLMONT.GRIFF	190
04.858.0653.0	9705A/8/10B L3	201	05.543.9421.0	FUER 4 MM2	655	05.593.5853.0	SCHNELLMONT.GRIFF	190
04.858.0753.0	9705A/8/10B PE	201	05.544.0900.0	0,2-0,56 QMM	683	05.593.5953.0	SCHNELLMONT.GRIFF	191
04.858.0853.0	9705A/8/10B L1L2L3NPE..	201	05.544.0929.0	0,2-0,56 QMM	683	05.593.7756.0	SPERRSTUECK	331
04.858.0953.0	9705A/8/10B F1	201	05.544.1000.0	0,5-1,5 QMM	683	05.593.8853.0	BEF.HALTER	331
04.858.1053.0	9705A/8/10B F2	201	05.544.1029.0	0,5-1,5 QMM	683	05.594.3653.0	RASTHEBEL	331
04.858.3153.0	9705A/8/10B SL	201	05.544.1400.0	0,5-1,5 QNN VERGOLDET	683	05.594.5153.0	CODIERSTUECK-AST	219
04.858.3253.0	9705A/8/10B N	201	05.544.1429.0	0,5-1,5 QMM VERGOLDET	683	05.594.5853.0	SCHNELLMONT.GRIFF	175
05.084.0212.0		390	05.544.3129.8	STECKERKONTAKT	739	05.594.5953.0	SCHNELLMONT.GRIFF	175
05.091.0200.0		47	05.544.3229.8	STECKERKONTAKT	740	05.594.6053.0	SCHNELLMONT.GRIFF	175
05.502.0000.0	HOCHPOL.	683	05.544.329.8	STECKERKONTAKT	740	05.595.5900.0	2A	128
05.502.0200.0	AUSDRUECKWERKZEUG	207	05.544.3429.8	STECKERKONTAKT	740	05.595.6000.0	4A	128
05.502.0410.0	MOD.20POL.	741	05.544.3529.8	STECKERKONTAKT	740	05.595.6100.0	6A	128
05.502.0500.0	KLINGE	207	05.544.3629.8	STECKERKONTAKT	740	05.595.6200.0	10A	128
05.502.0610.0	MOD.4POL.	741	05.544.3729.8	STECKERKONTAKT	740	05.595.6300.0	16A	128
05.502.0710.0	MOD.10POL.	741	05.544.3829.8	STECKERKONTAKT	740	05.595.6400.0	20A	128
05.502.0810.0	MOD.5POL.	741	05.544.3929.8	STECKERKONTAKT	740	05.595.6500.0	25A	128
05.502.0910.0	MOD.3POL.	741	05.544.4029.8	STECKERKONTAKT	740	05.595.6600.0	35A	128
05.502.1010.0	MODULLOESEWZ.	741	05.544.4129.8	STECKERKONTAKT	740	05.595.6700.0	50A	128
05.502.2000.0	CRIMPBACKEN A	741	05.544.4229.8	STECKERKONTAKT	740	05.595.9200.0	2A	128
05.502.2000.0	CRIMPBACKEN A	798	05.544.4329.8	STECKERKONTAKT	740	05.595.9300.0	4A	128
05.502.2100.0	CRIMPBACKEN B	631	05.544.4429.8	STECKERKONTAKT	740	05.595.9400.0	6A	128
05.502.2100.0	CRIMPBACKEN B	798	05.544.4529.8	STECKERKONTAKT	740	05.595.9500.0	10A	128
05.502.2200.0	CRIMPBACKEN C	741	05.544.4629.7	STECKERKONTAKT	740	05.596.6127.0	2,08 GELB	797
05.502.2200.0	CRIMPBACKEN C	798	05.544.4729.7	STECKERKONTAKT	740	05.599.2027.0	AEI 1,5Z-N	797
05.502.2300.0	CRIMPBACKEN D	739	05.544.5621.0	STECKERKONTAKT	761	05.599.2853.0	BEF.HALTER	331
05.502.2300.0	CRIMPBACKEN D	798	05.549.0500.0	HALTEFEDER	128	05.599.2953.0	BEF.HALTER	331
05.502.2400.0	CRIMPBACKEN E	683	05.549.1200.0	KONTAKTFEDER	177	05.599.8053.0	CODIERSTUECK-AST	205
05.502.2400.0	CRIMPBACKEN E	798	05.555.8521.0	FLACHSTECKER	584	05.599.8053.0	CODIERSTUECK-AST	321
05.502.2500.0		291	05.555.8621.0	FLACHSTECKER	584	06.065.0021.0	AM 5 X 12 D 9335ZMS	156
05.502.3100.0	KONT.AUFNAHME 1	739	05.555.8721.0	FLACHSTECKER	584	06.502.4000.0	DIN 5264 A 0,6 x 3,5	20
05.502.3100.0	KONT.AUFNAHME 1	798	05.555.8821.0	FLACHSTECKER	584	06.502.4000.0	DIN 5264 A 0,6 x 3,5	293
05.502.3200.0	KONT.AUFNAHME 2	683	05.555.8921.0	FLACHSTECKER	584	06.502.4000.0	DIN 5264 A 0,6 x 3,5	799
05.502.3200.0	KONT.AUFNAHME 2	798	05.555.9121.0	FLACHSTECKER	584	06.502.4100.0	DIN 5264 A 0,8 x 4,0	21
05.502.3300.0	KONT.AUFNAHME 3	631	05.561.0053.0	CODIERAST STIFTL.	36	06.502.4200.0	DIN 5264 A 1,0 x 5,5	21
05.502.3300.0	KONT.AUFNAHME 3	798	05.561.0053.0	CODIERAST STIFTL.	284	06.502.4300.0	DIN 5264 A 0,4 X 2,5	281
05.502.3500.0	F.400/690V-SER.	631	05.561.1389.0		412	06.502.5000.0	DIN 5264 B 0,6X3,5 M	30
05.507.4021.0	M 20 x 1,5	779	05.561.4125.0	VERB.-SCHIENE	134	06.600.2027.0	DIN 46228-E 0,5-8	796
05.507.4053.0	M 20 x 1,5	779	05.561.4125.0	VERB.-SCHIENE	310	06.600.2127.0	DIN 46228-E 0,75-8	796
05.507.4121.0	M 25 x 1,5	779	05.561.6553.0	LEL 2,5/1 WEISS	19	06.600.2227.0	DIN 46228-E 1 - 8	796
05.507.4153.0	M 25 x 1,5	779	05.561.6553.0	LEL 2,5/1 WEISS	308	06.600.2327.0	DIN 46228-E 1,5 - 8	796
05.507.4221.0	M 32 x 1,5	779	05.561.6653.0	LEL 2,5/2 GRAU	20	06.600.2427.0	DIN 46228-E 1,5-18	796
05.507.4253.0	M 32 x 1,5	779	05.561.6653.0	LEL 2,5/2 GRAU	308	06.600.2527.0	DIN 46228-E 2,5 - 8	796
05.507.4321.0	M 40 x 1,5	779	05.561.6753.0	LEL 2,5/3 SCHWARZ	19	06.600.2627.0	DIN 46228-E 2,5-18	796
05.507.4353.0	M 40 x 1,5	779	05.561.6753.0	LEL 2,5/3 SCHWARZ	308	06.600.2727.0	DIN 46228-E 4 - 10	796
05.507.7621.0	PG 13,5 - M 20 x 1,5	778	05.561.8553.0	LEL 4/1 WEISS	20	06.600.2827.0	DIN 46228-E 4 - 18	796
05.507.7721.0	PG 16 - M 20 x 1,5	778	05.561.8653.0	LEL 4/2 GRAU	20	06.600.2927.0	DIN 46228-E 6 - 12	796
05.507.7821.0	PG 21 - M 25 x 1,5	778	05.561.8753.0	LEL 4/3 SCHWARZ	20	06.600.3027.0	DIN 46228-E 6 - 18	796
05.507.8121.0	M 20 x 1,5 - PG 13,5	779	05.561.9153.0	CODIERAST BU.LST.	37	06.600.3127.0	DIN 46228-E10 - 12	796
05.507.8221.0	M 20 x 1,5 - PG 16	779	05.561.9153.0	CODIERAST BU.LST.	286	06.600.3227.0	DIN 46228-E10 - 18	796
05.507.8321.0	M 25 x 1,5 - PG 21	779	05.561.9453.0	CODIERSTIFT-AST	319	06.600.3327.0	DIN 46228-E16 - 12	796
05.507.8421.0	M 32 x 1,5 - PG 29	779	05.561.9453.0	CODIERSTIFT-AST	319	06.600.3427.0	DIN 46228-E16 - 18	796
05.507.8621.0	M 16 x 1,5 - M 20 x 1,5	778	05.561.9553.0	WIEBOX CN BL1	594	06.600.3527.0	DIN 46228-E25 - 18	796
05.507.8721.0	M 20 x 1,5 - M 25 x 1,5	778	05.561.9653.0	WIEBOX CN BL2	594	06.600.4027.0	DIN 46228-A 0,5 - 6	796
05.507.8821.0	M 25 x 1,5 - M 32 x 1,5	778	05.562.1389.0		410	06.600.4127.0	DIN 46228-A 0,75- 6	796
05.507.8921.0	M 32 x 1,5 - M 40 x 1,5	778	05.562.2453.0	LEL 1,5/1 WEISS	33	06.600.4227.0	DIN 46228-A 1 - 6	796
05.507.9021.0	M 20 x 1,5 - M 16 x 1,5	778	05.562.2453.0	LEL 1,5/1 WEISS	309	06.600.4327.0	DIN 46228-A 1,5 - 7	796
05.507.9121.0	M 25 x 1,5 - M 20 x 1,5	778	05.562.2553.0	LEL 1,5/2 GRAU	33	06.600.4427.0	DIN 46228-A 2,5 - 7	796
05.507.9221.0	M 32 x 1,5 - M 25 x 1,5	778	05.562.2553.0	LEL 1,5/2 GRAU	309	06.600.4527.0	DIN 46228-A 4 - 9	796
05.507.9321.0	M 40 x 1,5 - M 32 x 1,5	778	05.562.2653.0	LEL 1,5/3 SCHWARZ	33	06.600.4627.0	DIN 46228-A 6 - 10	796
05.508.3121.0	9011 A	191	05.562.2653.0	LEL 1,5/3 SCHWARZ	309	06.600.4727.0	DIN 46228-A10 - 12	796
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08.000.0106.5	X L= 3500 MIT SCHIRM	569	15.013.0253.0	8105 B / 2 C3 VL OB	383	15.316.0458.9	8105 F / 4 W C6 OB NT	383
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25.178.0253.0	8191 E / 2 / 4	366	25.181.5653.0	8291 D / 6 / 18 OB	370	25.193.6753.0	8292 / 7 ZW OB	339
25.178.0353.0	8191 E / 3 / 6	366	25.181.5753.0	8291 D / 7 / 21 OB	370	25.193.6853.0	8292 / 8 ZW OB	339
25.178.0453.0	8191 E / 4 / 8	366	25.181.5853.0	8291 D / 8 / 24 OB	370	25.193.6953.0	8292 / 9 ZW OB	339
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25.178.0653.0	8191 E / 6 / 12	366	25.181.6053.0	8291 D / 10 / 30 OB	370	25.193.7153.0	8292 / 11 ZW OB	339
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25.178.1053.0	8191 E / 10 / 20	366	25.181.9353.0	8291 D / 3 / 9 ZN OB	370	25.193.7553.0	8292 / 15 ZW OB	339
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25.178.1253.0	8191 E / 12 / 24	366	25.190.0353.0	8192 / 3	338	25.193.9253.0	8292 / 2 ZN OB	338
25.178.4253.0	8191 E / 2 / 4 ZN	366	25.190.0453.0	8192 / 4	338	25.193.9353.0	8292 / 3 ZN OB	338
25.178.4353.0	8191 E / 3 / 6 ZN	366	25.190.0553.0	8192 / 5	338	25.194.0253.0	8593 / 2	336
25.178.5253.0	8191 E / 2 / 4 OB	366	25.190.0653.0	8192 / 6	338	25.194.0353.0	8593 / 3	336
25.178.5353.0	8191 E / 3 / 6 OB	366	25.190.0753.0	8192 / 7	338	25.194.0453.0	8593 / 4	336
25.178.5453.0	8191 E / 4 / 8 OB	366	25.190.0853.0	8192 / 8	338	25.194.0553.0	8593 / 5	336
25.178.5553.0	8191 E / 5 / 10 OB	366	25.190.0953.0	8192 / 9	338	25.194.0653.0	8593 / 6	336
25.178.5653.0	8191 E / 6 / 12 OB	366	25.190.1053.0	8192 / 10	338	25.194.0753.0	8593 / 7	336
25.178.5753.0	8191 E / 7 / 14 OB	366	25.190.1153.0	8192 / 11	338	25.194.0853.0	8593 / 8	336
25.178.5853.0	8191 E / 8 / 16 OB	366	25.190.1253.0	8192 / 12	338	25.194.0953.0	8593 / 9	336
25.178.5953.0	8191 E / 9 / 18 OB	366	25.190.1353.0	8192 / 13	338	25.194.1053.0	8593 / 10	336
25.178.6053.0	8191 E / 10 / 20 OB	366	25.190.1453.0	8192 / 14	338	25.194.1153.0	8593 / 11	336
25.178.6153.0	8191 E / 11 / 22 OB	366	25.190.1553.0	8192 / 15	338	25.194.1253.0	8593 / 12	336
25.178.6253.0	8191 E / 12 / 24 OB	366	25.190.1653.0	8192 / 16	338	25.194.1353.0	8593 / 13	336
25.178.9253.0	8191 E / 2 / 4 ZN OB	366	25.190.9253.0	8192 / 2 ZN	338	25.194.1453.0	8593 / 14	336
25.178.9353.0	8191 E / 3 / 6 ZN OB	366	25.190.9353.0	8192 / 3 ZN	338	25.194.1553.0	8593 / 15	336
25.179.0253.0	8291 E / 2 / 4	366	25.191.0253.0	8192 / 2 OB	338	25.194.1653.0	8593 / 16	336
25.179.0353.0	8291 E / 3 / 6	366	25.191.0353.0	8192 / 3 OB	338	25.194.9253.0	8593 / 2 ZN	336
25.179.0453.0	8291 E / 4 / 8	366	25.191.0453.0	8192 / 4 OB	338	25.194.9353.0	8593 / 3 ZN	336
25.179.0553.0	8291 E / 5 / 10	366	25.191.0553.0	8192 / 5 OB	338	25.195.0253.0	8593 / 2 OB	336
25.179.0653.0	8291 E / 6 / 12	366	25.191.0653.0	8192 / 6 OB	338	25.195.0353.0	8593 / 3 OB	336
25.179.0753.0	8291 E / 7 / 12	366	25.191.0753.0	8192 / 7 OB	338	25.195.0453.0	8593 / 4 OB	336
25.179.0853.0	8291 E / 8 / 16	366	25.191.0853.0	8192 / 8 OB	338	25.195.0553.0	8593 / 5 OB	336
25.179.0953.0	8291 E / 9 / 18	366	25.191.0953.0	8192 / 9 OB	338	25.195.0653.0	8593 / 6 OB	336
25.179.1053.0	8291 E / 10 / 20	366	25.191.1053.0	8192 / 10 OB	338	25.195.0753.0	8593 / 7 OB	336
25.179.1153.0	8291 E / 11 / 22	366	25.191.1153.0	8192 / 11 OB	338	25.195.0853.0	8593 / 8 OB	336
25.179.1253.0	8291 E / 12 / 24	366	25.191.1253.0	8192 / 12 OB	338	25.195.0953.0	8593 / 9 OB	336
25.179.4253.0	8291 E / 2 / 4 ZN	366	25.191.1353.0	8192 / 13 OB	338	25.195.1053.0	8593 / 10 OB	336
25.179.4353.0	8291 E / 3 / 6 ZN	366	25.191.1453.0	8192 / 14 OB	338	25.195.1153.0	8593 / 11 OB	336
25.179.5253.0	8291 E / 2 / 4 OB	366	25.191.1553.0	8192 / 15 OB	338	25.195.1253.0	8593 / 12 OB	336
25.179.5353.0	8291 E / 3 / 6 OB	366	25.191.1653.0	8192 / 16 OB	338	25.195.1353.0	8593 / 13 OB	336
25.179.5453.0	8291 E / 4 / 8 OB	366	25.191.6253.0	8192 / 2 ZW OB	339	25.195.1453.0	8593 / 14 OB	336
25.179.5553.0	8291 E / 5 / 10 OB	366	25.191.6353.0	8192 / 3 ZW OB	339	25.195.1553.0	8593 / 15 OB	336
25.179.5653.0	8291 E / 6 / 12 OB	366	25.191.6453.0	8192 / 4 ZW OB	339	25.195.1653.0	8593 / 16 OB	336
25.179.5753.0	8291 E / 7 / 14 OB	366	25.191.6553.0	8192 / 5 ZW OB	339	25.195.9253.0	8593 / 2 ZN OB	336
25.179.5853.0	8291 E / 8 / 16 OB	366	25.191.6653.0	8192 / 6 ZW OB	339	25.195.9353.0	8593 / 3 ZN OB	336
25.179.5953.0	8291 E / 9 / 18 OB	366	25.191.6753.0	8192 / 7 ZW OB	339	25.196.0253.0	8893 / 2	336
25.179.6053.0	8291 E / 10 / 20 OB	366	25.191.6853.0	8192 / 8 ZW OB	339	25.196.0353.0	8893 / 3	336
25.179.6153.0	8291 E / 11 / 22 OB	366	25.191.6953.0	8192 / 9 ZW OB	339	25.196.0453.0	8893 / 4	336
25.179.6253.0	8291 E / 12 / 24 OB	366	25.191.7053.0	8192 / 10 ZW OB	339	25.196.0553.0	8893 / 5	336
25.179.9253.0	8291 E / 2 / 4 ZN OB	366	25.191.7153.0	8192 / 11 ZW OB	339	25.196.0653.0	8893 / 6	336
25.179.9353.0	8291 E / 3 / 6 ZN OB	366	25.191.7253.0	8192 / 12 ZW OB	339	25.196.0753.0	8893 / 7	336
25.180.0253.0	8191 D / 2 / 6	370	25.191.7353.0	8192 / 13 ZW OB	339	25.196.0853.0	8893 / 8	336
25.180.0353.0	8191 D / 3 / 9	370	25.191.7453.0	8192 / 14 ZW OB	339	25.196.0953.0	8893 / 9	336
25.180.0453.0	8191 D / 4 / 12	370	25.191.7553.0	8192 / 15 ZW OB	339	25.196.1053.0	8893 / 10	336
25.180.0553.0	8191 D / 5 / 15	370	25.191.7653.0	8192 / 16 ZW OB	339	25.196.1153.0	8893 / 11	336
25.180.0653.0	8191 D / 6 / 18	370	25.191.9253.0	8192 / 2 ZN OB	338	25.196.1253.0	8893 / 12	336
25.180.0753.0	8191 D / 7 / 21	370	25.191.9353.0	8192 / 3 ZN OB	338	25.196.1353.0	8893 / 13	336
25.180.0853.0	8191 D / 8 / 24	370	25.192.0253.0	8292 / 2	338	25.196.1453.0	8893 / 14	336
25.180.0953.0		370	25.192.0353.0	8292 / 3	338	25.196.1553.0	8893 / 15	336
25.180.1053.0	8191 D / 10 / 30	370	25.192.0453.0	8292 / 4	338	25.196.1653.0	8893 / 16	336
25.180.1153.0	8191 D / 11 / 33	370	25.192.0553.0	8292 / 5	338	25.196.9253.0	8893 / 2 ZN	336
25.180.1253.0	8191 D / 12 / 36	370	25.192.0653.0	8292 / 6	338	25.196.9353.0	8893 / 3 ZN	336
25.180.4253.0	8191 D / 2 / 6 ZN	370	25.192.0753.0	8292 / 7	338	25.197.0253.0	8893 / 2 OB	336
25.180.4353.0	8191 D / 3 / 9 ZN	370	25.192.0853.0	8292 / 8	338	25.197.0353.0	8893 / 3 OB	336
25.180.5253.0	8191 D / 2 / 6 OB	370	25.192.0953.0	8292 / 9	338	25.197.0453.0	8893 / 4 OB	336
25.180.5353.0	8191 D / 3 / 9 OB	370	25.192.1053.0	8292 / 10	338	25.197.0553.0	8893 / 5 OB	336
25.180.5453.0	8191 D / 4 / 12 OB	370	25.192.1153.0	8292 / 11	338	25.197.0653.0	8893 / 6 OB	336
25.180.5553.0	8191 D / 5 / 15 OB	370	25.192.1253.0	8292 / 12	338	25.197.0753.0	8893 / 7 OB	336
25.180.5653.0	8191 D / 6 / 18 OB	370	25.192.1353.0	8292 / 13	338	25.197.0853.0	8893 / 8 OB	336
25.180.5753.0	8191 D / 7 / 21 OB	370	25.192.1453.0	8292 / 14	338	25.197.0953.0	8893 / 9 OB	336
25.180.5853.0	8191 D / 8 / 24 OB	370	25.192.1553.0	8292 / 15	338	25.197.1053.0	8893 / 10 OB	336
25.180.5953.0	8191 D / 9 / 27 OB	370	25.192.1653.0	8292 / 16	338	25.197.1153.0	8893 / 11 OB	336
25.180.6053.0	8191 D / 10 / 30 OB	370	25.192.9253.0	8292 / 2 ZN	338	25.197.1253.0	8893 / 12 OB	336
25.180.6153.0	8191 D / 11 / 33 OB	370	25.192.9353.0	8292 / 3 ZN	338	25.197.1353.0	8893 / 13 OB	336
25.180.6253.0	8191 D / 12 / 36 OB	370	25.193.0253.0	8292 / 2 OB	338	25.197.1453.0	8893 / 14 OB	336
25.180.9253.0	8191 D / 2 / 6 ZN OB	370	25.193.0353.0	8292 / 3 OB	338	25.197.1553.0	8893 / 15 OB	336
25.180.9353.0	8191 D / 3 / 9 ZN OB	370	25.193.0453.0	8292 / 4 OB	338	25.197.1653.0	8893 / 16 OB	336
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25.181.0353.0	8291 D / 3 / 9	370	25.193.0653.0	8292 / 6 OB	338	25.197.9353.0	8893 / 3 ZN OB	336
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25.396.4053.0	8213 S / 10 S OB GR	302	25.471.3553.0		325	25.503.0453.0	8234 / 4 OB	360
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25.396.4253.0	8213 S / 12 S OB GR	302	25.471.3753.0	8520 BL / 7 W	325	25.503.0653.0	8234 / 6 OB	360
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25.397.3353.0	8213 S / 3 S1 OB GR	302	25.471.4353.0	8520 BL / 13 W	325	25.503.1253.0	8234 / 12 OB	360
25.397.3453.0	8213 S / 4 S1 OB GR	302	25.471.4453.0	8520 BL / 14 W	325	25.503.1353.0	8234 / 13 OB	360
25.397.3553.0	8213 S / 5 S1 OB GR	302	25.471.4553.0	8520 BL / 15 W	325	25.503.1453.0	8234 / 14 OB	360
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25.398.2753.0	8413 S / 7 WF OB	301	25.472.3253.0		325	25.520.1453.0	8135 / 14	362
25.398.2853.0	8413 S / 8 WF OB	301	25.472.3353.0		325	25.520.1553.0	8135 / 15	362
25.398.2953.0	8413 S / 9 WF OB	301	25.472.3453.0		325	25.520.1653.0	8135 / 16	362
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25.398.3153.0	8413 S / 11 WF OB	301	25.472.3653.0		325	25.520.6353.0	8135 / 3 ZN	362
25.398.3253.0	8413 S / 12 WF OB	301	25.472.3753.0	8520 BL / 7 G	325	25.521.0253.0	8135 / 2 OB	362
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25.398.6353.0	8413 S / 3 GF OB	300	25.472.3953.0		325	25.521.0453.0	8135 / 4 OB	362
25.398.6453.0	8413 S / 4 GF OB	300	25.472.4053.0		325	25.521.0553.0	8135 / 5 OB	362
25.398.6553.0	8413 S / 5 GF OB	300	25.472.4153.0	8520 BL / 11 G	325	25.521.0653.0	8135 / 6 OB	362
25.398.6653.0	8413 S / 6 GF OB	300	25.472.4253.0		325	25.521.0753.0	8135 / 7 OB	362
25.398.6753.0	8413 S / 7 GF OB	300	25.472.4353.0	8520 BL / 13 G	325	25.521.0853.0	8135 / 8 OB	362
25.398.6853.0	8413 S / 8 GF OB	300	25.472.4453.0	8520 BL / 14 G	325	25.521.0953.0	8135 / 9 OB	362
25.398.6953.0	8413 S / 9 GF OB	300	25.472.4553.0	8520 BL / 15 G	325	25.521.1053.0	8135 / 10 OB	362
25.398.7053.0	8413 S / 10 GF OB	300	25.472.4653.0	8520 BL / 16 G	325	25.521.1153.0	8135 / 11 OB	362
25.398.7153.0	8413 S / 11 GF OB	300	25.500.0253.0	8134 / 2	360	25.521.1253.0	8135 / 12 OB	362
25.398.7253.0	8413 S / 12 GF OB	300	25.500.0353.0	8134 / 3	360	25.521.1353.0	8135 / 13 OB	362
25.399.9853.0	8113 BSK / 2 0,75 OB	392	25.500.0453.0	8134 / 4	360	25.521.1453.0	8135 / 14 OB	362
25.399.9853.5	8113 B / 2 SKO.75 OB	392	25.500.0553.0	8134 / 5	360	25.521.1553.0	8135 / 15 OB	362
25.399.9853.8	8113 B / 2 SKO.75 OB	392	25.500.0653.0	8134 / 6	360	25.521.1653.0	8135 / 16 OB	362
25.470.0253.0	8520 B / 2 OB	324	25.500.0753.0	8134 / 7	360	25.521.6253.0	8135 / 2 ZN OB	362
25.470.0353.0	8520 B / 3 OB	324	25.500.0853.0	8134 / 8	360	25.521.6353.0	8135 / 3 ZN OB	362
25.470.0453.0	8520 B / 4 OB	324	25.500.0953.0	8134 / 9	360	25.522.0253.0	8235 / 2	362
25.470.0553.0	8520 B / 5 OB	324	25.500.1053.0	8134 / 10	360	25.522.0353.0	8235 / 3	362
25.470.0653.0	8520 B / 6 OB	324	25.500.1153.0	8134 / 11	360	25.522.0453.0	8235 / 4	362
25.470.0753.0	8520 B / 7 OB	324	25.500.1253.0	8134 / 12	360	25.522.0553.0	8235 / 5	362
25.470.0853.0	8520 B / 8 OB	324	25.500.1353.0	8134 / 13	360	25.522.0653.0	8235 / 6	362
25.470.0953.0	8520 B / 9 OB	324	25.500.1453.0	134 / 14	360	25.522.0753.0	8235 / 7	362
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25.630.1553.0	8513 BFK/15 TOP	281	25.642.3553.0	8513 SUFK / 5 OB	281	25.741.3553.0	8185/ 5 TOP H	350
25.630.1653.0	8513 BFK/16 TOP	281	25.642.3653.0	8513 SUFK / 6 OB	281	25.741.3653.0	8185/ 6 TOP H	350
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25.630.3653.0	8513 BFK/ 6 TOP OB	281	25.642.4153.0	8513 SUFK / 11 OB	281	25.741.4153.0	8185 TOP H	350
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25.780.0853.0	8158 / 8 TOP V OB	353	25.792.1353.0	8358 / 13 TOP H OB	354	25.821.3453.0		292
25.780.0953.0	8158 / 9 TOP V OB	353	25.792.1453.0	8358 / 14 TOP H OB	354	25.821.3553.0		292
25.780.1053.0	8158 / 10 TOP V OB	353	25.792.1553.0	8358 / 15 TOP H OB	354	25.821.3653.0		292
25.780.1153.0	8158 / 11 TOP V OB	353	25.792.1653.0	8358 / 16 TOP H OB	354	25.821.3753.0		292
25.780.1253.0	8158 / 12 TOP V OB	353	25.793.0253.0	8458 / 2 TOP H OB	354	25.821.3853.0		292
25.780.1353.0	8158 / 13 TOP V OB	353	25.793.0353.0	8458 / 3 TOP H OB	354	25.821.3953.0		292
25.780.1453.0	8158 / 14 TOP V OB	353	25.793.0453.0	8458 / 4 TOP H OB	354	25.821.4053.0		292
25.780.1553.0	8158 / 15 TOP V OB	353	25.793.0553.0	8458 / 5 TOP H OB	354	25.821.4153.0		292
25.780.1653.0	8158 / 16 TOP V OB	353	25.793.0653.0	8458 / 6 TOP H OB	354	25.821.4253.0		292
25.781.0253.0	8258 / 2 TOP V OB	353	25.793.0753.0	8458 / 7 TOP H OB	354	25.821.4353.0		292
25.781.0353.0	8258 / 3 TOP V OB	353	25.793.0853.0	8458 / 8 TOP H OB	354	25.821.4453.0		292
25.781.0453.0	8258 / 4 TOP V OB	353	25.793.0953.0	8458 / 9 TOP H OB	354	25.821.4553.0		292
25.781.0553.0	8258 / 5 TOP V OB	353	25.793.1053.0	8458 / 10 TOP H OB	354	25.821.4653.0		292
25.781.0653.0	8258 / 6 TOP V OB	353	25.793.1153.0	8458 / 11 TOP H OB	354	25.840.0253.0	8213 BFK / 2 TOP K	292
25.781.0753.0	8258 / 7 TOP V OB	353	25.793.1253.0	8458 / 12 TOP H OB	354	25.840.0353.0	8213 BFK / 3 TOP K	292
25.781.0853.0	8258 / 8 TOP V OB	353	25.793.1353.0	8458 / 13 TOP H OB	354	25.840.0453.0	8213 BFK / 4 TOP K	292
25.781.0953.0	8258 / 9 TOP V OB	353	25.793.1453.0	8458 / 14 TOP H OB	354	25.840.0553.0	8213 BFK / 5 TOP K	292
25.781.1053.0	8258 / 10 TOP V OB	353	25.793.1553.0	8458 / 15 TOP H OB	354	25.840.0653.0	8213 BFK / 6 TOP K	292
25.781.1153.0	8258 / 11 TOP V OB	353	25.793.1653.0	8458 / 16 TOP H OB	354	25.840.0753.0	8213 BFK / 7 TOP K	292
25.781.1253.0	8258 / 12 TOP V OB	353	25.820.0253.0	8113 BFK / 2 TOP K	37	25.840.0853.0	8213 BFK / 8 TOP K	292
25.781.1353.0	8258 / 13 TOP V OB	353	25.820.0253.0	8113 BFK / 2 TOP K	292	25.840.0953.0	8213 BFK / 9 TOP K	292
25.781.1453.0	8258 / 14 TOP V OB	353	25.820.0353.0	8113 BFK / 3 TOP K	292	25.840.1053.0	8213 BFK /10 TOP K	292
25.781.1553.0	8258 / 15 TOP V OB	353	25.820.0453.0	8113 BFK / 4 TOP K	37	25.840.1153.0	8213 BFK /11 TOP K	292
25.781.1653.0	8258 / 16 TOP V OB	353	25.820.0453.0	8113 BFK / 4 TOP K	292	25.840.1253.0	8213 BFK /12 TOP K	292
25.782.0253.0	8358 / 2 TOP V OB	354	25.820.0553.0	8113 BFK / 5 TOP K	37	25.840.1353.0	8213 BFK /13 TOP K	292
25.782.0353.0	8358 / 3 TOP V OB	354	25.820.0553.0	8113 BFK / 5 TOP K	292	25.840.1453.0	8213 BFK /14 TOP K	292
25.782.0453.0	8358 / 4 TOP V OB	354	25.820.0653.0	8113 BFK / 6 TOP K	37	25.840.1553.0	8213 BFK /15 TOP K	292
25.782.0553.0	8358 / 5 TOP V OB	354	25.820.0653.0	8113 BFK / 6 TOP K	292	25.840.1653.0	8213 BFK /16 TOP K	292
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25.782.0753.0	8358 / 7 TOP V OB	354	25.820.0753.0	8113 BFK / 7 TOP K	292	25.840.3353.0	8213 BFK / 3 TOP K OB	292
25.782.0853.0	8358 / 8 TOP V OB	354	25.820.0853.0	8113 BFK / 8 TOP K	37	25.840.3453.0	13 BFK / 4 TOP K OB	292
25.782.0953.0	8358 / 9 TOP V OB	354	25.820.0853.0	8113 BFK / 8 TOP K	292	25.840.3553.0	8213 BFK / 5 TOP K OB	292
25.782.1053.0	8358 / 10 TOP V OB	354	25.820.0953.0	8113 BFK / 9 TOP K	37	25.840.3653.0	8213 BFK / 6 TOP K OB	292
25.782.1153.0	8358 / 11 TOP V OB	354	25.820.0953.0	8113 BFK / 9 TOP K	292	25.840.3753.0	8213 BFK / 7 TOP K OB	292
25.782.1253.0	8358 / 12 TOP V OB	354	25.820.1053.0	8113 BFK /10 TOP K	37	25.840.3853.0	8213 BFK / 8 TOP K OB	292
25.782.1353.0	8358 / 13 TOP V OB	354	25.820.1053.0	8113 BFK /10 TOP K	292	25.840.3953.0	8213 BFK / 9 TOP K OB	292
25.782.1453.0	8358 / 14 TOP V OB	354	25.820.1153.0	8113 BFK /11 TOP K	37	25.840.4053.0	8213 BFK /10 TOP K OB	292
25.782.1553.0	8358 / 15 TOP V OB	354	25.820.1153.0	8113 BFK /11 TOP K	292	25.840.4153.0	8213 BFK /11 TOP K OB	292
25.782.1653.0	8358 / 16 TOP V OB	354	25.820.1253.0	8113 BFK /12 TOP K	37	25.840.4253.0	8213 BFK /12 TOP K OB	292
25.783.0253.0	8458 / 2 TOP V OB	354	25.820.1253.0	8113 BFK /12 TOP K	292	25.840.4353.0	8213 BFK /13 TOP K OB	292
25.783.0353.0	8458 / 3 TOP V OB	354	25.820.1353.0	8113 BFK /13 TOP K	37	25.840.4453.0	8213 BFK /14 TOP K OB	292
25.783.0453.0	8458 / 4 TOP V OB	354	25.820.1353.0	8113 BFK /13 TOP K	292	25.840.4553.0	8213 BFK /15 TOP K OB	292
25.783.0553.0	8458 / 5 TOP V OB	354	25.820.1453.0	8113 BFK /14 TOP K	37	25.840.4653.0	8213 BFK /16 TOP K OB	292
25.783.0653.0	8458 / 6 TOP V OB	354	25.820.1453.0	8113 BFK /14 TOP K	292	25.841.0253.0		292
25.783.0753.0	8458 / 7 TOP V OB	354	25.820.1553.0	8113 BFK /15 TOP K	37	25.841.0353.0		292
25.783.0853.0	8458 / 8 TOP V OB	354	25.820.1553.0	8113 BFK /15 TOP K	292	25.841.0453.0		292
25.783.0953.0	8458 / 9 TOP V OB	354	25.820.1653.0	8113 BFK /16 TOP K	37	25.841.0553.0		292
25.783.1053.0	8458 / 10 TOP V OB	354	25.820.1653.0	8113 BFK /16 TOP K	292	25.841.0653.0		292
25.783.1153.0	8458 / 11 TOP V OB	354	25.820.3253.0	8113 BFK / 2 TOP K OB	37	25.841.0753.0		292
25.783.1253.0	8458 / 12 TOP V OB	354	25.820.3253.0	8113 BFK / 2 TOP K OB	292	25.841.0853.0		292
25.783.1353.0	8458 / 13 TOP V OB	354	25.820.3353.0	8113 BFK / 3 TOP K OB	37	25.841.0953.0		292
25.783.1453.0	8458 / 14 TOP V OB	354	25.820.3353.0	8113 BFK / 3 TOP K OB	292	25.841.1053.0		292
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25.790.0653.0	8158 / 6 TOP H OB	353	25.820.3753.0	8113 BFK / 7 TOP K OB	37	25.841.3253.0		292
25.790.0753.0	8158 / 7 TOP H OB	353	25.820.3753.0	8113 BFK / 7 TOP K OB	292	25.841.3353.0		292
25.790.0853.0	8158 / 8 TOP H OB	353	25.820.3853.0	8113 BFK / 8 TOP K OB	37	25.841.3453.0		292
25.790.0953.0	8158 / 9 TOP H OB	353	25.820.3853.0	8113 BFK / 8 TOP K OB	292	25.841.3553.0		292
25.790.1053.0	8158 / 10 TOP H OB	353	25.820.3953.0	8113 BFK / 9 TOP K OB	37	25.841.3653.0		292
25.790.1153.0	8158 / 11 TOP H OB	353	25.820.3953.0	8113 BFK / 9 TOP K OB	292	25.841.3753.0		292
25.790.1253.0	8158 / 12 TOP H OB	353	25.820.4053.0	8113 BFK /10 TOP K OB	37	25.841.3853.0		292
25.790.1353.0	8158 / 13 TOP H OB	353	25.820.4053.0	8113 BFK /10 TOP K OB	292	25.841.3953.0		292
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25.881.4153.0	8413 BFK / 11 TOP K F OB	■ 294	27.356.0853.0		■ 304	29.608.0953.0	KL17 N/ 9 / S6,3	■ 267
25.881.4253.0	8413 BFK / 12 TOP K F OB	■ 294	27.356.0953.0		■ 304	29.608.1053.0	KL17 N/ 10 / S6,3	■ 267
26.500.2053.0	RV2 S/ 6	■ 206	27.356.1053.0	8213 SEG/ 10/20 W OB	■ 304	29.608.1153.0	KL17 N/ 11 / S6,3	■ 267
26.500.2153.0	RV2 S/ 3 L	■ 206	27.356.1153.0		■ 304	29.608.1253.0	KL17 N/ 12 / S6,3	■ 267
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26.500.2353.0	RV2 S/ 4 BLAU	■ 206	27.356.1353.0		■ 304	29.608.1453.0	KL17 N/ 14 / S6,3	■ 267
26.500.2453.0	RV2 S/ 2 L BLAU	■ 206	27.356.1453.0		■ 304	29.608.1553.0	KL17N/ 15 / S6,3	■ 267
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33.041.0653.0	KL 29 / 6 DS PA	214	56.395.1255.0	RFK 1 / 95 FMK S35/V0	156	56.904.4055.0	9700 B/30 SI E14/S35/V0	128
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54.004.7553.6	9700 A / 6 S35 BLAU	190	56.404.9155.0	WKI 4 NTN-D-SL /V0	74	57.404.7255.5	WK 4 EJU LD +P O 24/V0	115
54.004.7753.0	9700 A / 6 ETK S35	189	56.404.9255.0	WKI 4 NT -D-SL GL/V0	73	57.404.7455.9	WK 4 EJU LD -P O 24/V0	115
54.010.7553.0	9700 A / 8 S35	189	56.404.9455.0	WKI 4 N-D-SL /V0	69	57.404.7955.5	WK 4 E / U G2/V0	115
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54.010.7753.0	9700 A / 8 ETK S35	189	56.404.9655.0	WKI 4 DU /V0	72	57.404.8155.9	WK 4 E / U GU/V0	115
54.016.7553.0	9700 A / 10 S35	189	56.404.9755.0	WKI 4 D-D /V0	69	57.404.8255.5	WK 4 E / U GO/V0	115
54.016.7553.6	9700 A / 10 S35 BLAU	191	56.404.9855.0	WKI 4 D-D-SL /V0	69	57.404.8355.5	WK 4 E / U G-URL/V0	115
54.016.7753.0	9700 A / 10 ETK S35	189	56.503.7355.0	WK 2,5-4 KI SL /V0	119	57.404.8455.5	WK 4 E / U LD 42V/V0	115
54.025.7553.0	9700 A / 12 S35	191	56.503.7455.0	WK 2,5-4 KI SL-NGN /V0	119	57.404.8755.5	WK 4 EJU LDG +P O 24/V0	115
54.025.7553.6	9700 A / 12 S35 BLAU	191	56.503.7555.0	WK 2,5-4 KI SL-PGN /V0	119	57.404.8855.9	WK 4 E / U G2/1/V0	115
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54.925.4055.0	9700 B/30 SI E18/S32/V0	129	56.503.8555.0	WK 2,5-3 D SL-PGN /V0	119	57.503.0055.6	WK 2,5 / U BL / V0	102
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57.503.3055.6	WK2.5U/8113S/V/VK/V0	137	57.806.0753.0	AKT 20MA / 10 V	505	70.010.0653.0	KLADA. ST. 6VL	689
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57.503.7855.0	WK 2,5-4 KI / U / V0	118	57.806.1253.0	AKT 20MA / 4-20MA	505	70.100.1053.3	KLADA. BU.10WL	631
57.503.7955.0	WK 2,5-4 KI / U-NGN / V0	118	57.806.1353.0	AKT 4-20MA / 20MA	505	70.100.1053.4	KLADA. BU.10WL	631
57.503.8055.0	WK2.5-4 KI / U-PGN / V0	118	57.806.1553.0	AKB 10 V / 4-20MA	504	70.100.1653.3	KLADA. BU.16WL	631
57.503.8855.0	WK 2,5-3 D / U / V0	118	57.806.2153.0	AKT + 10 V / 4-20MA	505	70.100.1653.4	KLADA. BU.16WL	631
57.503.8955.0	WK 2,5-3 D / U-NGN / V0	118	57.806.2253.0	AKT + 10 V / 0-10 V	505	70.100.2453.3	KLADA. BU.24WL	631
57.503.9055.0	WK 2,5-3 D / U-PGN / V0	118	57.806.2653.0	AKT 0-10 V / +10 V	505	70.100.2453.4	KLADA. BU.24WL	631
57.504.0055.0	WK 4 / U / V0	69	57.806.2753.0	AKT 0-20MA / +10 V	505	70.101.0653.0	KLADA. BUF 6WL	631
57.504.0055.6	WK 4 / U BL / V0	69	57.806.5553.0	AKT 4-20MA / +10 V	505	70.101.1053.0	KLADA. BUF10WL	631
57.504.1055.0	WK 4 / U F1 / V0	142	57.806.5653.0		505	70.101.1653.0	KLADA. BUF16WL	631
57.504.1155.0	WK 4 / U F2 / V0	142	57.904.0055.0	9785U/10 OHM/V0	130	70.101.2453.0	KLADA. BUF24WL	631
57.504.1655.0	WK 4 SI-D / U 5 X25/V0	126	57.904.0155.0	9785U/20 OHM/V0	130	70.105.0653.3	KLADA. BU. 6WR	631
57.504.1755.0	WK 4 SI-D / U 5 X20/V0	126	57.904.0255.0	9785U/50 OHM/V0	130	70.105.0653.4	KLADA. BU. 6WR	631
57.504.2055.0	WK 4 TKM / U / V0	101	57.904.0355.0	9785U/100 OHM/V0	130	70.105.1053.3	KLADA. BU.10WR	631
57.504.2055.6	WK 4 TKM / U BL / V0	123	57.904.0455.0	9785U/200 OHM/V0	130	70.105.1053.4	KLADA. BU.10WR	631
57.504.2355.0	WK 4 TKM P3 / U / V0	123	57.904.0555.0	9785U/500 OHM/V0	130	70.105.1653.3	KLADA. BU.16WR	631
57.504.2755.0	WK 4 3-6 S 1K / W / U / V0	139	57.904.0655.0	9785U/1 KOHM/V0	130	70.105.1653.4	KLADA. BU.16WR	631
57.504.2855.0	WK 4 5S2.8 1K / W / U / V0	139	57.904.0755.0	9785U/2 KOHM/V0	130	70.105.2453.3	KLADA. BU.24WR	631
57.504.3655.0	WK / 5-10S / U / V0	139	57.904.0855.0	9785U/5 KOHM/V0	130	70.105.2453.4	KLADA. BU.24WR	631
57.504.3755.0	WK 4 3-6 S 1K / U / V0	138	57.904.0955.0	9785U/10 KOHM/V0	130	70.106.0653.0	KLADA. BUF 6WR	631
57.504.3855.0	WK 4 5S2.8 1K / U / V0	138	57.904.1055.0	9785U/20 KOHM/V0	130	70.106.1053.0	KLADA. BUF10WR	631
57.504.4055.0	WK 4 TKG / U / V0	101	57.904.1155.0	9785U/50 KOHM/V0	130	70.106.1653.0	KLADA. BUF16WR	631
57.504.4455.0	WK 4 TK5 D / U / V0	123	57.904.2055.0	9786U/12/V0	131	70.106.2453.0	KLADA. BUF24WR	631
57.504.4555.0	WK 4 TKG-TRST / U / V0	123	57.904.3955.0	9785U/10 OHM-SPT/V0	130	70.110.0653.3	KLADA. ST. 6WL	631
57.504.4855.0	WK 4 TKG-TRST P3 / U / V0	123	57.904.4155.0	9785U/20 OHM-SPT/V0	130	70.110.0653.4	KLADA. ST. 6WL	631
57.504.5055.0	WK 4 D / 1 / 2 U / V0 BLAU	112	57.904.4255.0	9785U/50 OHM-SPT/V0	130	70.110.1053.3	KLADA. ST.10WL	631
57.504.5055.6	WK 4 / D 1/2 U / V0 BLAU	112	57.904.4355.0	9785U/100 OHM-SPT/V0	130	70.110.1053.4	KLADA. ST.10WL	631
57.504.5155.0	WK 4 D / 2 U / V0	112	57.904.4455.0	9785U/200 OHM-SPT/V0	130	70.110.1653.3	KLADA. ST.16WL	631
57.504.5155.6	WK 4 D / 2 U BL V0	112	57.904.4555.0	9785U/500 OHM-SPT/V0	130	70.110.1653.4	KLADA. ST.16WL	631
57.504.5255.0	WK 4 D E U / V0	113	57.904.4655.0	9785U/1 KOHM-SPT/V0	130	70.110.2453.3	KLADA. ST.24WL	631
57.504.6255.0	WK / 4-8S / U / V0	141	57.904.4755.0	9785U/2 KOHM-SPT/V0	130	70.110.2453.4	KLADA. ST.24WL	631
57.504.6355.0	WK / 4-8S / W / U / V0	141	57.904.4855.0	9785U/5 KOHM-SPT/V0	130	70.111.0653.0	KLADA. STF 6WL	631
57.504.6655.0	WK / 3-6S / U / V0	140	57.904.4955.0	9785U/10 KOHM-SPT/V0	130	70.111.1053.0	KLADA. STF10WL	631
57.504.6755.0	WK / 3-6S / W / U / V0	140	57.904.5055.0	9785U/20 KOHM-SPT/V0	130	70.111.1653.0	KLADA. STF10WL	631
57.504.7355.0	WK 4 / 3-6S KO / U / V0	141	57.904.5155.0	9785U/50 KOHM-SPT/V0	130	70.111.2453.0	KLADA. STF24WL	631
57.504.8155.0	WKN 4ETK / U / V0	69	57.904.5355.0	WK 4 / THS1S U / V0	124	70.115.0653.3	KLADA. ST. 6WR	631
57.504.9055.0	WK 4 SL / U / V0	69	57.904.5455.0	WK 4 / THS1S 5 LED 12U / V0	124	70.115.0653.4	KLADA. ST. 6WR	631
57.504.9155.0	WK 4 D / 2 / 2SLU / V0	113	57.904.5555.0	WK 4 / THS1S 5 LED 24U / V0	124	70.115.1053.3	KLADA. ST.10WR	631
57.504.9255.0	WK 4E SLU / V0	115	57.904.5655.0	WK 4 / THS1S 5 LED 60U / V0	124	70.115.1053.4	KLADA. ST.10WR	631
57.506.0055.0	WK 6 / U / V0	101	57.904.5755.0	WK 4 / THS1S 5 GL 250U / V0	124	70.115.1653.3	KLADA. ST.16WR	631
57.506.0055.6	WK 6 / U BL / V0	101	57.904.5855.0	WK 4 / THS1S 5 GL 500U / V0	124	70.115.1653.4	KLADA. ST.16WR	631
57.506.9055.0	WK 6 SL / U / V0	101	57.904.6355.0	WK 4 / THS1S 3 U / V0	124	70.115.2453.3	KLADA. ST.24WR	631
57.510.0155.0	WKN 10 / U / V0	101	57.904.6455.0	WK 4 / THS1S 3 LED 12U / V0	124	70.115.2453.4	KLADA. ST.24WR	631
57.510.0155.6	WKN10 / U BL / V0	101	57.904.6555.0	WK 4 / THS1S 3 LED 24U / V0	124	70.116.0653.0	KLADA. STF 6WR	631
57.510.1155.0	WKI 10 / U / V0	78	57.904.6655.0	WK 4 / THS1S 3 LED 60U / V0	124	70.116.1053.0	KLADA. STF10WR	631
57.510.1155.6	WKI 10 / U BLAU / V0	78	57.904.6755.0	WK 4 / THS1S 3 GL 250U / V0	124	70.116.1653.0	KLADA. STF16WR	631
57.510.8155.0	WKN 10ETK / U / V0	106	57.904.6855.0	WK 4 / THS1S 3 GL 500U / V0	124	70.116.2453.0	KLADA. STF24WR	631
57.510.8255.0	WKI 10 ETK / U / V0	80	57.904.7055.0	9786U / TSK NICR-CUNI/V0	132	70.120.0353.3	KLADA. BU. 3WL	643
57.510.9055.0	WKN10 SL / U / V0	101	57.904.7155.0	9786U / TSK FE-CUNI/V0	132	70.120.0353.4	KLADA. BU. 3WL	643
57.516.0155.0	WKN16 / U / V0	104	57.904.7255.0	9786U / TSK NICR-NI/V0	132	70.120.0653.3	KLADA. BU. 6WL	643
57.516.0155.6	WKN16 / U BL / V0	104	57.904.7355.0	9786U / TSK CU-CUNI/V0	132	70.120.0653.4	KLADA. BU. 6WL	643
57.516.1155.0	WKI 16 / U / V0	69	57.904.7455.0	9786U / TSK E-CU-A-CU/V0	132	70.120.1053.3	KLADA. BU.10WL	643
57.516.1155.6	WKI 16 / U BLAU / V0	69	57.910.4955.0	WK 10 / SI / U D / V0	125	70.120.1053.4	KLADA. BU.10WL	643
57.516.8155.0	WKN 16ETK / U / V0	107	57.910.5055.0	WK 10 / SI / U 5 X 20 / V0	101	70.121.0353.0	KLADAP.BUF 3P WL	643
57.516.8255.0	WKI 16 ETK / U / V0	69	57.910.5155.0	WK 10 / SI / U 5 X 25 / V0	125	70.121.0653.0	KLADAP.BUF 6P WL	643
57.516.9055.0	WKN16 SL / U / V0	109	57.910.5255.0	WK 10 / SI / U 5 X 30 / V0	125	70.121.1053.0	KLADAP.BUF10P WL	643
57.535.0155.0	WKN35 / U / V0	101	57.910.5355.0	WK 10 / SI / U 6,3 X 32 / V0	125	70.125.0353.3	KLADA. BU. 3WR	643
57.535.0155.6	WKN35 / U BL / V0	101	57.910.5455.0	WK 10 / SI / U 5X20M.NGL/V0	125	70.125.0353.4	KLADA. BU. 3WR	643
57.535.1155.0	WKI 35 / U / V0	79	57.910.5755.0	WK 10 / SIU6.3X32M.NGL/V0	125	70.125.0653.3	KLADA. BU. 6WR	643
57.535.1155.6	WKI 35 / U BLAU / V0	79	57.910.5855.0	WK 10 / SI / U 5X20M.GLB/V0	125	70.125.0653.4	KLADA. BU. 6WR	643
57.535.9055.0	WKN35 SL / U / V0	101	57.910.6155.0	WK 10 / SIU6.3X32M.GLB/V0	125	70.125.1053.3	KLADA. BU.10WR	643
57.570.0155.0	WKN70 / U / V0	105	59.195.0055.0	RFK 1 / 95 F PA/V0	156	70.125.1053.4	KLADA. BU.10WR	643
57.570.0155.6	WKN70 / U BL / V0	105	59.195.0155.0	RFK 1 / 95 K PA/V0	156	70.126.0353.0	KLADAP.BUF 3P WR	643
57.570.9055.0	WKN 70 SL / U	110	59.195.0255.0	RFK 1 / 95 FK PA/V0	156	70.126.0653.0	KLADAP.BUF 6P WR	643
57.597.0155.0	WKN150 / U / V0	105	59.195.1055.0	RFK 1 / 95 FM PA/V0	156	70.126.1053.0	KLADAP.BUF10P WR	643
57.597.0155.6	WKN150 / U BL / V0	105	59.195.1255.0	RFK 1 / 95 FKM PA/V0	156	70.130.0353.3	KLADA. ST. 3WL	643
57.603.0055.0	WKB 2.5 / U / V0	204	59.197.0155.0	RFK 1 / 150 K PA/V0	157	70.130.0353.4	KLADA. ST. 3WL	643
57.603.3555.0	WKB 2.5 / B / U / V0	205	59.197.0255.0	RFK 1 / 150 FK PA/V0	157	70.130.0653.3	KLADA. ST. 6WL	643
57.800.0053.0	24 V 1 SCHLISSER	448	59.197.1255.0	RFK 1 / 150 FMK PA/V0	157	70.130.0653.4	KLADA. ST. 6VL	643
57.800.0353.0	220 V AC 1 SCHLISSER	450	59.198.0055.0	RFK 1 / 185 F PA/V0	158	70.130.1053.3	KLADA. ST.10WL	643
57.800.5053.0	24/48V 1 UMSCHALTER	448	59.198.1055.0	RFK 1 / 185 FM PA/V0	158	70.130.1053.4	KLADA. ST.10WL	643
57.800.5153.0	110/220V 1 UMSCHALTER	450	59.199.0055.0	RFK 1 / 240 F PA/V0	159	70.131.0353.0	KLADAP.STF 3P WL	643
57.800.7053.0	24 V 2 UMSCHALTER	449	59.199.0155.0	RFK 1 / 240 F PA/V0	159	70.131.0653.0	KLADAP.STF 6P WL	643
57.801.0053.0	WEG LEERG. F. 4A	592	59.199.0255.0	RFK 1 / 240 FK PA/V0	159	70.131.1053.0	KLADAP.STF10P WL	643
57.801.5053.0	WEG LEERG. F. 4A	592	59.199.1055.0	RFK 1 / 240 FM PA/V0	159	70.135.0353.3	KLADA. ST. 3WR	643
57.801.5153.0	WEG LEERG. F. 6A	593	59.199.1255.0	RFK 1 / 240 FMK PA/V0	159	70.135.0353.4	KLADA. ST. 3WR	643
57.801.5253.0	WEG LEERG. F. 8A	593	59.900.2052.0	9290 L	220	70.135.0653.3	KLADA. ST. 6WR	643
57.802.1053.0	UET + 10 V	506	59.900.2053.6	9290 L BLAU	220	70.135.0653.4	KLADA. ST. 6WR	643
57.802.1153.0	UET-P + 10 V	507	59.900.2552.0	9290 S	220	70.135.1053.3	KLADA. ST.10WR	643
57.802.1353.0	UET-P + 20 MA	507	69.332.0000.0	TS M4 / M6-32	219	70.135.1053.4	KLADA. ST.10WR	643
57.802.1453.0	UET-P + 199MV	507	69.335.0253.0	TS M3 S35	219	70.136.0353.0	KLADAP.STF 3P WR	643
57.802.2053.0	UET/LCD + 10 V	506	69.335.0453.0	TS M4 S35	219	70.136.0653.0	KLADAP.BUF 3P WR	643
57.802.2153.0	UET-P/LCD + 10 V	507	69.335.0553.0	TS M5 S35	219	70.136.1053.0	KLADAP.BUF 6P WR	643
57.802.2253.0	UET/LCD + 20 MA	506	69.335.0653.0	TS M6 S35	219	70.200.0653.0	BUCHSEINENSATZ	689
57.802.2353.0	UET-P/LCD + 20MA	507	69.700.0953.0	VM WKF K0. 9	45	70.210.0653.0	STECKERENSATZ	689
57.802.3053.0	SR 4-20 MA/UE 9,5-40VDC	452	69.700.1853.0	VM WKF K0. 18	45	70.300.0640.0	BUCHSEINENSATZ	631
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70.357.2435.3	GEHAEUSEOBerteil	637	70.510.0653.0	STECKEREINSATZ	631	71.333.1635.1	GEHAEUSEUNTERTEIL	635
70.358.1035.0	GEHAEUSEOBerteil	637	70.510.1053.0	STECKEREINSATZ	631	71.333.2435.0	GEHAEUSEUNTERTEIL	635
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70.358.1035.2	GEHAEUSEOBerteil	637	70.510.2453.0	STECKEREINSATZ	631	71.340.1035.0	GEHAEUSEUNTERTEIL	635
70.358.1035.3	GEHAEUSEOBerteil	637	70.510.3253.0	STECKEREINSATZ	631	71.340.1035.1	GEHAEUSEUNTERTEIL	635
70.358.1635.0	GEHAEUSEOBerteil	637	70.510.4853.0	STECKEREINSATZ	631	71.340.1635.0	GEHAEUSEUNTERTEIL	635
70.358.1635.1	GEHAEUSEOBerteil	637	70.700.0658.0	BUCHSENEINSATZ	631	71.340.1635.1	GEHAEUSEUNTERTEIL	635
70.358.1635.2	GEHAEUSEOBerteil	637	70.700.1058.0	BUCHSENEINSATZ	631	71.340.2435.0	GEHAEUSEUNTERTEIL	635
70.358.1635.3	GEHAEUSEOBerteil	637	70.700.1658.0	BUCHSENEINSATZ	631	71.340.2435.1	GEHAEUSEUNTERTEIL	635
70.358.2428.7	GEHAEUSEOBerteil	769	70.700.2458.0	BUCHSENEINSATZ	631	71.341.1035.0	GEHAEUSEUNTERTEIL	635
70.358.2435.0	GEHAEUSEOBerteil	637	70.700.3253.0	BUCHSENEINSATZ	631	71.341.1035.1	GEHAEUSEUNTERTEIL	635
70.358.2435.1	GEHAEUSEOBerteil	637	70.700.4858.0	BUCHSENEINSATZ	631	71.341.1635.0	GEHAEUSEUNTERTEIL	635
70.358.2435.2	GEHAEUSEOBerteil	637	70.710.0658.0	STECKEREINSATZ	631	71.341.1635.1	GEHAEUSEUNTERTEIL	635
70.358.2435.3	GEHAEUSEOBerteil	637	70.710.1058.0	STECKEREINSATZ	631	71.341.2435.0	GEHAEUSEUNTERTEIL	635
70.359.1035.0	GEHAEUSEOBerteil	637	70.710.1658.0	STECKEREINSATZ	631	71.341.2435.1	GEHAEUSEUNTERTEIL	635
70.359.1035.1	GEHAEUSEOBerteil	637	70.710.2458.0	STECKEREINSATZ	631	71.342.1035.0	GEHAEUSEUNTERTEIL	635
70.359.1035.2	GEHAEUSEOBerteil	637	70.710.3253.0	STECKEREINSATZ	631	71.342.1035.1	GEHAEUSEUNTERTEIL	635
70.359.1035.3	GEHAEUSEOBerteil	637	70.710.4858.0	STECKEREINSATZ	631	71.342.1635.0	GEHAEUSEUNTERTEIL	635
70.359.1628.7	GEHAEUSEOBerteil	769	70.940.0653.3	ADA.I.GEH.BU.6VWL	667	71.342.1635.1	GEHAEUSEUNTERTEIL	635
70.359.1635.0	GEHAEUSEOBerteil	637	70.940.0653.4	ADA.I.GEH.BU.06VWL	667	71.342.2435.0	GEHAEUSEUNTERTEIL	635
70.359.1635.1	GEHAEUSEOBerteil	637	70.940.1053.3	ADA.I.GEH.BU.10VWL	667	71.342.2435.1	GEHAEUSEUNTERTEIL	635
70.359.1635.2	GEHAEUSEOBerteil	637	70.940.1053.4	ADA.I.GEH.BU.10VWL	667	71.343.1035.0	GEHAEUSEUNTERTEIL	635
70.359.1635.3	GEHAEUSEOBerteil	637	70.940.1653.3	ADA.I.GEH.BU.16VWL	667	71.343.1035.1	GEHAEUSEUNTERTEIL	635
70.359.2435.0	GEHAEUSEOBerteil	637	70.940.1653.4	ADA.I.GEH.BU.16VWL	667	71.343.1635.0	GEHAEUSEUNTERTEIL	635
70.359.2435.1	GEHAEUSEOBerteil	637	70.940.2453.3	ADA.I.GEH.BU.24VWL	667	71.343.1635.1	GEHAEUSEUNTERTEIL	635
70.359.2435.2	GEHAEUSEOBerteil	637	70.940.2453.4	ADA.I.GEH.BU.24VWL	667	71.343.2435.0	GEHAEUSEUNTERTEIL	635
70.359.2435.3	GEHAEUSEOBerteil	637	70.945.0653.3	ADA.I.GEH.BU.6VWR	667	71.343.2435.1	GEHAEUSEUNTERTEIL	635
70.360.0628.9	GEHAEUSEOBerteil	769	70.945.0653.4	ADA.I.GEH.BU.6VWR	667	71.350.1035.0	GEHAEUSEOBerteil	633
70.360.1028.9	GEHAEUSEOBerteil	769	70.945.1053.3	ADA.I.GEH.BU.10VWR	667	71.350.1035.1	GEHAEUSEOBerteil	633
70.360.1628.9	GEHAEUSEOBerteil	769	70.945.1053.4	ADA.I.GEH.BU.10VWR	667	71.350.1035.2	GEHAEUSEOBerteil	633
70.360.2428.9	GEHAEUSEOBerteil	769	70.945.1653.3	ADA.I.GEH.BU.16VWR	667	71.350.1035.3	GEHAEUSEOBerteil	633
70.360.4828.9	GEHAEUSEOBerteil	769	70.945.1653.4	ADA.I.GEH.BU.16VWR	667	71.350.1635.0	GEHAEUSEOBerteil	633
70.362.0628.9	GEHAEUSEOBerteil	769	70.945.2453.3	ADA.I.GEH.BU.24VWR	667	71.350.1635.1	GEHAEUSEOBerteil	633
70.362.1028.9	GEHAEUSEOBerteil	769	70.945.2453.4	ADA.I.GEH.BU.24VWR	667	71.350.1635.2	GEHAEUSEOBerteil	633
70.362.1628.9	GEHAEUSEOBerteil	769	70.950.0653.3	ADA.I.GEH.ST.6VWL	667	71.350.1635.3	GEHAEUSEOBerteil	633
70.362.2428.9	GEHAEUSEOBerteil	772	70.950.0653.4	ADA.I.GEH.ST.06VWL	667	71.350.2435.0	GEHAEUSEOBerteil	633
70.362.4828.9	GEHAEUSEOBerteil	769	70.950.1053.3	ADA.I.GEH.ST.10VWL	667	71.350.2435.1	GEHAEUSEOBerteil	633
70.363.0628.9	GEHAEUSEOBerteil	769	70.950.1053.4	ADA.I.GEH.ST.10VWL	667	71.350.2435.2	GEHAEUSEOBerteil	633
70.363.1028.9	GEHAEUSEOBerteil	769	70.950.1653.3	ADA.I.GEH.ST.16VWL	667	71.350.2435.3	GEHAEUSEOBerteil	633
70.363.1628.9	GEHAEUSEOBerteil	769	70.950.1653.4	ADA.I.GEH.ST.16VWL	667	71.351.1035.0	GEHAEUSEOBerteil	633
70.363.2428.9	GEHAEUSEOBerteil	769	70.950.2453.3	ADA.I.GEH.ST.24VWL	667	71.351.1035.1	GEHAEUSEOBerteil	633
70.364.0628.9	GEHAEUSEOBerteil	769	70.950.2453.4	ADA.I.GEH.ST.24VWL	667	71.351.1035.2	GEHAEUSEOBerteil	633
70.364.1028.9	GEHAEUSEOBerteil	769	70.955.0653.3	ADA.I.GEH.ST.6VWR	667	71.351.1035.3	GEHAEUSEOBerteil	633
70.364.1628.9	GEHAEUSEOBerteil	769	70.955.0653.4	ADA.I.GEH.ST.6VWR	667	71.351.1635.0	GEHAEUSEOBerteil	633
70.364.4828.9	GEHAEUSEOBerteil	769	70.955.1053.3	ADA.I.GEH.ST.10VWR	667	71.351.1635.1	GEHAEUSEOBerteil	633
70.365.1028.9	GEHAEUSEOBerteil	769	70.955.1053.4	ADA.I.GEH.ST.10VWR	667	71.351.1635.2	GEHAEUSEOBerteil	633
70.365.1628.9	GEHAEUSEOBerteil	769	70.955.1653.3	ADA.I.GEH.ST.16VWR	667	71.351.1635.3	GEHAEUSEOBerteil	633
70.365.2428.9	GEHAEUSEOBerteil	769	70.955.1653.4	ADA.I.GEH.ST.16VWR	667	71.351.2435.0	GEHAEUSEOBerteil	633
70.367.1028.9	GEHAEUSEOBerteil	769	70.955.2453.3	ADA.I.GEH.ST.24VWR	667	71.351.2435.1	GEHAEUSEOBerteil	633
70.367.1628.9	GEHAEUSEOBerteil	769	70.955.2453.4	ADA.I.GEH.ST.24VWR	667	71.351.2435.2	GEHAEUSEOBerteil	633
70.367.2428.9	GEHAEUSEOBerteil	769	70.960.0353.3	ADA.I.GEH.BU.3VWL	671	71.351.2435.3	GEHAEUSEOBerteil	633
70.368.1028.9	GEHAEUSEOBerteil	769	70.960.0353.4	ADA.I.GEH.BU.3VWL	671	71.352.1035.0	GEHAEUSEOBerteil	633
70.368.1628.9	GEHAEUSEOBerteil	769	70.960.0653.3	ADA.I.GEH.BU.6VWL	671	71.352.1035.1	GEHAEUSEOBerteil	633
70.368.2428.9	GEHAEUSEOBerteil	769	70.960.0653.4	ADA.I.GEH.BU.6VWL	671	71.352.1035.2	GEHAEUSEOBerteil	633
70.369.1028.9	GEHAEUSEOBerteil	769	70.960.1053.3	ADA.I.GEH.BU.10VWL	671	71.352.1035.3	GEHAEUSEOBerteil	633
70.369.1628.9	GEHAEUSEOBerteil	769	70.960.1053.4	ADA.I.GEH.BU.10VWL	671	71.352.1635.0	GEHAEUSEOBerteil	633
70.372.0628.7	GEHAEUSEOBerteil	773	70.965.0353.3	ADA.I.GEH.BU.3VWR	671	71.352.1635.1	GEHAEUSEOBerteil	633
70.372.0635.0	GEHAEUSEOBerteil	733	70.965.0353.4	ADA.I.GEH.3VWR	671	71.352.1635.2	GEHAEUSEOBerteil	633
70.372.0635.3	GEHAEUSEOBerteil	733	70.965.0653.3	ADA.I.GEH.BU.6VWR	671	71.352.1635.3	GEHAEUSEOBerteil	633
70.372.1028.7	GEHAEUSEOBerteil	773	70.965.0653.4	ADA.I.GEH.BU.6VWR	671	71.352.2435.0	GEHAEUSEOBerteil	633
70.372.1035.0	GEHAEUSEOBerteil	733	70.965.1053.3	ADA.I.GEH.BU.10VWR	671	71.352.2435.1	GEHAEUSEOBerteil	633
70.372.1035.3	GEHAEUSEOBerteil	733	70.965.1053.4	ADA.I.GEH.BU.10VWL	671	71.352.2435.2	GEHAEUSEOBerteil	633
70.372.1628.7	GEHAEUSEOBerteil	773	70.970.0353.3	ADA.I.GEH.ST.3VWL	671	71.352.2435.3	GEHAEUSEOBerteil	633
70.372.1635.0	GEHAEUSEOBerteil	733	70.970.0353.4	ADA.I.GEH.ST.3VWL	671	71.353.1035.0	GEHAEUSEOBerteil	633
70.372.1635.3	GEHAEUSEOBerteil	733	70.970.0653.3	ADA.I.GEH.ST.6VWL	671	71.353.1035.1	GEHAEUSEOBerteil	633
70.372.2428.7	GEHAEUSEOBerteil	773	70.970.0653.4	ADA.I.GEH.ST.6VWL	671	71.353.1035.2	GEHAEUSEOBerteil	633
70.372.4828.7	GEHAEUSEOBerteil	773	70.970.1053.3	ADA.I.GEH.ST.10VWL	671	71.353.1035.3	GEHAEUSEOBerteil	633
70.372.4835.3	GEHAEUSEOBerteil	733	70.970.1053.4	ADA.I.GEH.ST.10VWL	671	71.353.1635.0	GEHAEUSEOBerteil	633
70.374.1635.0	GEHAEUSEOBerteil	733	70.975.0353.3	ADA.I.GEH.ST.3VWR	671	71.353.1635.1	GEHAEUSEOBerteil	633
70.374.1635.3	GEHAEUSEOBerteil	733	70.975.0353.4	ADA.I.GEH.ST.3VWR	671	71.353.1635.2	GEHAEUSEOBerteil	633
70.374.2435.0	GEHAEUSEOBerteil	733	70.975.0653.3	ADA.I.GEH.ST.6VWR	671	71.353.1635.3	GEHAEUSEOBerteil	633
70.374.2435.3	GEHAEUSEOBerteil	733	70.975.0653.4	ADA.I.GEH.ST.6VWR	671	71.353.2435.0	GEHAEUSEOBerteil	633
70.375.4828.9	GEHAEUSEOBerteil	772	70.975.1053.3	ADA.I.GEH.ST.10VWR	671	71.353.2435.1	GEHAEUSEOBerteil	633
70.375.4835.3	GEHAEUSEOBerteil	733	70.975.1053.4	ADA.I.GEH.ST.10VWR	671	71.353.2435.2	GEHAEUSEOBerteil	633
70.377.4828.9	GEHAEUSEOBerteil	772	71.320.1028.0	GEHAEUSEUNTERTEIL	634	71.353.2435.3	GEHAEUSEOBerteil	633
70.400.0340.0	BU.EINSATZ 660V	643	71.320.1628.0	GEHAEUSEUNTERTEIL	634	71.354.1035.0	GEHAEUSEOBerteil	633
70.400.0640.0	BU.EINSATZ 660V	643	71.320.2428.0	GEHAEUSEUNTERTEIL	634	71.354.1035.1	GEHAEUSEOBerteil	633
70.400.1040.0	BU.EINSATZ 660V	643	71.325.1028.0	GEHAEUSEUNTERTEIL	635	71.354.1035.2	GEHAEUSEOBerteil	633
70.400.1640.0	BU.EINSATZ 660V	643	71.325.1628.0	GEHAEUSEUNTERTEIL	635	71.354.1035.3	GEHAEUSEOBerteil	633
70.400.2040.0	BU.EINSATZ 660V	643	71.325.2428.0	GEHAEUSEUNTERTEIL	635	71.354.1635.0	GEHAEUSEOBerteil	633
70.400.2640.0	BU.EINSATZ 660V	643	71.330.1035.0	GEHAEUSEUNTERTEIL	634	71.354.1635.1	GEHAEUSEOBerteil	633
70.400.3240.0	BU.EINSATZ 660V	643	71.330.1035.1	GEHAEUSEUNTERTEIL	634	71.354.1635.2	GEHAEUSEOBerteil	633
70.410.0340.0	ST.EINSATZ 660V	643	71.330.1635.0	GEHAEUSEUNTERTEIL	634	71.354.1635.3	GEHAEUSEOBerteil	633
70.410.0640.0	ST.EINSATZ 660V	643	71.330.1635.1	GEHAEUSEUNTERTEIL	634	71.354.2435.0	GEHAEUSEOBerteil	633
70.410.1040.0	ST.EINSATZ 660V	643	71.330.2435.0	GEHAEUSEUNTERTEIL	634	71.354.2435.1	GEHAEUSEOBerteil	633
70.410.1640.0	ST.EINSATZ 660V	643	71.330.2435.1	GEHAEUSEUNTERTEIL	634	71.354.2435.2	GEHAEUSEOBerteil	633
70.410.2040.0	ST.EINSATZ 660V	643	71.331.1035.0	GEHAEUSEUNTERTEIL	634	71.354.2435.3	GEHAEUSEOBerteil	633
70.410.2640.0	ST.EINSATZ 660V	643	71.331.1035.1	GEHAEUSEUNTERTEIL	634	71.372.1035.0	GEHAEUSEOBerteil	735
70.410.3240.0	ST.EINSATZ 660V	643	71.331.1635.0	GEHAEUSEUNTERTEIL	634	71.372.1035.3	GEHAEUSEOBerteil	735
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71.940.1053.4	ADA.I.GEH.BU.10WL	667	72.115.2453.4	KL.ADA. ST.24WR	655	72.342.2435.1	GEHAUSEUNTERTEIL	651
71.940.1653.3	ADA.I.GEH.BU.16WL	667	72.116.0653.0	KL.ADAP.STF 6P WR	655	72.343.0635.0	GEHAUSEUNTERTEIL	659
71.940.1653.4	ADA.I.GEH.BU.16WL	667	72.116.1053.0	KL.ADAP.STF10P WR	655	72.343.0635.1	GEHAUSEUNTERTEIL	659
71.940.2453.3	ADA.I.GEH.BU.24WL	667	72.116.1653.0	KL.ADAP.STF16P WR	655	72.343.1035.0	GEHAUSEUNTERTEIL	651
71.940.2453.4	ADA.I.GEH.BU.24WL	667	72.116.2453.0	KL.ADAP.STF24P WR	655	72.343.1035.1	GEHAUSEUNTERTEIL	651
71.945.1053.3	ADA.I.GEH.BU.10WR	667	72.117.1053.0	KL.ADA. ST.4/6WR	699	72.343.1635.0	GEHAUSEUNTERTEIL	651
71.945.1053.4	ADA.I.GEH.BU.10WR	667	72.200.0653.0	BUCHSENEINSATZ	693	72.343.1635.1	GEHAUSEUNTERTEIL	651
71.945.1653.3	ADA.I.GEH.BU.16WR	667	72.203.1253.0	BU.EINSATZ 3/3/6	705	72.343.2435.0	GEHAUSEUNTERTEIL	651
71.945.1653.4	ADA.I.GEH.BU.16WR	667	72.205.0653.0	BUCHSENEINSATZ	707	72.343.2435.1	GEHAUSEUNTERTEIL	651
71.945.2453.3	ADA.I.GEH.BU.24WR	667	72.205.1053.0	BU.EINSATZ 4/6	699	72.350.0635.0	GEHAUSEOBERTEIL	657
71.945.2453.4	ADA.I.GEH.BU.24WR	667	72.205.1253.0	BU.EINSATZ 6/6	703	72.350.0635.1	GEHAUSEOBERTEIL	657
71.950.1053.3	ADA.I.GEH.ST.10WL	667	72.210.0653.0	STECKEREINSATZ	693	72.350.0635.2	GEHAUSEOBERTEIL	657
71.950.1053.4	ADA.I.GEH.ST.10WL	667	72.213.1253.0	ST.EINSATZ 3/3/6	705	72.350.0635.3	GEHAUSEOBERTEIL	657
71.950.1653.3	ADA.I.GEH.ST.16WL	667	72.215.0653.0	STECKEREINSATZ	707	72.350.1035.0	GEHAUSEOBERTEIL	649
71.950.1653.4	ADA.I.GEH.ST.16WL	667	72.215.1053.0	ST.EINSATZ 4/6	699	72.350.1035.1	GEHAUSEOBERTEIL	649
71.950.2453.3	ADA.I.GEH.ST.24WL	667	72.215.1253.0	ST.EINSATZ 6/6	703	72.350.1035.2	GEHAUSEOBERTEIL	649
71.950.2453.4	ADA.I.GEH.ST.24WL	667	72.250.1635.2	GEHAUSEOBERTEIL	703	72.350.1035.3	GEHAUSEOBERTEIL	649
71.955.1053.3	ADA.I.GEH.ST.10WR	667	72.250.2435.2	GEHAUSEOBERTEIL	705	72.350.1635.0	GEHAUSEOBERTEIL	649
71.955.1053.4	ADA.I.GEH.ST.10WR	667	72.300.0653.0	BUCHSENEINSATZ	655	72.350.1635.1	GEHAUSEOBERTEIL	649
71.955.1653.3	ADA.I.GEH.BU.16WR	667	72.300.0653.9	BU.EIG.AN.L.	767	72.350.1635.2	GEHAUSEOBERTEIL	649
71.955.1653.4	ADA.I.GEH.ST.16WR	667	72.300.1053.0	BUCHSENEINSATZ	655	72.350.1635.3	GEHAUSEOBERTEIL	649
71.955.2453.3	ADA.I.GEH.ST.24WR	667	72.300.1053.9	BU.EIG.AN.L.	767	72.350.2435.0	GEHAUSEOBERTEIL	649
71.955.2453.4	ADA.I.GEH.ST.24WR	667	72.300.1653.0	BUCHSENEINSATZ	655	72.350.2435.1	GEHAUSEOBERTEIL	649
71.960.0353.3	ADA.I.GEH.BU. 3WL	671	72.300.1653.9	BU.EIG.AN.L.	767	72.350.2435.2	GEHAUSEOBERTEIL	649
71.960.0353.4	ADA.I.GEH.BU. 3WL	671	72.300.2453.0	BUCHSENEINSATZ	655	72.350.2435.3	GEHAUSEOBERTEIL	649
71.960.0653.3	ADA.I.GEH.BU. 6WL	671	72.300.2453.9	BU.EIG.AN.L.	767	72.351.0635.0	GEHAUSEOBERTEIL	657
71.960.0653.4	ADA.I.GEH.BU. 6WL	671	72.300.3253.0	BUCHSENEINSATZ	655	72.351.0635.1	GEHAUSEOBERTEIL	657
71.960.1053.3	ADA.I.GEH.BU.10WL	671	72.300.4853.0	BUCHSENEINSATZ	655	72.351.0635.2	GEHAUSEOBERTEIL	657
71.960.1053.4	ADA.I.GEH.BU.10WL	671	72.300.4853.9	BU.EIG.AN.L.	767	72.351.0635.3	GEHAUSEOBERTEIL	657
71.965.0353.3	ADA.I.GEH.BU. 3WR	671	72.310.0653.0	STECKEREINSATZ	655	72.351.1035.0	GEHAUSEOBERTEIL	649
71.965.0353.4	ADA.I.GEH.BU. 3WR	671	72.310.0653.9	ST.EIG.AN.L.	767	72.351.1035.1	GEHAUSEOBERTEIL	649
71.965.0653.3	ADA.I.GEH.BU. 3WR	671	72.310.1053.0	STECKEREINSATZ	655	72.351.1035.2	GEHAUSEOBERTEIL	649
71.965.0653.4	ADA.I.GEH.BU. 3WR	671	72.310.1053.9	ST.EIG.AN.L.	767	72.351.1035.3	GEHAUSEOBERTEIL	649
71.965.1053.3	ADA.I.GEH.BU. 6WR	671	72.310.1653.0	STECKEREINSATZ	655	72.351.1635.0	GEHAUSEOBERTEIL	649
71.965.1053.4	ADA.I.GEH.BU.10WR	671	72.310.1653.9	ST.EIG.AN.L.	767	72.351.1635.1	GEHAUSEOBERTEIL	649
71.970.0353.3	ADA.I.GEH.ST. 3WL	671	72.310.2453.0	STECKEREINSATZ	655	72.351.1635.2	GEHAUSEOBERTEIL	649
71.970.0353.4	ADA.I.GEH.ST. 3WL	671	72.310.2453.9	ST.EIG.AN.L.	767	72.351.1635.3	GEHAUSEOBERTEIL	649
71.970.0653.3	ADA.I.GEH.ST. 6WL	671	72.310.3253.0	STECKEREINSATZ	655	72.351.2435.0	GEHAUSEOBERTEIL	649
71.970.0653.4	ADA.I.GEH.ST. 6WL	671	72.310.4853.0	STECKEREINSATZ	655	72.351.2435.1	GEHAUSEOBERTEIL	649
71.970.1053.3	ADA.I.GEH.ST.10WL	671	72.310.4853.9	ST.EIG.AN.L.	767	72.351.2435.2	GEHAUSEOBERTEIL	649
71.970.1053.4	ADA.I.GEH.ST.10WL	671	72.320.0628.0	GEHAUSEUNTERTEIL	658	72.351.2435.3	GEHAUSEOBERTEIL	649
71.975.0353.3	ADA.I.GEH.ST. 3WR	671	72.320.1028.0	GEHAUSEUNTERTEIL	650	72.351.2435.0	GEHAUSEOBERTEIL	657
71.975.0353.4	ADA.I.GEH.ST. 3WR	671	72.320.1628.0	GEHAUSEUNTERTEIL	650	72.352.0635.1	GEHAUSEOBERTEIL	657
71.975.0653.3	ADA.I.GEH.ST. 6WR	671	72.320.2428.0	GEHAUSEUNTERTEIL	650	72.352.0635.2	GEHAUSEOBERTEIL	657
71.975.0653.4	ADA.I.GEH.ST. 6WR	671	72.325.0628.0	GEHAUSEUNTERTEIL	659	72.352.0635.3	GEHAUSEOBERTEIL	657
71.975.1053.3	ADA.I.GEH.ST.10WR	671	72.325.1028.0	GEHAUSEUNTERTEIL	651	72.352.1035.0	GEHAUSEOBERTEIL	649
71.975.1053.4	ADA.I.GEH.ST.10WR	671	72.325.1628.0	GEHAUSEUNTERTEIL	651	72.352.1035.1	GEHAUSEOBERTEIL	649
72.000.0653.0	KL.ADA. BU. 6WL	693	72.325.2428.0	GEHAUSEUNTERTEIL	651	72.352.1035.2	GEHAUSEOBERTEIL	649
72.005.0653.0	KL.ADA. BU. 6WR	693	72.330.0635.0	GEHAUSEUNTERTEIL	658	72.352.1035.3	GEHAUSEOBERTEIL	649
72.010.0653.0	KL.ADA. ST. 6WL	693	72.330.0635.1	GEHAUSEUNTERTEIL	658	72.352.1635.0	GEHAUSEOBERTEIL	649
72.015.0653.0	KL.ADA. ST. 6WR	693	72.330.1035.0	GEHAUSEUNTERTEIL	650	72.352.1635.1	GEHAUSEOBERTEIL	649
72.100.0653.0	KL.ADA. BU. 6WL	655	72.330.1035.1	GEHAUSEUNTERTEIL	650	72.352.1635.2	GEHAUSEOBERTEIL	649
72.100.0653.4	KL.ADA. BU. 6WL	655	72.330.1635.0	GEHAUSEUNTERTEIL	650	72.352.1635.3	GEHAUSEOBERTEIL	649
72.100.1053.0	KL.ADA. BU.10WL	655	72.330.1635.1	GEHAUSEUNTERTEIL	650	72.352.2435.0	GEHAUSEOBERTEIL	649
72.100.1053.4	KL.ADA. BU.10WL	655	72.330.2435.0	GEHAUSEUNTERTEIL	650	72.352.2435.1	GEHAUSEOBERTEIL	649
72.100.1653.0	KL.ADA. BU.16WL	655	72.330.2435.1	GEHAUSEUNTERTEIL	650	72.352.2435.2	GEHAUSEOBERTEIL	649
72.100.1653.4	KL.ADA. BU.16WL	655	72.331.0635.0	GEHAUSEUNTERTEIL	658	72.352.2435.3	GEHAUSEOBERTEIL	649
72.100.2453.0	KL.ADA. BU.24WL	655	72.331.0635.1	GEHAUSEUNTERTEIL	658	72.353.0635.0	GEHAUSEOBERTEIL	657
72.100.2453.4	KL.ADA. BU.24WL	655	72.331.1035.0	GEHAUSEUNTERTEIL	650	72.353.0635.1	GEHAUSEOBERTEIL	657
72.101.0653.0	KL.ADAP.BUF 6P WL	655	72.331.1035.1	GEHAUSEUNTERTEIL	650	72.353.0635.2	GEHAUSEOBERTEIL	657
72.101.1053.0	KL.ADAP.BUF10P WR	655	72.331.1635.0	GEHAUSEUNTERTEIL	650	72.353.0635.3	GEHAUSEOBERTEIL	657
72.101.1653.0	KL.ADAP.BUF16P WL	655	72.331.1635.1	GEHAUSEUNTERTEIL	650	72.353.1035.0	GEHAUSEOBERTEIL	649
72.101.2453.0	KL.ADAP.BUF24P WL	655	72.331.2435.0	GEHAUSEUNTERTEIL	650	72.353.1035.1	GEHAUSEOBERTEIL	649
72.105.0653.0	KL.ADA. BU. 6WR	655	72.331.2435.1	GEHAUSEUNTERTEIL	650	72.353.1035.2	GEHAUSEOBERTEIL	649
72.105.0653.4	KL.ADA. BU. 6WR	655	72.333.0635.0	GEHAUSEUNTERTEIL	659	72.353.1035.3	GEHAUSEOBERTEIL	649
72.105.1053.0	KL.ADA. BU.10WR	655	72.333.0635.1	GEHAUSEUNTERTEIL	659	72.353.1635.0	GEHAUSEOBERTEIL	649
72.105.1053.4	KL.ADA. BU.10WR	655	72.333.1035.0	GEHAUSEUNTERTEIL	651	72.353.1635.1	GEHAUSEOBERTEIL	649
72.105.1653.0	KL.ADA. BU.16WR	655	72.333.1035.1	GEHAUSEUNTERTEIL	651	72.353.1635.2	GEHAUSEOBERTEIL	649
72.105.1653.4	KL.ADA. BU.16WR	655	72.333.1635.0	GEHAUSEUNTERTEIL	651	72.353.1635.3	GEHAUSEOBERTEIL	649
72.105.2453.0	KL.ADA. BU.24WR	655	72.333.1635.1	GEHAUSEUNTERTEIL	651	72.353.2435.0	GEHAUSEOBERTEIL	649
72.105.2453.4	KL.ADA. BU.24WR	655	72.333.2435.0	GEHAUSEUNTERTEIL	651	72.353.2435.1	GEHAUSEOBERTEIL	649
72.106.0653.0	KL.ADAP.BUF 6P WR	655	72.333.2435.1	GEHAUSEUNTERTEIL	651	72.353.2435.2	GEHAUSEOBERTEIL	649
72.106.1053.0	KL.ADAP.BUF10P WR	655	72.340.0635.0	GEHAUSEUNTERTEIL	659	72.353.2435.3	GEHAUSEOBERTEIL	649
72.106.1653.0	KL.ADAP.BUF16P WR	655	72.340.0635.1	GEHAUSEUNTERTEIL	659	72.354.0635.0	GEHAUSEOBERTEIL	657
72.106.2453.0	KL.ADAP.BUF24P WR	655	72.340.1035.0	GEHAUSEUNTERTEIL	651	72.354.0635.1	GEHAUSEOBERTEIL	657
72.107.1053.0	KL.ADA. BU.4/6WR	699	72.340.1035.1	GEHAUSEUNTERTEIL	651	72.354.0635.2	GEHAUSEOBERTEIL	657
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72.110.0653.4	KL.ADA. ST. 6WL	655	72.340.1635.1	GEHAUSEUNTERTEIL	651	72.354.1035.0	GEHAUSEOBERTEIL	649
72.110.1053.0	KL.ADA. ST.10WL	655	72.340.2435.0	GEHAUSEUNTERTEIL	651	72.354.1035.1	GEHAUSEOBERTEIL	649
72.110.1053.4	KL.ADA. ST.10WL	655	72.340.2435.1	GEHAUSEUNTERTEIL	651	72.354.1035.2	GEHAUSEOBERTEIL	649
72.110.1653.0	KL.ADA. ST.16WL	655	72.341.0635.0	GEHAUSEUNTERTEIL	659	72.354.1035.3	GEHAUSEOBERTEIL	649
72.110.1653.4	KL.ADA. ST.16WL	655	72.341.0635.1	GEHAUSEUNTERTEIL	659	72.354.1635.0	GEHAUSEOBERTEIL	649
72.110.2453.0	KL.ADA. ST.24WL	655	72.341.1035.0	GEHAUSEUNTERTEIL	651	72.354.1635.1	GEHAUSEOBERTEIL	649
72.110.2453.4	KL.ADA. ST.24WL	655	72.341.1035.1	GEHAUSEUNTERTEIL	651	72.354.1635.2	GEHAUSEOBERTEIL	649
72.111.0653.0	KL.ADAP.STF 6P WL	655	72.341.1635.0	GEHAUSEUNTERTEIL	651	72.354.1635.3	GEHAUSEOBERTEIL	649
72.111.1053.0	KL.ADAP.STF10P WL	655	72.341.1635.1	GEHAUSEUNTERTEIL	651	72.354.2435.0	GEHAUSEOBERTEIL	649
72.111.1653.0	KL.ADAP.STF16P WL	655	72.341.2435.0	GEHAUSEUNTERTEIL	651	72.354.2435.1	GEHAUSEOBERTEIL	649
72.111.2453.0	KL.ADAP.STF24P WL	655	72.341.2435.1	GEHAUSEUNTERTEIL	651	72.354.2435.2	GEHAUSEOBERTEIL	649
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72.357.2435.3	GEHAEUSEOBERTEIL	649	73.330.6435.0	GEHAEUSEUNTERTEIL	729	73.354.6435.1		727
72.358.1035.0	GEHAEUSEOBERTEIL	649	73.330.6435.1	GEHAEUSEUNTERTEIL	729	73.354.6435.2		727
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72.358.2435.0	GEHAEUSEOBERTEIL	649	73.333.6435.1	GEHAEUSEUNTERTEIL	729	73.355.6435.2	GEHAEUSEOBERTEIL	727
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72.359.1035.0	GEHAEUSEOBERTEIL	649	73.334.6435.1	GEHAEUSEUNTERTEIL	638	73.357.4035.2	GEHAEUSEOBERTEIL	709
72.359.1035.1	GEHAEUSEOBERTEIL	649	73.334.6435.2	GEHAEUSEUNTERTEIL	638	73.357.4035.3	GEHAEUSEOBERTEIL	709
72.359.1035.2	GEHAEUSEOBERTEIL	649	73.334.6435.3	GEHAEUSEUNTERTEIL	638	73.357.6435.0	GEHAEUSEOBERTEIL	727
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72.359.1635.0	GEHAEUSEOBERTEIL	649	73.335.4035.0	GEHAEUSEUNTERTEIL	638	73.357.6435.2	GEHAEUSEOBERTEIL	727
72.359.1635.1	GEHAEUSEOBERTEIL	649	73.335.4035.1	GEHAEUSEUNTERTEIL	638	73.357.6435.3	GEHAEUSEOBERTEIL	727
72.359.1635.2	GEHAEUSEOBERTEIL	649	73.335.6435.0	GEHAEUSEUNTERTEIL	638	73.357.6435.4	GEHAEUSEOBERTEIL	727
72.359.1635.3	GEHAEUSEOBERTEIL	649	73.335.6435.1	GEHAEUSEUNTERTEIL	638	73.357.6435.5	GEHAEUSEOBERTEIL	727
72.359.2435.0	GEHAEUSEOBERTEIL	649	73.337.4035.0	GEHAEUSEUNTERTEIL	639	73.358.4035.0	GEHAEUSEOBERTEIL	709
72.359.2435.1	GEHAEUSEOBERTEIL	649	73.337.4035.1	GEHAEUSEUNTERTEIL	639	73.358.4035.1	GEHAEUSEOBERTEIL	709
72.359.2435.2	GEHAEUSEOBERTEIL	649	73.337.6435.0	GEHAEUSEUNTERTEIL	639	73.358.4035.2	GEHAEUSEOBERTEIL	709
72.359.2435.3	GEHAEUSEOBERTEIL	649	73.337.6435.1	GEHAEUSEUNTERTEIL	639	73.358.4035.3	GEHAEUSEOBERTEIL	709
72.372.1035.0	GEHAEUSEOBERTEIL	733	73.337.6435.2	GEHAEUSEUNTERTEIL	639	73.358.4035.4	GEHAEUSEOBERTEIL	727
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72.372.1635.0	GEHAEUSEOBERTEIL	733	73.340.4035.1	GEHAEUSEUNTERTEIL	731	73.358.6435.0	GEHAEUSEOBERTEIL	727
72.372.1635.1	GEHAEUSEOBERTEIL	733	73.340.4035.2	GEHAEUSEUNTERTEIL	731	73.358.6435.1	GEHAEUSEOBERTEIL	727
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72.374.2435.1	GEHAEUSEOBERTEIL	733	73.342.4035.1	GEHAEUSEUNTERTEIL	731	73.359.6435.0	GEHAEUSEOBERTEIL	727
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72.710.1058.0	STECKEREINSATZ	655	73.344.4035.1	GEHAEUSEUNTERTEIL	639	73.700.4058.0	BUCHSENEINSATZ	719
72.710.1658.0	STECKEREINSATZ	655	73.344.4035.2	GEHAEUSEUNTERTEIL	639	73.700.6458.0	BUCHSENEINSATZ	719
72.710.2458.0	STECKEREINSATZ	655	73.344.4035.3	GEHAEUSEUNTERTEIL	639	73.710.0753.0	STECKEREINSATZ	713
72.710.3258.0	STECKEREINSATZ	655	73.345.4035.0	GEHAEUSEUNTERTEIL	639	73.710.0853.0	STECKEREINSATZ	713
72.710.4858.0	STECKEREINSATZ	655	73.345.4035.1	GEHAEUSEUNTERTEIL	639	73.710.1553.0	STECKEREINSATZ	719
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72.945.1053.4		669	73.350.4035.1	GEHAEUSEOBERTEIL	727	75.931.2435.0	GEH.UT. TEIL F	664
72.945.1653.0	ADA.I.GEH.BU.16WR	669	73.350.4035.2	GEHAEUSEOBERTEIL	727	75.933.1635.0	GEH.UT. TEIL F	664
72.945.1653.4		669	73.350.4035.3	GEHAEUSEOBERTEIL	727	75.933.2435.0	GEH.UT. TEIL F	664
72.945.2453.0	ADA.I.GEH.BU.24WR	669	73.350.6435.0	GEHAEUSEOBERTEIL	727	75.934.2435.0	GEH.UT. TEIL F	664
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80.063.4021.1		444	86.030.0053.0	WEB1001 LEERG.B3	585	95.000.0008.0		801
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98.380.0000.0	35X24X15 EN60715 CU	47	99.706.0000.6	STVB. KOMPLETT	672	Z5.507.1353.0	M 20 x 1,5 IP68	776
98.380.0000.0	35X24X15 EN60715 CU	803	99.706.3329.7	GEHAEUSEUNTERTHEIL	773	Z5.507.1453.1		758
98.400.0000.0	ANKERSCHIENE 2M	210	99.707.0000.6	STVB. KOMPLETT	672	Z5.507.1521.0	KABELVERSCHRB.	776
99.000.0920.8	9705A/6,7/ 12 B 1- 9	790	99.707.3329.7	GEHAEUSEOBERTEIL	772	Z5.507.1553.0	M 25x1,5 IP68	776
99.002.0920.8	9705A/6,7/2X 6 B 1- 6	790	99.708.0000.6	STVB. KOMPLETT	672	Z5.507.1553.1		758
99.003.0920.8	9705A/6,7/ 12 B 1-10	790	99.709.0000.6	STVB. KOMPLETT	672	Z5.507.1721.0	KABELVERSCHRB.	776
99.004.0920.8	9705A/6,7/2X12 B 1-16	790	99.710.3329.7	GEHAEUSEOBERTEIL	773	Z5.507.1753.0	M 32 x 1,5 IP68	776
99.005.0920.8	9705A/6,7/2X12 B 1-24	790	99.711.3329.7	GEHAEUSEOBERTEIL	773	Z5.507.1921.0	M 40 x 1,5 IP68	776
99.202.9996.0	8113 S / 2 G OB GR OF	297	99.713.3329.7	GEHAEUSEOBERTEIL	773	Z5.507.1953.0	M 40x1,5 IP68	776
99.202.9996.2	8213 S / 2 W OB GR OF	299	99.716.3329.7	GEHAEUSEOBERTEIL	773	Z5.507.2121.0	M 16 x 1,5	776
99.203.9996.0	8113 S / 3 G OB GR OF	297	99.718.0000.6	STVB. KOMPLETT	672	Z5.507.2221.0	M 20 x 1,5	776
99.203.9996.2	8213 S / 3 W OB GR OF	299	99.719.0000.6	STVB. KOMPLETT	672	Z5.507.2321.0	M 25 x 1,5	776
99.204.9996.0	8113 S / 4 G OB GR OF	297	99.720.0000.6	STVB. KOMPLETT	672	Z5.507.2421.0	M 32 x 1,5	776
99.204.9996.2	8213 S / 4 W OB GR OF	299	99.721.0000.6	STVB. KOMPLETT	672	Z5.507.4821.0	M 20 x 1,5	777
99.205.9996.0	8113 S / 5 G OB GR OF	297	99.721.3329.7	F.EIGSICH.ANLE.ZINKDRCKG	772	Z5.507.5021.0	M25 x 1,5	777
99.205.9996.2	8213 S / 5 W OB GR OF	299	99.723.3329.7	F.EIGSICH.ANLE.ZINKDRCKG	772	Z5.507.5221.0	M 32 x 1,5	777
99.206.9996.0	8113 S / 6 G OB GR OF	297	99.724.0000.6		672	Z5.507.5821.0	M 20 x 1,5	777
99.206.9996.2	8213 S / 6 W OB GR OF	299	99.725.0000.6	STVB. KOMPLETT	672	Z5.507.6021.0	M 25 x 1,5	777
99.207.9996.0	8113 S / 7 G OB GR OF	297	99.726.0000.6	STVB. KOMPLETT	672	Z5.507.6221.0	M 32 x 1,5	777
99.207.9996.2	8213 S / 7 W OB GR OF	299	99.727.0000.6	STVB. KOMPLETT	672	Z5.507.6421.0	M 40 x 1,5	777
99.208.9996.0	8113 S / 8 G OB GR OF	297	99.727.3329.7	F.EIGSICH.ANLE.ZINKDRCKG	772	Z5.507.9521.0	M 16 x 1,5	777
99.208.9996.2	8213 S / 8 W OB GR OF	299	99.801.3900.9	4Q DC24V 2A	538	Z5.507.9621.0	M 20 x 1,5	777
99.209.9996.0	8113 S / 9 G OB GR OF	297	Z1.000.4753.0	SR - I 5	485	Z5.507.9721.0	M 25 x 1,5	777
99.209.9996.2	8213 S / 9 W OB GR OF	299	Z1.000.9153.0	SR - A 4	485	Z5.507.9821.0	M 32 x 1,5	777
99.210.9996.0	8113 S / 10 G OB GR OF	297	Z1.108.8453.0		24	Z5.515.3310.0	WE SH 1/35	212
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99.211.9996.0	8113 S / 11 G OB GR OF	297	Z1.296.3553.0	WIEBOX CN 19 GK	594	Z5.516.2511.0	9018 D	169
99.211.9996.2	8213 S / 11 W OB GR OF	299	Z1.296.3853.0	WIEBOX CN 22 GKL	594	Z5.516.2711.0	9018 H	169
99.212.9996.0	8113 S / 12 G OB GR OF	297	Z1.296.3953.0	WIEBOX CN 22 GK	594	Z5.516.2811.0	9018 N	169
99.212.9996.2	8213 S / 12 W OB GR OF	299	Z1.296.4253.0	WIEBOX CN 26 GKL	595	Z5.519.0310.0	SCHIENENHALTER	213
99.213.9996.0	8113 S / 13 G OB GR OF	297	Z1.296.4353.0	WIEBOX CN 26 GK	595	Z5.519.0410.0	SCHIENENHALTER	213
99.213.9996.2	8213 S / 13 W OB GR OF	299	Z1.299.3053.0		243	Z5.522.1923.0	2163	215
99.214.9996.0	8113 S / 14 GOF OB	297	Z1.299.3055.0	DIST... /V0	38	Z5.522.5010.0	9222	40
99.214.9996.2	8213 S / 14 W OB GR OF	299	Z1.299.3155.0	DIST-1N 4007 -1 /V0	38	Z5.522.7053.0	9708	102
99.215.9996.0	8113 S / 15 G OB GR OF	297	Z1.299.3255.0	DIST-0 /V0	38	Z5.522.7553.0	9208 / S15	40
99.215.9996.2	8213 S / 15 W OB GR OF	299	Z1.299.3355.0	DIST-1N 4007 -2 /V0	38	Z5.522.8553.0	9708 / 2 S 35	19
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99.216.9996.2	8213 S / 16 W OB GR OF	299	Z1.299.4055.0	SIST... /V0	38	Z5.522.8553.0	9708 / 2 S 35	410
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Z5.530.0625.0	LP.STIFTLEISTE	318	Z5.532.4225.0	LP.STIFTLEISTE	317	Z5.570.0156.0	BU 70.3 / 6 REVZ	675
Z5.530.0725.0	LP.STIFTLEISTE	318	Z5.532.4325.0	LP.STIFTLEISTE	317	Z5.570.0256.0	BU 70.3 / 10 REVZ	675
Z5.530.0825.0	LP.STIFTLEISTE	318	Z5.532.4425.0	LP.STIFTLEISTE	317	Z5.570.0356.0	BU 70.3 / 24 REVZ	675
Z5.530.0925.0	LP.STIFTLEISTE	318	Z5.532.4525.0	LP.STIFTLEISTE	317	Z5.570.0556.0	BU 72.3 / 16 REVZ	679
Z5.530.1025.0	LP.STIFTLEISTE	318	Z5.532.4625.0	LP.STIFTLEISTE	317	Z5.570.0656.0	BU 72.3 / 6 REVZ	679
Z5.530.1125.0	LP.STIFTLEISTE	318	Z5.533.7121.0	PRUEFSTECKER	357	Z5.570.0756.0	BU 72.3 / 10 REVZ	679
Z5.530.1225.0	LP.STIFTLEISTE	318	Z5.533.7221.0	PRUEFSTECKER	357	Z5.570.0856.0	BU 72.3 / 24 REVZ	679
Z5.530.1325.0	LP.STIFTLEISTE	318	Z5.533.8221.0	STECKERLEISTE	357	Z5.570.1056.0	BU 70.3 / 16 REV	675
Z5.530.1425.0	LP.STIFTLEISTE	318	Z5.535.0225.0	8520 S / 2 G 0,8	324	Z5.570.1156.0	BU 70.3 / 6 REV	675
Z5.530.1525.0	LP.STIFTLEISTE	318	Z5.535.0325.0	8520 S / 3 G 0,8	324	Z5.570.1256.0	BU 70.3 / 10 REVZ	675
Z5.530.1625.0	LP.STIFTLEISTE	318	Z5.535.0425.0	8520 S / 4 G 0,8	324	Z5.570.1356.0	BU 70.3 / 24 REVZ	675
Z5.530.3225.0	LP.STIFTLEISTE	318	Z5.535.0525.0	8520 S / 5 G 0,8	324	Z5.570.1556.0	BU 72.3 / 16 REVZ	679
Z5.530.3325.0	LP.STIFTLEISTE	318	Z5.535.0625.0	8520 S / 6 G 0,8	324	Z5.570.1656.0	BU 72.3 / 6 REVZ	679
Z5.530.3425.0	LP.STIFTLEISTE	318	Z5.535.0725.0	8520 S / 7 G 0,8	324	Z5.570.1756.0	BU 72.3 / 10 REVZ	679
Z5.530.3525.0	LP.STIFTLEISTE	318	Z5.535.0825.0	8520 S / 8 G 0,8	324	Z5.570.1856.0	BU 72.3 / 24 REVZ	679
Z5.530.3625.0	LP.STIFTLEISTE	318	Z5.535.0925.0		324	Z5.570.2056.0	BU 70.3 / 16 RVZ	675
Z5.530.3725.0	LP.STIFTLEISTE	318	Z5.535.1025.0	8520 S / 10 G 0,8	324	Z5.570.2156.0	BU 70.3 / 6 RVZ	675
Z5.530.3825.0	LP.STIFTLEISTE	318	Z5.535.1125.0	8520 S / 11 G 0,8	324	Z5.570.2256.0	BU 70.3 / 10 RVZ	675
Z5.530.3925.0	LP.STIFTLEISTE	318	Z5.535.1225.0	8520 S / 12 G 0,8	324	Z5.570.2356.0	BU 70.3 / 24 RVZ	675
Z5.530.4025.0	LP.STIFTLEISTE	318	Z5.535.1325.0	8520 S / 13 G 0,8	324	Z5.570.2556.0	BU 72.3 / 16 RVZ	679
Z5.530.4125.0	LP.STIFTLEISTE	318	Z5.535.1425.0	8520 S / 14 G 0,8	324	Z5.570.2656.0	BU 72.3 / 6 RVZ	679
Z5.530.4225.0	LP.STIFTLEISTE	318	Z5.535.1525.0	8520 S / 15 G 0,8	324	Z5.570.2756.0	BU 72.3 / 10 RVZ	679
Z5.530.4325.0	LP.STIFTLEISTE	318	Z5.535.1625.0	8520 S / 16 G 0,8	324	Z5.570.2856.0	BU 72.3 / 24 RVZ	679
Z5.530.4425.0	LP.STIFTLEISTE	318	Z5.535.3225.0	8520 S / 2 G 1,0	324	Z5.570.3056.0	BU 70.3 / 16 RVZ	675
Z5.530.4525.0	LP.STIFTLEISTE	318	Z5.535.3325.0	8520 S / 3 G 1,0	324	Z5.570.3156.0	BU 70.3 / 6 RVZ	675
Z5.530.4625.0	LP.STIFTLEISTE	318	Z5.535.3425.0	8520 S / 4 G 1,0	324	Z5.570.3256.0	BU 70.3 / 10 RVZ	675
Z5.530.6225.0	LP.STIFTLEISTE	318	Z5.535.3525.0	8520 S / 5 G 1,0	324	Z5.570.3356.0	BU 70.3 / 24 RVZ	675
Z5.530.6325.0	LP.STIFTLEISTE	318	Z5.535.3625.0	8520 S / 6 G 1,0	324	Z5.570.3556.0	BU 72.3 / 16 RVZ	679
Z5.530.6425.0	LP.STIFTLEISTE	318	Z5.535.3725.0	8520 S / 7 G 1,0	324	Z5.570.3656.0	BU 72.3 / 6 RVZ	679
Z5.530.6525.0	LP.STIFTLEISTE	318	Z5.535.3825.0	8520 S / 8 G 1,0	324	Z5.570.3756.0	BU 72.3 / 10 RVZ	679
Z5.530.6625.0	LP.STIFTLEISTE	318	Z5.535.3925.0		324	Z5.570.3856.0	BU 72.3 / 24 RVZ	679
Z5.530.6725.0	LP.STIFTLEISTE	318	Z5.535.4025.0	8520 S / 10 G 1,0	324	Z5.570.4056.0	BU 70.7 / 16 REVZ	677
Z5.530.6825.0	LP.STIFTLEISTE	318	Z5.535.4125.0	8520 S / 11 G 1,0	324	Z5.570.4156.0	BU 70.7 / 6 REVZ	677
Z5.530.8225.0	LP.STIFTLEISTE	318	Z5.535.4225.0	8520 S / 12 G 1,0	324	Z5.570.4256.0	BU 70.7 / 10 REVZ	677
Z5.530.8325.0	LP.STIFTLEISTE	318	Z5.535.4325.0	8520 S / 13 G 1,0	324	Z5.570.4356.0	BU 70.7 / 24 RVZ	677
Z5.530.8425.0	LP.STIFTLEISTE	318	Z5.535.4425.0	8520 S / 14 G 1,0	324	Z5.570.4556.0	BU 72.7 / 16 REVZ	681
Z5.530.8525.0	LP.STIFTLEISTE	318	Z5.535.4525.0	8520 S / 15 G 1,0	324	Z5.570.4656.0	BU 72.7 / 6 REVZ	681
Z5.530.8625.0	LP.STIFTLEISTE	318	Z5.535.4625.0	8520 S / 16 G 1,0	324	Z5.570.4756.0	BU 72.7 / 10 REVZ	681
Z5.530.8725.0	LP.STIFTLEISTE	318	Z5.540.0225.0	LP.STIFTLEISTE	319	Z5.570.4856.0	BU 72.7 / 24 REVZ	681
Z5.530.8825.0	LP.STIFTLEISTE	318	Z5.540.0325.0	LP.STIFTLEISTE	319	Z5.570.5056.0	BU 70.7 / 16 REVZ	677
Z5.531.0225.0	LP.STIFTLEISTE	316	Z5.540.0425.0	LP.STIFTLEISTE	319	Z5.570.5156.0	BU 70.7 / 6 REVZ	677
Z5.531.0325.0	LP.STIFTLEISTE	316	Z5.540.0525.0	LP.STIFTLEISTE	319	Z5.570.5256.0	BU 70.7 / 10 REVZ	677
Z5.531.0425.0	LP.STIFTLEISTE	316	Z5.540.0625.0	LP.STIFTLEISTE	319	Z5.570.5356.0	BU 70.7 / 24 REVZ	677
Z5.531.0525.0	LP.STIFTLEISTE	316	Z5.540.0725.0	LP.STIFTLEISTE	319	Z5.570.5556.0	BU 72.7 / 16 REVZ	681
Z5.531.0625.0	LP.STIFTLEISTE	316	Z5.540.0825.0	LP.STIFTLEISTE	319	Z5.570.5656.0	BU 72.7 / 6 REVZ	681
Z5.531.0725.0	LP.STIFTLEISTE	316	Z5.540.0925.0	LP.STIFTLEISTE	319	Z5.570.5756.0	BU 72.7 / 10 REVZ	681
Z5.531.0825.0	LP.STIFTLEISTE	316	Z5.540.1025.0	LP.STIFTLEISTE	319	Z5.570.5856.0	BU 72.7 / 24 REVZ	681
Z5.531.0925.0	LP.STIFTLEISTE	316	Z5.540.1125.0	LP.STIFTLEISTE	319	Z5.570.6056.0	BU 73.7 / 40 REVZ	683
Z5.531.1025.0	LP.STIFTLEISTE	316	Z5.540.1225.0	LP.STIFTLEISTE	319	Z5.570.6156.0	BU 73.7 / 64 REVZ	683
Z5.531.1125.0	LP.STIFTLEISTE	316	Z5.540.1325.0	LP.STIFTLEISTE	319	Z5.570.6556.0	BU 70.7 / 16 RVZ	677
Z5.531.1225.0	LP.STIFTLEISTE	316	Z5.540.1425.0	LP.STIFTLEISTE	319	Z5.570.6656.0	BU 70.7 / 6 RVZ	677
Z5.531.1325.0	LP.STIFTLEISTE	316	Z5.540.1525.0	LP.STIFTLEISTE	319	Z5.570.6756.0	BU 70.7 / 10 RVZ	677
Z5.531.1425.0	LP.STIFTLEISTE	316	Z5.540.1625.0	LP.STIFTLEISTE	319	Z5.570.6856.0	BU 70.7 / 24 RVZ	677
Z5.531.1525.0	LP.STIFTLEISTE	316	Z5.540.3225.0	LP.STIFTLEISTE	319	Z5.570.7056.0	BU 73.7 / 40 REVZ	683
Z5.531.1625.0	LP.STIFTLEISTE	316	Z5.540.3325.0	LP.STIFTLEISTE	319	Z5.570.7156.0	BU 73.7 / 64 REVZ	683
Z5.531.3225.0	LP.STIFTLEISTE	316	Z5.540.3425.0	LP.STIFTLEISTE	319	Z5.570.7556.0	BU 72.7 / 16 RVZ	681
Z5.531.3325.0	LP.STIFTLEISTE	316	Z5.540.3525.0	LP.STIFTLEISTE	319	Z5.570.7656.0	BU 72.7 / 6 RVZ	681
Z5.531.3425.0	LP.STIFTLEISTE	316	Z5.540.3625.0	LP.STIFTLEISTE	319	Z5.570.7756.0	BU 72.7 / 10 RVZ	681
Z5.531.3525.0	LP.STIFTLEISTE	316	Z5.540.3725.0	LP.STIFTLEISTE	319	Z5.570.7856.0	BU 72.7 / 24 RVZ	681
Z5.531.3625.0	LP.STIFTLEISTE	316	Z5.540.3825.0	LP.STIFTLEISTE	319	Z5.570.8056.0	BU 73.7 / 40 RVZ	683
Z5.531.3725.0	LP.STIFTLEISTE	316	Z5.540.3925.0	LP.STIFTLEISTE	319	Z5.570.8156.0	BU 73.7 / 64 RVZ	683
Z5.531.3825.0	LP.STIFTLEISTE	316	Z5.540.4025.0	LP.STIFTLEISTE	319	Z5.570.8556.0	BU 70.7 / 16 RVZ	677
Z5.531.3925.0	LP.STIFTLEISTE	316	Z5.540.4125.0	LP.STIFTLEISTE	319	Z5.570.8656.0	BU 70.7 / 6 RVZ	677
Z5.531.4025.0	LP.STIFTLEISTE	316	Z5.540.4225.0	LP.STIFTLEISTE	319	Z5.570.8756.0	BU 70.7 / 10 RVZ	677
Z5.531.4125.0	LP.STIFTLEISTE	316	Z5.540.4325.0	LP.STIFTLEISTE	319	Z5.570.8856.0	BU 70.7 / 24 RVZ	677
Z5.531.4225.0	LP.STIFTLEISTE	316	Z5.540.4425.0	LP.STIFTLEISTE	319	Z5.570.9056.0	BU 73.7 / 40 REVZ	683
Z5.531.4325.0	LP.STIFTLEISTE	316	Z5.540.4525.0	LP.STIFTLEISTE	319	Z5.570.9156.0	BU 73.7 / 64 RVZ	683
Z5.531.4425.0	LP.STIFTLEISTE	316	Z5.540.4625.0	LP.STIFTLEISTE	319	Z5.570.9556.0	BU 72.7 / 16 RVZ	681
Z5.531.4525.0	LP.STIFTLEISTE	316	Z5.540.6225.0	LP.STIFTLEISTE	319	Z5.570.9656.0	BU 72.7 / 6 RVZ	681
Z5.531.4625.0	LP.STIFTLEISTE	316	Z5.540.6325.0	LP.STIFTLEISTE	319	Z5.570.9756.0	BU 72.7 / 10 RVZ	681
Z5.532.0225.0	LP.STIFTLEISTE	317	Z5.540.6425.0	LP.STIFTLEISTE	319	Z5.570.9856.0	BU 72.7 / 24 RVZ	681
Z5.532.0325.0	LP.STIFTLEISTE	317	Z5.540.6525.0	LP.STIFTLEISTE	319	Z5.571.0056.0	ST 70.3 / 16 REVZ	675
Z5.532.0425.0	LP.STIFTLEISTE	317	Z5.540.6625.0	LP.STIFTLEISTE	319	Z5.571.0156.0	ST 70.3 / 6 REVZ	675
Z5.532.0525.0	LP.STIFTLEISTE	317	Z5.540.6725.0	LP.STIFTLEISTE	319	Z5.571.0256.0	ST 70.3 / 10 REVZ	675
Z5.532.0625.0	LP.STIFTLEISTE	317	Z5.540.6825.0	LP.STIFTLEISTE	319	Z5.571.0356.0	ST 70.3 / 24 REVZ	675
Z5.532.0725.0	LP.STIFTLEISTE	317	Z5.540.8225.0	LP.STIFTLEISTE	319	Z5.571.0556.0	ST 72.3 / 16 REVZ	679
Z5.532.0825.0	LP.STIFTLEISTE	317	Z5.540.8325.0	LP.STIFTLEISTE	319	Z5.571.0656.0	ST 72.3 / 6 REVZ	679
Z5.532.0925.0	LP.STIFTLEISTE	317	Z5.540.8425.0	LP.STIFTLEISTE	319	Z5.571.0756.0	ST 72.3 / 10 REVZ	679
Z5.532.1025.0	LP.STIFTLEISTE	317	Z5.540.8525.0	LP.STIFTLEISTE	319	Z5.571.0856.0	ST 72.3 / 24 REVZ	679
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Z5.532.1325.0	LP.STIFTLEISTE	317	Z5.540.8825.0	LP.STIFTLEISTE	319	Z5.571.1256.0	ST 70.3 / 10 REVZ	675
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25.571.1656.0	ST 72.3 /6 REV	679	25.572.4656.0	BU 72.1 /16 REV	U WL	679	25.573.6356.0	ST 70.1 /24 RV	U WL	675
25.571.1756.0	ST 72.3 /10 REV	679	25.572.4856.0	BU 72.1 /6 REV	U WL	679	25.573.6556.0	ST 72.1 /16 RV	U WL	679
25.571.1856.0	ST 72.3 /24 REV	679	25.572.4756.0	BU 72.1 /10 REV	U WL	679	25.573.6656.0	ST 72.1 /6 RV	U WL	679
25.571.2056.0	ST 70.3 /16 RVZ	675	25.572.5056.0	BU 72.1 /24 REV	U WL	679	25.573.6756.0	ST 72.1 /10 RV	U WL	679
25.571.2156.0	ST 70.3 /6 RVZ	675	25.572.5156.0	BU 70.1 /16 REV	U WR	675	25.573.7056.0	ST 72.1 /24 RV	U WL	679
25.571.2256.0	ST 70.3 /10 RVZ	675	25.572.5256.0	BU 70.1 /6 REV	U WR	675	25.573.7156.0	ST 70.1 /16 RV	U WR	675
25.571.2356.0	ST 70.3 /24 RVZ	675	25.572.5356.0	BU 70.1 /10 REV	U WR	675	25.573.7256.0	ST 70.1 /6 RV	U WR	675
25.571.2556.0	ST 72.3 /16 RVZ	679	25.572.5556.0	BU 70.1 /24 REV	U WR	679	25.573.7356.0	ST 70.1 /10 RV	U WR	675
25.571.2656.0	ST 72.3 /6 REVZ	679	25.572.5656.0	BU 72.1 /6 REV	U WR	679	25.573.7556.0	ST 72.1 /16 RV	U WR	679
25.571.2756.0	ST 72.3 /10 RVZ	679	25.572.5756.0	BU 72.1 /10 REV	U WR	679	25.573.7656.0	ST 72.1 /6 RV	U WR	679
25.571.2856.0	ST 72.3 /24 RVZ	679	25.572.5856.0	BU 72.1 /24 REV	U WR	679	25.573.7756.0	ST 72.1 /10 RV	U WR	679
25.571.3056.0	ST 70.3 /16 RV	675	25.572.6056.0	BU 70.1 /16 RV	U WL	675	25.573.7856.0	ST 72.1 /24 RV	U WR	679
25.571.3156.0	ST 70.3 /6 RV	675	25.572.6156.0	BU 70.1 /6 RV	U WL	675	25.573.8056.0	ST 73.1 /40 REV	WL	683
25.571.3256.0	ST 70.3 /10 RV	675	25.572.6256.0	BU 70.1 /10 RV	U WL	675	25.573.8156.0	ST 73.1 /64 REV	WL	683
25.571.3356.0	ST 70.3 /24 RV	679	25.572.6356.0	BU 70.1 /24 RV	U WL	675	25.573.8356.0	ST 73.1 /40 REV	WR	683
25.571.3556.0	ST 72.3 /16 RV	675	25.572.6556.0	BU 72.1 /16 RV	U WL	679	25.573.8456.0	ST 73.1 /64 REV	WR	683
25.571.3656.0	ST 72.3 /6 RV	679	25.572.6656.0	BU 72.1 /6 RV	U WL	679	25.573.8656.0	ST 73.1 /40 RV	WL	683
25.571.3756.0	ST 72.3 /10 RV	679	25.572.6756.0	BU 72.1 /10 RV	U WL	679	25.573.8756.0	ST 73.1 /64 RV	WL	683
25.571.3856.0	ST 72.3 /24 RV	679	25.572.6856.0	BU 72.1 /24 RV	U WL	679	25.573.8956.0	ST 73.1 /40 RV	WR	683
25.571.4056.0	ST 70.7 /16 REVZ	677	25.572.7056.0	BU 70.1 /6 RV	U WR	675	25.573.9056.0	ST 73.1 /40 REV	WR	683
25.571.4156.0	ST 70.7 /6 REVZ	677	25.572.7156.0	BU 70.1 /10 RV	U WR	675	25.573.9156.0	ST 73.1 /64 REV	WR	683
25.571.4256.0	ST 70.7 /10 REVZ	677	25.572.7256.0	BU 70.1 /24 RV	U WR	679	25.573.9256.0	ST 73.1 /40 REV	U WR	683
25.571.4356.0	ST 70.7 /24 REVZ	677	25.572.7356.0	BU 72.1 /6 RV	U WR	679	25.573.9356.0	ST 73.1 /64 REV	U WR	683
25.571.4556.0	ST 72.7 /16 REVZ	681	25.572.7556.0	BU 72.1 /16 RV	U WR	679	25.573.9456.0	ST 73.1 /64 REV	WR	683
25.571.4656.0	ST 72.7 /6 REVZ	681	25.572.7656.0	BU 72.1 /6 RV	U WR	679	25.573.9556.0	ST 73.1 /40 RV	U WL	683
25.571.4756.0	ST 72.7 /10 REVZ	681	25.572.7756.0	BU 72.1 /10 RV	U WR	679	25.573.9656.0	ST 73.1 /64 RV	U WL	683
25.571.4856.0	ST 72.7 /24 REVZ	681	25.572.7856.0	BU 72.1 /24 RV	U WR	679	25.573.9756.0	ST 73.1 /40 RV	U WR	683
25.571.5056.0	ST 70.7 /16 REV	677	25.572.7956.0	BU 73.1 /40 REV	WL	683	25.573.9856.0	ST 73.1 /64 RV	U WR	683
25.571.5156.0	ST 70.7 /6 REV	677	25.572.8056.0	BU 73.1 /64 REV	WL	683	25.574.0053.0	6/10/16 Gehaeuse-UT		782
25.571.5256.0	ST 70.7 /10 REV	677	25.572.8156.0	BU 73.1 /40 REV	WR	683	25.574.0153.0	24 Gehaeuse-UT		782
25.571.5356.0	ST 70.7 /24 REV	677	25.572.8356.0	BU 73.1 /64 REV	WR	683	25.574.0653.0	HALTERAHMEN 6		782
25.571.5556.0	ST 72.7 /16 REV	681	25.572.8456.0	BU 73.1 /64 REV	WR	683	25.574.1053.0	HALTERAHMEN 10		782
25.571.5656.0	ST 72.7 /6 REV	681	25.572.8556.0	BU 73.1 /40 RV	WL	683	25.574.1253.0	HALTERAHMEN 2x6		782
25.571.5756.0	ST 72.7 /10 REV	681	25.572.8756.0	BU 73.1 /64 RV	WL	683	25.574.1653.0	HALTERAHMEN 16		782
25.571.5856.0	ST 72.7 /24 REV	681	25.572.8956.0	BU 73.1 /40 RV	WR	683	25.574.2453.0	HALTERAHMEN 24		782
25.571.5956.0	ST 73.7 /40 REVZ	683	25.572.9056.0	BU 73.1 /64 RV	WR	683	25.580.7800.0	M-IALC 24		482
25.571.6156.0	ST 73.7 /64 REVZ	683	25.572.9156.0	BU 73.1 /40 REV	U WL	683	25.580.8100.0	M-IDC 24		482
25.571.6556.0	ST 70.7 /16 RVZ	677	25.572.9256.0	BU 73.1 /64 REV	U WL	683	25.592.1252.0	SPERRSTUECK		788
25.571.6656.0	ST 70.7 /6 RVZ	677	25.572.9356.0	BU 73.1 /40 REV	U WR	683	25.593.4053.0	CODIERSATZ		788
25.571.6756.0	ST 70.7 /10 RVZ	677	25.572.9456.0	BU 73.1 /64 REV	U WR	683	25.595.2153.0	TR-STUECK F.TS35		584
25.571.6856.0	ST 70.7 /24 RVZ	677	25.572.9556.0	BU 73.1 /40 RV	U WL	683	25.599.9025.0	LP-STIFELLEISTE		320
25.571.7056.0	ST 73.7 /40 REV	683	25.572.9656.0	BU 73.1 /64 RV	U WL	683	26.012.0812.0	SCHRAUBENSATZ		305
25.571.7156.0	ST 73.7 /64 REV	683	25.572.9756.0	BU 73.1 /40 RV	U WR	683	Z7.210.1027.0	2072 M		164
25.571.7556.0	ST 72.7 /16 RVZ	681	25.572.9856.0	BU 73.1 /64 RV	U WR	683	Z7.210.3027.0	9215 M-70		164
25.571.7656.0	ST 72.7 /6 RVZ	681	25.573.0056.0	ST 70.1 /16 REV	WL	675	Z7.210.3227.0	9215 - 2		114
25.571.7756.0	ST 72.7 /10 RVZ	681	25.573.0156.0	ST 70.1 /6 REV	WL	675	Z7.210.3327.0	9215 - 3		114
25.571.7856.0	ST 72.7 /24 RVZ	681	25.573.0256.0	ST 70.1 /10 REV	WL	675	Z7.210.3427.0	9215 - 4		164
25.571.8056.0	ST 73.7 /40 RVZ	683	25.573.0356.0	ST 70.1 /24 REV	WL	675	Z7.210.3527.0	9215 - 5		164
25.571.8156.0	ST 73.7 /64 RVZ	683	25.573.0556.0	ST 72.1 /16 REV	WL	679	Z7.210.3627.0	9215 - 6		114
25.571.8556.0	ST 70.7 /16 RV	677	25.573.0656.0	ST 72.1 /6 REV	WL	679	Z7.211.0027.0	9703 / 6 M-70		72
25.571.8656.0	ST 70.7 /6 RV	677	25.573.0756.0	ST 72.1 /10 REV	WL	679	Z7.211.0227.0	9703 / 6- 2		72
25.571.8756.0	ST 70.7 /10 RV	677	25.573.0856.0	ST 72.1 /24 REV	WL	679	Z7.211.0227.0	9703 / 6- 3		86
25.571.8856.0	ST 70.7 /24 RV	677	25.573.1056.0	ST 70.1 /16 REV	WR	675	Z7.211.0327.0	9703 / 6- 4		86
25.571.9056.0	ST 73.7 /40 RV	683	25.573.1156.0	ST 70.1 /6 REV	WR	675	Z7.211.0427.0	9703 / 6- 5		86
25.571.9156.0	ST 73.7 /64 RV	683	25.573.1256.0	ST 70.1 /10 REV	WR	675	Z7.211.0527.0	9703 / 6- 6		72
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25.571.9656.0	ST 72.7 /6 RV	681	25.573.1556.0	ST 70.1 /16 REV	WR	679	Z7.212.0027.0	9703 / 8- 2		191
25.571.9756.0	ST 72.7 /10 RV	681	25.573.1656.0	ST 72.1 /6 REV	WR	679	Z7.212.0227.0	9703 / 8- 3		191
25.571.9856.0	ST 72.7 /24 RV	681	25.573.1756.0	ST 70.1 /10 REV	WR	679	Z7.212.0327.0	9703 / 8- 4		191
25.572.0056.0	BU 70.1 /16 REV	WL	25.573.1856.0	ST 72.1 /24 REV	WR	679	Z7.212.0427.0	9703 / 8- 5		191
25.572.0156.0	BU 70.1 /6 REV	WL	25.573.2056.0	ST 70.1 /16 RV	WL	675	Z7.212.0527.0	9703 / 8- 6		191
25.572.0256.0	BU 70.1 /10 REV	WL	25.573.2156.0	ST 70.1 /6 RV	WL	675	Z7.212.0627.0			148
25.572.0356.0	BU 70.1 /24 REV	WL	25.573.2256.0	ST 70.1 /10 RV	WL	675	Z7.212.1227.0			148
25.572.0556.0	BU 72.1 /16 REV	WL	25.573.2356.0	ST 70.1 /24 RV	WL	675	Z7.212.1327.0			148
25.572.0656.0	BU 72.1 /6 REV	WL	25.573.2556.0	ST 72.1 /16 RV	WL	679	Z7.212.1427.0			148
25.572.0756.0	BU 72.1 /10 REV	WL	25.573.2656.0	ST 72.1 /6 RV	WL	679	Z7.212.1527.0			148
25.572.0856.0	BU 72.1 /24 REV	WL	25.573.2756.0	ST 72.1 /10 RV	WL	679	Z7.212.2027.0			148
25.572.1056.0	BU 70.1 /16 REV	WR	25.573.2856.0	ST 72.1 /24 RV	WL	679	Z7.212.2227.0			148
25.572.1156.0	BU 70.1 /6 REV	WR	25.573.3056.0	ST 70.1 /16 RV	WR	675	Z7.212.2327.0			148
25.572.1256.0	BU 70.1 /10 REV	WR	25.573.3156.0	ST 70.1 /6 RV	WR	675	Z7.212.2427.0			148
25.572.1356.0	BU 70.1 /24 REV	WR	25.573.3256.0	ST 70.1 /10 RV	WR	675	Z7.213.0027.0	9703 / 12 M		196
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25.572.1656.0	BU 72.1 /6 REV	WR	25.573.3556.0	ST 72.1 /16 RV	WR	679	Z7.213.0327.0	9703 / 12- 3		191
25.572.1756.0	BU 72.1 /10 REV	WR	25.573.3656.0	ST 72.1 /6 RV	WR	679	Z7.213.0427.0	9703 / 12- 4		191
25.572.1856.0	BU 72.1 /24 REV	WR	25.573.3756.0	ST 72.1 /10 RV	WR	679	Z7.213.0527.0	9703 / 12- 5		191
25.572.2056.0	BU 70.1 /16 RV	WL	25.573.3856.0	ST 72.1 /24 RV	WR	679	Z7.213.0627.0	9703 / 12- 6		191
25.572.2156.0	BU 70.1 /6 RV	WL	25.573.3956.0	ST 70.1 /16 REV	U WL	675	Z7.214.0027.0	9703 / 10 M		196
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25.572.2756.0	BU 72.1 /10 RV	WL	25.573.4556.0	ST 72.1 /6 REV	U WL	679	Z7.214.0627.0	9703 / 10- 6		191
25.572.2856.0	BU 72.1 /24 RV	WL	25.573.4656.0	ST 72.1 /10 REV	U WL	679	Z7.215.0027.0	9703 / 5 M		190
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25.572.3256.0	BU 70.1 /10 RV	WR	25.573.5056.0	ST 70.1 /6 REV	U WR	675	Z7.215.0427.0	9703 / 5- 4		190
25.572.3356.0	BU 70.1 /24 RV	WR	25.573.5156.0	ST 70.1 /10 REV	U WR	675	Z7.215.0527.0	9703 / 5- 5		190
25.572.3556.0	BU 72.1 /16 RV	WR	25.573.5256.0	ST 70.1 /24 RV	U WR	675	Z7.215.0627.0	9703 / 5- 6		190
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Z7.255.3127.0	IVB WK4 E - 11	160	Z7.269.0623.0	9012 / 2,5 UB	161	Z7.281.1327.0	IVBWK 4- 3	78
Z7.255.3227.0	IVB WK4 E - 12	160	Z7.269.0723.0	9012	197	Z7.281.1427.0	IVBWK 4- 4	78
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Z7.256.0327.0	FUER 70ER KLEMMENADAPT.	781	Z7.270.0227.0	IVB WK 2,5-3D- 2	118	Z7.281.3527.0	VB WK/..S/IV/U- 5	164
Z7.256.0427.0	FUER 70ER KLEMMENADAPT.	781	Z7.270.0327.0	IVB WK 2,5-3D- 3	118	Z7.281.3627.0	VB WK/..S/IV/U- 6	140
Z7.256.0527.0	FUER 70ER KLEMMENADAPT.	781	Z7.270.0427.0	IVB WK 2,5-3D- 4	162	Z7.281.6027.0	VB WK 4/D.-M-70	164
Z7.256.0627.0	FUER 70ER KLEMMENADAPT.	781	Z7.270.0527.0	IVB WK 2,5-3D- 5	162	Z7.281.6227.0	VB WK 4/D.- 2	164
Z7.256.0727.0	FUER 70ER KLEMMENADAPT.	781	Z7.270.0627.0	IVB WK 2,5-3D- 6	162	Z7.281.6327.0	VB WK 4/D.- 3	164
Z7.256.0827.0	FUER 70ER KLEMMENADAPT.	781	Z7.270.0727.0	IVB WK 2,5-3D- 7	162	Z7.281.6427.0	VB WK 4/D.- 4	164
Z7.256.0927.0	FUER 70ER KLEMMENADAPT.	781	Z7.270.0827.0	IVB WK 2,5-3D- 8	162	Z7.281.6527.0	VB WK 4/D.- 5	164
Z7.256.1027.0	FUER 70ER KLEMMENADAPT.	781	Z7.270.0927.0	IVB WK 2,5-3D- 9	162	Z7.281.6627.0	VB WK 4/D.- 6	164
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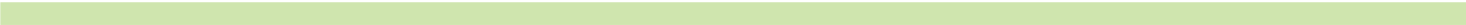
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