



## Plugged in – connection to the process

Today's machines often need to be connected to external devices. No matter if it is a connection to the control terminal for set-up/diagnostics or during the process for parameterization/optimization, the MSDD front panel interface offers you the optimal data and supply connection on the spot.

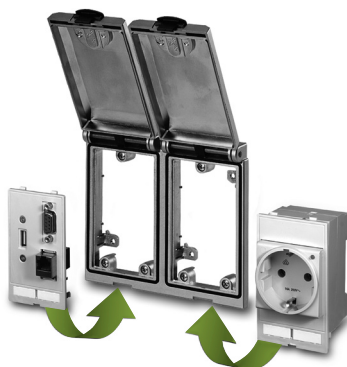
With help of the MSDD front panel interface your laptop, programming device, diagnostic equipment, PC, printer, network or modem can be easily connected to the PLC.

MSDD avoids additional and improvised cabling and ensures problem free operation. The switch cabinet stays closed, and your switch cabinet components are operated using the prescribed protection class.

## The modular system – your flexible solution

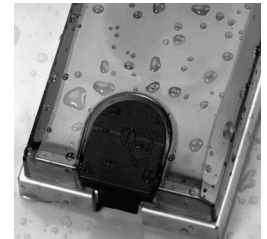
Whether it is in the control terminal or in the control cabinet, Murrelektronik offers you a flexible configuration to meet your requirements – reliable and professional. The modular design makes redesigning and upgrading easy to do at any time. Make use of this tried and tested standard! You have the choice of well over 4,000 different combinations. From plug socket to Ethernet connection – you are certain to find your connection to the outside world. This is the best possible way to comply with special customer requests.

The inserts can be snapped in. Some outlets have to be screw-mounted due to the high tensile force. No special tool is needed. The frames and inserts are supplied with label plates providing a service friendly labelling of the ports.



## Tight – and with full visibility

The new connecting mechanism of the transparent MSDD with integrated locking mechanism allows the components to be used under protection class IP65. This protection class prevents penetration by dust and moisture when equipment is being cleaned. Even in the closed position, the transparent cover provides a full view of LEDs and data connector inserts.



## The modular system – your flexible solution

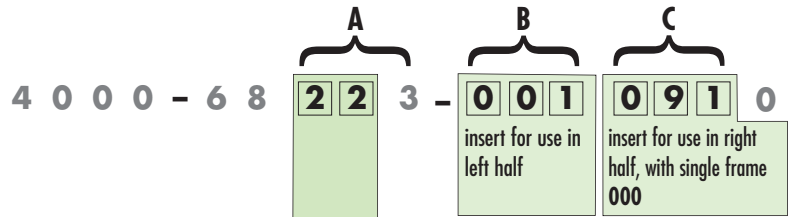
You can order components such as frame and inserts separately or as a set. The storagekeeping of individual components offers a high flexibility. Modlink MSDD set especially suits for project related arrangements. We put together the correct combination for you - from 1 piece onwards.

### Advantage:

- can be subjected to considerable mechanical strain
- flat, professional design
- high temperature resistance
- single and double versions
- power sockets for European and international markets
- clear identification
- operating voltage indicator
- EMC shielding for data leads
- available in protection class IP65

## How to create your order number

The catalog number stipulates whether you are ordering modules such as sockets, plug-in data connector inserts or frames individually or in sets. The catalog numbers of the individual components can be found on the following pages. Both modules and sets can be ordered in quantities of 1 or more.



## The set

The catalog number for the set consists of number blocks **A**, **B** and **C** printed in bold type.

**Block A:** frame (e.g. **4000-68223-0000000**)

**Block B:** insert 1 (e.g. **4000-68000-0010000**)

**Block C:** insert 2 (e.g. **4000-68000-0910000**)

the frame is defined here

**11** = 1-way, metal, IP 65

**12** = 2-way, metal, IP 65

**21** = 1-way, metal, IP65, (transparent cover)

**22** = 2-way, metal, IP65, (transparent cover)

## Frame



1-way and 2-way frame using in connection with sockets and data plug connector

page 3.10.3

## Accessories



### Plug sockets

All interational plug sockets.  
With screw terminals or spring clamp terminals.  
With LED indicator.

page 3.10.4



### Data connection inserts

Large selection of different interface modules such as RJ45, SUB-D, USB and more.  
Solder- and pluggable.

from page 3.10.6



### Blind plates/Accessories

Flat and low blind plates for producing own variants.  
Cable connection for control panels.  
Gender Changer for expansion or modification.

page 3.10.12

## Frame

representative version

### 1-way silver



### 1-way transparent



Ordering data	Art.-No.	Art.-No.
	4000-68113-0000000	4000-68213-0000000
Description	Frame: metal, matte nickel plated; Lid: metal, matte nickel plated	Frame: metal, matte nickel plated; Lid: plastic, transparent
Shielded	yes	yes, shielded
Protection	IP 65	
Material	zinc pressure diecasting, refining surface <sup>1)</sup>	
Suitable for wall thickness	1...5 mm	
Dimensions (outside) (H x W x D)	114 x 66 x 32...62 mm (element dependent)	
Temperature range	-10...+60 °C	
Storage temperature	-25...+60 °C	
Dimension drawing		
Wall cut-out (——) for mounting is not centered  to the outer edge (-----) of the front panel Suitable for wall thickness 1...3 mm  Mounting depth depends on outlet type		

## Frame

representative version

### 2-way silver



### 2-way transparent



Ordering data	Art.-No.	Art.-No.
	4000-68123-0000000	4000-68223-0000000
Description	Frame: metal, matte nickel plated; Lid: metal, matte nickel plated	Frame: metal, matte nickel plated; Lid: plastic, transparent
Shielded	yes	yes, shielded
Protection	IP 65	
Material	zinc pressure diecasting, refining surface <sup>1)</sup>	
Suitable for wall thickness	1...5 mm	
Dimensions (outside) (H x W x D)	114 x 131 x 32...62 mm (element dependent)	
Temperature range	-10...+60 °C	
Storage temperature	-25...+60 °C	
Dimension drawing		
Wall cut-out (——) for mounting is not centered  to the outer edge (-----) of the front panel Suitable for wall thickness 1...3 mm  Mounting depth depends on outlet type		

## Notes

<sup>1)</sup> Different shinings possible due to manufacturing process.

# Modlink MSDD front panel interfaces

## Plug sockets



	VDE	VDE	VDE yellow	VDE
<b>Ordering data</b>	<b>Art.-No.</b> 4000-68000-0010000	<b>Art.-No.</b> 4000-68000-0160000	<b>Art.-No.</b> 4000-68000-0020000	<b>Art.-No.</b> 4000-68000-0140000
<b>Description</b>	with LED supply indicator, screw terminals max. 6 mm <sup>2</sup> , connection at the rear	VDE without LED, spring clamp term. max. 2 x 2.5 mm <sup>2</sup> , yellow (RAL 1016) connection at the rear	for installing in front of main switch, signal orange (RAL 2003), screw terminals max. 6 mm <sup>2</sup> , connection at the rear	for installing in front of main switch, screw terminals max. 6 mm <sup>2</sup> , connection at the rear
Max. nominal voltage	250 V AC			
Nominal frequency	50 Hz			
Max. nominal current	10...16 A			
Indication	yellow	–	–	yellow
Mounting depth assembled	approx. 62 mm	approx. 25 mm	approx. 62 mm	approx. 62 mm

## Plug sockets



	UTE	UTE	UTE	
<b>Ordering data</b>	<b>Art.-No.</b> 4000-68000-0050000	<b>Art.-No.</b> 4000-68000-0130000	<b>Art.-No.</b> 4000-68000-0150000	
<b>Description</b>	with LED supply indicator, screw terminals max. 6 mm <sup>2</sup> , connection at the rear	color red, protected from touching, screw terminals max. 2.5 mm <sup>2</sup>	for installing in front of main switch, signal orange (RAL 2003), screw terminals max. 6 mm <sup>2</sup>	
Max. nominal voltage	250 V AC			
Nominal frequency	50 Hz			
Max. nominal current	10...16 A			
Indication	yellow	–	yellow	
Mounting depth assembled	approx. 62 mm	approx. 25 mm	approx. 62 mm	

## Plug sockets



	USA (NEMA 5-15)	USA (NEMA 5-15)		
<b>Ordering data</b>	<b>Art.-No.</b> 4000-68000-0030000	<b>Art.-No.</b> 4000-68000-0040000	<b>Art.-No.</b> 4000-68000-0110000	<b>Art.-No.</b> 4000-68000-0100000
<b>Description</b>	with pluggable soldering connection 4.8 x 0.8 mm	with touch protection and screw terminals, max. AWG14 (2.5 mm <sup>2</sup> )	fuse 3 A, with pluggable soldering connection, phase 6.3 x 0.8 mm; N, PE 4.8 x 0.8 mm	with screw terminals max. 2.5 mm <sup>2</sup>
Max. nominal voltage	125 V AC			
Nominal frequency	60 Hz			
Max. nominal current	15 A	15 A	3 A	15 A
Indication	–			
Mounting depth assembled	approx. 25 mm	approx. 25 mm	approx. 55 mm	approx. 20 mm

## Notes

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# Modlink MSDD front panel interfaces

## Plug sockets



### Great Britain (BS)



### Italy (CEI 23-16)



### Denmark



### Switzerland



Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
	4000-68000-0060000	4000-68000-0070000	4000-68000-0170000	4000-68000-0120000
Description	with touch-protection and screw terminals max. 4 mm <sup>2</sup>		with touch-protection and screw terminals max. 2.5 mm <sup>2</sup>	spring terminals max. 2 x 2.5 mm <sup>2</sup> , connection at the rear
Max. nominal voltage	250 V AC			
Nominal frequency	50/60 Hz	50 Hz	50 Hz	50 Hz
Max. nominal current	13 A	10...16 A	10 A	10 A
Indication	-			
Mounting depth assembled	approx. 20 mm	approx. 25 mm	approx. 25 mm	approx. 25 mm

## Plug sockets



Ordering data	Art.-No.
	4000-68000-0100000
Description	with screw terminals max. 2.5 mm <sup>2</sup>
Max. nominal voltage	250 V AC
Nominal frequency	50/60 Hz
Max. nominal current	15 A
Indication	-
Mounting depth assembled	approx. 25 mm

## Plug sockets








### Australia















Ordering data	Art.-No.
	4000-68000-0090000
Description	with screw terminals max. 2.5 mm <sup>2</sup>
Max. nominal voltage	250 V AC
Nominal frequency	50/60 Hz
Max. nominal current	10 A
Indication	-
Mounting depth assembled	approx. 30 mm

Notes

# Modlink MSDD front panel interfaces



Data connection inserts representative version	SUB-D9	SUB-D9	SUB-D9; SUB-D9	SUB-D9; SUB-D9
				
<b>Ordering data</b>	 <b>Art.-No.</b> <b>4000-68000-0230000</b>	 <b>Art.-No.</b> <b>4000-68000-0240000</b>	 <b>Art.-No.</b> <b>4000-68000-0200000</b>	 <b>Art.-No.</b> <b>4000-68000-0210000</b>
<b>Description</b>	1 x soldering connection, female, 1 x SUB-D9 blank cover	1 x female/female	2 x female/male	2 x soldering connection, female
Shielded	no			
Max. nominal voltage / nominal current	<b>SUB-D</b> 125 V AC/150 V DC / 3 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup>			
Locking	<b>SUB-D</b> UNC 4...40 bolt			
Specification	<b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	approx. 32 mm			



Data connection inserts	SUB-D9; SUB-D9		SUB-D9; SUB-D15	
				
<b>Ordering data</b>	 <b>Art.-No.</b> <b>4000-68000-0220000</b>	 <b>Art.-No.</b> <b>4000-68000-0250000</b>	 <b>Art.-No.</b> <b>4000-68000-0260000</b>	 <b>Art.-No.</b> <b>4000-68000-0300000</b>
<b>Description</b>	1 x soldering connection, female, 1 x soldering connection, male	1 x female/female, 1 x male/male	2 x female/female	2 x female/male
Shielded	no			
Max. nominal voltage / nominal current	<b>SUB-D</b> 125 V AC/150 V DC / 3 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup>			
Locking	<b>SUB-D</b> UNC 4...40 bolt			
Specification	<b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	approx. 32 mm			



Data connection inserts	SUB-D9; SUB-D15		SUB-D9; SUB-D25	
				
<b>Ordering data</b>	 <b>Art.-No.</b> <b>4000-68000-0310000</b>	 <b>Art.-No.</b> <b>4000-68000-0320000</b>	 <b>Art.-No.</b> <b>4000-68000-0400000</b>	 <b>Art.-No.</b> <b>4000-68000-0410000</b>
<b>Description</b>	2 x soldering connection, female	2 x female/female	2 x female/male	2 x soldering connection, female
Shielded	no			
Max. nominal voltage / nominal current	<b>SUB-D</b> 125 V AC/150 V DC / 3 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup>			
Locking	<b>SUB-D</b> UNC 4...40 bolt			
Specification	<b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	approx. 32 mm			

<b>Notes</b>	
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# Modlink MSDD front panel interfaces







Data connection inserts	SUB-D9; SUB-D25	SUB-D15	SUB-D15; SUB-D15	SUB-D15; SUB-D15
representative version				
<b>Ordering data</b>	<b>Art.-No.</b> 4000-68000-0420000	<b>Art.-No.</b> 4000-68000-0530000	<b>Art.-No.</b> 4000-68000-0500000	<b>Art.-No.</b> 4000-68000-0510000
<b>Description</b>	1 x soldering connect. SUB-D9, male, 1 x soldering connect. SUB-D25, fem.	1 x soldering connection, female, 1 x SUB-D9 blank cover	2 x female/male	2 x soldering connection, female
Shielded	no			
Max. nominal voltage / nominal current	<b>SUB-D</b> 125 V AC/150 V DC / 3 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup>			
Locking	<b>SUB-D</b> UNC 4...40 bolt			
Specification	<b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	approx. 32 mm			



Data connection inserts	SUB-D15; SUB-D25	SUB-D25		
				
<b>Ordering data</b>	<b>Art.-No.</b> 4000-68000-0600000	<b>Art.-No.</b> 4000-68000-0610000	<b>Art.-No.</b> 4000-68000-0730000	<b>Art.-No.</b> 4000-68000-0740000
<b>Description</b>	2 x female/male	2 x soldering connection, female	1 x soldering connection, female, 1 x SUB-D9 blank cover	1 x female/male 1 x SUB-D9 blank cover
Shielded	no			
Max. nominal voltage / nominal current	<b>SUB-D</b> 125 V AC/150 V DC / 3 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup>			
Locking	<b>SUB-D</b> UNC 4...40 bolt			
Specification	<b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	approx. 32 mm			

Data connection inserts	SUB-D25; SUB-D25	SUB-D15 HD; PS2; PS2	SUB-D15 HD; PS2	
				
<b>Ordering data</b>	<b>Art.-No.</b> 4000-68000-0700000	<b>Art.-No.</b> 4000-68000-0710000	<b>Art.-No.</b> 4000-68000-0800000	<b>Art.-No.</b> 4000-68000-0810000
<b>Description</b>	2 x female/male	2 x soldering connection, female	1 x 15 HD female/male (VGA), 2 x PS2, 6-pol. soldering connection	1 x 15 HD soldering conn., fem. (VGA), 1 x PS2, 6-pol. soldering connection
Shielded	no			
Max. nominal voltage / nominal current	<b>SUB-D</b> 125 V AC/150 V DC / 3 A; <b>PS2</b> 30 V AC/DC / 1 A; <b>SUB-D HD</b> 60 V AC/DC / 1.5 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup> ; <b>PS2</b> AWG 24/0.22 mm <sup>2</sup>			
Locking	<b>SUB-D</b> UNC 4...40 bolt; <b>PS2</b> snap-in			
Specification	<b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	approx. 32 mm			

<b>Notes</b>	
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# Modlink MSDD front panel interfaces

Data connection inserts representative version	RJ45	RJ45; RJ45	RJ45; USB F-A	RJ45; SUB-D9
				
				
<b>Ordering data</b>	<b>Art.-No.</b> 4000-68000-1210000	<b>Art.-No.</b> 4000-68000-1200000	<b>Art.-No.</b> 4000-68000-1310000	<b>Art.-No.</b> 4000-68000-1410000
<b>Description</b>	1 x RJ45 8-pol. metal, CAT5e, 1 x SUB-D9 blank cover	2 x RJ45 8-pol. metal, CAT5e	1 x RJ45 8-pol. metal, CAT5e 1 x USB female/female (form A)	1 x RJ45 8-pol. metal, female/female 1 x SUB-D9, female/female
Shielded	no	yes	yes	yes
Max. nominal voltage / nominal current	<b>RJ45</b> 48 V AC/DC / 1 A; <b>USB</b> 30 V AC/DC / 1 A; <b>SUB-D</b> 125 V AC/150 V DC / 3 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup>			
Locking	<b>RJ45</b> staple for the bolt; <b>USB</b> snap-in; <b>SUB-D</b> UNC 4...40 bolt			
Specification	<b>RJ45</b> CAT5e (100 MHz resp. MBit/s); <b>USB</b> 2.0 / type 2dB; <b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	<b>RJ45</b> approx. 32 mm; <b>USB</b> approx. 80 mm; <b>SUB-D</b> approx. 32 mm			

Data connection inserts representative version	RJ45; USB F-A; SUB-D9	RJ45; PS2; PS2	RJ45; USB F-A; PS2; PS2
			
<b>Ordering data</b>	<b>Art.-No.</b> 4000-68000-1430000	<b>Art.-No.</b> 4000-68000-1440000	<b>Art.-No.</b> 4000-68000-1510000
<b>Description</b>	1 x RJ45 8-pol. metal, CAT5e 1 x USB female/female (form A) 1 x SUB-D9, female/male	1 x RJ45 8-pol. metal, CAT5e 1 x USB female/female (form A) 1 x SUB-D9, female/female	1 x RJ45 8-pol. metal, female/female 2 x PS2, 6-pol. soldering connection
Shielded	yes	yes	no
Max. nominal voltage / nominal current	<b>RJ45</b> 48 V AC/DC / 1 A; <b>USB</b> 30 V AC/DC / 1 A; <b>SUB-D</b> 125 V AC/150 V DC / 3 A; <b>PS2</b> 30 V AC/DC / 1 A		
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup> ; <b>PS2</b> AWG 24/0.22 mm <sup>2</sup>		
Locking	<b>RJ45</b> staple for the bolt; <b>USB</b> snap-in; <b>SUB-D</b> UNC 4...40 bolt; <b>PS2</b> snap-in		
Specification	<b>RJ45</b> CAT5e (100 MHz resp. MBit/s); <b>USB</b> 2.0 / type 2dB; <b>SUB-D</b> DIN41652/IEC807		
Mounting depth assembled	<b>RJ45</b> approx. 32 mm; <b>USB</b> approx. 80 mm; <b>SUB-D</b> approx. 32 mm; <b>PS2</b> approx. 32 mm		

<b>Notes</b>	
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# Modlink MSDD front panel interfaces

## Data connection inserts

representative version

**RJ45; RJ45; SUB-D25**    **RJ45; SUB-D9; SUB-D25**    **RJ45; BNC; SUB-D9**











Ordering data	Art.-No. 4000-68000-1600000	Art.-No. 4000-68000-1700000	Art.-No. 4000-68000-1800000	Art.-No. 4000-68000-1810000
<b>Description</b>	2 x RJ45 8-pol. metal, CAT5e 1 x SUB-D25 female/male	1 x RJ45 8-pol. metal, CAT5e 1 x SUB-D9 female/male 1 x SUB-D25 female/male	1 x RJ45 8-pol. metal, CAT5e 1 x BNC, female/female 1 x SUB-D9 female/male	1 x RJ45 8-pol. metal, CAT5e 1 x BNC, female/female 1 x SUB-D9 female/female
Shielded	yes	no	yes	no
Max. nominal voltage / nominal current	<b>RJ45</b> 48 V AC/DC / 1 A; <b>SUB-D</b> 125 V AC/150 V DC / 3 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0,5 mm <sup>2</sup>			
Locking	<b>RJ45</b> staple for the bolt; <b>SUB-D</b> UNC 4...40 bolt			
Specification	<b>RJ45</b> CAT5e (100 MHz resp. MBit/s); <b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	<b>RJ45</b> approx. 32 mm; <b>SUB-D</b> approx. 32 mm			

## Data connection inserts

representative version

**RJ45; RJ12; USB F.-A**    **RJ45; RJ12; SUB-D25**    **RJ45; SUB-D9, SUB-D9**    **RJ45; RJ12; SUB-D9**







Ordering data	Art.-No. 4000-68000-0910000	Art.-No. 4000-68000-1100000	Art.-No. 4000-68000-1110000	Art.-No. 4000-68000-1120000
<b>Description</b>	1 x RJ45 8-pol. metal, CAT5e 1 x RJ12 6-pol. plastic 2 x USB female/female (form A)	1 x RJ45 8-pol. metal, CAT5e 1 x RJ12 6-pol. plastic 1 x SUB-D25, female/male	1 x RJ45 8-pol. metal, CAT5e 1 x SUB-D9, female/female 1 x SUB-D9, male/male	1 x RJ45 8-pol. metal, CAT5e 1 x RJ12 6-pol. plastic 1 x SUB-D9, female/female
Shielded	yes	no	no	yes
Max. nominal voltage / nominal current	<b>RJ45</b> 48 V AC/DC / 1 A; <b>RJ12</b> 48 V AC/DC / 1 A; <b>USB</b> 30 V AC/DC / 1 A; <b>SUB-D</b> 125 V AC/150 V DC / 3 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup>			
Locking	<b>RJ45</b> staple for the bolt; <b>RJ12</b> staple for the bolt; <b>USB</b> snap-in; <b>SUB-D</b> UNC 4...40 bolt			
Specification	<b>RJ45</b> CAT5e (100 MHz resp. MBit/s); <b>USB</b> 2.0 / type 2dB; <b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	<b>RJ45</b> approx. 32 mm; <b>RJ12</b> approx. 32 mm; <b>USB</b> approx. 80 mm; <b>SUB-D</b> approx. 32 mm			

## Notes

# Modlink MSDD front panel interfaces

## Data connection inserts representative version

### USB F.-A



### USB F.-A; USB F.-A

### USB F.-A; SUB-D25



### USB F.-A; RJ45



Ordering data	Art.-No. 4000-68000-0920000	Art.-No. 4000-68000-0930000	Art.-No. 4000-68000-1010000	Art.-No. 4000-68000-1310000
Description	1 x USB female/female (form A)	2 x USB female/female (form A)	1 x USB female/female (form A) 1 x SUB-D25, female/male	1 x USB female/female (form A) 1 x RJ45 8-pol. metal, CAT5e
Shielded	yes			
Max. nominal voltage / nominal current	<b>USB</b> 30 V AC/DC / 1 A; <b>SUB-D</b> 125 V AC/150 V DC / 3 A; <b>RJ45</b> 48 V AC/DC / 1 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup>			
Locking	<b>USB</b> snap-in; <b>SUB-D</b> UNC 4...40 bolt; <b>RJ45</b> staple for the bolt			
Specification	<b>USB</b> 2.0 / type 2dB; <b>SUB-D</b> DIN41652/IEC807; <b>RJ45</b> CAT5e (100 MHz resp. MBit/s)			
Mounting depth assembled	<b>USB</b> approx. 80 mm; <b>SUB-D</b> approx. 32 mm; <b>RJ45</b> approx. 32 mm			

## Data connection inserts representative version

### USB F.-A; RJ45; RJ12







### USB F.-A; RJ45; SUB-D9 USB F.-A; RJ45; PS2; PS2







Ordering data	Art.-No. 4000-68000-0910000	Art.-No. 4000-68000-1430000	Art.-No. 4000-68000-1440000	Art.-No. 4000-68000-1530000
Description	2 x USB female/female (form A) 1 x RJ45 8-pol. metal, CAT5e 1 x RJ12 6-pol. plastic	1 x USB female/female (form A) 1 x RJ45 8-pol. metal, CAT5e 1 x SUB-D9, female/male	1 x USB female/female (form A) 1 x RJ45 8-pol. metal, CAT5e 1 x SUB-D9, female/female	1 x USB female/female (form A) 1 x RJ45 8-pol. metal, CAT5e 2 x PS2
Shielded	yes			
Max. nominal voltage / nominal current	<b>USB</b> 30 V AC/DC / 1 A; <b>RJ45</b> 48 V AC/DC / 1 A; <b>RJ12</b> 48 V AC/DC / 1 A; <b>SUB-D</b> 125 V AC/150 V DC / 3 A; <b>PS2</b> 30 V AC/DC / 1 A			
Max. wire diameter for soldering connection	<b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup> ; <b>PS2</b> AWG 24/0.22 mm <sup>2</sup>			
Locking	<b>USB</b> snap-in; <b>RJ45</b> staple for the bolt; <b>RJ12</b> staple for the bolt; <b>SUB-D</b> UNC 4...40 bolt; <b>PS2</b> snap-in			
Specification	<b>USB</b> 2.0 / type 2dB; <b>RJ45</b> CAT5e (100 MHz resp. MBit/s); <b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	<b>USB</b> approx. 80 mm; <b>RJ45</b> approx. 32 mm; <b>RJ12</b> approx. 32 mm; <b>SUB-D</b> approx. 32 mm; <b>PS2</b> approx. 32 mm			

Notes

# Modlink MSDD front panel interfaces

Data connection inserts representative version	PS2; PS2; SUB-D25	PS2; SUB-D15 HD	PS2; PS2; SUB-D15 HD	PS2; PS2; RJ45
				
Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
	4000-68000-1500000	4000-68000-0810000	4000-68000-0800000	4000-68000-1510000
Description	2 x PS2, 6-pol. soldering connection 1 x SUB-D25 female/male	1 x PS2, 6-pol. soldering connection 1 x 15 HD soldering connection, female (VGA)	2 x PS2, 6-pol. soldering connection 1 x 15 HD female/male (VGA)	2 x PS2, 6-pol. soldering connection 1 x RJ45 8-pol. metal, female/female
Shielded	no			
Max. nominal voltage / nominal current	<b>PS2</b> 30 V AC/DC / 1 A; <b>SUB-D</b> 125 V AC/150 V DC / 3 A; <b>SUB-D HD</b> 60 V AC/DC / 1.5 A; <b>RJ45</b> 48 V AC/DC / 1 A			
Max. wire diameter for soldering connection	<b>PS2</b> AWG 24/0.22 mm <sup>2</sup> ; <b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup>			
Locking	<b>PS2</b> snap-in; <b>SUB-D</b> UNC 4...40 bolt; <b>RJ45</b> staple for the bolt			
Specification	<b>SUB-D</b> DIN41652/IEC807; <b>RJ45</b> CAT5e (100 MHz est.MBit/s)			
Mounting depth assembled	<b>PS2</b> approx. 32 mm; <b>RJ45</b> approx. 32 mm; <b>SUB-D</b> approx. 32 mm			

Data connection inserts representative version	PS2; PS2; RJ45; USB F-A	BNC; BNC	BNC; RJ45; SUB-D9	BNC; RJ45; SUB-D9
				
Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
	4000-68000-1530000	4000-68000-1900000	4000-68000-1800000	4000-68000-1810000
Description	2 x PS2, 6-pol. soldering connection 1 x RJ45 8-pol. metal, CAT5e 1 x USB female/female (form A)	2 x BNC, female/female 1 x RJ45 8-pol. metal, CAT5e 1 x SUB-D9 female/male	1 x BNC, female/female 1 x RJ45 8-pol. metal, CAT5e 1 x SUB-D9 female/female	1 x BNC, female/female
Shielded	yes	no	yes	no
Max. nominal voltage / nominal current	<b>PS2</b> 30 V AC/DC / 1 A; <b>RJ45</b> 48 V AC/DC / 1 A; <b>USB</b> 30 V AC/DC / 1 A; <b>SUB-D</b> 125 V AC/150 V DC / 3 A;			
Max. wire diameter for soldering connection	<b>PS2</b> AWG 24/0.22 mm <sup>2</sup> ; <b>SUB-D</b> AWG 20/0.5 mm <sup>2</sup>			
Locking	<b>PS2</b> snap-in; <b>RJ45</b> staple for the bolt; <b>USB</b> snap-in; <b>SUB-D</b> UNC 4...40 bolt;			
Specification	<b>RJ45</b> CAT5e (100 MHz resp. MBit/s); <b>USB</b> 2.0 / type 2dB; <b>SUB-D</b> DIN41652/IEC807			
Mounting depth assembled	<b>PS2</b> approx. 32 mm; <b>RJ45</b> approx. 32 mm; <b>USB</b> approx. 80 mm; <b>SUB-D</b> approx. 32 mm			

Notes

## Blind plates

representative version

### Flat blind plates



FA<sup>US</sup>

### Deep blind plates



FA<sup>US</sup>

### Milled blind plates



Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
	<sup>1)</sup> 4000-68000-8900000	<sup>1)</sup> 4000-68000-8910000	<sup>1)</sup> 4000-68000-8500000	<sup>1)</sup> 4000-68000-8510000
Description	this free space enables self-installation of connectors or switches, free space 45 x 75 mm		this free space enables self-installation of connectors or switches, free space 34 x 58 mm, recessed 13 mm	
			1 x USB, 1 x RJ45, 1 x SUB-D9	1 x USB, 1 x RJ45, 1 x SUB-D25
Shielded	no	no	yes	yes

## Accessories

### Gender Changer



### Protection cap / Label plate



Ordering data	Art.-No.	Art.-No.
RJ45, female / female	<sup>1)</sup> 4000-68000-9040010	SUB-D9, female
USB, (form A)	<sup>1)</sup> 4000-68000-9040020	SUB-D9, male
SUB-D9, female / female	<sup>1)</sup> 4000-68000-9040030	SUB-D15, female
SUB-D9, female / male	<sup>1)</sup> 4000-68000-9040031	SUB-D25, female
SUB-D9, male / male	<sup>1)</sup> 4000-68000-9040032	Label plate
SUB-D15, female / male	<sup>1)</sup> 4000-68000-9040040	<sup>1)</sup> 4000-68000-9000000
SUB-D25, female / male	<sup>1)</sup> 4000-68000-9040051	
PS2, female / female	<sup>1)</sup> 4000-68000-9040060	
Description	For installation into building control cabinets. With suitable screws.	Material: Plastic

## Cables

representative version

### SUB-D25



### USB; RJ45



Ordering data	Art.-No.	Art.-No.
SUB-D9, 2 m, male/male	<sup>1)</sup> 4000-68000-9030010	USB (form A), 2 m, male/male
SUB-D9, 5 m, male/male	<sup>1)</sup> 4000-68000-9030011	USB (form A), 5 m, male/male
SUB-D9, 2 m, female/male	<sup>1)</sup> 4000-68000-9030020	RJ45, 2 m, 8/8-pol., metal, cat. 5e
SUB-D9, 5 m, female/male	<sup>1)</sup> 4000-68000-9030021	RJ45, 5 m, 8/8-pol., metal, cat. 5e
SUB-D25, 2 m, female/male	<sup>1)</sup> 4000-68000-9030040	<sup>1)</sup> 4000-68000-9030060
SUB-D25, 5 m, female/male	<sup>1)</sup> 4000-68000-9030041	<sup>1)</sup> 4000-68000-9030061
Technical Data		
Shielded	yes	

## Notes

<sup>1)</sup>Sold only as packaging unit – see price list.

## Safe supply – even in control panel

When temporary usage of manufacturing or measurement equipment, suitable plug sockets are necessary.

Easy mounting through DIN-rail. Country specific versions of plug sockets are available.

Plant components, which still have voltage after shut down the main circuit switch, needs to be marked as DIN VDE 0105-111 and IEC 204/EN 60204-1/DIN VDE 0113 part 1.

They appear as a yellow socket.

## Plug sockets



DIN-rail mountable plug sockets. German Norm (VDE)  
DIN-rail mounting to EN 60715  
With screw terminal and status indicator.

page 3.11.2



DIN-rail mountable plug sockets. French Norm (UTE) white, gray and orange.  
DIN-rail mounting to EN 60715  
With screw terminal and status indicator.

page 3.11.2



DIN-rail mountable plug sockets. American Norm (NEMA 5-15).  
DIN-rail mounting to EN 60715  
With screw terminal and status indicator.

page 3.11.2

# Plug sockets

## Plug sockets representative version

**D**

VDE



VDE

VDE

VDE

Ordering data	Art.-No. 67900	Art.-No. 67901	Art.-No. 67950	Art.-No. 676368
		gray	gray	orange
Technical data				
Input voltage	max. 250 V AC			
Supply voltage	max. 16 A			
Status indicator	–	gray	–	gray
Connection	screw terminals max. 6 mm <sup>2</sup> , connection in front			
Mounting method	DIN-rail mounting EN 60715			
Dimensions (H x W x D)	77 x 45 x 70 mm			

## Plug sockets representative version

**F**

UTE



UTE

UTE

Ordering data	Art.-No. 67910	Art.-No. 67911	Art.-No. 676370
		gray	orange
Technical data			
Input voltage	max. 250 V AC		
Supply voltage	max. 16 A		
Status indicator	–	gray	gray
Connection	screw terminals max. 6 mm <sup>2</sup> , connection in front		
Mounting method	DIN-rail mounting EN 60715		
Dimensions (H x W x D)	77 x 45 x 70 mm		

## Plug sockets representative version

**USA**

NEMA 5-15



NEMA 5-15



USA 2-way <sup>1)</sup>

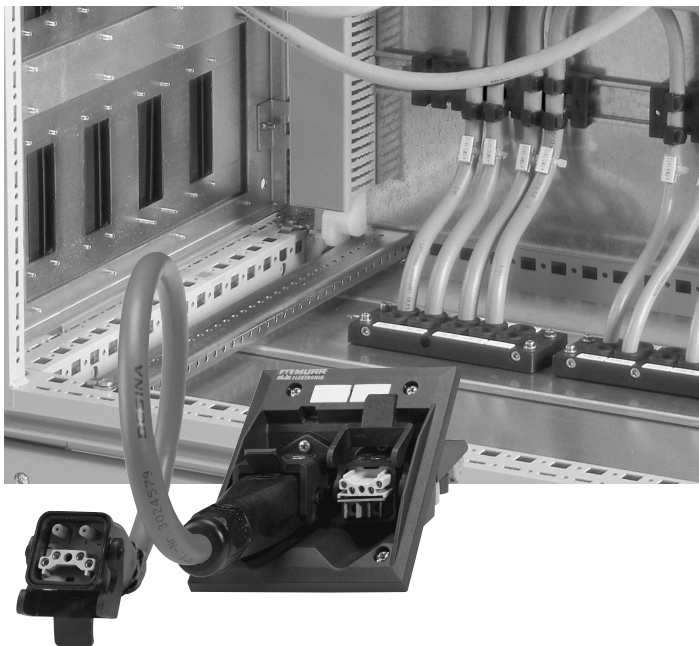


Ordering data	Art.-No. 676166	Art.-No. 676152	Art.-No.
			USA-GFCI (2 x NEMA 5-15R) <b>67980</b>
			USA-GFCI (2 x NEMA 5-20R) <b>67981</b>
			USA (2 x NEMA 5-15R) <b>67982</b>
			USA (2 x NEMA 5-20R) <b>67983</b>
Technical data			
Input voltage	max. 110 V AC		max. 125 V AC
Supply voltage	max. 16 A		max. 15 A or 20 A <sup>2)</sup>
Status indicator	gray		
Connection	screw terminals max. AWG14 (2.5 mm <sup>2</sup> )		screw terminals max. 6 mm <sup>2</sup> , connection in front
Mounting method	DIN-rail mounting EN 60715		
Dimensions (H x W x D)	77 x 45 x 58 mm		135 x 75 x 65 mm

## Notes

<sup>1)</sup> Vertical or horizontal mounting.

<sup>2)</sup> Every socket can be loaded with 20 A. Total current of both plug sockets must be less than 30 A.



## MSDD – Switch cabinet entry system

The MSDD switch cabinet entry system provides a simple transition from switch cabinet or IP20 terminal box (inside) to field bus environment IP67 (outside).

### Fast connection to IP67

- double clamps for both power input and signal transmission
- IP67
- separate connection for power cable and signal cable

## MSDD – Cable entry system

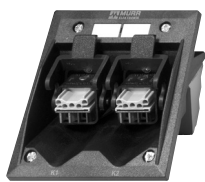
The MSDD cable entry system is a combination of a cable entry system, a terminal profile with integrated strain relief for max. 10 cables and a cable securing rail. However, the outstanding technical advantage is the consistent divisibility of the system. This allows prefabricated cables or lines to be retrofitted.

Next to the extensive product program of all common cable types (also AS-Interface) the MSDD cable entry system also meets the requirements of strain relief and labelling. The blind plates can be used for unused cabinet cutouts (same size as Harting HAN 24 and 16). Blind plates are equipped with an integrated grommet. With the help of the adapter plate cutouts with the size of 24 can be prepared for the MSDD cable entry system. In order to guarantee a sealed connection there is a circular grommet integrated on the back side of the plate. In case you do not need all of the holes, blind caps ensure your planned reserve. Altogether a universal system.

### No interruption of cable

- cost reduction due to the use of pre-wired cables
- ease to assemble
- cable identification due to labelling capability
- no special cutting tool necessary

## MSDD – Switch cabinet entry system

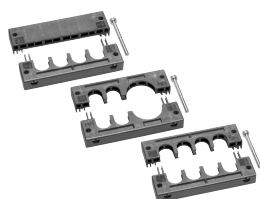


Switch cabinet entry system for pluggable connection between control panel and field bus surrounding.

- Hybrid field bus connection socket copper/copper and copper/F.O.
- Profi bus connection socket M12, 7/8" connector.
- Blind cap for specific requirements.

page 3.12.2

## MSDD – Cable entry system



- Cut off free cable conduct
- Cable entry modules
  - Cable entry glands
  - Cable plates
  - Cable string and cable plates

from page 3.12.3

## Control panel coupling

CU, RS485

CU, CU



Ordering data	Art.-No.	Art.-No.
Power input, spring clamp terminals, female/female	<b>67593</b>	Power input, spring clamp terminals female/female (passive) <b>67598</b>
Power input, spring clamp terminals, male/female	<b>67586</b>	Power input, spring clamp terminals male/female (passive) <b>67599</b>
Technical data		
Shielded	no	
Nominal voltage/Supply current	24 V DC (18.0...36.0 V)/max. 10 A	
Data rates	max. 12 Mbit/s	
F.O. Component	versatile link modules for F.O.-wire 1 mm (POF), 200... (HCS)	
Field bus coupling (IP67)	Han-Brid <sup>1)</sup>	
Input voltage supply	spring clamp terminals, single core to stranded 0.25...2.5 mm <sup>2</sup>	
Material housing	retardant plastic, resistant against standard cooling and lubricating agents	
Temperature range	-25...+50 °C	
Dimensions (H x W x D)	103 x 93 x 65 mm (mounting area (inside) H x W: 90 x 80 mm)	

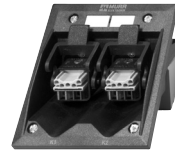
## Control panel coupling

F.O., RS485

F.O., RS485

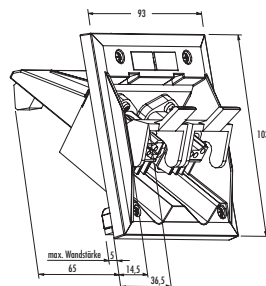
Profibus

Blind plate



Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
Power input, spring clamp terminals, female/female	<b>67591</b>	signal transmission, spring clamp terminals, male/female <b>67587</b>	M12, 7/8" and B-coded female/male <b>67254</b>	Installation area for self-installation of connectors or switches <b>676364</b>
Technical data				
Shielded	no			
Nominal voltage/Supply current	24 V DC (18.0...36.0 V)/max. 10 A			
Data rates	max. 12 Mbit/s			
F.O. Component	versatile link modules for F.O.-wire 1 mm (POF), 200... (HCS)			
Field bus coupling (IP67)	Han-Brid <sup>1)</sup>			
Input voltage supply	spring clamp terminals, single core to stranded 0.25...2.5 mm <sup>2</sup>			
Material housing	retardant plastic, resistant against standard cooling and lubricating agents			
Temperature range	-25...+50 °C			
Dimensions (H x W x D)	103 x 93 x 65 mm (mounting area (inside) H x W: 90 x 80 mm)			

## Dimensions



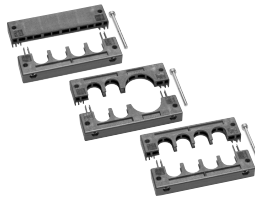
## Notes

<sup>1)</sup> Han-Brid<sup>®</sup> is a registered trademark of HARTING KGaA.

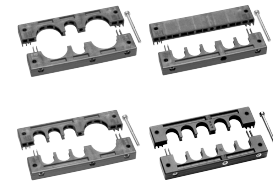
# Switch cabinet and cable entry system

## Cable entry modules

### size 16



### size 24



Ordering data	Art.-No.	Art.-No.
size 16 for 4 cables 0 large, 4 small	<b>4000-70102-0004000</b>	size 24 for 4 cables 2 large, 2 small <b>4000-70102-0202000</b>
size 16 for 5 cables 1 large, 4 small	<b>4000-70102-0104000</b>	size 24 for 5 cables 0 large, 5 small <b>4000-70102-0005000</b>
size 16 for 8 cables 0 large, 8 small	<b>4000-70102-0008000</b>	size 24 for 7 cables 1 large, 6 small <b>4000-70102-0106000</b>
		size 24 for 10 cables 0 large, 10 small <b>4000-70102-0010000</b>
Technical data		
Material	polyamide	
Temperature range	-40...+120 °C	
Fire class	to UL94: V0 / self-extinguishing	
Toxicity	halogen free	
Protection	IP54 with sealing and correct choice of the feed through gland	

## Blind plates/Adapter plates

### Blind plates

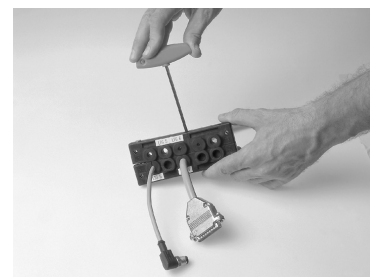
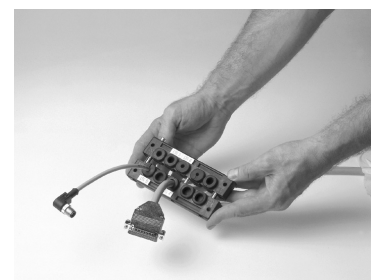
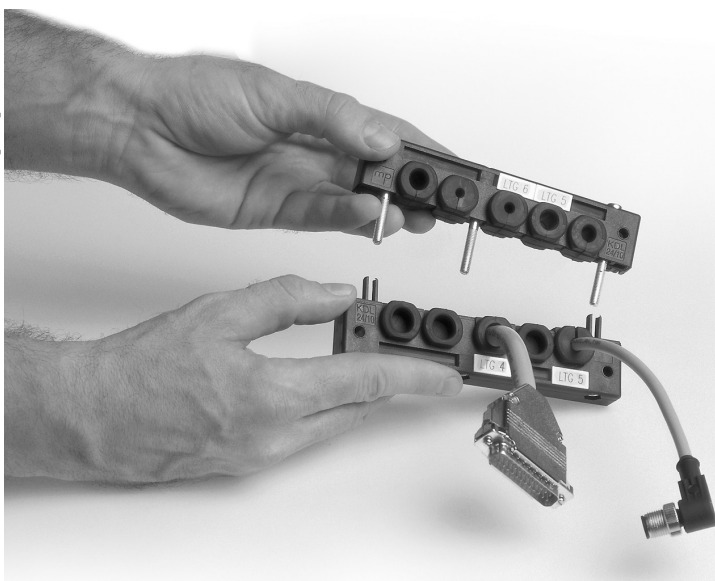


### Adapter plates





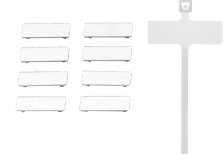


Ordering data	Art.-No.	Art.-No.
blind plates for size 16	<b>4000-70202-0001000</b>	adapter plates from size 24 to 16 <b>4000-70202-0100000</b>
Technical data		
Material	polyamide	
Temperature range	-40...+120 °C	
Fire class	to UL94: V0 / self-extinguishing	
Toxicity	halogen free	
Protection	IP54 with sealing and correct choice of the feed through gland	

Switch cabinet and cable entry system



Notes

Feed through glands, round	Description	Technical data	Art.-No.
 <p>with cable tie eye</p>	small, cable diameter Ø 3-4 mm small, cable diameter Ø 4-5 mm small, cable diameter Ø 5-6 mm small, cable diameter Ø 6-7 mm small, cable diameter Ø 7-8 mm small, cable diameter Ø 8-9 mm small, cable diameter Ø 9-10 mm small, cable diameter Ø 10-11 mm small, cable diameter Ø 11-12 mm small, cable diameter Ø 12-13 mm small, cable diameter Ø 13-14 mm small, cable diameter Ø 14-15 mm small, cable diameter Ø 15-16 mm small, cable diameter Ø 16,5 mm large, cable diameter Ø 16-17 mm large, cable diameter Ø 17-18 mm large, cable diameter Ø 18-19 mm large, cable diameter Ø 19-20 mm large, cable diameter Ø 20-21 mm large, cable diameter Ø 21-22 mm large, cable diameter Ø 22-23 mm large, cable diameter Ø 23-24 mm large, cable diameter Ø 24-25 mm large, cable diameter Ø 25-26 mm large, cable diameter Ø 26-27 mm large, cable diameter Ø 27-28 mm large, cable diameter Ø 28-29 mm large, cable diameter Ø 29-30 mm large, cable diameter Ø 30-31 mm	Material: thermoplastic rubber Temperature range: -40...+120 °C Fire class to UL94: HB	<sup>1)</sup> 4000-70402-0001030 <sup>1)</sup> 4000-70402-0001040 <sup>1)</sup> 4000-70402-0001050 <sup>1)</sup> 4000-70402-0001060 <sup>1)</sup> 4000-70402-0001070 <sup>1)</sup> 4000-70402-0001080 <sup>1)</sup> 4000-70402-0001090 <sup>1)</sup> 4000-70402-0001100 <sup>1)</sup> 4000-70402-0001110 <sup>1)</sup> 4000-70402-0001120 <sup>1)</sup> 4000-70402-0001130 <sup>1)</sup> 4000-70402-0001140 <sup>1)</sup> 4000-70402-0001150 <sup>1)</sup> 4000-70402-0001160 <sup>1)</sup> 4000-70402-0100160 <sup>1)</sup> 4000-70402-0100170 <sup>1)</sup> 4000-70402-0100180 <sup>1)</sup> 4000-70402-0100190 <sup>1)</sup> 4000-70402-0100200 <sup>1)</sup> 4000-70402-0100210 <sup>1)</sup> 4000-70402-0100220 <sup>1)</sup> 4000-70402-0100230 <sup>1)</sup> 4000-70402-0100240 <sup>1)</sup> 4000-70402-0100250 <sup>1)</sup> 4000-70402-0100260 <sup>1)</sup> 4000-70402-0100270 <sup>1)</sup> 4000-70402-0100280 <sup>1)</sup> 4000-70402-0100290 <sup>1)</sup> 4000-70402-0100300
<b>Special feed through glands</b> 	<b>Description</b> blind gland small blind gland large adapter large and small gland, small for AS-Interface cables gland, small for 2 AS-Interface cables	<b>Technical data</b> Material: thermoplastic rubber Temperature range: -40...+120 °C Fire class to UL94: HB	<b>Art.-No.</b> <sup>1)</sup> 4000-70502-0001010 <sup>1)</sup> 4000-70502-0100010 <sup>1)</sup> 4000-70502-0100020 <sup>1)</sup> 4000-70502-0001020 <sup>1)</sup> 4000-70502-0001030
<b>Cable strain relief</b> 	<b>Description</b> for 1 cable for 5 cables for 9 cables	<b>Technical data</b> Material: polyamide Temperature range: -40...+120 °C Fire class to UL94: V0 Toxicity: halogen free DIN-rail mounting EN 60715	<b>Art.-No.</b> 4000-70302-0000010 4000-70302-0000050 4000-70302-0000090
<b>Cable tie</b> 	<b>Description</b> for glands small L = 75 mm for glands large L = 160 mm for cable strain relief L = 180 mm resistance oil and mould	<b>Technical data</b> Material: polyamide 6.6 UV stabilized Temperature range: -25...+85 °C Fire behaviour: self-extinguishing	<b>Art.-No.</b> <sup>1)</sup> 4000-70902-0075220 <sup>1)</sup> 4000-70902-0160450 <sup>1)</sup> 4000-70902-0180800
<b>Label plates</b> 	<b>Description</b> cable tie plate label plate 20 x 9	<b>Technical data</b> Material: polyamide 6.6 Temperature range: -25...+85 °C	<b>Art.-No.</b> <sup>1)</sup> 4000-70912-0100230 <sup>1)</sup> 4000-70920-0000000
<b>Notes</b>	<sup>1)</sup> Sales only as packaging unit - see price list.		