

Sensor-actuator cabling and circular connectors

Version 2025



Weidmüller 

Sensor-actuator cabling and circular connectors

Catalogue 8

Sensor-actuator cabling and circular connectors Product Innovations – Sensor-actuator Interface

M8, M12 and valve plug cord sets

M8, M12 Plug-in connectors and protective caps

M12 POWER (A-, S-, K-, L- and T-coded)

Passive distribution boxes

Distribution boxes with integrated logic

Ex distribution boxes

Weidmüller Industry Light (WIL)

JACKPAC® (IP67)

7/8" connectors

M23 Connectors and cables

Data cables, data plug-in connectors and Remote I/O modules

Tools and markers

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Twin sensor cables
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M8, M12 Plug-in connectors and protective caps

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M12 POWER (A-, S-, K-, L- and T-coded)

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Screw connection M12

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Insulation displacement connection

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Crimp connection M12

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Customisable panel feed-through

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M12 Power supply distribution boxes 24 V DC T-coded

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Passive distribution boxes

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Distribution boxes with integrated logic

AND operation

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AND + OR operation

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EX distribution boxes

M12 Ex

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WIL – Weidmüller Industry Light

WIL-V

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WIL-L 5700K

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WIL-E colour alternative

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WIL-S 6500K

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JACKPAC® (IP67)

JACKPAC®

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JACKPAC® galvanic signal isolation

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JACKPAC® test

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Empty housing SAI JACKPAC®

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7/8" connectors

Screw connection M12

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Screw connection M8

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PUSH IN connection M12

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M23 Connectors and cables

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Built-in connectors for signal transmission

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Contacts for signal transmission

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Housings for power transmission

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Built-in connectors for power transmission

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Inserts for power transmission

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Contacts for power transmission

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Moulded M23 cables

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SAI distribution boxes with M23

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Remote I/O data cables – Plug-in connectors and modules

PROFIBUS-DP - cables

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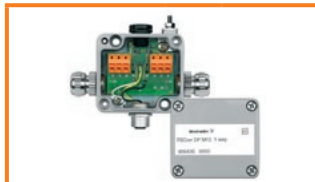
PROFIBUS-DP - plug-in connector

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PROFIBUS-DP - FBCon T-distributor

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PROFIBUS-PA - cables

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PROFIBUS-PA - plug-in connector

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PROFIBUS-PA - FBCon T-distributor

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PROFIBUS-PA - FBCon T-distributor with surge protection

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PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)

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CANopen & DeviceNet™ - cables

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CANopen & DeviceNet™ - plug-in connector

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CAN-BUS D-Sub – plug-in connector

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Ethernet - cables

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Ethernet - plug-in connector

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FOUNDATION Fieldbus - plug-in connector (7/8")

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Accessories cable glands

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Tools and markers

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Cutting tools

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Sheathing and insulation stripping tools

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Crimping tools

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Identification systems

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Service and support

Service connects – worldwide

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- Service connects – worldwide
- Engineering services and customised products
- easyConnect – Your Industrial Service Platform
- Support Center
- Additional support services
- Weidmüller Configurator

Digital ordering options

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Purchasing made easy:

- Weidmüller eShop
- OCI interface
- EDI interface

Product Innovations

Product Innovations	Overview of innovations	A.2
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Overview of innovations



Ex-approved M12 distribution boxes

- Standardised distribution boxes for explosionprotected area
- ATEX and IECEx approval for Zone 1 (intrinsically safe circuit)
- Three different wiring variants:
Two-wire connection, 1:1 and standard PNP
- Variants with plastic and zinc diecast hood
- Fast and reliable contacting via PUSH IN connection technology



Customised lighting goes industrial – the new WIL-Vario!

- Robust aluminium housing and fully encapsulated
- Controlled by WS2812B protocol
- Colour and brightness of each LED is individually adjustable
- Attachable without gaps



Perfect lighting for your workspace

- Mini light with 9 cm length
- Boost function and 1.5h runtime
- Magnet in the stand and belt clip
- Rechargeable with USB-C connection (cable included)

Info: Only for the European market!
Further information can be found at
eshop.weidmueller.com



Are you already a Weidmüller customer?

Then why not order your M12 or M8 cables from us!

Weidmüller supplies an extremely wide range of M12 and M8 cables, naturally with our proven Weidmüller quality assurance.

To answer as many demands as possible, we offer:

- PUR and PVC cables, as well as cables resistant to welding sparks
- A, B, D, K, L, S and T-coded cables
- Black, yellow and blue cables
- Shielded and unshielded cables

Of course, with very short delivery times and best conditions. Please do not hesitate to contact us for a quote or to receive further information.



M8, M12 and valve plug cord sets

M8, M12 and valve plug cord sets	Introduction	B.2
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SAI cable

In an increasingly digital environment, the reliable transmission of power, signals and data requires the rapid availability of standardised cabling solutions and the development of individual special cables.

Irrespective of whether you require signal cables for sensor lines or data cables for Ethernet lines with different mating profiles – Weidmüller offers the right solution for every field of application.

We offer a wide range of products in this category:

- Standard cables from the catalogue
- Customer-specific variants with custom cable lengths, connecting plugs, markings or colours



Sensor cables from Weidmüller: shown here with yellow and black cables, together with bus cables



Easy to identify

The EAN number on each label can be scanned in.



Resistant to vibration

Cables with vibration resistance



High quality

Compatible for use in robots;
with recyclable, halogen-free cables



Versatile

Customised cables



One end without connector



Connecting cables

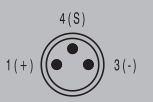
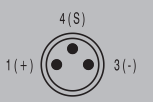
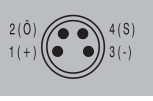
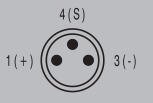


Valve cables



Connection cables / bus cables

Overview of sensor cables

		No. of poles	Cable material	One end free		M8 socket	
				straight			
One end free			1.5 m				
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
M8 plug	straight		1.5 m				
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
	90°		1.5 m				
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
M12 plug	straight		1.5 m				
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
	90°		1.5 m				
			3.0 m				
			5.0 m				
			10.0 m				
			variable				

Preferred types / extracted from the complete line. Please make a separate enquiry for information about the M8 snap-on version, twin cabling and others.

M8 socket

straight

PUR
halogen-free

PVC

9457850150	1927260150
9457850300	1927260300
9457850500	1927260500
9457851000	1927261000
	1927260000

90°

PUR
halogen-free

PVC

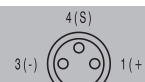
9457380150	1927320150
9457380300	1927320300
9457380500	1927320500
9457381000	1927321000
9457380000	1927320000

PUR
halogen-free

PVC

9456150150	1927340150
9456150300	1927340300
9456150500	1927340500
9456151000	1927341000
9456150000	1927340000

90° angle with 2 LEDs

PUR
halogen-free

PVC

9457460150	1927350150
9457460300	1927350300
9457460500	1927350500
9457461000	1927351000
9457460000	1927350000

On request

On request

1880470150	1927160150
1880470300	1927160300
1880470500	1927160500
1880471000	1927161000
1880470000	1927160000

On request

On request

1535470150	On request
1535470300	
1535470500	

1824580150	1927170150
1824580300	1927170300
1824580500	1927170500
1824581000	1927171000
1824580000	1927170000

On request

On request

1857670150	1927210150
1857670300	1927210300
1857670500	1927210500
1857671000	1927211000
1857670000	1927210000

On request

On request

On request

On request

1857660150	1927180150
1857660300	1927180300
1857660500	1927180500
1857661000	1927181000
1857660000	1927180000

On request

On request

1857680150	1927220150
1857680300	1927220300
1857680500	1927220500
1857681000	1927221000
1857680000	1927220000

1877250150	1927190150
1877250300	1927190300
1877250500	1927190500
1877251000	1927191000
1877250000	1927190000

On request

On request

On request

On request

On request

On request

On request

On request

9456660150	1938200150
9456660300	1938200300
9456660500	1938200500
9456661000	1938201000
9456660000	1938200000

On request

On request

9457980150	1938180150
9457980300	1938180300
9457980500	1938180500
9457981000	1938181000
9457980000	1938180000

On request

On request

On request

On request

On request

On request

9456670150	1938210150
9456670300	1938210300
9456670500	1938210500
9456671000	1938211000
9456670000	1938210000

On request

On request

9457760150	On request
9457760300	
9457760500	
9457761000	
9457760000	

On request

On request

On request

On request

On request

On request

1437510150	On request
1437510300	
1437510500	
1437511000	

On request

On request

1906330150	1938190150
1906330300	1938190300
1906330500	1938190500
1906331000	1938191000
1906330000	1938190000

On request

On request

On request

On request

On request

On request

1906340150	1938220150
1906340300	1938220300
1906340500	1938220500
1906341000	1938221000
1906340000	1938220000

On request

On request

On request

On request

On request

On request

On request

On request

Overview of sensor cables

M12 socket						
straight						
						
						
Cable material			PUR halogen-free	PVC	PUR halogen-free	PVC
One end free			1.5 m	9457820150	1925570150	9457730150
			3.0 m	9457820300	1925570300	9457730300
			5.0 m	9457820500	1925570500	9457730500
			10.0 m	9457821000	1925571000	9457731000
			variable	9457820000	1925570000	9457730000
M8 plug	straight		1.5 m	1937950150	1938230150	On request
			3.0 m	1937950300	1938230300	
			5.0 m	1937950500	1938230500	
			10.0 m	1937951000	1938231000	
			variable	1937950000	1938230000	
	90°		1.5 m	On request	On request	On request
			3.0 m			
			5.0 m			
			10.0 m			
			variable			
M12 plug	straight		1.5 m	On request	On request	On request
			3.0 m			
			5.0 m			
			10.0 m			
			variable			
	90°		1.5 m	On request	On request	On request
			3.0 m			
			5.0 m			
			10.0 m			
			variable			
	straight		1.5 m	9457230150	1925300150	On request
			3.0 m	9457230300	1925300300	
			5.0 m	9457230500	1925300500	
			10.0 m	9457231000	1925301000	
			variable	9457230000	1925300000	
	90°		1.5 m	On request	On request	On request
			3.0 m			
			5.0 m			
			10.0 m			
			variable			
	straight		1.5 m	On request	On request	On request
			3.0 m			
			5.0 m			
			10.0 m			
			variable			
	90°		1.5 m	On request	On request	On request
			3.0 m			
			5.0 m			
			10.0 m			
			variable			
	straight		1.5 m	1821050150	On request	On request
			3.0 m	1821050300		
			5.0 m	1821050500		
			10.0 m	1821051000		
			variable	1821050000		
	90°		1.5 m	On request	On request	On request
			3.0 m			
			5.0 m			
			10.0 m			
			variable			
	straight		1.5 m	On request	On request	On request
			3.0 m			
			5.0 m			
			10.0 m			
			variable			
	90°		1.5 m	On request	On request	On request
			3.0 m			
			5.0 m			
			10.0 m			
			variable			

M12 socket

straight

PUR
halogen-free

PVC

9457910150	1925590150
9457910300	1925590300
9457910500	1925590500
9457911000	1925591000
9457910000	1925590000

90°

PUR
halogen-free

PVC

9457320150	1925630150
9457320300	1925630300
9457320500	1925630500
9457321000	1925631000
9457320000	1925630000

PUR
halogen-free

PVC

9457740150	1925640150
9457740300	1925640300
9457740500	1925640500
9457741000	1925641000
9457740000	1925640000

PUR
halogen-free

PVC

9457690150	1925650150
9457690300	1925650300
9457690500	1925650500
9457691000	1925651000
9457690000	1925650000

On request

On request

On request

On request

On request

On request

On request

On request

1937960150	1938240150
1937960300	1938240300
1937960500	1938240500
1937961000	1938241000
1937960000	1938240000

On request

On request

1937970150	1938250150
1937970300	1938250300
1937970500	1938250500
1937971000	1938251000
1937970000	1938250000

On request

On request

On request

On request

1937990150	1938270150
1937990300	1938270300
1937990500	1938270500
1937991000	1938271000
1937990000	1938270000

On request

On request

1938000150	1938280150
1938000300	1938280300
1938000500	1938280500
1938001000	1938281000
1938000000	1938280000

On request

On request

9457310150	1925350150
9457310300	1925350300
9457310500	1925350500
9457311000	1925351000
9457310000	1925350000

On request

On request

1815670150	1925380150
1815670300	1925380300
1815670500	1925380500
1815671000	1925381000
1815670000	1925380000

On request

On request

1906310150	1925390150
1906310300	1925390300
1906310500	1925390500
1906311000	1925391000
1906310000	1925390000

On request

On request

On request

On request

On request

On request

On request

On request

On request

On request

On request

On request

On request

On request

9457270150	1925360150
9457270300	1925360300
9457270500	1925360500
9457271000	1925361000
9457270000	1925360000

On request

On request

On request

On request

9457900150	1925400150
9457900300	1925400300
9457900500	1925400500
9457901000	1925401000
9457900000	1925400000

				M12 socket				
				90° angle with 2 LEDs				
				No. of poles				
				Cable material	PUR halogen-free	PVC	PUR halogen-free	PVC
				1.5 m	9457800150	1925460150	9456380150	1925470150
				3.0 m	9457800300	1925460300	9456380300	1925470300
				5.0 m	9457800500	1925460500	9456380500	1925470500
				10.0 m	9457801000	1925461000	9456381000	1925471000
				variable	9457800000	1925460000	9456380000	1925470000
M8 plug	straight			1.5 m	On request	On request	On request	On request
				3.0 m				
				5.0 m				
				10.0 m				
			variable					
	90°			1.5 m	On request	On request	On request	On request
				3.0 m				
				5.0 m				
		10.0 m						
		variable						
M12 plug	straight			1.5 m	9457790150	1925410150	On request	On request
				3.0 m	9457790300	1925410300		
				5.0 m	9457790500	1925410500		
				10.0 m	9457791000	1925411000		
				variable	9457790000	1925410000		
	90°			1.5 m	On request	On request	On request	On request
				3.0 m				
				5.0 m				
				10.0 m				
				variable				

Cables with connector at one end only

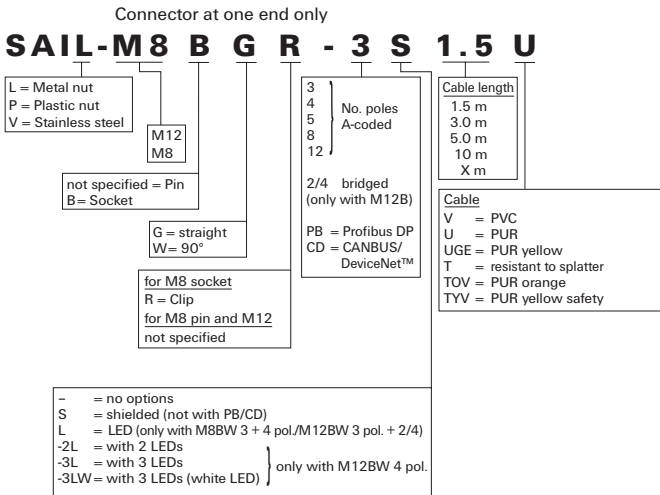


We offer a wide range of products in this category:

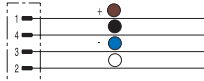
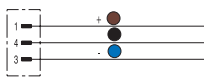
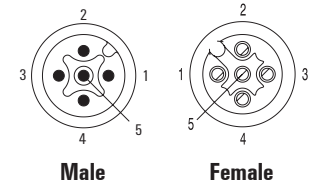
- Straight and angled plug-in connectors with optional LED status indicator
- Various numbers of poles: 3, 4, 5, 8 and 12 poles
- Different cable diameters from 0.25 mm² to 0.75 mm²
- Both PVC and PUR cables; the latter are suitable for use in drag chains

Weidmüller offers cables in standard lengths of 1.5 m, 3 m, 5 m and 10 m. **All other lengths are available on request!**

Example of designation



One end without connector
M12
A-coded



Ordering data

Male, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Welding spark resistant halogen-free	1.5 m
Male, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Welding spark resistant halogen-free	1.5 m
Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Welding spark resistant halogen-free	1.5 m
Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Welding spark resistant halogen-free	1.5 m
Note	

3-pole	
SAIL-M12G-3-1.5V	1925430150
SAIL-M12G-3-1.5U	9457810150
SAIL-M12G-3-1.5UGE	1092980150
SAIL-M12G-3-1.5T	1021750150
SAIL-M12W-3-1.5V	1925510150
SAIL-M12W-3-1.5U	9456690150
SAIL-M12W-3-1.5UGE	1093160150
SAIL-M12W-3-1.5T	1021760150
SAIL-M12BG-3-1.5V	1925570150
SAIL-M12BG-3-1.5U	9457820150
SAIL-M12BG-3-1.5UGE	1092910150
SAIL-M12BG-3-1.5T	1968590150
SAIL-M12BW-3-1.5V	1925630150
SAIL-M12BW-3-1.5U	9457320150
SAIL-M12BW-3-1.5UGE	1092940150
SAIL-M12BW-3-1.5T	1968560150
Other lengths on request	

4-pole	
SAIL-M12G-4-1.5V	1925440150
SAIL-M12G-4-1.5U	9456100150
SAIL-M12G-4-1.5UGE	1077750150
SAIL-M12G-4-1.5T	1021770150
SAIL-M12W-4-1.5V	1925520150
SAIL-M12W-4-1.5U	1906260150
SAIL-M12W-4-1.5UGE	1093170150
SAIL-M12W-4-1.5T	1021790150
SAIL-M12BG-4-1.5V	1925580150
SAIL-M12BG-4-1.5U	9457730150
SAIL-M12BG-4-1.5UGE	1092920150
SAIL-M12BG-4-1.5T	1968580150
SAIL-M12BW-4-1.5V	1925640150
SAIL-M12BW-4-1.5U	9457740150
SAIL-M12BW-4-1.5UGE	1092960150
SAIL-M12BW-4-1.5T	1968570150
Other lengths on request	

5-pole	
SAIL-M12G-5-1.5V	1925450150
SAIL-M12G-5-1.5U	9457610150
SAIL-M12G-5-1.5UGE	1092990150
SAIL-M12G-5-1.5T	1021650150
SAIL-M12W-5-1.5V	1925530150
SAIL-M12W-5-1.5U	9457670150
SAIL-M12W-5-1.5UGE	1093180150
SAIL-M12W-5-1.5T	1021660150
SAIL-M12BG-5-1.5V	1925590150
SAIL-M12BG-5-1.5U	9457910150
SAIL-M12BG-5-1.5UGE	1092930150
SAIL-M12BG-5-1.5T	1021670150
SAIL-M12BW-5-1.5V	1925650150
SAIL-M12BW-5-1.5U	9457690150
SAIL-M12BW-5-1.5UGE	1092970150
SAIL-M12BW-5-1.5T	1021690150
Other lengths on request	

Standard cable lengths

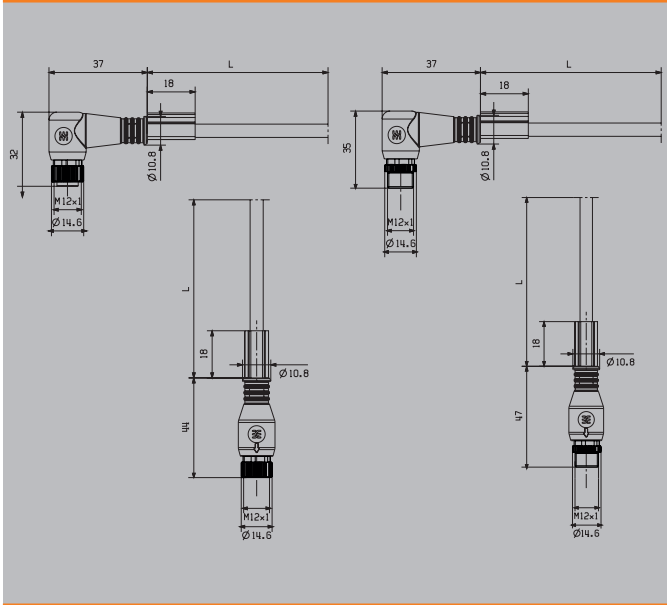
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus

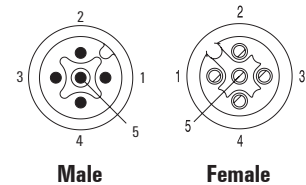
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

One end without connector
M12
A-coded
with plastic threaded ring



		3-pole		4-pole		5-pole	
Male, straight							
PUR halogen-free	1.5 m	SAIP-M12G-3-1.5U	1108800150	SAIP-M12G-4-1.5U	1108810150	SAIP-M12G-5-1.5U	1108820150
Male, angled							
PUR halogen-free	1.5 m	SAIP-M12W-3-1.5U	1108670150	SAIP-M12W-4-1.5U	1108680150	SAIP-M12W-5-1.5U	1108690150
Female, straight							
PUR halogen-free	1.5 m	SAIP-M12BG-3-1.5U	1108730150	SAIP-M12BG-4-1.5U	1108740150	SAIP-M12BG-5-1.5U	1108750150
Female, angled							
PUR halogen-free	1.5 m	SAIP-M12BW-3-1.5U	1108770150	SAIP-M12BW-4-1.5U	1108780150	SAIP-M12BW-5-1.5U	1108790150
Note		Other lengths on request		Other lengths on request		Other lengths on request	

Standard cable lengths

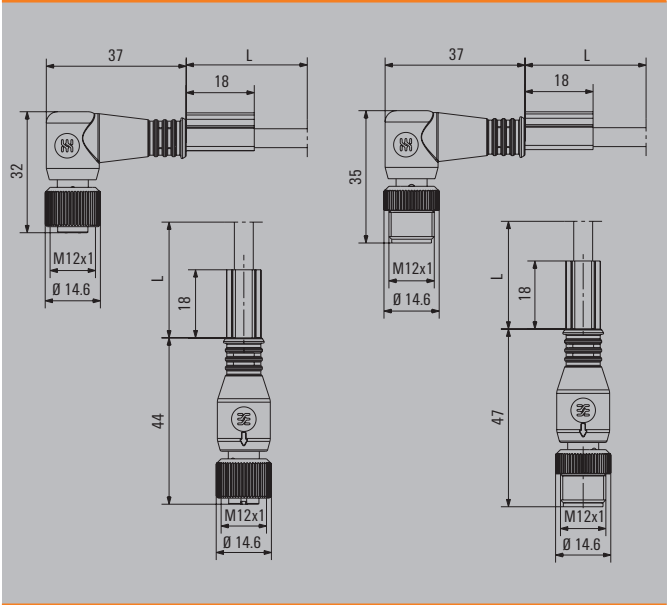
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

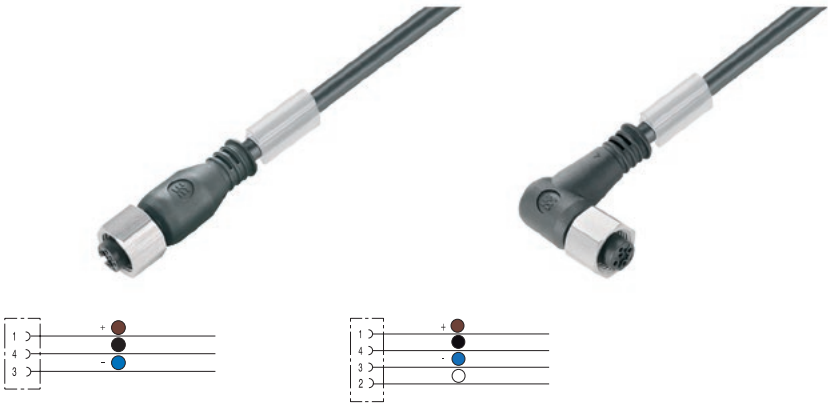
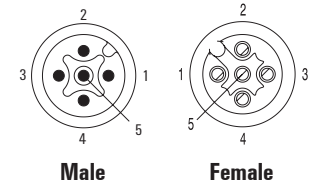
Core cross-section	0.34 mm²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	
Tightening torque	M12 (plastic nut): 0.6 - 0.8 Nm
Approvals	CE, cULus, UKCA

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



One end without connector
M12
A-coded
with stainless steel thread and
bridge between pin 2 and 4
1.4404/316L



Ordering data		3-pole		4-pole	
Female, straight					
PUR halogen-free	1.5 m	SAIV-M12BG-2/4-1.5U	1939410150	SAIV-M12BG-4-1.5U	9457950150
Female, angled					
PUR halogen-free	1.5 m	SAIV-M12BW-2/4-1.5U	1939370150	SAIV-M12BW-4-1.5U	9457960150
Note		Other lengths on request		Other lengths on request	

Standard cable lengths

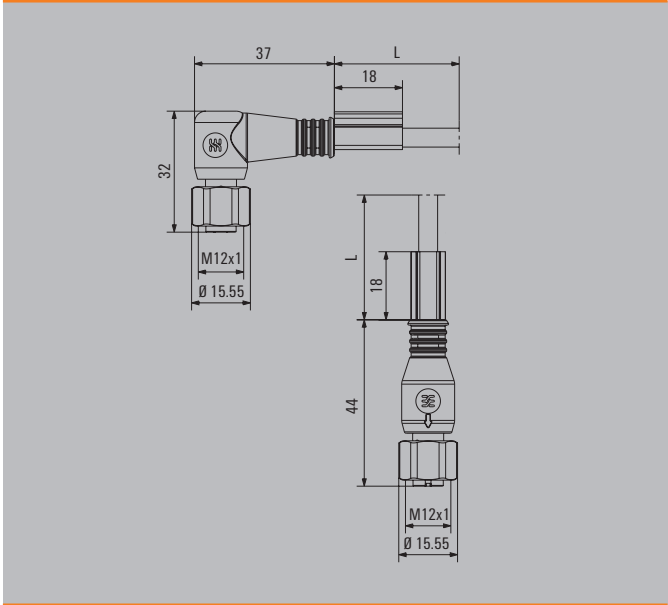
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm²
Rated voltage	250 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	14
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus; UKCA

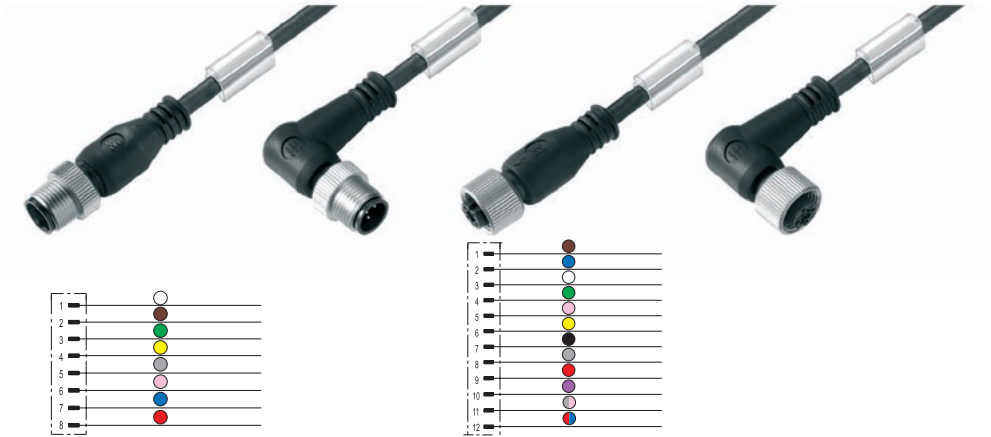
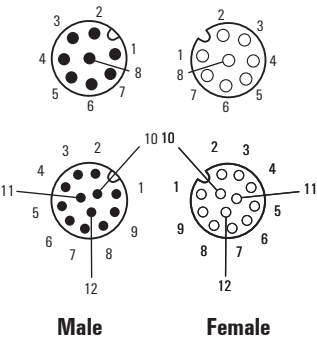
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

One end without connector
M12
A-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
Male, angled	
PUR halogen-free	1.5 m
Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Male, straight - female, straight	
PUR halogen-free	1.5 m
Male, straight - female, angled	
PUR halogen-free	1.5 m
Note	

	8-pole
SAIL-M12G-8-1.5U	1279410150
SAIL-M12W-8-1.5U	1279420150
SAIL-M12BG-8-1.5U	1865870150
SAIL-M12BW-8-1.5U	1883460150
SAIL-M12GM12G-8-1.5U	1279440150
SAIL-M12GM12W-8-1.5U	1279450150
Other lengths on request	

	12-pole
SAIL-M12G-12-1.5U	1311700150
SAIL-M12W-12-1.5U	1311690150
SAIL-M12BG-12-1.5U	1879710150
SAIL-M12BW-12-1.5U	1898240150
SAIL-M12GM12G-12-1.5U	1964400150
Other lengths on request	

Standard cable lengths

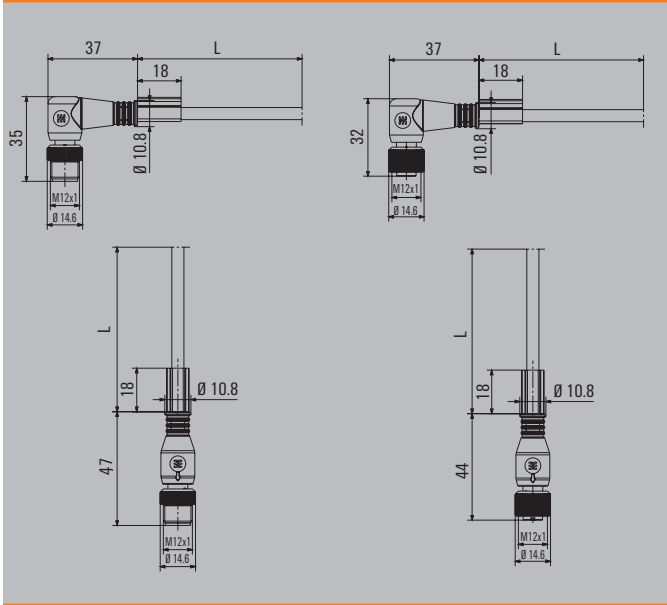
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

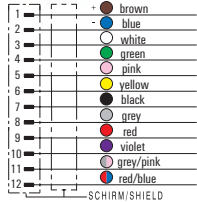
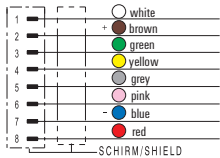
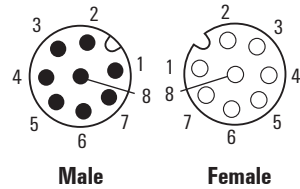
Wire cross section	0.25 (8-pole)/ 0.14 (12-pole)
Rated voltage	30 V
Rated current	2 A (8-pole) / 1.5 A (12-pole)
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, when screwed in
AF size	13
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus; UKCA

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



One end without connector
M12
A-coded
shielded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
Male, angled	
PUR halogen-free	1.5 m
Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
Male, straight - female, straight	
PUR halogen-free	1.5 m
Male, straight - female, angled	
PUR halogen-free	1.5 m
Note	

	8-pole
SAIL-M12G-8S1.5U	1279430150
SAIL-M12W-8S1.5U	1276060150
SAIL-M12BG-8S1.5U	1890520150
SAIL-M12BW-8S1.5U	1275470150
SAIL-M12WM12G-8S1.5U	1373680150
SAIL-M12GM12G-8S1.5U	1279460150
SAIL-M12GM12W-8S1.5U	1279470150
Other lengths on request	

	12-pole
SAIL-M12BG-12S1.5U	1424270150
SAIL-M12BW-12S1.5U	1424280150
Other lengths on request	

Standard cable lengths

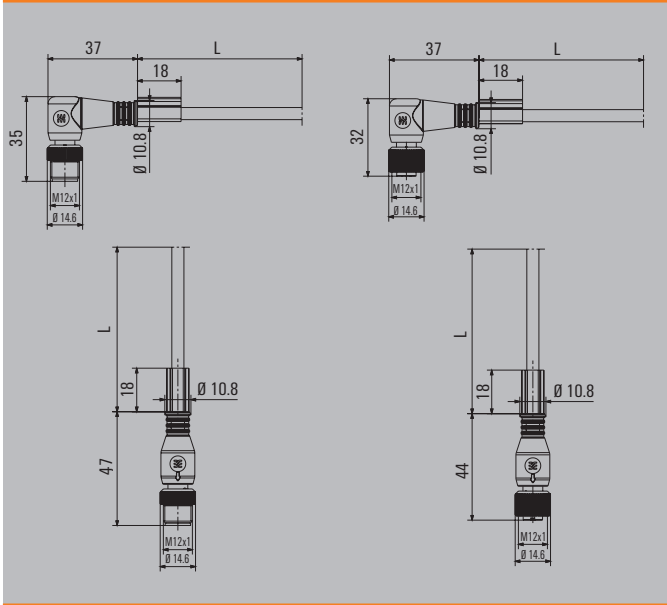
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Wire cross section	0.25 (8-pole)/ 0.14 (12-pole)
Rated voltage	30 V
Rated current	2 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, when screwed in
AF size	13
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus; UKCA

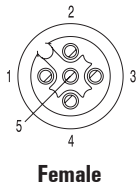
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

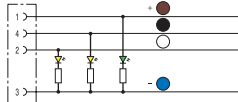
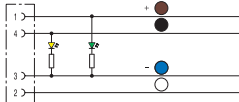
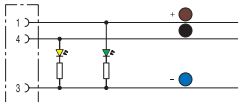


Sensor cables

One end without connector
M12 with LED
A-coded



Female



Ordering data

Female, straight	
PUR	1.5 m
PUR	2.0 m
Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Welding spark resistant halogen-free	1.5 m
Note	

2 LEDs

3-pole

2 LEDs	3-pole
SAIL-M12BG-3L1.5U	1292620150
SAIL-M12BW-3L1.5V	1925460150
SAIL-M12BW-3L1.5U	9457800150
SAIL-M12BW-3L1.5UGE	1114880150
SAIL-M12BW-3L1.5T	1004330150
Other lengths on request	

2 LEDs

4-pole

2 LEDs	4-pole
SAIL-M12BG-4-2L2.0U	1094190200
SAIL-M12BW-4-2L1.5V	1925470150
SAIL-M12BW-4-2L1.5U	9456380150
SAIL-M12BW-4-2L1.5UGE	1092950150
SAIL-M12BW-4-2L1.5T	1007000150
Other lengths on request	

3 LEDs

4-pole

3 LEDs	4-pole
SAIL-M12BW-4-3L1.5V	1963960150
SAIL-M12BW-4-3L1.5U	1963940150
Other lengths on request	

Standard cable lengths

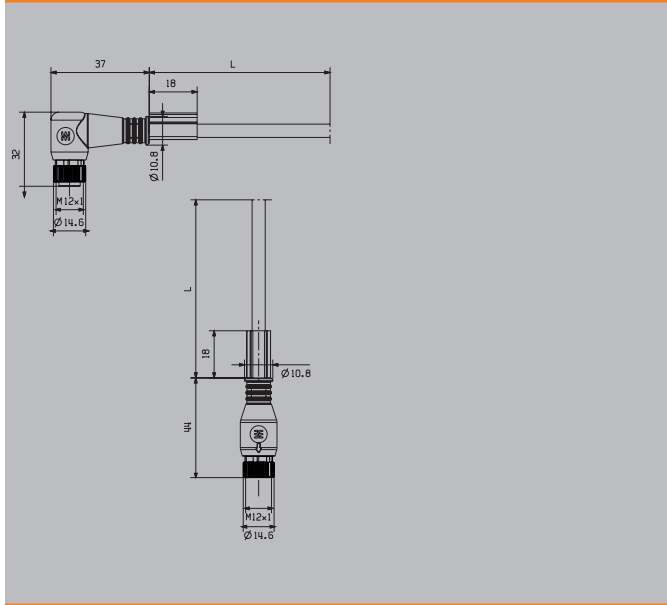
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; UL; UKCA

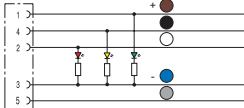
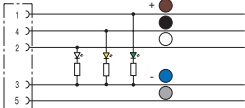
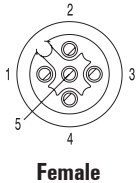
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing





One end without connector
M12 with LED
A-coded



Ordering data

Female, angled	
Welding spark resistant halogen-free	1.5 m
Note	

3 LEDs (white)

5-pole

SAIL-M12BW-5-3LW1.5TP	1022930150
Other lengths on request	

3 LEDs (red)

5-pole

SAIL-M12BW-5-3LR1.5TP	1282890150
Other lengths on request	

Other lengths on request

Standard cable lengths

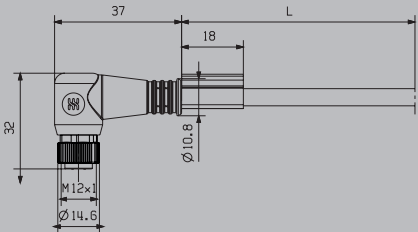
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE

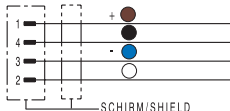
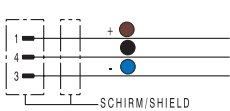
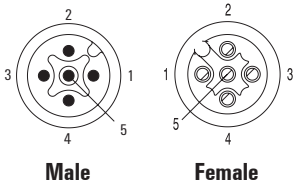
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

One end without connector
M12
A-coded
shielded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
Male, angled	
PUR halogen-free	1.5 m
Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-M12G-3S1.5U	1906470150
SAIL-M12W-3S1.5U	1906500150
SAIL-M12BG-3S1.5U	1867410150
SAIL-M12BW-3S1.5U	1906950150
Other lengths on request	

4-pole	
SAIL-M12G-4S1.5U	1906480150
SAIL-M12W-4S1.5U	1059650150
SAIL-M12BG-4S1.5U	1812540150
SAIL-M12BW-4S1.5U	1808970150
Other lengths on request	

5-pole	
SAIL-M12G-5S1.5U	1926690150
SAIL-M12W-5S1.5U	1906520150
SAIL-M12BG-5S1.5U	9456140150
SAIL-M12BW-5S1.5U	1906540150
Other lengths on request	

Standard cable lengths

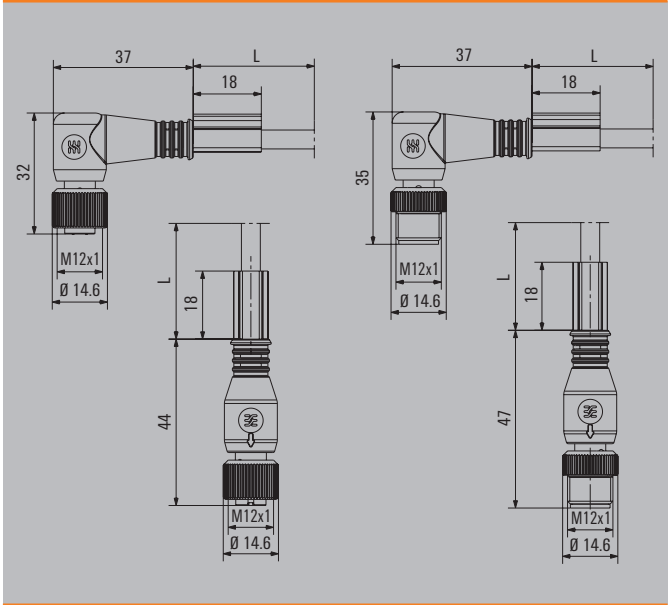
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus

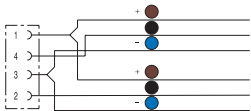
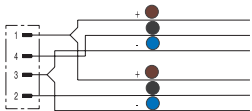
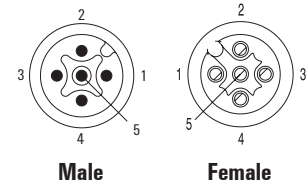
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing





One end without connector
M12 twin cabling



Ordering data

Male straight - open ended	
PUR halogen-free	1.5 m
Female straight - open end	
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-ZW-3-1.5U	1964310150
Other lengths on request	

3-pole	
SAIL-ZB-3-1.5U	1106800150
Other lengths on request	

Standard cable lengths

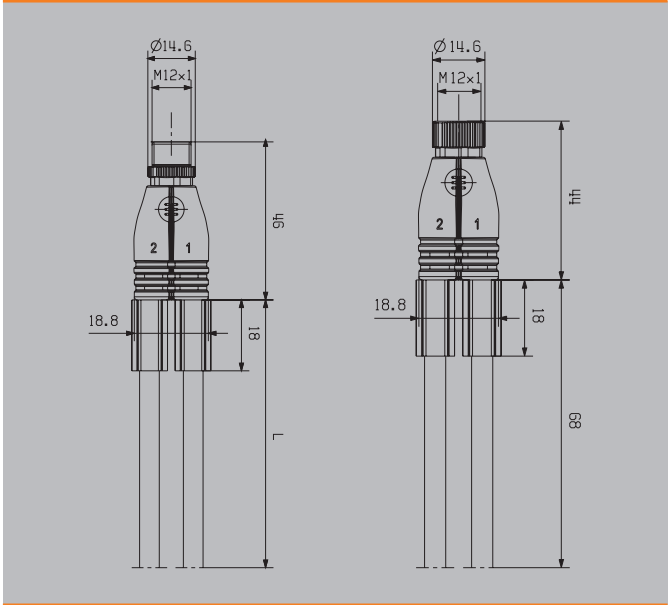
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm²
Rated voltage	250 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP67, IP68, when screwed in, IP65, IP66
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE, CSA, cULus

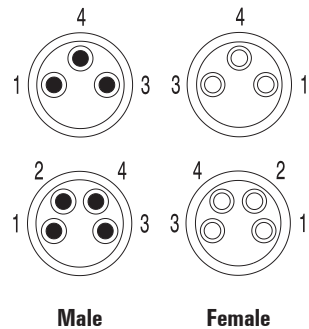
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

One end without connector
M8



Ordering data		3-pole		4-pole			
Male, straight							
PVC	1.5 m	SAIL-M8G-3-1.5V	1927230150	SAIL-M8G-4-1.5V	1927250150		
PUR halogen-free	1.5 m	SAIL-M8G-3-1.5U	1824590150	SAIL-M8G-4-1.5U	1906270150		
Male, angled							
PVC	1.5 m	SAIL-M8W-3-1.5V	1927310150	SAIL-M8W-4-1.5V	1927330150		
PUR halogen-free	1.5 m	SAIL-M8W-3-1.5U	1857550150	SAIL-M8W-4-1.5U	1857560150		
Female, straight							
PVC	1.5 m	SAIL-M8BG-3-1.5V	1927240150	SAIL-M8BG-4-1.5V	1927260150		
PUR halogen-free	1.5 m	SAIL-M8BG-3-1.5U	9457450150	SAIL-M8BG-4-1.5U	9457850150		
PUR halogen-free yellow	1.5 m	SAIL-M8BG-3-1.5UGE	1093190150	SAIL-M8BG-4-1.5UGE	1093200150		
Female, angled							
PVC	1.5 m	SAIL-M8BW-3-1.5V	1927320150	SAIL-M8BW-4-1.5V	1927340150		
PUR halogen-free	1.5 m	SAIL-M8BW-3-1.5U	9457380150	SAIL-M8BW-4-1.5U	9456150150		
PUR halogen-free yellow	1.5 m	SAIL-M8BW-3-1.5UGE	1093220150	SAIL-M8BW-4-1.5UGE	1093240150		
Note		Other lengths on request		Other lengths on request			

Standard cable lengths

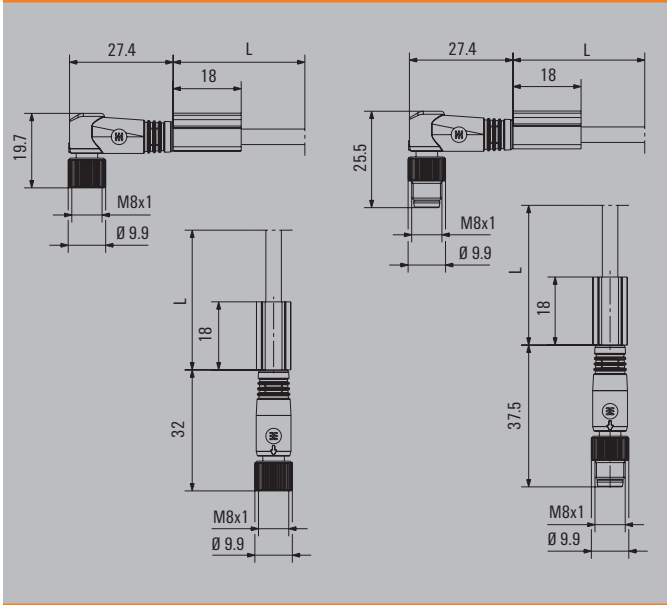
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

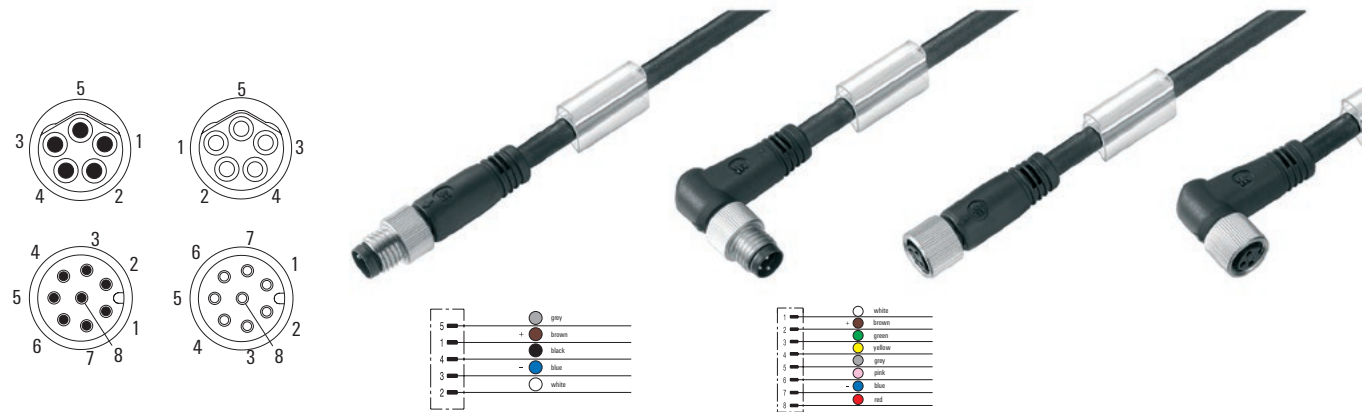
Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	CE; cULus

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



One end without connector
M8



		5-pole		8-pole		
Male, straight						
PUR halogen-free	1.5 m	SAIL-M8G-5-1.5U	2455040150	SAIL-M8G-8-1.5U	1555330150	
Male, angled						
PUR halogen-free	1.5 m	SAIL-M8W-5-1.5U	2466630150	SAIL-M8W-8-1.5U	1555340150	
Female, straight						
PUR halogen-free	1.5 m	SAIL-M8BG-5-1.5U	2466650150	SAIL-M8BG-8-1.5U	1555370150	
Female, angled						
PUR halogen-free	1.5 m	SAIL-M8BW-5-1.5U	2466640150	SAIL-M8BW-8-1.5U	1555380150	
Note		Other lengths on request		Other lengths on request		

Standard cable lengths

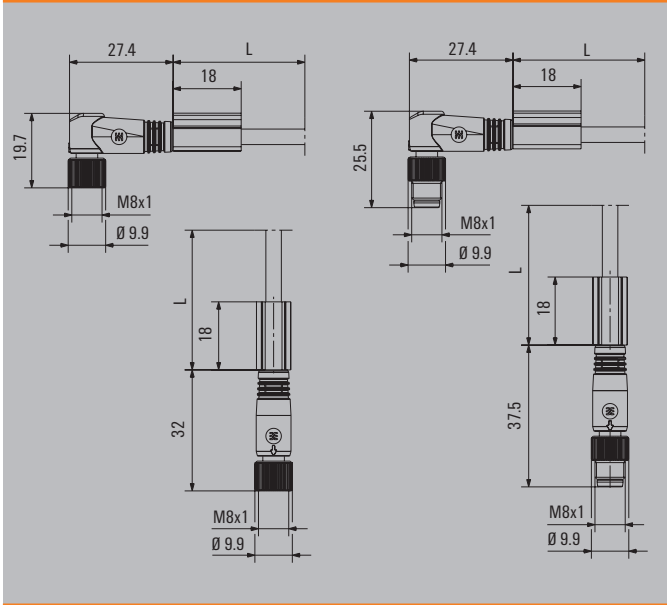
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V (5-poles) / 30 V (8-poles)
Rated current	3 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP69K, IP65, IP66
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	CE, UKCA

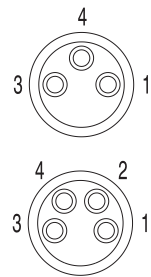
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

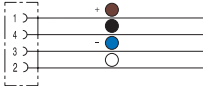
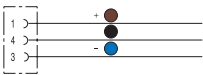


Sensor cables

One end without connector
M8
Snap connection



Female



		3-pole		4-pole			
Female, straight							
PVC	1.5 m	SAIL-M8BGR-3-1.5V	1948710150	SAIL-M8BGR-4-1.5V	1948730150		
PUR halogen-free	1.5 m	SAIL-M8BGR-3-1.5U	1827020150	SAIL-M8BGR-4-1.5U	1948530150		
Female, angled							
PVC	1.5 m	SAIL-M8BWR-3-1.5V	1948720150	SAIL-M8BWR-4-1.5V	1948740150		
PUR halogen-free	1.5 m	SAIL-M8BWR-3-1.5U	1827010150	SAIL-M8BWR-4-1.5U	1948540150		
Note		Other lengths on request		Other lengths on request			

Standard cable lengths

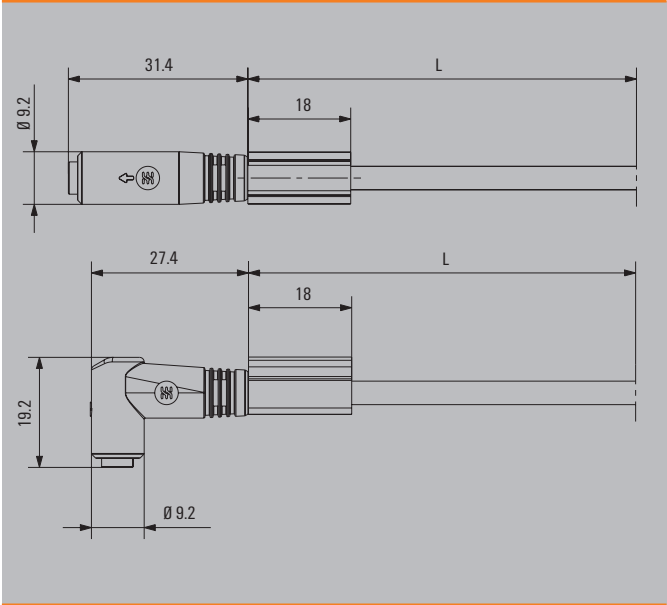
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65 (in plugged condition)
AF size	
Tightening torque	
Approvals	CE; cULus

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



One end without connector
M8
shielded



Ordering data		3-pole		4-pole	
Male, straight					
PUR halogen-free	1.5 m	SAIL-M8G-3S1.5U	1906560150	SAIL-M8G-4S1.5U	1906570150
Male, angled					
PUR halogen-free	1.5 m	SAIL-M8W-3S1.5U	1906580150	SAIL-M8W-4S1.5U	1906590150
Female, straight					
PUR halogen-free	1.5 m	SAIL-M8BG-3S1.5U	1906600150	SAIL-M8BG-4S1.5U	1906610150
Female, angled					
PUR halogen-free	1.5 m	SAIL-M8BW-3S1.5U	1906620150	SAIL-M8BW-4S1.5U	1906630150
Note		Other lengths on request		Other lengths on request	

Standard cable lengths

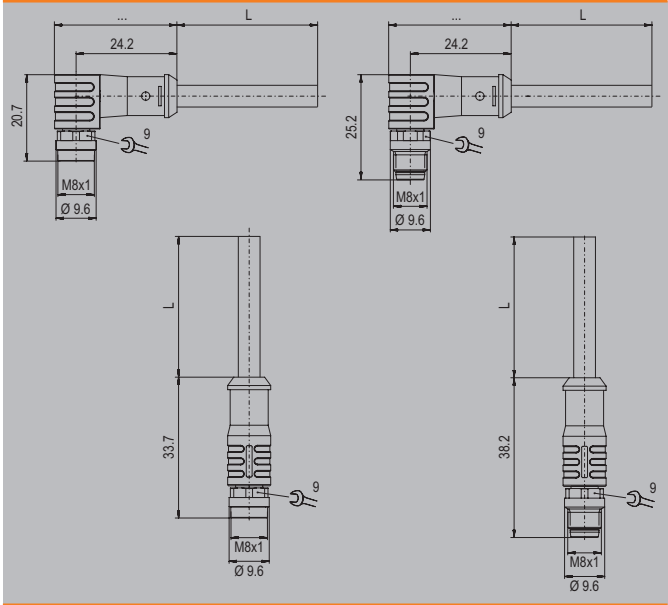
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	9
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	CE; cULus

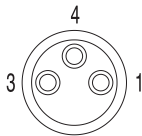
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

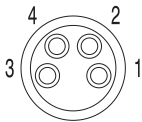


Sensor cables

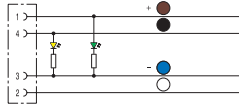
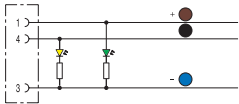
One end without connector
M8 with LED



Male



Female



Ordering data

Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Note	

2 LEDs

3-pole

2 LEDs	3-pole
SAIL-M8BW-3L1.5V	1927350150
SAIL-M8BW-3L1.5U	9457460150
SAIL-M8BW-3L1.5UGE	1093210150
Other lengths on request	

2 LEDs

4-pole

2 LEDs	4-pole
SAIL-M8BW-4L1.5V	1927360150
SAIL-M8BW-4L1.5U	1906400150
SAIL-M8BW-4L1.5UGE	1093230150
Other lengths on request	

Standard cable lengths

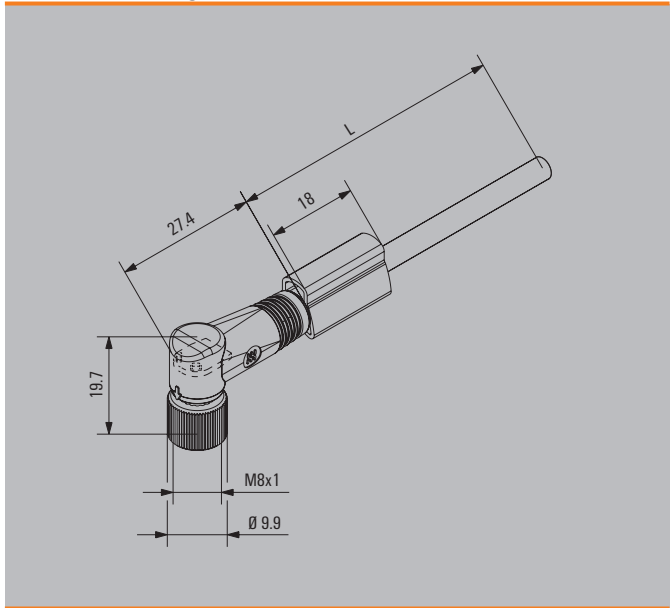
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Technical data	
Core cross-section	0.25 mm²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	CE, CSA, UL

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



One end without connector
M16



Female

Ordering data		12-pole	
Female, angled			
PUR halogen-free	1.5 m	SAIL-M16BW-12-1.5U	1259010150
Note		Other lengths on request	

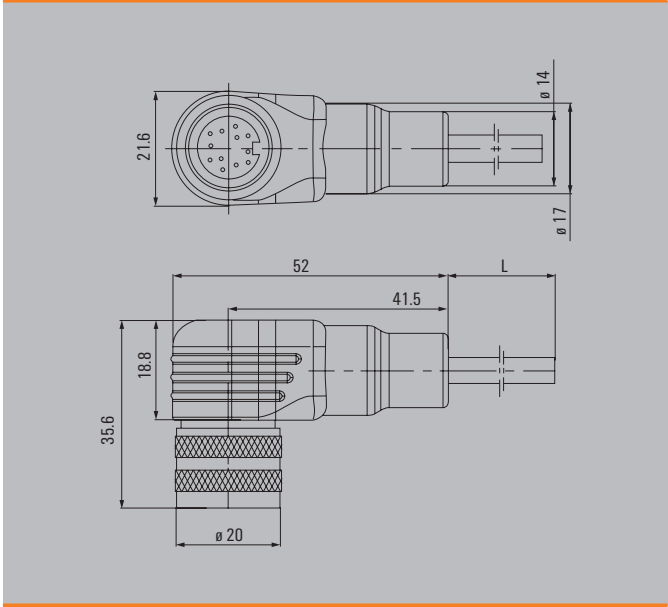
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	3 A
Temperature range of housing	-25 ... +70 °C
Contact surface	Gold-plated
Protection degree	IP67
AF size	
Tightening torque	M16: 0.6 Nm
Approvals	CE, UKCA

Dimensioned drawing



Connecting cables

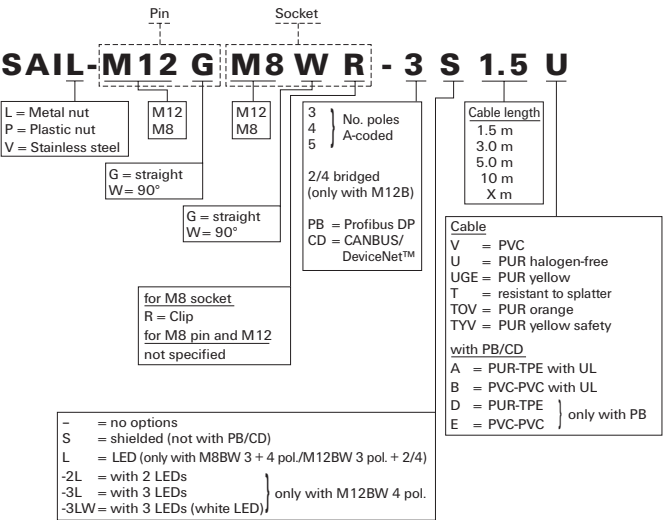


We offer a wide range of products in this category:

- Straight and angled plug-in connectors with optional LED status indicator
- Various numbers of poles: 3, 4, 5, 8 and 12 poles
- Different cable diameters from 0.25 mm² to 0.75 mm²
- Both PVC and PUR cables; the latter are suitable for use in drag chains
- Two pre-assembled label holders per cable

Weidmüller offers cables in standard lengths of 1.5 m, 3 m, 5 m and 10 m. **All other lengths are available on request!**

Example of designation



M12



M8



M8 snap



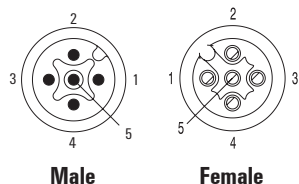
Twin cabling



Connecting cables

M12 to M12

A-coded



Male

Female



Ordering data

Male, straight - Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Welding spark resistant halogen-free	1.5 m
Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Welding spark resistant halogen-free	1.5 m
Male, angled - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m

Note

3-pole	
SAIL-M12GM12G-3-1.5V	1925300150
SAIL-M12GM12G-3-1.5U	9457230150
SAIL-M12GM12G-3-1.5UGE	1093010150
SAIL-M12GM12G-3-1.5T	1021710150
4-pole	
SAIL-M12GM12G-4-1.5V	1925310150
SAIL-M12GM12G-4-1.5U	1906300150
SAIL-M12GM12G-4-1.5UGE	1093020150
SAIL-M12GM12G-4-1.5T	1021730150
5-pole	
SAIL-M12GM12G-5-1.5V	1925320150
SAIL-M12GM12G-5-1.5U	9457340150
SAIL-M12GM12G-5-1.5UGE	1093030150
SAIL-M12GM12G-5-1.5T	1011970150
Male, straight - Female, angled	
SAIL-M12GM12W-3-1.5V	1925340150
SAIL-M12GM12W-3-1.5U	9457390150
SAIL-M12GM12W-3-1.5UGE	1093050150
SAIL-M12GM12W-3-1.5T	1021720150
Male, angled - Female, angled	
SAIL-M12WM12W-3-1.5V	1925380150
SAIL-M12WM12W-3-1.5U	1815670150

Other lengths on request

4-pole	
SAIL-M12GM12G-4-1.5V	1925310150
SAIL-M12GM12G-4-1.5U	1906300150
SAIL-M12GM12G-4-1.5UGE	1093020150
SAIL-M12GM12G-4-1.5T	1021730150
5-pole	
SAIL-M12GM12G-5-1.5V	1925320150
SAIL-M12GM12G-5-1.5U	9457340150
SAIL-M12GM12G-5-1.5UGE	1093030150
SAIL-M12GM12G-5-1.5T	1011970150
Male, straight - Female, angled	
SAIL-M12GM12W-3-1.5V	1925340150
SAIL-M12GM12W-3-1.5U	9457390150
SAIL-M12GM12W-3-1.5UGE	1093050150
SAIL-M12GM12W-3-1.5T	1021720150
Male, angled - Female, angled	
SAIL-M12WM12W-3-1.5V	1925380150
SAIL-M12WM12W-3-1.5U	1815670150

Other lengths on request

5-pole	
SAIL-M12GM12G-5-1.5V	1925320150
SAIL-M12GM12G-5-1.5U	9457340150
SAIL-M12GM12G-5-1.5UGE	1093030150
SAIL-M12GM12G-5-1.5T	1011970150
Male, straight - Female, angled	
SAIL-M12GM12W-3-1.5V	1925340150
SAIL-M12GM12W-3-1.5U	9457390150
SAIL-M12GM12W-3-1.5UGE	1093050150
SAIL-M12GM12W-3-1.5T	1021720150
Male, angled - Female, angled	
SAIL-M12WM12W-3-1.5V	1925380150
SAIL-M12WM12W-3-1.5U	1815670150

Other lengths on request

Standard cable lengths

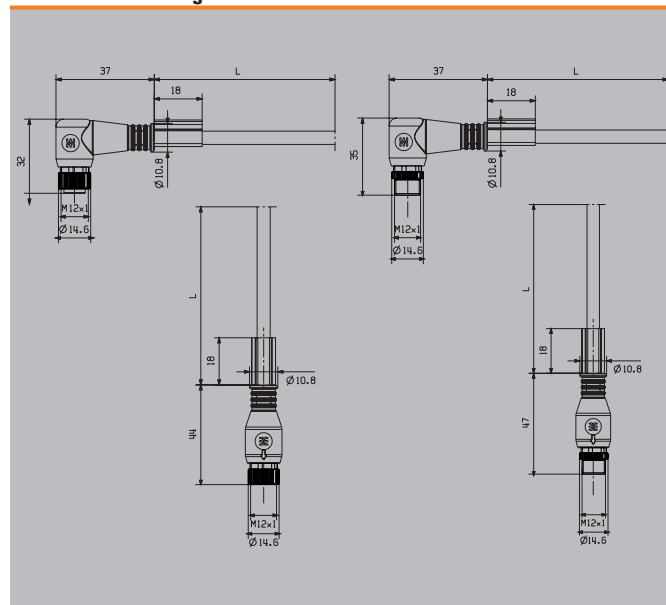
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus

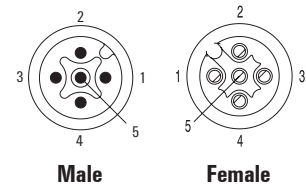
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

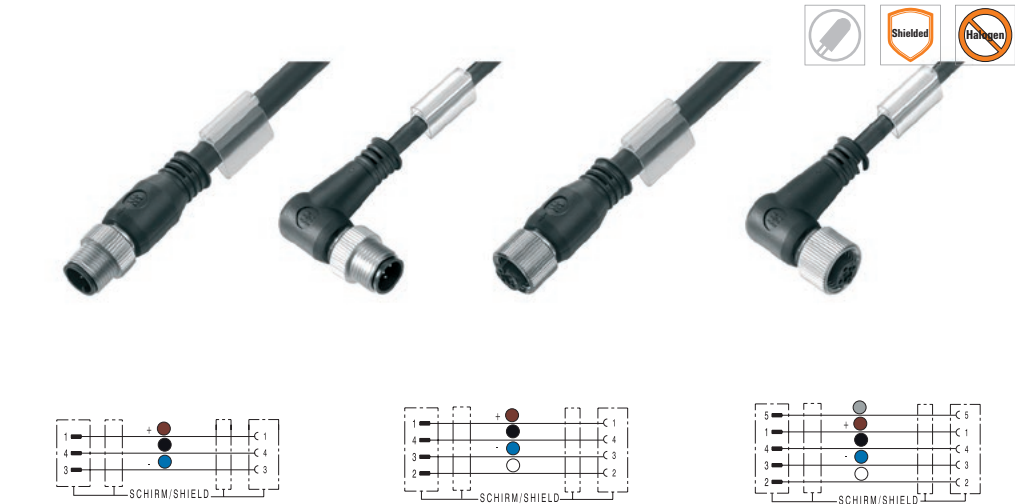


Sensor cables

Connecting cables
M12 to M12
A-coded
shielded



Ordering data	
Male, straight - Female, straight	
PUR halogen-free	1.5 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
Note	



3-pole	
SAIL-M12GM12G-3S1.5U	1058490150
SAIL-M12GM12W-3S1.5U	1059470150
SAIL-M12WM12W-3S1.5U	1059720150
Other lengths on request	

4-pole	
SAIL-M12GM12G-4S1.5U	1058500150
SAIL-M12GM12W-4S1.5U	1059480150
SAIL-M12WM12W-4S1.5U	1059730150
Other lengths on request	

5-pole	
SAIL-M12GM12G-5S1.5U	1058510150
SAIL-M12GM12W-5S1.5U	1059540150
SAIL-M12WM12W-5S1.5U	1059740150
Other lengths on request	

Standard cable lengths

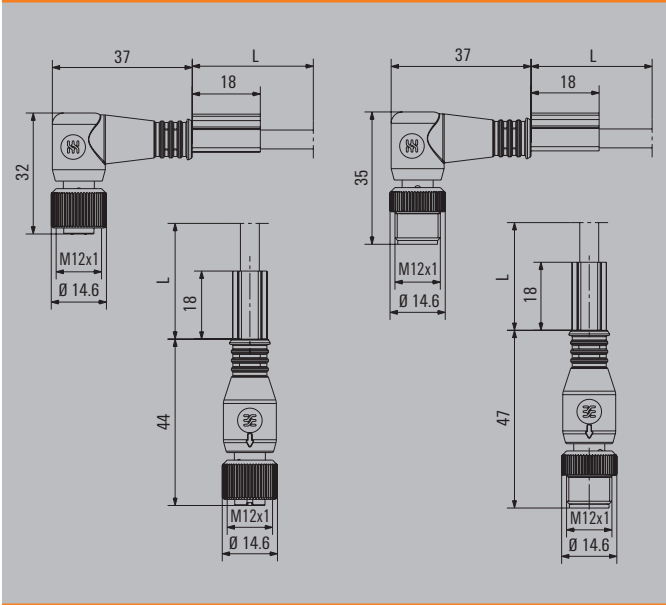
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus

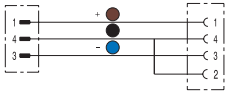
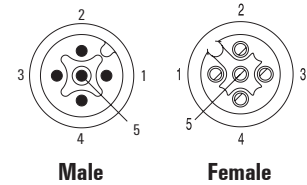
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing





Connecting cables
M12 to M12
A-coded
Bridge between pin 2 and 4



Ordering data

Male, straight - Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Note	

3-pole	
SAIL-M12GM12G-2/4-1.5V	1925330150
SAIL-M12GM12G-2/4-1.5U	9456990150
SAIL-M12GM12G-2/4-1.5UGE	1093000150
Other lengths on request	

Standard cable lengths

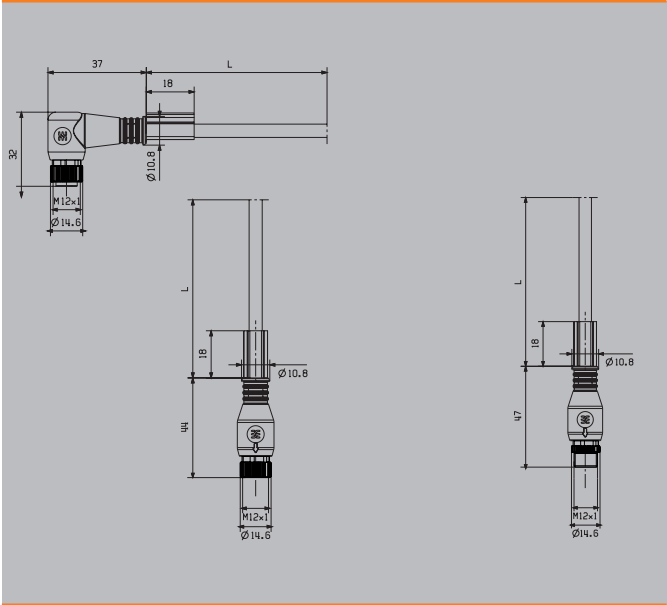
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm²
Rated voltage	250 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE, cULus, UKCA

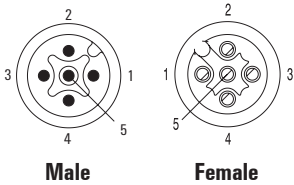
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

Connecting cables
M12 to M12 with LED
A-coded



Ordering data

Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Welding spark resistant halogen-free	1.5 m
Note	

2 LEDs

3-pole

SAIL-M12GM12W-3L1.5V	1925410150
SAIL-M12GM12W-3L1.5U	9457790150
SAIL-M12GM12W-3L1.5T	1004320150
Other lengths on request	

3 LEDs

4-pole

SAIL-M12GM12W-4-3L1.5V	1963930150
SAIL-M12GM12W-4-3L1.5U	1963910150
SAIL-M12GM12W-4-3LW1.5UGE	1093060150
SAIL-M12GM12W-4-3LW1.5T	1020930150
Other lengths on request	

2 LEDs

4-pole

SAIL-M12GM12W-4-2L1.5V	1925420150
SAIL-M12GM12W-4-2L1.5U	1906410150
SAIL-M12GM12W-4-2L1.5T	1004310150
Other lengths on request	

Standard cable lengths

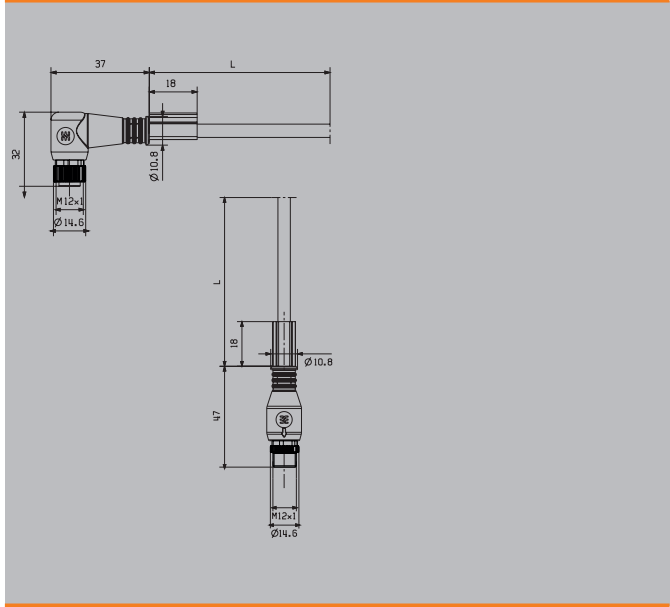
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

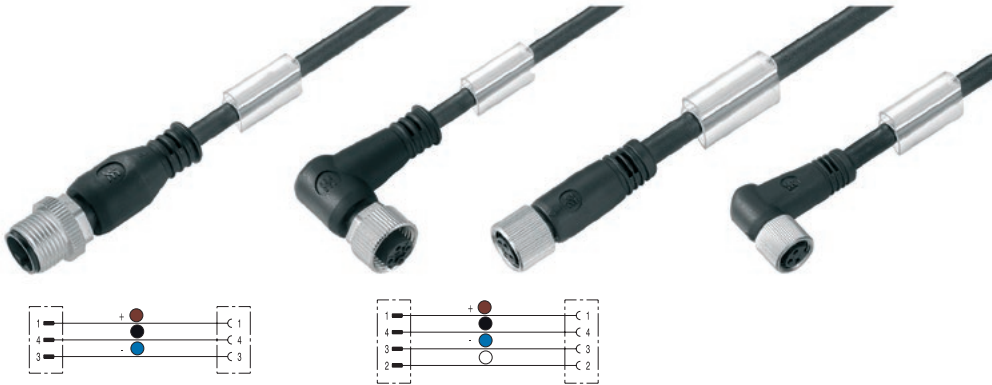
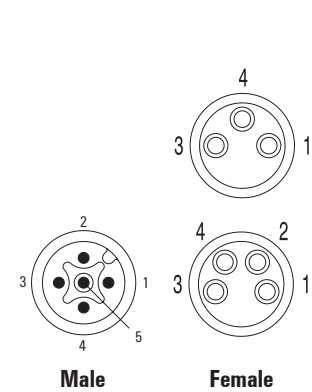
Core cross-section	0.34 mm²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; UL

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Connecting cables
M12 to M8



Ordering data		3-pole		4-pole	
Male, straight - Female, straight					
PVC	1.5 m	SAIL-M12GM8G-3-1.5V	1938170150	SAIL-M12GM8G-4-1.5V	1938200150
PUR halogen-free	1.5 m	SAIL-M12GM8G-3-1.5U	9457770150	SAIL-M12GM8G-4-1.5U	9456660150
Male, straight - Female, angled					
PVC	1.5 m	SAIL-M12GM8W-3-1.5V	1938180150	SAIL-M12GM8W-4-1.5V	1938210150
PUR halogen-free	1.5 m	SAIL-M12GM8W-3-1.5U	9457980150	SAIL-M12GM8W-4-1.5U	9456670150
Male, angled - Female, angled					
PVC	1.5 m	SAIL-M12WM8W-3-1.5V	1938190150	SAIL-M12WM8W-4-1.5V	1938220150
PUR halogen-free	1.5 m	SAIL-M12WM8W-3-1.5U	1906330150	SAIL-M12WM8W-4-1.5U	1906340150
Note		Other lengths on request		Other lengths on request	

Standard cable lengths

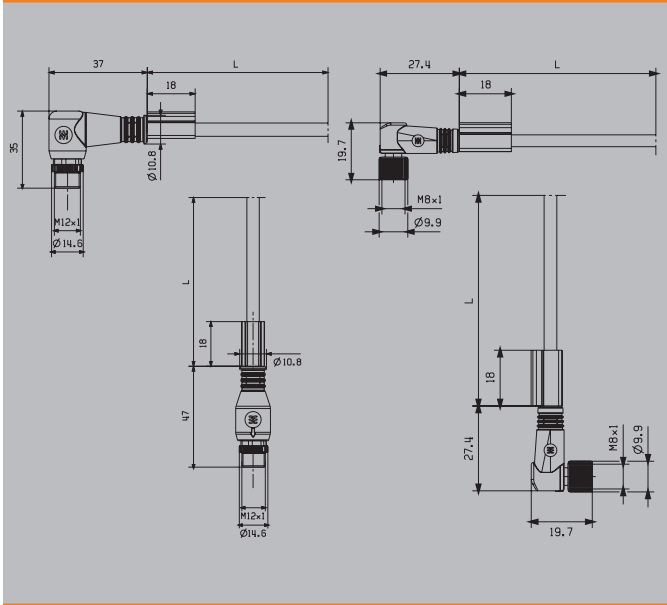
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm ²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	12
Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm
Approvals	CE

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing





Connecting cable
M12 to M8
with plastic threaded ring



Ordering data		3-pole	
Male, straight - Female, angled			
PUR halogen-free	1.5 m	SAIP-M12GM8W-3-1.5U	1220620150
Note		Other lengths on request	

Standard cable lengths

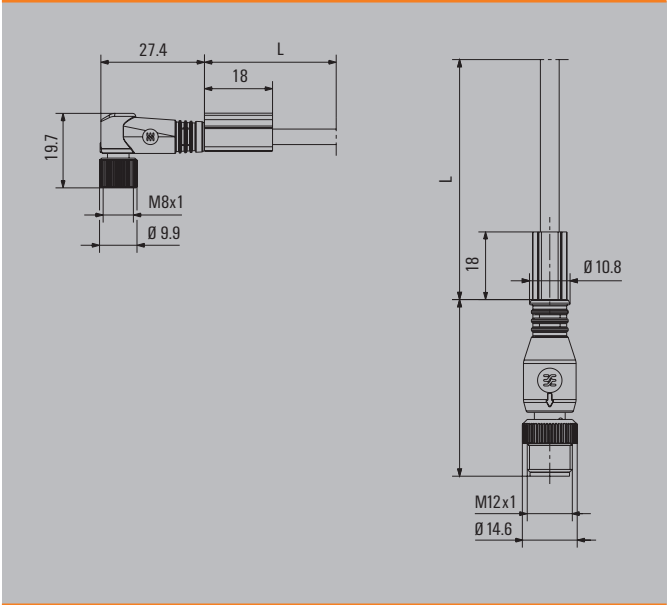
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm, M12 (plastic): 0.9 - 1.1 Nm
Approvals	CE; UKCA

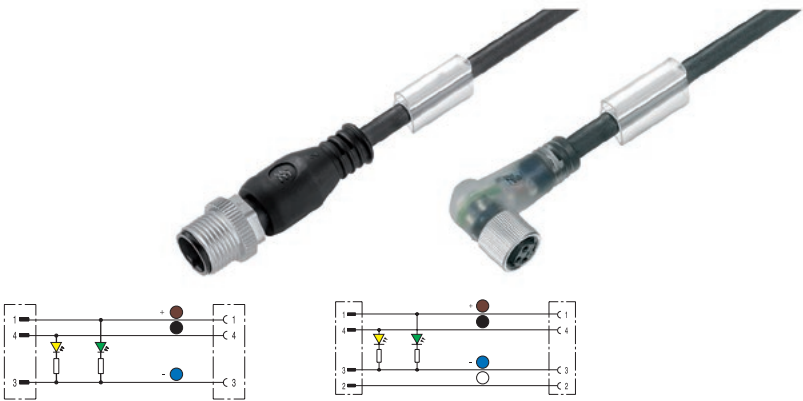
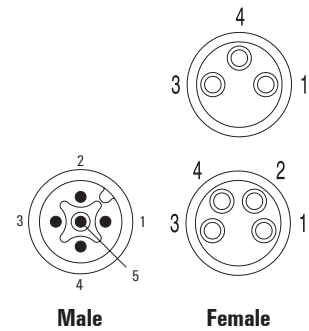
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

Connecting cables
M12 to M8 with LED



Ordering data

Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Note	

2 LEDs

3-pole

SAIL-M12GM8W-3L1.5V	1962290150
SAIL-M12GM8W-3L1.5U	9457760150
SAIL-M12GM8W-3L1.5UGE	1093110150
Other lengths on request	

2 LEDs

4-pole

SAIL-M12GM8W-4L1.5V	1962300150
SAIL-M12GM8W-4L1.5U	1906430150
SAIL-M12GM8W-4L1.5UGE	1093130150
Other lengths on request	

Standard cable lengths

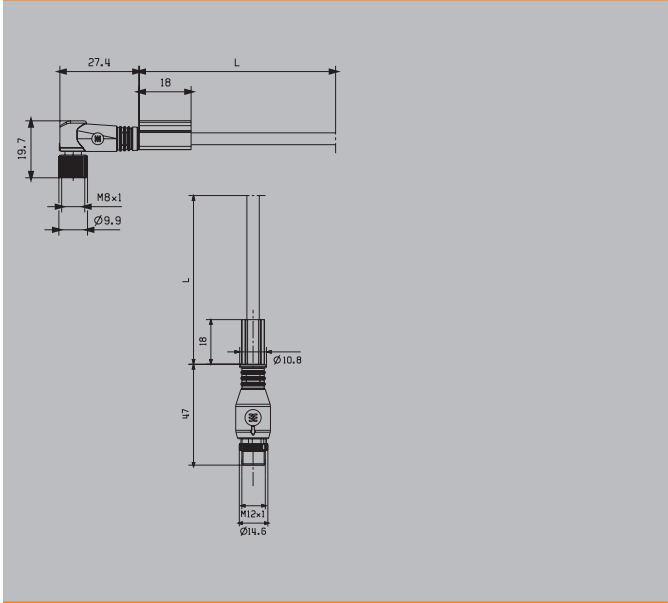
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm
Approvals	CE

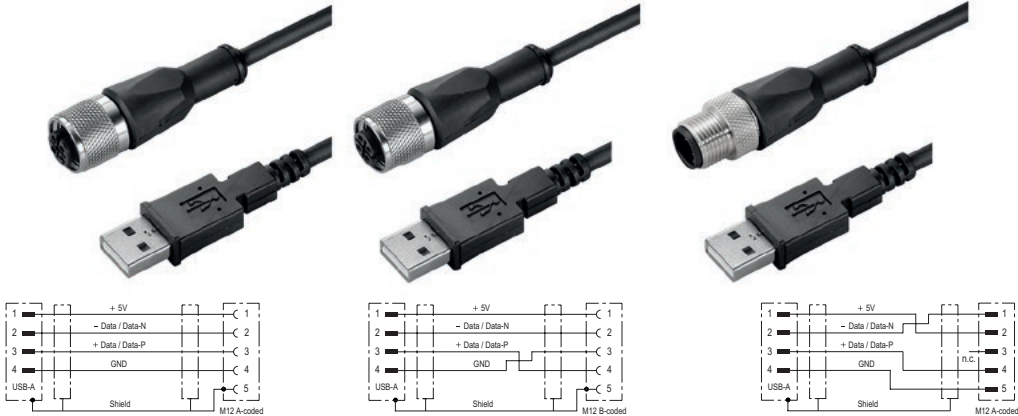
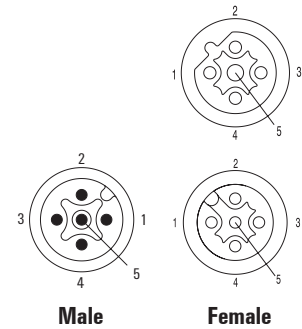
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing





Connecting cables
M12 to USB
A-coded
B-coded
shielded



Ordering data		5-pole
Socket, straight - USB		
PUR halogen-free, B-coded	1.5 m	
PUR halogen-free, A-coded	3.0 m	
Male, straight - USB		
PUR halogen-free, A-coded	3.0 m	
Note		

		5-pole
SAIL-M12BG-USB-3.0U	1288820300	
Other lengths on request		

		5-pole
SAIL-M12BG-B-USB-1.5U	1962800150	
Other lengths on request		

		5-pole
SAIL-M12G-USB-3.0U	1268520000	
Other lengths on request		

Standard cable lengths

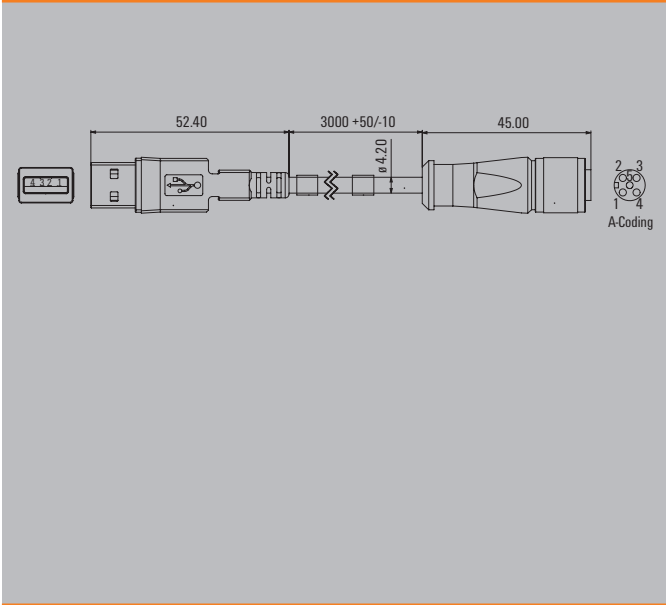
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	
Rated voltage	≤ 5 V DC
Rated current	1 A
Temperature range of housing	-25...+80 °C
Contact surface	Gold-plated
Protection degree	IP67
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE, UKCA

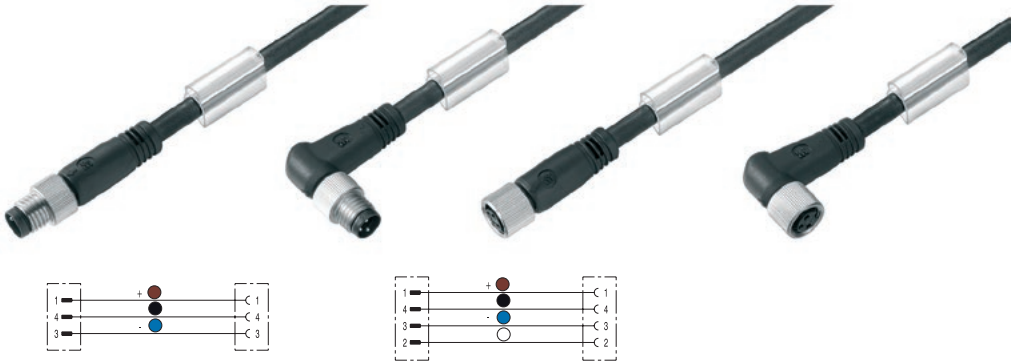
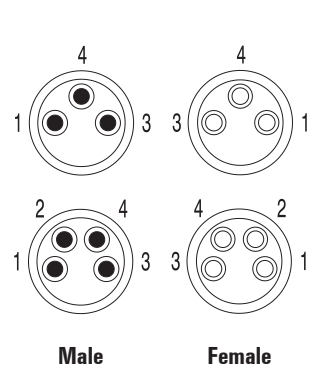
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

Connecting cables
M8 to M8



Ordering data		3-pole		4-pole			
Male, straight - Female, straight							
PVC	1.5 m	SAIL-M8GM8G-3-1.5V	1927150150	SAIL-M8GM8G-4-1.5V	1927160150		
PUR halogen-free	1.5 m	SAIL-M8GM8G-3-1.5U	1824570150	SAIL-M8GM8G-4-1.5U	1880470150		
PUR halogen-free yellow	1.5 m	SAIL-M8GM8G-3-1.5UGE	1104470150	SAIL-M8GM8G-4-1.5UGE	1469360150		
Male, straight - Female, angled							
PVC	1.5 m	SAIL-M8GM8W-3-1.5V	1927170150	SAIL-M8GM8W-4-1.5V	1927180150		
PUR halogen-free	1.5 m	SAIL-M8GM8W-3-1.5U	1824580150	SAIL-M8GM8W-4-1.5U	1857660150		
Male, angled - Female, angled							
PVC	1.5 m	SAIL-M8WM8W-3-1.5V	1927210150	SAIL-M8WM8W-4-1.5V	1927220150		
PUR halogen-free	1.5 m	SAIL-M8WM8W-3-1.5U	1857670150	SAIL-M8WM8W-4-1.5U	1857680150		
Note		Other lengths on request		Other lengths on request			

Standard cable lengths

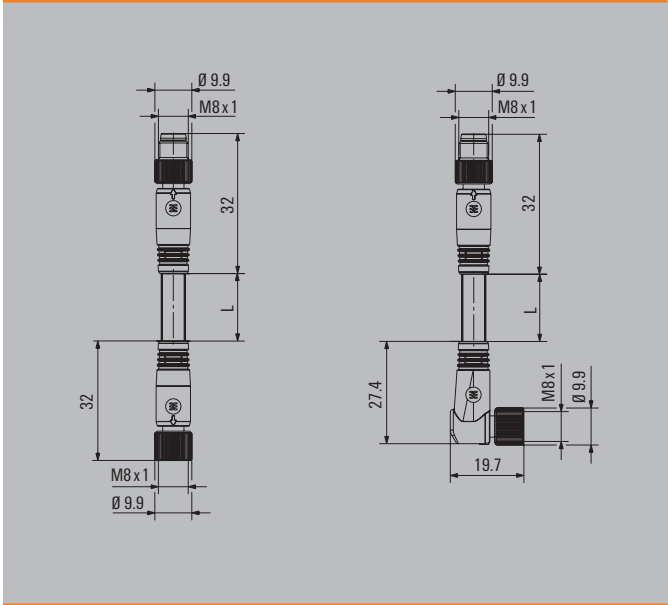
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	CE; cULus

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

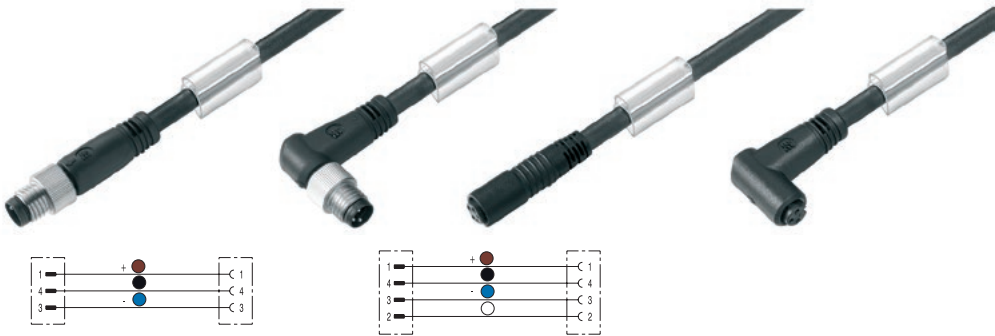
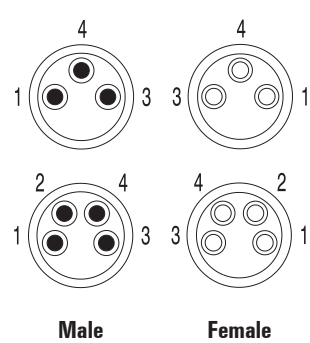




Connecting cables

M8 to M8

snap-on connection



Ordering data

Male, straight - Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Male, angled - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-M8GM8GR-3-1.5V	1948650150
SAIL-M8GM8GR-3-1.5U	1948470150
SAIL-M8GM8WR-3-1.5V	1948660150
SAIL-M8GM8WR-3-1.5U	1948480150
SAIL-M8WM8WR-3-1.5V	1948670150
SAIL-M8WM8WR-3-1.5U	1948490150
Other lengths on request	

4-pole	
SAIL-M8GM8GR-4-1.5V	1948680150
SAIL-M8GM8GR-4-1.5U	1948500150
SAIL-M8GM8WR-4-1.5V	1948690150
SAIL-M8GM8WR-4-1.5U	1948510150
SAIL-M8WM8WR-4-1.5V	1948700150
SAIL-M8WM8WR-4-1.5U	1948520150
Other lengths on request	

Standard cable lengths

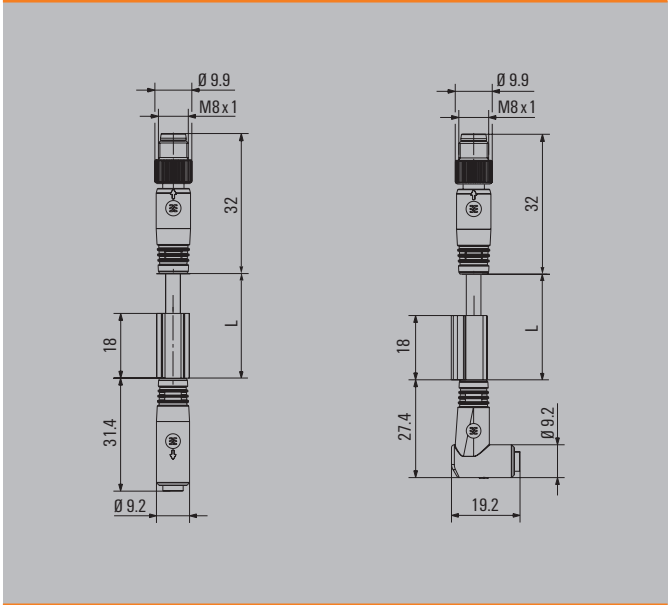
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65 (in plugged condition), IP69
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	CE; cULus

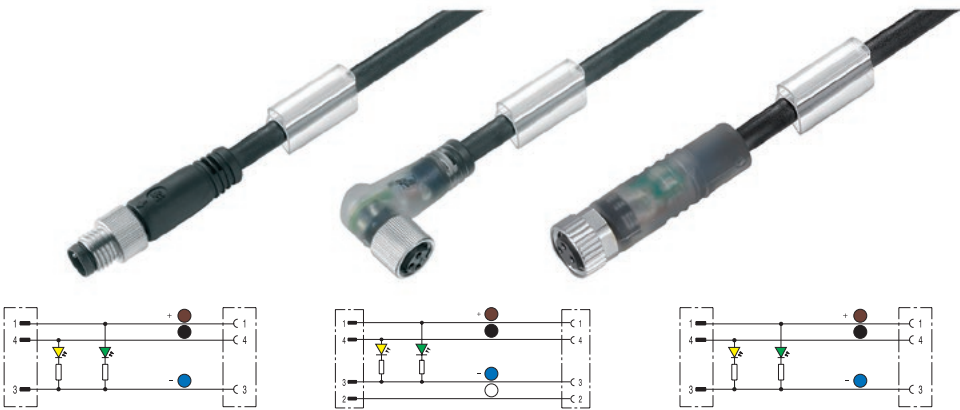
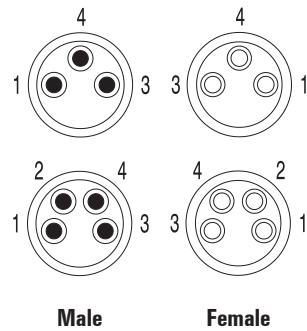
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

Connecting cables
M8 to M8 with LED



Ordering data

Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Male straight - Female straight	
PUR halogen-free	1.0 m
Note	

2 LEDs

3-pole

SAIL-M8GM8W-3L1.5V	1927190150
SAIL-M8GM8W-3L1.5U	1877250150
Other lengths on request	

2 LEDs

4-pole

SAIL-M8GM8W-4L1.5V	1927200150
SAIL-M8GM8W-4L1.5U	1906450150
Other lengths on request	

3-pole

SAIL-M8GM8G-3L1.0U	1550230100
Other lengths on request	

Standard cable lengths

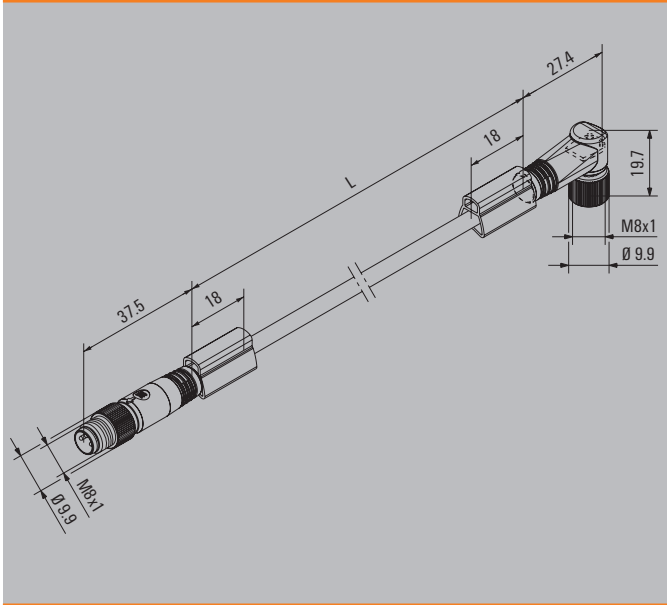
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	CE; cULus

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Twin cables with M12 and M8 plug-in connectors



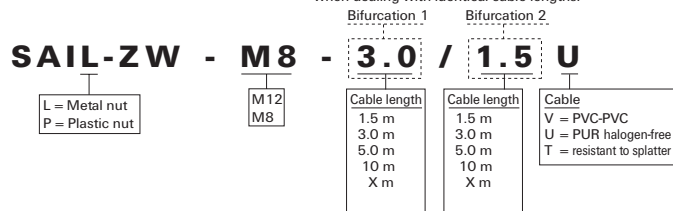
- 4-Pole M12 twin plug as female or male for connection to the distributor
- Straight and angled M8 and M12 plug-in connectors with optional LED status indicator for connection to the sensors
- Various combinations of all plug-in connectors available

Weidmüller offers cables in standard lengths of 1.5 m, 3 m, 5 m and 10 m. **All other lengths are available on request!**

One end without connector designation code

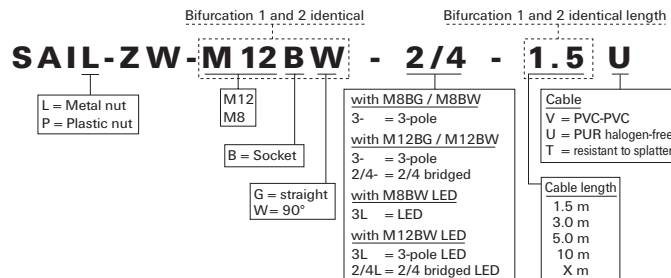
Twin plug
Bifurcation open for "1" and "2" ends

One designation is no longer necessary when dealing with identical cable lengths.



Connecting lines designation code

Twin plug
Connecting cable

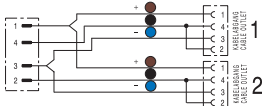
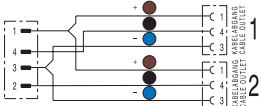
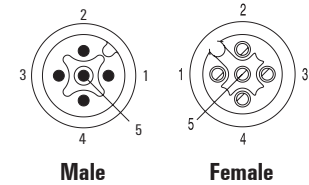


M12 twin to M12

M12 twin to M8



Connecting cable
M12 to M12 twin cabling
Bridge between pin 2 and 4



Ordering data

Male straight - 2 females straight	
PUR halogen-free	1.5 m
Male straight - 2 females angled	
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-ZW-M12BG-3-1.5U	1005460150
SAIL-ZW-M12BW-3-1.5U	1005270150
Other lengths on request	

4-pole	
SAIL-ZW-M12BG-2/4-1.5U	1812550150
SAIL-ZW-M12BW-2/4-1.5U	1964280150
Other lengths on request	

Standard cable lengths

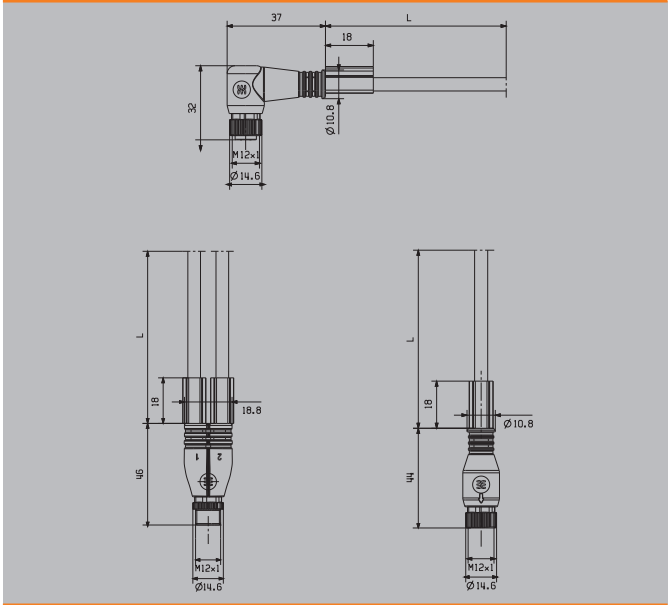
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm²
Rated voltage	250 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE, CSA, cULus

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

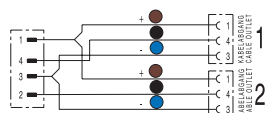
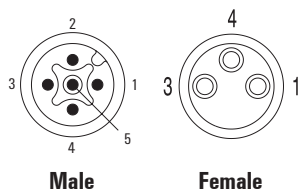
Dimensioned drawing



Sensor cables

Connecting cable

M12 to M8 twin cabling



Ordering data

Male straight - 2 females straight	
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Male straight - 2 females angled	
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Note	

3-pole

SAIL-ZW-M8BG-3-1.5U	9457490150
SAIL-ZW-M8BG-3-1.5UGE	1093250150
SAIL-ZW-M8BW-3-1.5U	1964300150
SAIL-ZW-M8BW-3-1.5UGE	1093260150
Other lengths on request	

Standard cable lengths

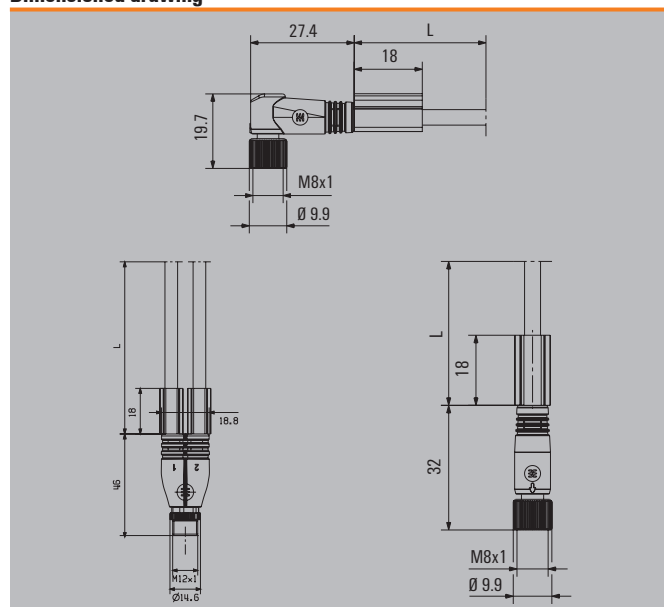
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Technical data	
Core cross-section	0.25 mm ²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm
Approvals	CE

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

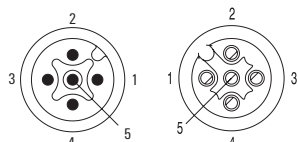
Dimensioned drawing



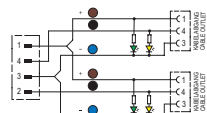
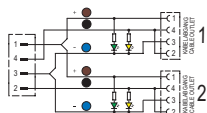
Connecting cable

M12 to M12 twin cabling with LED

Bridge between pin 2 and 4



Male

Female

Ordering data

Male straight - 2 females angled	
PUR halogen-free	1.5 m
Note	

2 LEDs

3-pole

SAIL-ZW-M12BW-2/4L1.5U	1964290150
Other lengths on request	

2 LEDs

3-pole

SAIL-ZW-M12BW-3L1.5U	1912110150
Other lengths on request	

Standard cable lengths

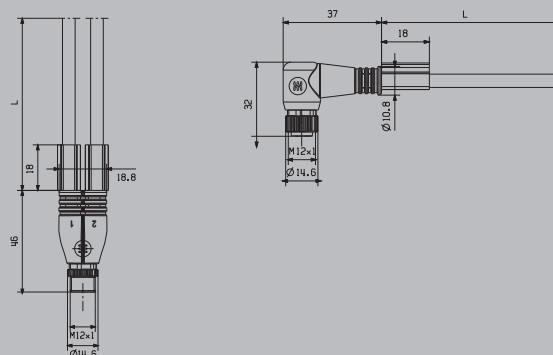
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus

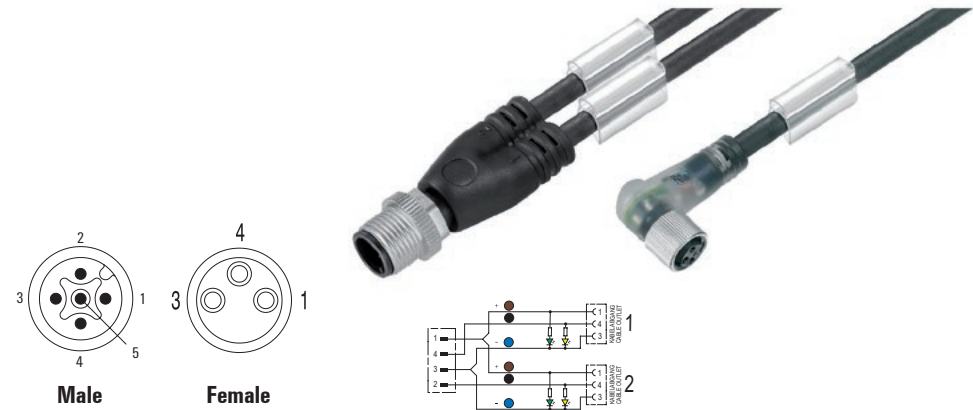
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

Connecting cable
M12 to M8 twin cabling with LED



Ordering data

Male straight - 2 females angled	
PUR halogen-free	1.5 m
Note	

2 LEDs	3-pole
SAIL-ZW-M8BW-3L1.5U	9457410150
Other lengths on request	

Standard cable lengths

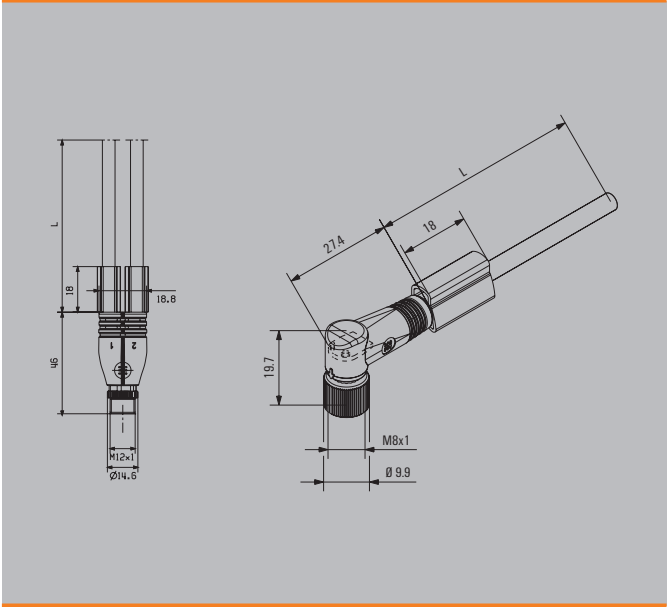
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm
Approvals	CE

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



B-coded M12 cables



We offer a wide range of products in this category:

- Straight and angled plug-in connectors with optional LED status indicator
- Various numbers of poles: 3, 4, 5, 8 and 12 poles
- Different cable cross-sections from 0.25 mm² to 0.75 mm²
- Both PVC and PUR cables; the latter are suitable for use in drag chains

Weidmüller offers cables in standard lengths of 1.5 m, 3 m, 5 m and 10 m. **All other lengths are available on request!**

Example of designation

Connector at one end only

SAIL-M8 B G R - 3 B 1.5 U

L = Metal nut P = Plastic nut V = Stainless steel	M12 M8	3 4 5 8 12 No. poles A-coded	Cable length 1.5 m 3.0 m 5.0 m 10 m X m	Cable V = PVC U = PUR halogen-free T = resistant to splatter TP = resistant to splatter + PE TOV = PUR orange TYV = PUR yellow safety
not specified = Pin B = Socket		2/4 bridged (only with M12B)		
G = straight W = 90°		PB = Profibus DP CD = CANBUS/ DeviceNet™		
for M8 socket R = Clip for M8 pin and M12 not specified		B = B-coded		

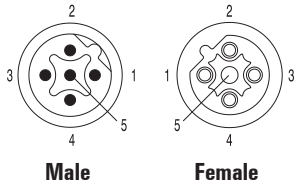
Pin Socket

SAIL-M12 G M8 W R - 3 B 1.5 U

L = Metal nut P = Plastic nut V = Stainless steel	M12 M8	M12 M8	3 4 5 No. poles A-coded	Cable length 1.5 m 3.0 m 5.0 m 10 m X m	Cable V = PVC U = PUR halogen-free T = resistant to splatter TOV = PUR orange TYV = PUR yellow safety with PB/CD A = PUR (CD) B = PVC (CD) D = PUR (PB) E = PVC (PB)
G = straight W = 90°			2/4 bridged (only with M12B)		
			PB = Profibus DP CD = CANBUS/ DeviceNet™		
for M8 socket R = Clip for M8 pin and M12 not specified			B = B-coded		



One end without connector
M12
B-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
Male, angled	
PUR halogen-free	1.5 m
Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Note	

3-pole

SAIL-M12G-3B-1.5U	1057770150
SAIL-M12W-3B-1.5U	1057800150
SAIL-M12BG-3B-1.5U	1057740150
SAIL-M12BW-3B-1.5U	1061890150
Other lengths on request	

4-pole

SAIL-M12G-4B-1.5U	1057780150
SAIL-M12W-4B-1.5U	1057810150
SAIL-M12BG-4B-1.5U	1057750150
SAIL-M12BW-4B-1.5U	1061900150
Other lengths on request	

5-pole

SAIL-M12G-5B-1.5U	1057790150
SAIL-M12W-5B-1.5U	1057820150
SAIL-M12BG-5B-1.5U	1061880150
SAIL-M12BW-5B-1.5U	1057760150
Other lengths on request	

Standard cable lengths

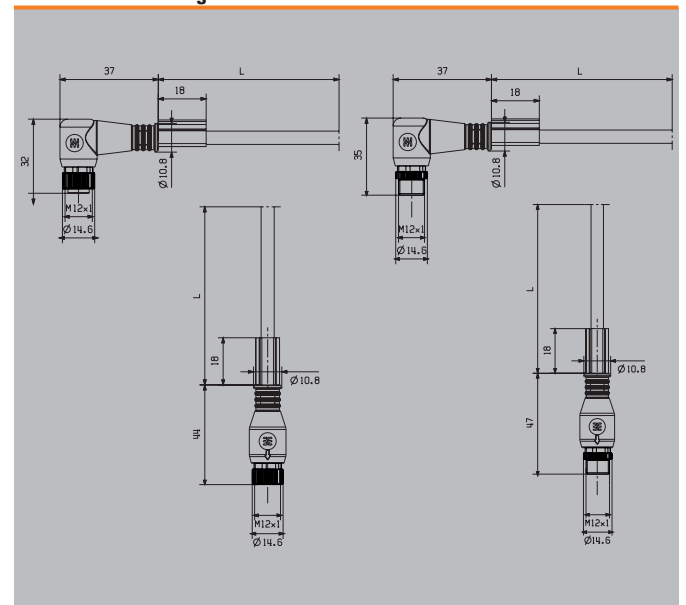
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

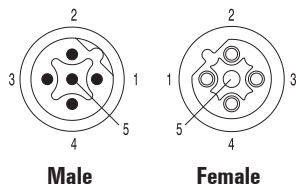


Sensor cables B-coded

Connecting cables

M12 to M12

B-coded



Ordering data

Male, straight - Female, straight	
PUR halogen-free	1.5 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
Note	

	3-pole
SAIL-M12GM12G-3B-1.5U	1057830150
SAIL-M12GM12W-3B-1.5U	1057900150
SAIL-M12WM12W-3B-1.5U	1061910150
SAIL-M12WM12G-3B-1.5U	1057870150
Other lengths on request	

	4-pole
SAIL-M12GM12G-4B-1.5U	1057840150
SAIL-M12GM12W-4B-1.5U	1057910150
SAIL-M12WM12W-4B-1.5U	1061920150
SAIL-M12WM12G-4B-1.5U	1057880150
Other lengths on request	

	5-pole
SAIL-M12GM12G-5B-1.5U	1057850150
SAIL-M12GM12W-5B-1.5U	1057920150
SAIL-M12WM12W-5B-1.5U	1061930150
SAIL-M12WM12G-5B-1.5U	1057890150
Other lengths on request	

Standard cable lengths

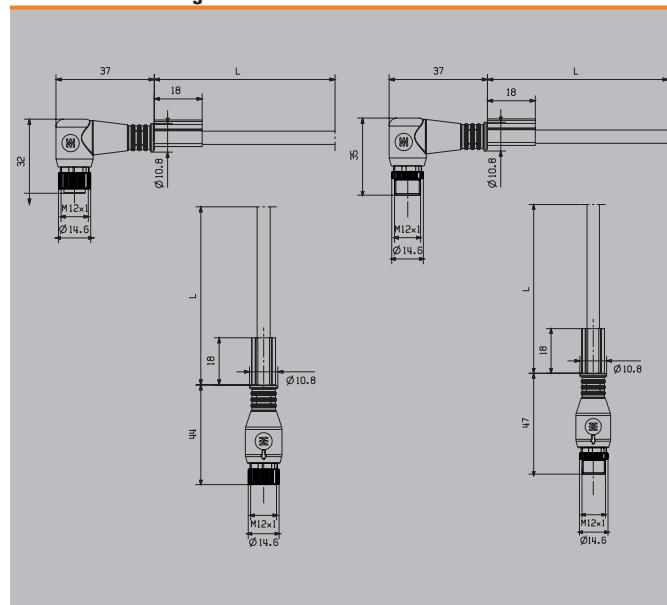
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE: cULus

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



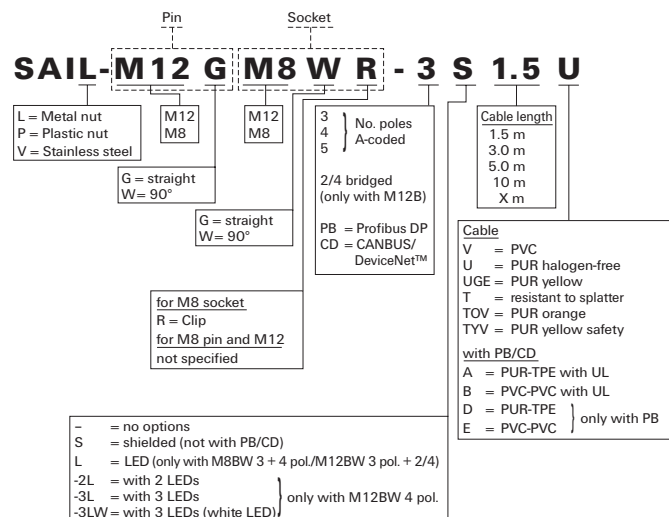
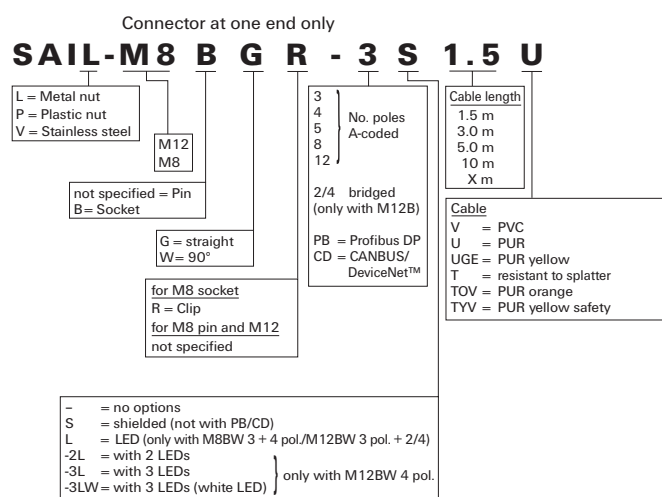
M8 and M12 cables for the automotive industry



We offer a wide range of products in this category:

- Straight and angled plug-in connectors with optional LED status indicator
- Various numbers of poles: 3, 4 and 5
- Orange and yellow cables
- PUR cables resistant to welding sparks for use in drag chains

Example of designation



M12



M12 safety application

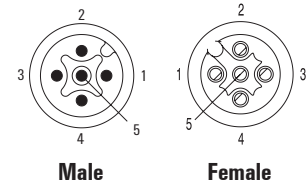


M8





One end without connector
M12
A-coded
Cables with pictograms



		4-pole		5-pole			
Male, straight							
PUR halogen-free orange	1.5 m	SAIL-M12G-4-1.5TOV	2812550150	SAIL-M12G-5-1.5TOV	2812690150		
Female, straight							
PUR halogen-free orange	1.5 m	SAIL-M12BG-4-1.5TOV	2812520150	SAIL-M12BG-5-1.5TOV	2812640150		
PUR halogen-free yellow safety	1.5 m			SAIL-M12BG-5-1.5TYV	2812750150		
Female, angled							
PUR halogen-free orange	1.5 m			SAIL-M12BW-5-1.5TOV	2812680150		
PUR halogen-free yellow safety	1.5 m	SAIL-M12BW-4-1.5TOV	2812540150	SAIL-M12BW-5-1.5TYV	2812780150		
Note		Other lengths on request		Other lengths on request			

Standard cable lengths

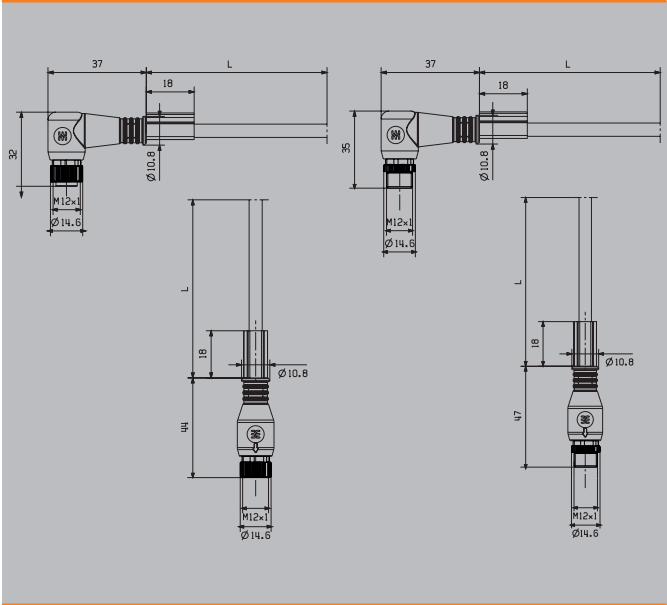
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE, cULus, UKCA

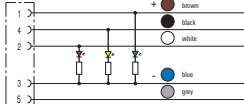
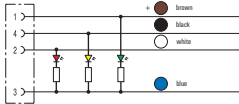
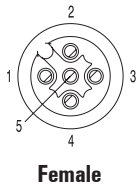
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables
Automotive industry

One end without connector
M12 with LED
A-coded
Cables with pictograms



Ordering data

Female, angled	
PUR halogen-free orange	1.5 m
Note	

3 LEDs

4-pole

SAIL-M12BW-4-3LR1.5TOV	
Other lengths on request	2812530150

3 LEDs

5-pole

SAIL-M12BW-5-3LR1.5TOV	
Other lengths on request	2812670150

Standard cable lengths

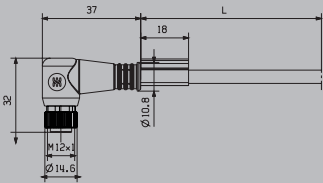
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; UL; UKCA

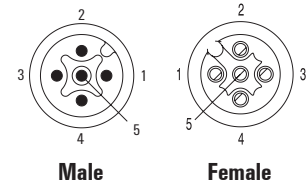
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing





Connecting cables
M12 to M12
A-coded
Cables with pictograms



Ordering data

Male, straight - Female, straight	
PUR halogen-free orange	1.5 m
PUR halogen-free yellow safety	1.5 m
Male, straight - Female, angled	
PUR halogen-free orange	1.5 m
PUR halogen-free yellow safety	1.5 m
Note	

4-pole	
SAIL-M12GM12G-4-1.5TOV	2812600150
SAIL-M12GM12W-4-1.5TOV	2812630150
Other lengths on request	

5-pole	
SAIL-M12GM12G-5-1.5TOV	2812700150
SAIL-M12GM12G-5-1.5TYV	2812800150
SAIL-M12GM12W-5-1.5TOV	2812730150
SAIL-M12GM12W-5-1.5TYV	2812820150
Other lengths on request	

Standard cable lengths

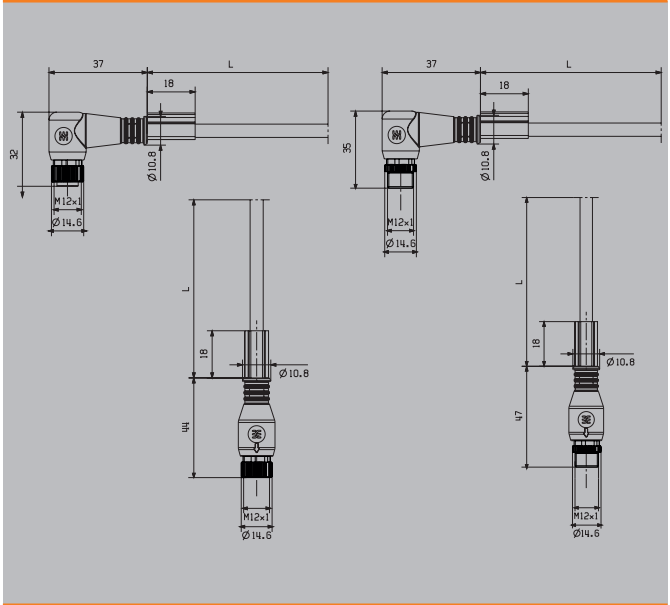
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

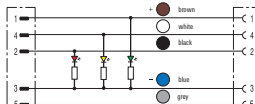
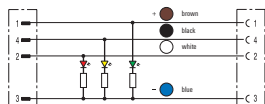
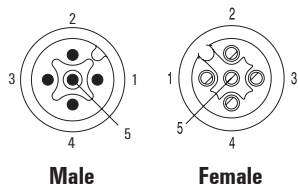
Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE, cULus, UKCA

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing





Ordering data

Male, straight - Female, straight	
PUR halogen-free orange	1.5 m
Male, straight - Female, angled	
PUR halogen-free orange	1.5 m
Note	

3 LEDs

4-pole

SAIL-M12GM12G-4-3LR1.5TOV	2812570150
SAIL-M12GM12W-4-3LR1.5TOV	2812610150
Other lengths on request	

3 LEDs

5-pole

SAIL-M12GM12W-5-3LR1.5TOV **2812720150**

Other lengths on request

Standard cable lengths

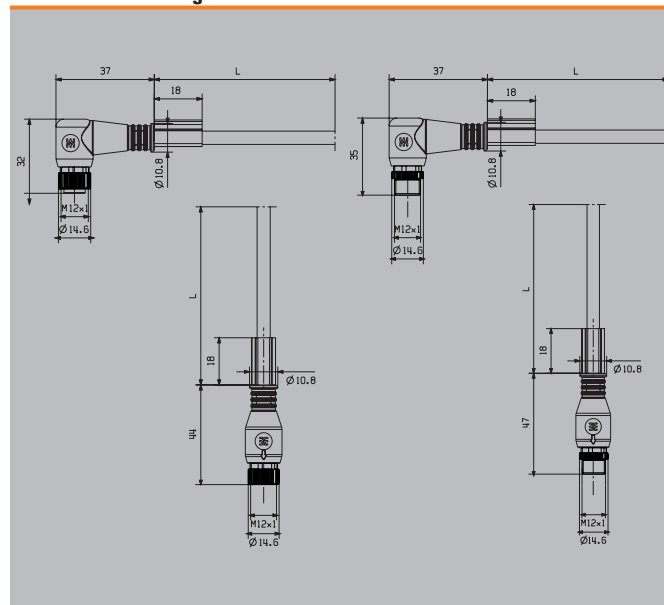
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE: UL: UKCA

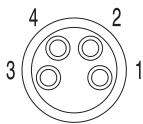
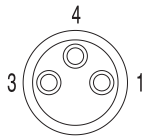
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

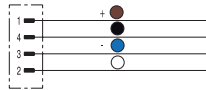
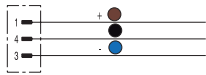




One end without connector
M8
Cables with pictograms



Female



Ordering data

Female, straight	
PUR halogen-free orange	1.5 m
Female, angled	
PUR halogen-free orange	1.5 m
Note	

3-pole

SAIL-M8BG-3-1.5TOV	2812880150
SAIL-M8BW-3-1.5TOV	2812940150
Other lengths on request	

4-pole

SAIL-M8BG-4-1.5TOV	2813030150
SAIL-M8BW-4-1.5TOV	2813040150
Other lengths on request	

Standard cable lengths

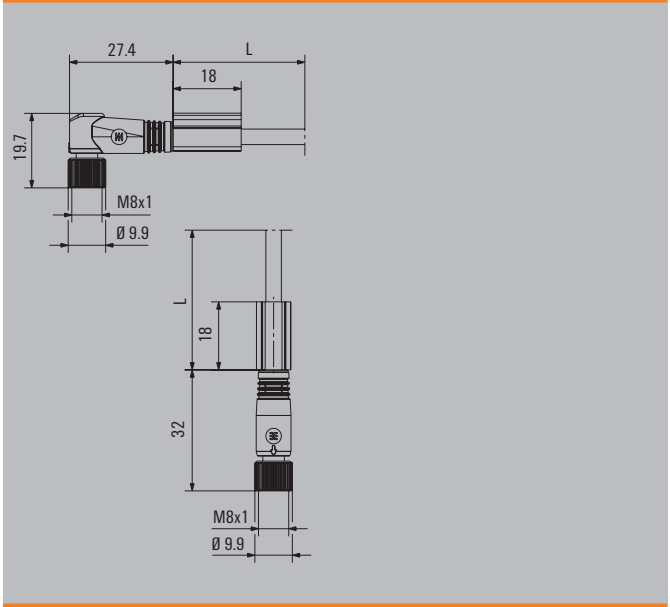
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	CE; cULus; UKCA

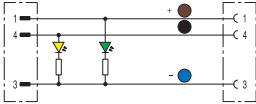
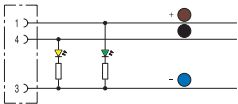
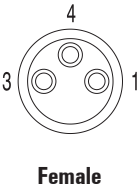
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables
Automotive industry

One end without connector
M8 with LED
Connecting cables
M8 to M12 with LED
Cables with pictograms



Ordering data

Female, angled	
PUR halogen-free orange	1.5 m
Male, straight - Female, angled	
PUR halogen-free orange	1.5 m
Note	

2 LEDs

3-pole	
SAIL-M8BW-3L-1.5TOV	2812910150
Other lengths on request	

3-pole

3-pole	
SAIL-M12GM8W-3L-1.5TOV	2812950150

Standard cable lengths

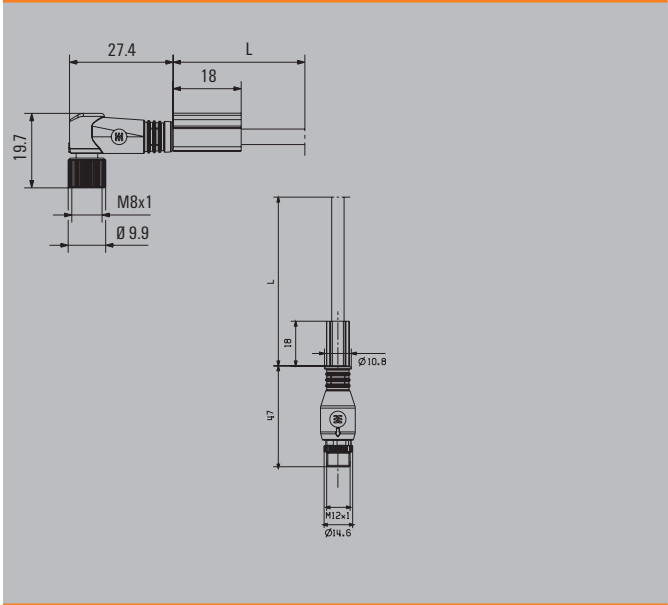
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section		0.34 mm ²
Rated voltage		24 V DC
Rated current		4 A
Temperature range of housing		-25...+85 °C
Contact surface		Gold-plated
Protection degree		IP65, IP66, IP67, IP68, when screwed in
AF size		12
Tightening torque		M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm
Approvals		CE; UL; UKCA

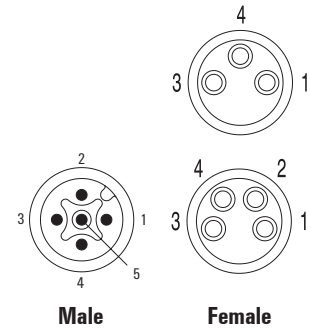
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing





Connecting cables
M12 to M8
Cables with pictograms



Ordering data

Male, straight - Female, straight	
PUR halogen-free orange	1.5 m
Male, straight - Female, angled	
PUR halogen-free orange	1.5 m
Note	

3-pole	
SAIL-M12GM8G-3-1.5TOV	2812840150
SAIL-M12GM8W-3-1.5TOV	2812850150
Other lengths on request	

4-pole	
SAIL-M12GM8G-4-1.5TOV	2812960150
SAIL-M12GM8W-4-1.5TOV	2812970150
Other lengths on request	

Standard cable lengths

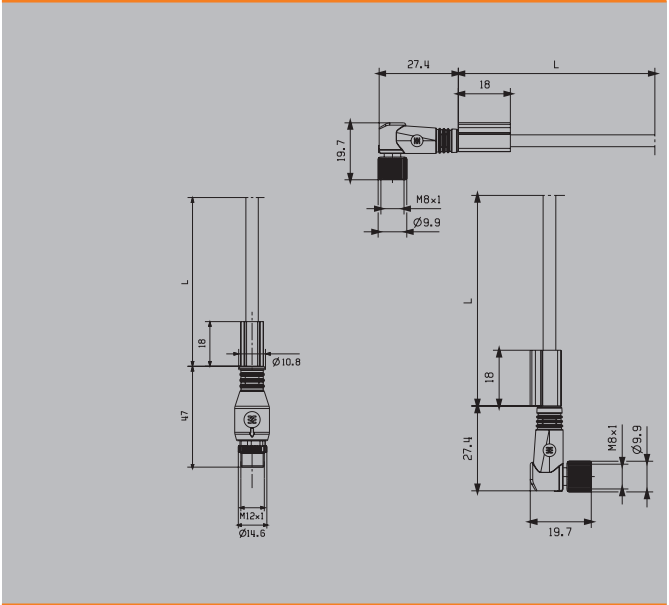
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-25...+85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm, M8: 0.5 - 0.6 Nm
Approvals	CE, UKCA

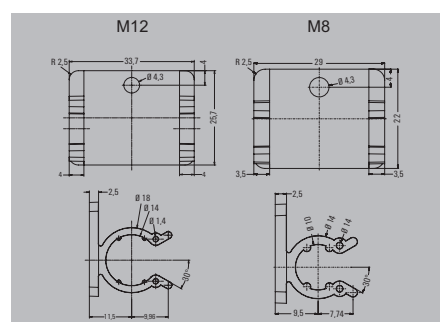
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



SAI Clip

M8 screw connection



Ordering data

Type	Qty.	Order No.
SA-M8-CLIP	10	1363800000
Other lengths on request		

SAI Separation protection cap

Hole for sealing: Yes

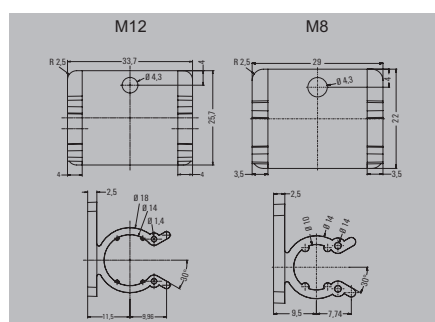


Ordering data

Type	Qty.	Order No.
SAITSK-M12-B0	1	2429320000

SAI Clip

M12 screw connection



Ordering data

Type	Qty.	Order No.
SA-M12-CLIP	10	1362750000
Other lengths on request		

SAI Separation protection cap

Hole for sealing: No



Ordering data

Type	Qty.	Order No.
SAI-TSK-M12	10	2426980000

Valve plug, ISO 4400



- Variants in different designs
 - A (contact spacing: 18mm),
 - B (11mm) or BD (10mm)
 - C (9.4mm) or CD (8mm)
- 3 and 4-pole versions with an optional LED as a status indicator
- Different protective circuits depending on the requirements of the application (such as diode, suppressor diode, varistor)
- Variants with one end without connector, or overmoulded M8 and M12 plug-in connector

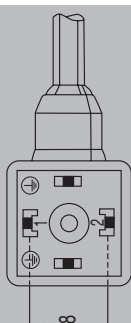
One end without connector designation code

Valve plug Connector at one end only		
SAIL-VSBD - 1.5 U		
Valve plug	Cable length	Cable
VSA	1.5 m	V = PVC-PVC
VSBD	3.0 m	U = PUR-
VSB	5.0 m	Halogen-free
VSC	10 m	
VSCD	X m	

Connecting line designation code

Valve plug Connecting cable			
Socket		Pin	
SAIL-VSBD		M8W 1.5 U	
Valve plug	M12 M8	Cable length	Cable
VSA		1.5 m	V = PVC-PVC
VSBD		3.0 m	U = PUR-
VSB		5.0 m	Halogen-free
VSC		10 m	
VSCD		X m	
G = straight W = 90°			

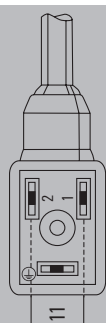
Valve plug
Type A



Contact gap 18 mm

Type: VSA

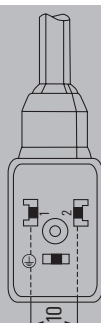
Valve plug
Type B



Contact gap 11 mm

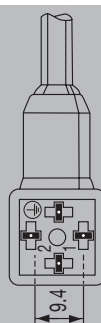
Industry standard
Type: VSB

Valve plug
Type BD



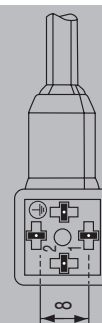
Contact gap 10 mm
to DIN 43650 (ISO 6952)
Type: VSBD

Valve plug
Type C



Contact gap 9.4 mm
Industry standard
Type: VSC

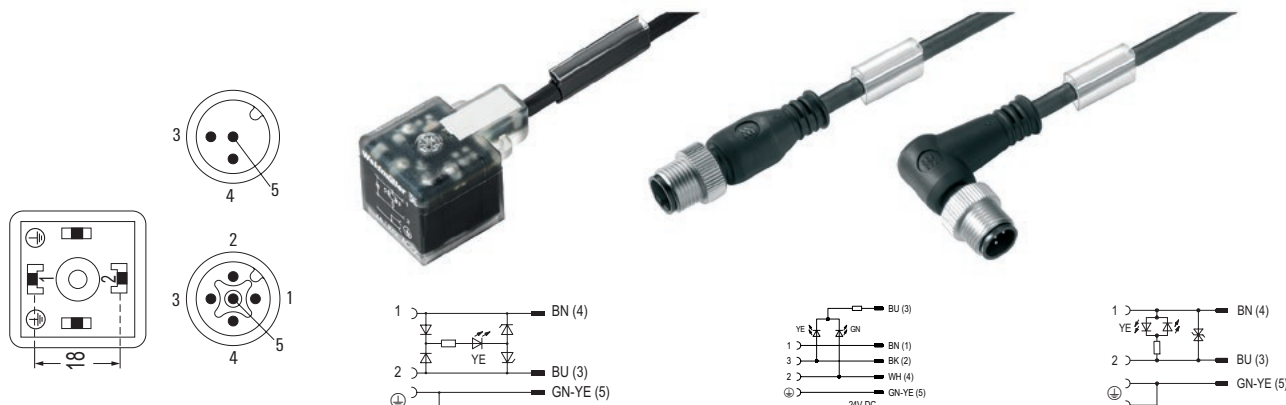
Valve plug
Type CD



Contact gap 8 mm
to DIN 43650 (ISO 6952)
Type: VSCD

Design A / M12

Contact distance 18mm



Ordering data

Valve plug - M12 Male straight	
PUR halogen-free	1.5 m
Valve plug - M12 Male angled	
PUR halogen-free	1.5 m
Valve plug - open cable end	
PUR halogen-free	1.5 m
Note	

Zener diode

24 V

SAIL-VSA-M12G-1.5U	9457040000
SAIL-VSA-M12W-1.5U	1857690150
SAIL-VSA-1.5U	9457710150
Other lengths on request	

Pressure switch

24 V

SAIL-VSA-DS-M12G-1.5U	1316550150
SAIL-VSA-DS-1.5U	1896990150
Other lengths on request	

Suppressor diode

24 V

SAIL-VSA-1.5U(0.5)	1845120150
Other lengths on request	

Standard cable lengths

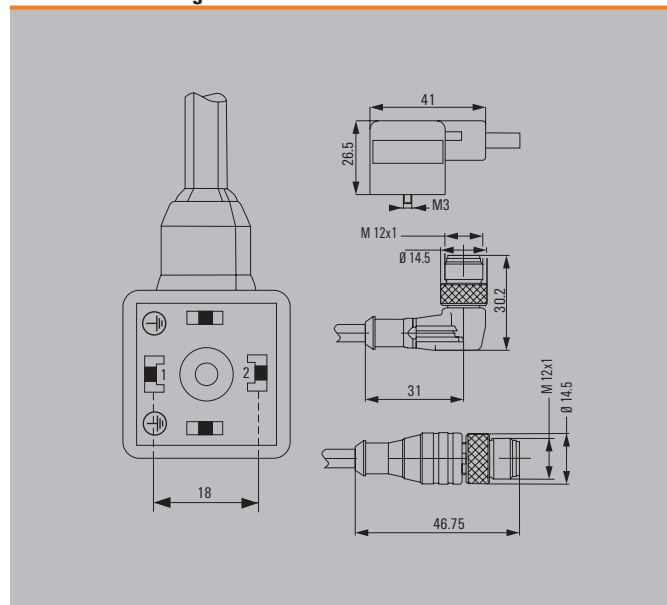
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm ²
Rated voltage	24 V
Rated current	4 A
Temperature range of housing	-25...+80 °C
Contact surface	tinned
Protection degree	IP67, when screwed in
AF size	
Tightening torque	Mounting screw M3: 0.4 Nm, M12: 0.8 - 1.2 Nm
Approvals	CE; UKCA

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

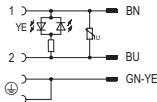
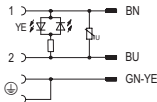
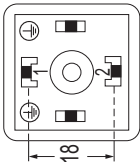
Dimensioned drawing



Valve cables

Design type A

Contact distance 18mm



Ordering data

Valve plug - open cable end	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
Note	

Varistor	24 V
SAIL-VSAV-3.0U	1525690300
Other lengths on request	

Varistor	230 V
SAIL-VSAV-230V-1.5U	1549100150
Other lengths on request	

Standard cable lengths

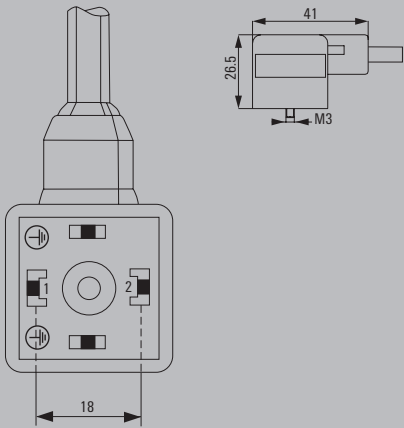
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm²
Rated voltage	24 V
Rated current	4 A
Temperature range of housing	-25...+80 °C
Contact surface	tinned
Protection degree	IP67, when screwed in
AF size	
Tightening torque	Mounting screw M3: 0.4 Nm
Approvals	CE; UKCA

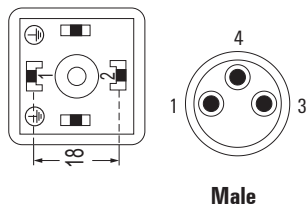
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

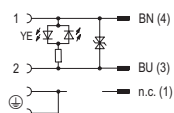


Design A to M8

Contact spacing 18 mm



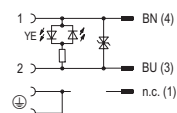
Male



Suppressor diode 24 V

SAIL-VSA-M8G-3-1.5U 1099760150

Other lengths on request



Suppressor diode 24 V

SAIL-VSA-M8W-3-1.5U 1026190150

Other lengths on request

Ordering data

Valve plug - M8 Male straight	
PUR halogen-free	1.5 m
Valve plug - M8 Male angled	
PUR halogen-free	1.5 m
Note	

Standard cable lengths

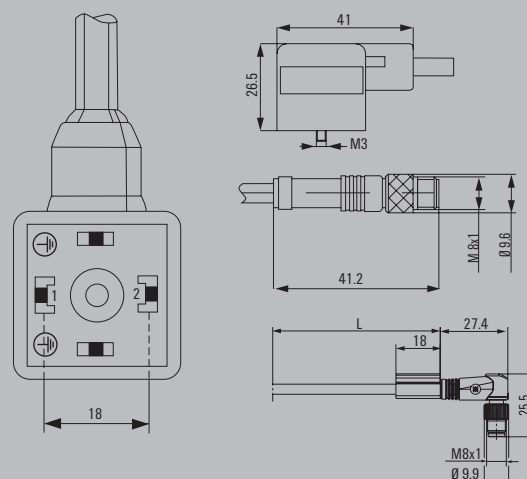
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm ²
Rated voltage	24 V
Rated current	4 A
Temperature range of housing	-25...+80 °C
Contact surface	tinned
Protection degree	IP67, when screwed in
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm, Mounting screw M3: 0.4 Nm
Approvals	CE; UKCA

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

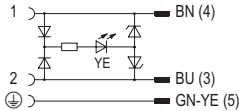
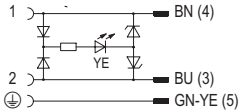
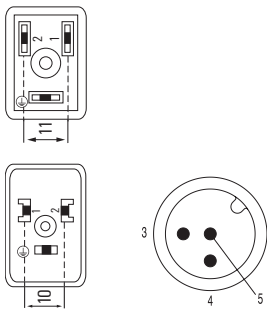
Dimensioned drawing



Valve cables

Design B/BD to M12

Contact spacing B = 11 mm; BD = 10mm
PE opposite cable outlet



Ordering data

Valve plug - Male straight	
PUR halogen-free	1.5 m
Valve plug - Male angled	
PUR halogen-free	1.5 m
Valve plug - open cable end	
PUR halogen-free	1.5 m
Note	

Zener diode (B)	24 V
SAIL-VSB-M12G-1.5U	9457680150
SAIL-VSB-M12W-1.5U	1857700150
SAIL-VSB-1.5U	9457930150
Other lengths on request	

Zener diode (BD)	24 V
SAIL-VSBD-M12G-1.5U	9457780150
SAIL-VSBD-M12W-1.5U	1857710150
SAIL-VSBD-1.5U	9456070150
Other lengths on request	

Standard cable lengths

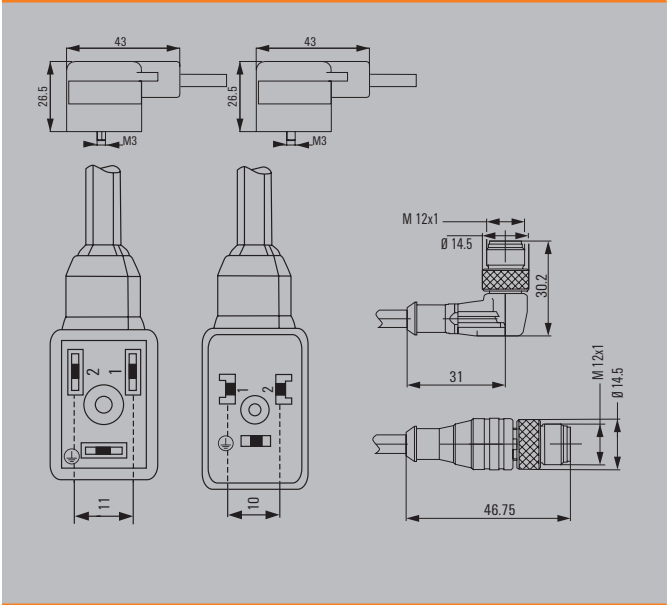
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm ²
Rated voltage	24 V
Rated current	4 A
Temperature range of housing	-25...+80 °C
Contact surface	tinned
Protection degree	IP67, when screwed in
AF size	
Tightening torque	Mounting screw M3: 0.4 Nm, M12: 0.8 - 1.2 Nm
Approvals	CE; UKCA

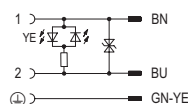
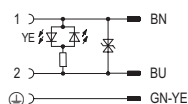
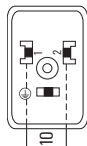
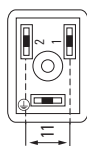
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Design B/BD

Contact spacing B = 11 mm; BD = 10mm
PE at cable outlet

**Ordering data**

Valve plug 180° - open cable end	
PUR halogen-free	1.5 m
Note	

Suppressor diode (B)**24 V**

SAIL-VSB-180-1.5U(0.5)	1845140150
Other lengths on request	

Suppressor diode (BD)**24 V**

SAIL-VSBD-180-1.5U(0.5)	1845160150
Other lengths on request	

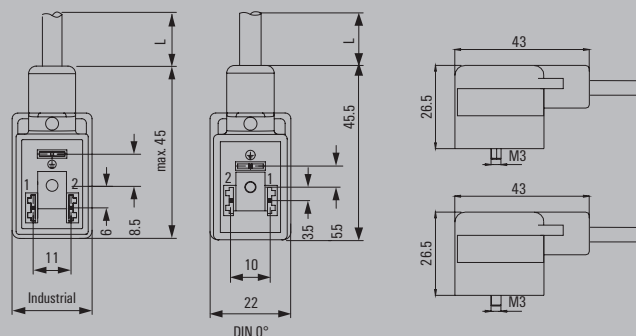
Standard cable lengths

All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm ²
Rated voltage	24 V
Rated current	4 A
Temperature range of housing	-25...+80 °C
Contact surface	tinned
Protection degree	IP67, when screwed in
AF size	
Tightening torque	Mounting screw M3: 0.4 Nm
Approvals	CE; UKCA

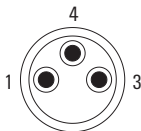
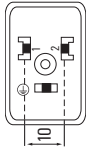
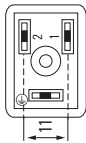
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

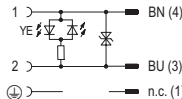
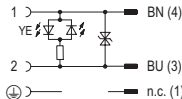
Valve cables

Design B/BD to M8

Contact spacing B = 11 mm; BD = 10mm
PE opposite the cable entry



Male



Ordering data

Valve plug - M8 Male straight	
PUR halogen-free	0.15 m
PUR halogen-free	1.5 m
Valve plug 180° - M8 Male straight	
PUR halogen-free	1.5 m
Valve plug - M8 Male angled	
PUR halogen-free	1.5 m
Note	

Suppressor diode (B)	24 V
SAIL-VSB-M8G-3-1.5U	1271590150
SAIL-VSB-M8W-3-1.5U	1026180150
Other lengths on request	

Suppressor diode (BD)	24 V
SAIL-VSBD-M8G-3-1.5U	1099770150
SAIL-VSBD180-M8G-3-1.5U	1276450150
Other lengths on request	

Standard cable lengths

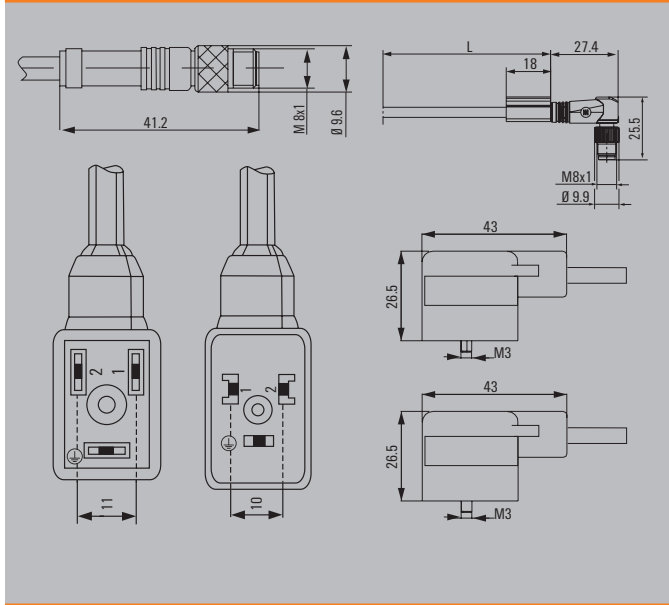
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm²
Rated voltage	24 V
Rated current	4 A
Temperature range of housing	-25...+80 °C
Contact surface	tinned
Protection degree	IP67, when screwed in
AF size	
Tightening torque	Mounting screw M3: 0.4 Nm, M8: 0.5 - 0.6 Nm
Approvals	CE; UKCA

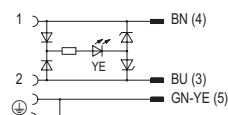
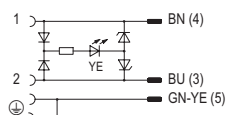
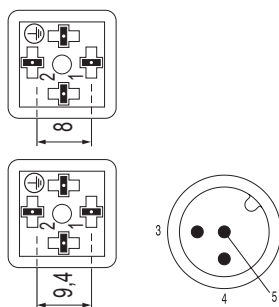
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Design C/CD to M12

Contact spacing C = 9.4 mm; CD = 8 mm



Ordering data

Valve plug - Male straight	
PUR halogen-free	1.5 m
Valve plug - Male angled	
PUR halogen-free	1.5 m
Valve plug - open cable end	
PUR halogen-free	1.5 m
Note	

Zener diode (C)

24 V

SAIL-VSC-M12G-1.5U	9457400150
SAIL-VSC-M12W-1.5U	1857720150
SAIL-VSC-1.5U	9457920150
Other lengths on request	

Zener diode (CD)

24 V

SAIL-VSCD-M12G-1.5U	9456170150
SAIL-VSCD-M12W-1.5U	1857730150
SAIL-VSCD-1.5U	9456240150
Other lengths on request	

Standard cable lengths

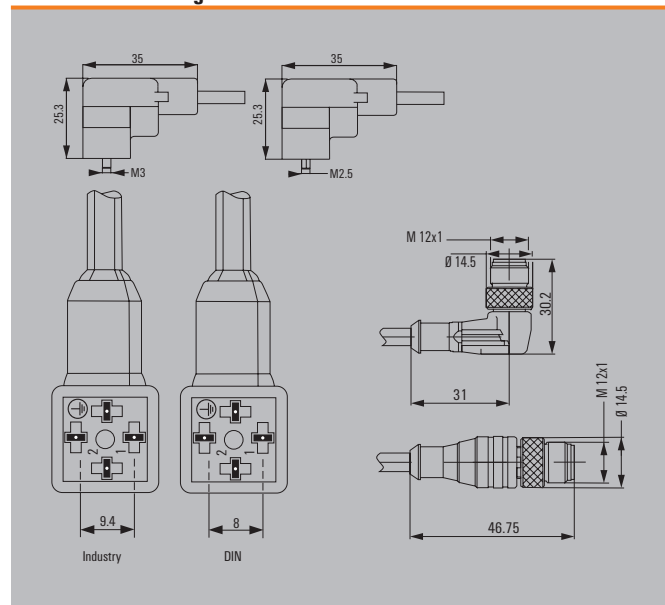
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm ²
Rated voltage	24 V
Rated current	4 A
Temperature range of housing	-25...+80 °C
Contact surface	tinned
Protection degree	IP67, when screwed in
AF size	
Tightening torque	Mounting screw M3: 0.4 Nm, M2.5 mounting screw: 0.3 Nm, M12: 0.8 - 1.2 Nm
Approvals	CE; UKCA

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

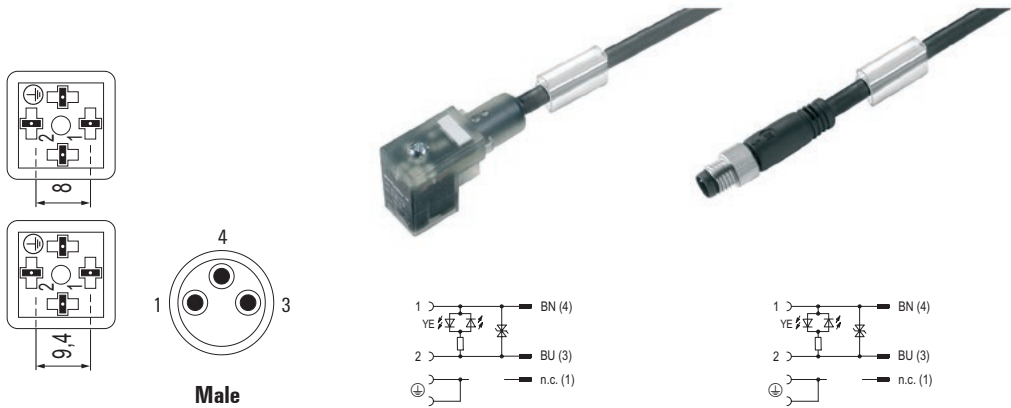
Dimensioned drawing



Valve cables

Design C/CD to M8

Contact spacing C = 9.4 mm; CD = 8mm



Ordering data

Valve plug - M8 Male straight	
PUR halogen-free	0.15 m
PUR halogen-free	1.5 m
Note	

Suppressor diode (C)

24 V

SAIL-VSC-M8G-0.15U	1309680015
Other lengths on request	

Suppressor diode (CD)

24 V

SAIL-VSCD-M8G-0.15U	1916700015
SAIL-VSCD-M8G-3-1.5U	1916700150
Other lengths on request	

Standard cable lengths

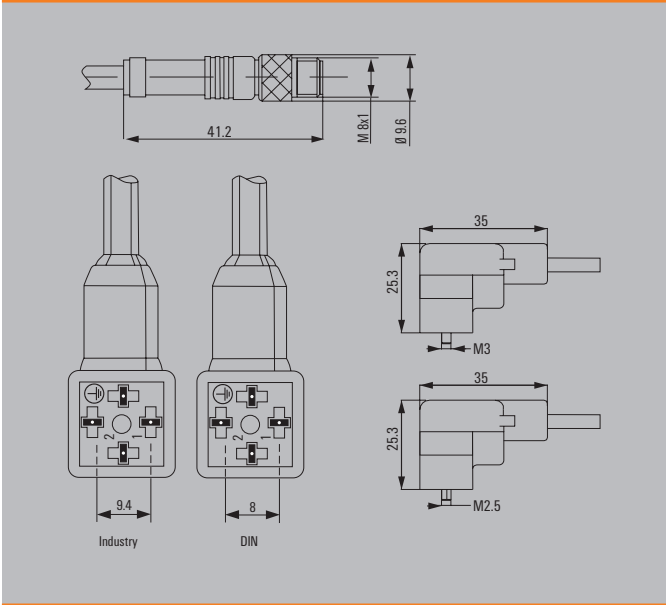
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm²
Rated voltage	24 V
Rated current	4 A
Temperature range of housing	-25...+80 °C
Contact surface	tinned
Protection degree	IP67, when screwed in
AF size	
Tightening torque	Mounting screw M3: 0.4 Nm, M2.5 mounting screw: 0.3 Nm, M8: 0.5 - 0.6 Nm
Approvals	CE; UKCA

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Connecting line
100 m ring

0.25 mm², PUR, 3 poles, unshielded



0.25 mm², PUR, 4 poles, unshielded



Technical data

Shielded
Number of poles
Wire cross section
Outer diameter
Sheath material
Sheathing colour
Insulation
Colour coding
Temperature range, moving, min / max
Temperature range fixed, min / max
Halogen
Suitable for cable carriers
Resistant to welding beads
Torsion resistance
Acceleration
Speed
Bending cycles

Note

No
3
0.25 mm²
4.1 ± 0.2 mm
PUR
black
PP
brown, blue, black
-25...80 °C
-40...80 °C
No
Yes
No
360
5
5
12 Mio

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

No
4
0.25 mm²
4.4 ± 0.2 mm
PUR
black
PP
brown, white, blue, black
-25...80 °C
-40...80 °C
No
Yes
No
360
5
5
12 Mio

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Ordering data

100.0 m

Note

Type	Qty.	Order No.
SAIH-3X0,25(PUR)	100	1902140000
Other lengths on request		

Type	Qty.	Order No.
SAIH-4X0,25(PUR)	100	1902120000
Other lengths on request		

Accessories

Tools
Sheathing strippers, For UTP and STP data cables
Cutting tool

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

See chapter W for further technical data

Connecting cable for sensors and actuators

Connecting line
100 m ring

0.34 mm², PUR, 3 poles, unshielded



0.34 mm², PUR, 4 poles, unshielded



B

Technical data

Shielded
Number of poles
Wire cross section
Outer diameter
Sheath material
Sheathing colour
Insulation
Colour coding
Temperature range, moving, min / max
Temperature range fixed, min / max
Halogen
Suitable for cable carriers
Resistant to welding beads
Torsion resistance
Acceleration
Speed
Bending cycles
Note

No
3
0.34 mm²
4.3 ± 0.2 mm
PUR/ TPE
black
PP
brown, blue, black
-25...80 °C
-50...80 °C
No
Yes
No
360
5
5
12 Mio
Further technical data of the cables on eshop.weidmuller.com and in Chapter W (Technical Annex)

No
4
0.34 mm²
4.7 ± 0.2 mm
PUR
black
PP
brown, white, blue, black
-25...80 °C
-40...80 °C
No
Yes
No
360
5
5
12 Mio
Further technical data of the cables on eshop.weidmuller.com and in Chapter W (Technical Annex)

Ordering data

100.0 m
Note

Type	Qty.	Order No.
SAIH-3X0,34(PUR)	100	1902110000

Type	Qty.	Order No.
SAIH-4X0,34(PUR)	100	1902130000

Accessories

Tools
Sheathing strippers, For UTP and STP data cables
Cutting tool

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

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Connecting line
100 m ring

0.34 mm², PUR, 5 poles, unshielded



Technical data

Shielded	No
Number of poles	5
Wire cross section	0.34 mm²
Outer diameter	5.0 ± 0.2 mm
Sheath material	PUR
Sheathing colour	black
Insulation	PP
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	360
Acceleration	5
Speed	5
Bending cycles	12 Mio
Note	Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Ordering data

	100.0 m	
Note		
Type	Qty.	Order No.
SAIH-5X0,34(PUR)	100	1022960000
Other lengths on request		

Accessories

Tools		
Sheathing strippers, For UTP and STP data cables		
Cutting tool		
Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

Connecting cable for sensors and actuators

Connecting line
100 m ring

0.25 mm², PVC, 3 poles, unshielded



0.25 mm², PVC, 4 poles, unshielded



B

Technical data

Shielded
Number of poles
Wire cross section
Outer diameter
Sheath material
Sheathing colour
Insulation
Colour coding
Temperature range, moving, min / max
Temperature range fixed, min / max
Halogen
Suitable for cable carriers
Resistant to welding beads
Torsion resistance
Acceleration
Speed
Bending cycles
Note

No
3
0.25 mm²
4.5 ± 0.2 mm
PVC
black
PVC
blue, brown, black
-5...80 °C
-30...80 °C
Yes
No
No
0
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

No
4
0.25 mm²
4.8 ± 0.2 mm
PVC
black
PVC
brown, white, blue, black
-5...80 °C
-30...80 °C
Yes
No
No
0
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Ordering data

100.0 m
Note

Type	Qty.	Order No.
SAIH-3X0,25(PVC)	100	1902190000
Other lengths on request		

Type	Qty.	Order No.
SAIH-4X0,25(PVC)	100	1902170000
Other lengths on request		

Accessories

Tools
Sheathing strippers, For UTP and STP data cables
Cutting tool

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

--

--

Connecting line
100 m ring

0.34 mm², PVC, 3 poles, unshielded



0.34 mm², PVC, 4 poles, unshielded



Technical data

Shielded
Number of poles
Wire cross section
Outer diameter
Sheath material
Sheathing colour
Insulation
Colour coding
Temperature range, moving, min / max
Temperature range fixed, min / max
Halogen
Suitable for cable carriers
Resistant to welding beads
Torsion resistance
Acceleration
Speed
Bending cycles

Note

No
3
0.34 mm ²
4.9 ± 0.2 mm
PVC
black
PVC
brown, blue, black
-5...80 °C
-30...80 °C
Yes
No
No
0

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

No
4
0.34 mm ²
5.3 ± 0.2 mm
PVC
black
PVC
brown, white, blue, black
-5...80 °C
-30...80 °C
Yes
No
No
0

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Ordering data

100.0 m
Note

Type	Qty.	Order No.
SAIH-3X0,34(PVC)	100	1902160000
Other lengths on request		

Type	Qty.	Order No.
SAIH-4X0,34(PVC)	100	1902180000
Other lengths on request		

Accessories

Tools
Sheathing strippers, For UTP and STP data cables
Cutting tool

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

Connecting cable for sensors and actuators

Connecting line
100 m ring

0.34 mm², PVC, 5 poles, unshielded



B

Technical data

Shielded	No
Number of poles	5
Wire cross section	0.34 mm²
Outer diameter	5.7 ± 0.2 mm
Sheath material	PVC
Sheathing colour	black
Insulation	PVC
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-5...80 °C
Temperature range fixed, min / max	-30...80 °C
Halogen	Yes
Suitable for cable carriers	No
Resistant to welding beads	No
Torsion resistance	0
Acceleration	
Speed	
Bending cycles	
Note	

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-5X0.34(PVC)	100	1412620000
Note	Other lengths on request		

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	9030060000
Cutting tool	KT 8	1	9002650000

Note	
------	--

Connecting line
100 m ring

0.34 mm², PUR, 3 poles, unshielded

0.34 mm², PUR, 4 poles, unshielded



Technical data

Shielded
Number of poles
Wire cross section
Outer diameter
Sheath material
Sheathing colour
Insulation
Colour coding
Temperature range, moving, min / max
Temperature range fixed, min / max
Halogen
Suitable for cable carriers
Resistant to welding beads
Torsion resistance
Acceleration
Speed
Bending cycles

No
3
0.34 mm²
4.3 ± 0.2 mm
PUR
yellow
PP
brown, blue, black
-25...80 °C
-40...80 °C
No
Yes
No
360
5
5
5 Mio

No
4
0.34 mm²
4.7 ± 0.2 mm
PUR
yellow
PP
brown, white, blue, black
-25...80 °C
-40...80 °C
No
Yes
No
360
5
5
5 Mio

Note

Ordering data

100.0 m

Note

Type	Qty.	Order No.
SAIH-3X0.34(PUR)GE	100	1345520000
Other lengths on request		

Type	Qty.	Order No.
SAIH-4X0.34(PUR)GE	100	1345530000
Other lengths on request		

Accessories

Tools

Sheathing strippers, For UTP and STP data cables
Cutting tool

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

Connecting cable for sensors and actuators

Connecting line
100 m ring

0.34 mm², PUR, 5 poles, unshielded



B

Technical data

Shielded	No
Number of poles	5
Wire cross section	0.34 mm²
Outer diameter	5.0 ± 0.2 mm
Sheath material	PUR
Sheathing colour	yellow
Insulation	PP
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	360
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-5X0.34(PUR)GE	100	1345540000
Note	Other lengths on request		

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	9030060000
Cutting tool	KT 8	1	9002650000

Note	
------	--

Connecting line
100 m ring

0.34 mm², PUR, 3 poles, shielded



0.34 mm², PUR, 4 poles, shielded



Technical data

Shielded
Number of poles
Wire cross section
Outer diameter
Sheath material
Sheathing colour
Insulation
Colour coding
Temperature range, moving, min / max
Temperature range fixed, min / max
Halogen
Suitable for cable carriers
Resistant to welding beads
Torsion resistance
Acceleration
Speed
Bending cycles

Yes
3
0.34 mm²
5.0 ± 0.2 mm
PUR
black
PP
brown, blue, black
-25...80 °C
-40...80 °C
No
Yes
No
0
5
200
2 Mio

Yes
4
0.34 mm²
5.4 ± 0.2 mm
PUR
black
PP
black, brown, white, blue
-25...80 °C
-40...80 °C
No
Yes
No
0
5
200
2 Mio

Note

Ordering data

100.0 m

Note

Type	Qty.	Order No.
SAIH-3X0.34-S(PUR)	100	1357320000
Other lengths on request		

Type	Qty.	Order No.
SAIH-4X0.34-S(PUR)	100	1357330000
Other lengths on request		

Accessories

Tools
Sheathing strippers, For UTP and STP data cables
Cutting tool

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

Connecting cable for sensors and actuators

Connecting line
100 m ring

0.34 mm², PUR, 5 poles, shielded



B

Technical data

Shielded
Number of poles
Wire cross section
Outer diameter
Sheath material
Sheathing colour
Insulation
Colour coding
Temperature range, moving, min / max
Temperature range fixed, min / max
Halogen
Suitable for cable carriers
Resistant to welding beads
Torsion resistance
Acceleration
Speed
Bending cycles

Yes
5
0.34 mm²
5.7 ± 0.2 mm
PUR
black
PP
blue, white, brown, grey, black
-25...80 °C
-40...80 °C
No
Yes
No
0
5
200
2 Mio

Note

Ordering data

100.0 m

Note

Type	Qty.	Order No.
SAIH-5X0.34-S(PUR)	100	1357340000
Other lengths on request		

Accessories

Tools
Sheathing strippers, For UTP and STP data cables
Cutting tool

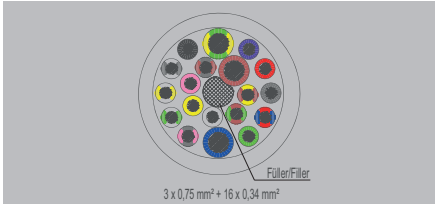
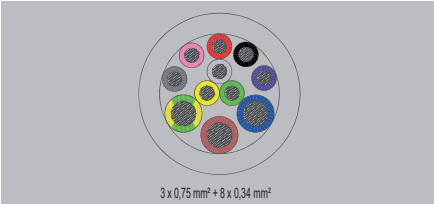
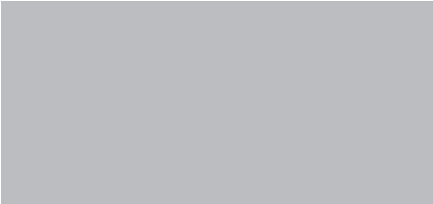
Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

Bus cable

3 x 0.75 - 8 x 0.34, PUR, unshielded

3 x 0.75 - 16 x 0.34, PUR, unshielded



Technical data

Shielded
Number of poles
Wire cross section
Outer diameter
Sheath material
Sheathing colour
Insulation
Colour coding

Temperature range, moving, min / max
Temperature range fixed, min / max
Halogen
Suitable for cable carriers
Resistant to welding beads
Torsion resistance
Acceleration
Speed
Bending cycles

Note

No
11
3 x 0.75 mm² + 8 x 0.34 mm²
7.7 ± 0.3 mm
PUR
black
TPM
white, green, yellow, grey, pink, red, black, violet, blue, brown, Green/
yellow

-25...80 °C
-50...80 °C
No
Yes
No
0
5
200
2 Mio

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

No
19
3 x 0.75 mm² + 16 x 0.34 mm²
9.1 ± 0.3 mm
PUR
black
TPM

violet, red, grey, red / blue, green, blue, grey / pink, white / green,
white / yellow, white / grey, black, Green/yellow, brown, Yellow /
brown, brown / green, white, yellow, pink, grey / brown

-25...80 °C
-50...80 °C
No
Yes
No
0
5
200
2 Mio

Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Ordering data

100 m cable on a reel
500 m cable on a reel

Note

Type	Qty.	Order No.
SAIH-SLL-3X0.75-8X0.34-100	1	2764930000
SAIH-SLL-3X0.75-8X0.34-500	1	2764940000

Type	Qty.	Order No.
SAIH-SLL-3X0.75-16X0.34-100	1	2764950000
SAIH-SLL-3X0.75-16X0.34-500	1	2764960000

Accessories

Tools
Sheathing strippers, For UTP and STP data cables
Cutting tool

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

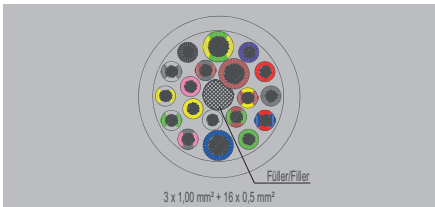
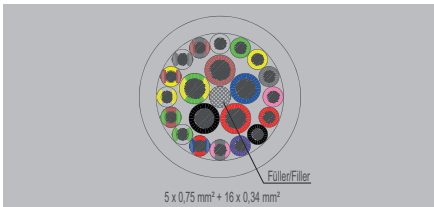
Note

Connecting cable for Weidmüller distribution boxes

Bus cable

5 x 0.75 - 16 x 0.34, PUR, unshielded

3 x 1.0 - 16 x 0.5, PUR, unshielded



Technical data

Shielded
Number of poles
Wire cross section
Outer diameter
Sheath material
Sheathing colour
Insulation
Colour coding
Temperature range, moving, min / max
Temperature range fixed, min / max
Halogen
Suitable for cable carriers
Resistant to welding beads
Torsion resistance
Acceleration
Speed
Bending cycles
Note

No
21
5 x 0.75 mm² + 16 x 0.34 mm²
9.5 ± 0.3 mm
PUR
black
TPM
brown, blue, red, black, Green/yellow, white, green, yellow, grey, pink, violet, grey / pink, red / blue, white / green, brown / green, white / yellow, Yellow / brown, white / grey, grey / brown
-25...80 °C
-50...80 °C
No
Yes
No
0
5
200
2 Mio
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

No
19
3 x 1.0 mm² + 16 x 0.5 mm²
11.30 mm ± 0.3 mm
PUR
black
TPM
Yellow / brown, brown / green, white, yellow, pink, grey / brown, brown, violet, red, grey, red / blue, green, blue, grey / pink, white / green, white / yellow, white / grey, black, Green/yellow
-25...80 °C
-50...80 °C
No
Yes
No
0
5
200
2 Mio
Further technical data of the cables on eshop.weidmueller.com and in Chapter W (Technical Annex)

Ordering data

100 m cable on a reel
500 m cable on a reel
Note

Type	Qty.	Order No.
SAIH-SLL-5X0,75-16X0,34-100	1	2764970000
SAIH-SLL-5X0,75-16X0,34-500	1	2764980000

Type	Qty.	Order No.
SAIH-SLL-3X1.0-16X0.5-100	1	2764890000
SAIH-SLL-3X1.0-16X0.5-500	1	2764900000

Accessories

Tools
Sheathing strippers, For UTP and STP data cables
Cutting tool

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

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M8, M12 Plug-in connectors and protective caps

M8, M12 Plug-in connectors and protective caps	SAI connectors	C.2
	Customisable connectors	C.4
	Connectors – accessories	C.40
	Built-in plugs	C.48
	Valve plugs for custom assembly	C.54
	Protective sleeve adapter	C.60

SAI connectors

Today, M8 and M12 connectors for self-assembly are essential components. Due to varying application requirements, in some cases overmoulded cables cannot be used.

Coding:

- A and B coding for signals
- K, L, S and T coding for power
- D coding for data

Wire-connection methods:

- Screw connection
- PUSH IN connection
- Tension clamp connection
- Crimp connection
- IDC connection
- Solder connection





Fast

PUSH IN, IDC and tension clamp connection in either shielded or unshielded.



Versatile

Various connection technologies: screw, tension clamp, PUSH IN, IDC, soldered and crimp connection



Proven

Plug-in connector suitable for use in harsh surroundings, IP67/69



Safe

Plug-in connector with shield connection. For increasing EMC requirements in your applications.



M12 connectors

Screw and tension clamp connection
PUSH-IN, insulation displacement connection, solder connection, crimp connection



M8 connectors

Screw- and solder connection
insulation displacement connection



M8 and M12 connectors

T-distributor, Y-distributor and adaptor



Protective caps for SAI distributors



M12/M8/M5

Built in connectors



Customisable valve connectors

Overview

M12 and M8 plug-in connectors

M8



Plugs and sockets (screw connection) for custom assembly to make up M8 and M12 connections.

Machine builders frequently need individual cable lengths. To meet this demand, Weidmüller can supply M8 and M12 plug in connectors for custom assembly.

The plug in connectors are available with different cable gland diameters. In the 90° versions, the outgoing direction of the cable can be changed in 90° steps. The connected plug in connectors comply with IP 67 and IP 69 ingress protection classification. There are also plug in connectors available for double assignment of distributors.

M12



M12 Metal



Screwty®



This is the perfect tool for all common cable glands on sensor and actuator cables.

The Screwty® fits M23, M12 and M8 round plugs. Both types can be used for the plugs and sockets on custom cables.

The handle of every Screwty® has a conventional 1/4 inch fitting and can be used for all sizes. Simply turn the tool to tighten or release a round plug.

The Screwty® is also available with a torque fitting. This adjustable attachment can be used for all sizes. The torque can be infinitely adjusted between 0.5 and 1.7 Nm.

IDC-Tool



Handling video:

SAI Connector M12 Tension Clamp
www.weidmueller.com/handling-m12-tension-clamp



Handling video:

SAI Connector M12 Unshielded
www.weidmueller.com/handling-m12-screw

Overview of SAI connector M12

Plastic

A-coded, Screw connection	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 4-6 mm	1021470000	9457550000	9456940000	1021280000	9457290000	9456950000
Female, Ø Cable 4-6 mm	1021490000	9457240000	9457250000	1021310000	9457700000	9457260000
A-coded, Screw connection						
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 6-8 mm	1021480000	1807340000	1807350000	1021280000	1807360000	1807370000
Female, Ø Cable 6-8 mm	1021510000	1807230000	1807250000	1021310000	1807240000	1807330000
A-coded, Screw connection						
	8-pole	12-pole (Lötanschluss)		8-pole		
Male, Ø Cable 6-8 mm	1836970000	1924950000				
Female, Ø Cable 6-8 mm	1836960000	1924960000		1934890000		
A-coded, PUSH IN						
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 4-8 mm		2681480000	2681560000		2681490000	2681570000
Female, Ø Cable 4-8 mm		2681500000	2681580000		2681510000	2681590000
A-coded, IDC connection						
	(0.14 - 0.34 mm ²) 4-pole	(0.34 - 0.75 mm ²) 4-pole				
Male	1781550001	1852740000				
Female	1781540001	1852730000				
A-coded, Tension clamp connection						
			5-pole			
Male			1906390000			
Female			1924970000			

Metal

A-coded, Screw connection	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 4-6 mm			1191030000			
Female, Ø Cable 4-6 mm			1191020000			
A-coded, Screw connection						
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 6-8 mm		9455640000	1784740000		1803930000	1803940000
Female, Ø Cable 6-8 mm		8426220000	1784750000		1803910000	1803920000
A-coded, PUSH IN						
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 4-8 mm		2681520000	2681600000		2681530000	2681610000
Female, Ø Cable 4-8 mm		2681540000	2681620000		2681550000	2681630000
A-coded, Tension clamp connection						
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 6-8 mm						
Female, Ø Cable 6-8 mm		1784740002				1275750000
B-coded, Screw connection						
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 6-8 mm			1784790000			1944570000
Female, Ø Cable 6-8 mm			1784780000			1944580000
B-coded, PUSH IN						
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 4-8 mm			2681640000			2681650000
Female, Ø Cable 4-8 mm			2681660000			2681670000
D-coded, Screw connection						
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 6-8 mm		1892120000				
Female, Ø Cable 6-8 mm		1892130000				
D-coded, PUSH IN						
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 4-8 mm		2681680000			2681690000	
Female, Ø Cable 4-8 mm		2681700000			2681710000	
D-coded, Tension clamp connection						
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male, Ø Cable 6-8 mm		1892120001			1803930001	
Female, Ø Cable 6-8 mm		1892130001			1139330000	

Overview of M8 connectors

Plastic

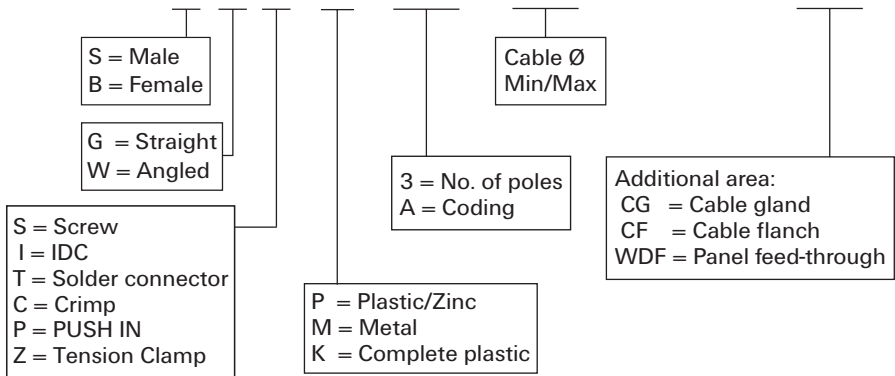
Screw connection	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male screw connection	1803860000	1803850000				
Female screw connection	1803870000	1803880000				
Male IDC connection	1784040001	1784060001				
Female IDC connection	1784030001	1784050001				
Male solder connection				1920990000	1921000000	
Female solder connection				1920970000	1920980000	

Metal

Screw connection	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male screw connection	1010060000	1010070000				
Female screw connection	1010080000	1010090000				
Male solder connection	1921030000	1921040000				
Female solder connection	1921010000	1921020000				

Example of designation

SAISGS-P-3A-6/8-M12-CG



M12 screw connection
A-coded



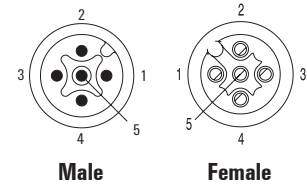
SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

Male	
3-pole. PG 7	
3-pole. PG 9	
4-pole. PG 7	
4-pole. PG 9	
Female	
3-pole. PG 7	
3-pole. PG 9	
4-pole. PG 7	
4-pole. PG 9	
Note	

Type	Qty.	Order No.
SAISGS-P-3A-4/6-M12	1	1021470000
SAISGS-P-3A-6/8-M12	1	1021480000
SAISGS-P-4A-4/6-M12	1	9457550000
SAISGS-P-4A-6/8-M12	1	1807340000
SAIBGS-P-3A-4/6-M12	1	1021490000
SAIBGS-P-3A-6/8-M12	1	1021510000
SAIBGS-P-4A-4/6-M12	1	9457240000
SAIBGS-P-4A-6/8-M12	1	1807230000
Other versions on request		

Type	Qty.	Order No.
SAISWS-P-3A-4/6-M12	1	1021280000
SAISWS-P-3A-6/8-M12	1	1021290000
SAISWS-P-4A-4/6-M12	1	9457290000
SAISWS-P-4A-6/8-M12	1	1807360000
SAIBWS-P-3A-4/6-M12	1	1021310000
SAIBWS-P-3A-6/8-M12	1	1021320000
SAIBWS-P-4A-4/6-M12	1	9457700000
SAIBWS-P-4A-6/8-M12	1	1807240000
Other versions on request		

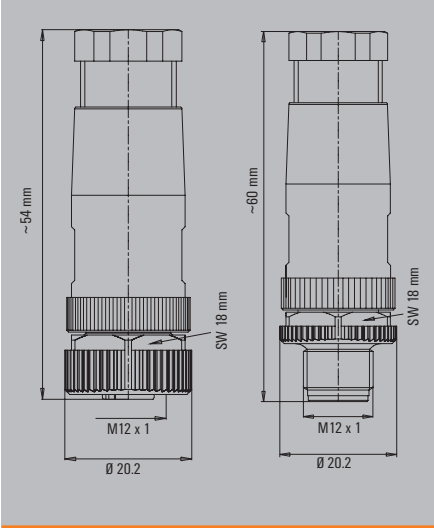
Technical data

Type of connection	Screw connection
Threaded ring material	Diecast zinc
Housing main material	PA
Connection thread	M12
Cable diameter	4...6 mm (PG7) / 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn
Approvals	CE; cURus; UKCA
Note	

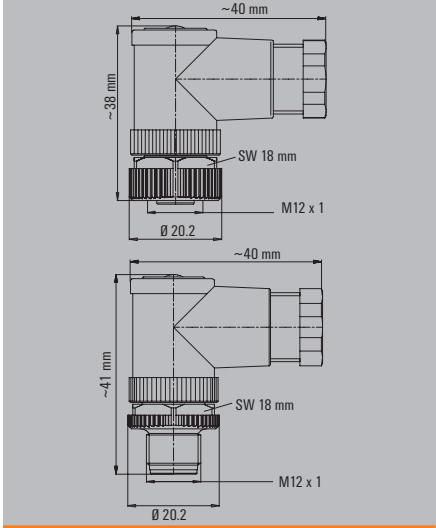
Screw connection
Diecast zinc
PA
M12
4...6 mm (PG7) / 6...8 mm (PG9)
0.14...0.75 mm ²
4 A
250 V (3- and 4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
CuSnZn
CE; cURus; UKCA

Screw connection
Diecast zinc
PA
M12
4...6 mm (PG7) / 6...8 mm (PG9)
0.14...0.75 mm ²
4 A
250 V (3- and 4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
CuSnZn
CE; cURus; UKCA

Dimensioned drawing

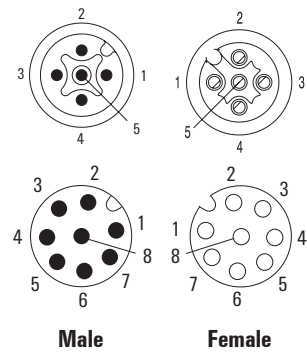


Dimensioned drawing



Customisable connectors

M12 screw connection
A-coded



SAIS / SAIB

Straight



SAISW / SAIBW



Ordering data

Male	
5-pole. PG 7	
5-pole. PG 9	
8-pole. PG 9	
Female	
5-pole. PG 7	
5-pole. PG 9	
8-pole. PG 9	
Note	

Type	Qty.	Order No.
SAISGS-P-5A-4/6-M12	1	9456940000
SAISGS-P-5A-6/8-M12	1	1807350000
SAISGS-P-8A-6/8-M12	1	1836970000
SAIBGS-P-5A-4/6-M12	1	9457250000
SAIBGS-P-5A-6/8-M12	1	1807250000
SAIBGS-P-8A-6/8-M12	1	1836960000
Other versions on request		

Type	Qty.	Order No.
SAISWS-P-5A-4/6-M12	1	9456950000
SAISWS-P-5A-6/8-M12	1	1807370000
SAIBWS-P-5A-4/6-M12	1	9457260000
SAIBWS-P-5A-6/8-M12	1	1807330000
SAIBW-8/9-M12	1	1934890000

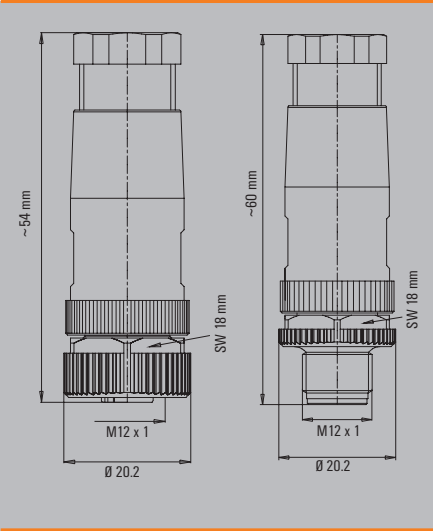
Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

Screw connection
Diecast zinc
PA
M12
4...6 mm (PG7) / 6...8 mm (PG9)
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
-40 ... +85 °C
IP67
CuSnZn
CE; cURus; UKCA

Screw connection
Diecast zinc
Zinc diecast, nickel-plated
M12
2 A
250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
-40 ... +85 °C
IP67
Gold-plated
CE; UKCA

Dimensioned drawing



Dimensioned drawing

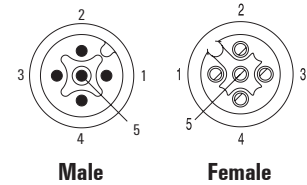


Twin plug
M12 screw connection
A-coded



SAIS-ZW
Straight

SAIS-ZWW
Angled



Ordering data

Type	Qty.	Order No.
SAIS-ZW-5	1	9457540000
Other versions on request		

Technical data

Type of connection	Screw connection
Threaded ring material	Diecast zinc
Housing main material	PA
Connection thread	M12
Cable diameter	1...3 mm, 4...5 mm, 2.1...3 mm
Wire cross-section, min. / max.	0.14...0.75 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	CuSnZn
Approvals	cURus
Includes: 2 seals for different cable diameters.	

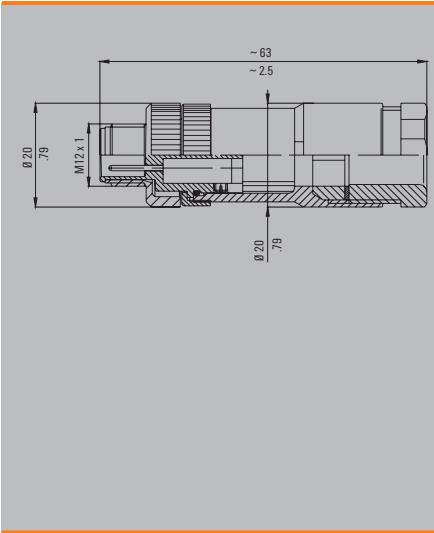
Type	Qty.	Order No.
SAIS-ZW-5	1	9457540000
Other versions on request		

Type of connection	Screw connection
Threaded ring material	Diecast zinc
Housing main material	PA
Connection thread	M12
Cable diameter	1...3 mm, 4...5 mm, 2.1...3 mm
Wire cross-section, min. / max.	0.14...0.75 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	CuSnZn
Approvals	cURus
Includes: 2 seals for different cable diameters.	

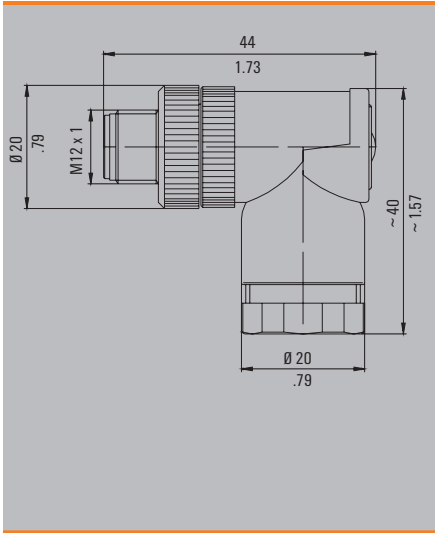
Type	Qty.	Order No.
SAIS-ZWW	1	1837560000
Other versions on request		

Type of connection	Screw connection
Threaded ring material	Diecast zinc
Housing main material	PA
Connection thread	M12
Cable diameter	1...3 mm, 4...5 mm, 2.1...3 mm
Wire cross-section, min. / max.	0.14...0.75 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	CuSnZn
Approvals	cURus
Includes: 2 seals for different cable diameters.	

Dimensioned drawing

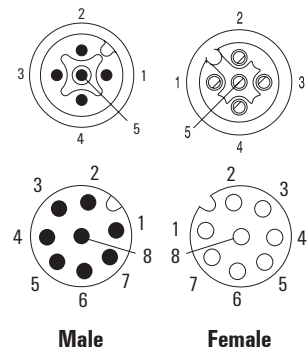


Dimensioned drawing



Customisable connectors

M12 screw connection
A-coded
Plastic



Ordering data

Male	
4-pole. PG 7	SAISGS-K-4A-4/6-M12
5-pole. PG 7	SAISGS-K-5A-4/6-M12
5-pole. PG 9	SAISGS-K-5A-6/8-M12
8-pole. PG 9	SAIS-8/9-KV
Female	
4-pole. PG 7	SAIBGS-K-4A-4/6-M12
5-pole. PG 7	SAIBGS-K-5A-4/6-M12
5-pole. PG 9	SAIBGS-K-5A-6/8-M12
Note	

Technical data

Type of connection	Screw connection
Threaded ring material	Plastic
Housing main material	PA
Connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	250 V (4-pole) / 60 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn
Approvals	CE; cURus; UKCA
Note	

SAIS / SAIB

Straight



SAISW / SAIBW

Angled



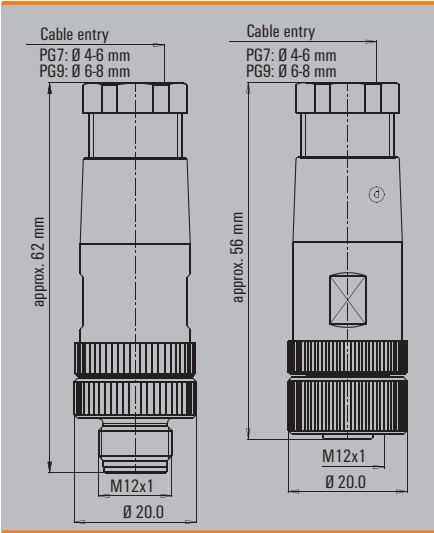
Type	Qty.	Order No.
SAISGS-K-4A-4/6-M12	1	1921060000
SAISGS-K-5A-4/6-M12	1	1921050000
SAISGS-K-5A-6/8-M12	1	1007080000
SAIS-8/9-KV	1	1461930000
SAIBGS-K-4A-4/6-M12	1	1921080000
SAIBGS-K-5A-4/6-M12	1	1921070000
SAIBGS-K-5A-6/8-M12	1	1007090000
Other versions on request KV = plastic cable gland		

Type	Qty.	Order No.
SAISWS-K-4A-4/6-M12	1	1962620000
SAISWS-K-5A-4/6-M12	1	1962610000
SAISWS-K-5A-6/8-M12	1	1007060000
SAIBWS-K-4A-4/6-M12	1	1935610000
SAIBWS-K-5A-4/6-M12	1	1962630000
SAIBWS-K-5A-6/8-M12	1	1007070000
Other versions on request KV = plastic cable gland		

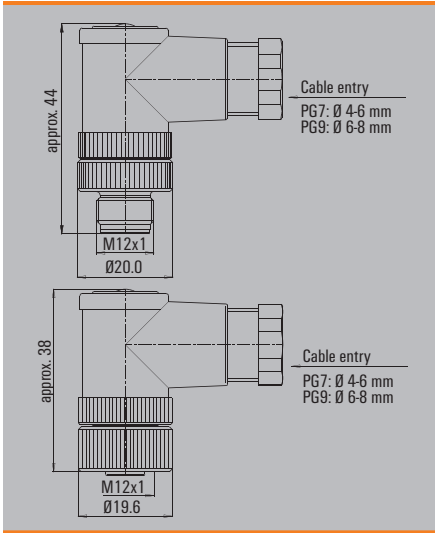
Screw connection
Plastic
PA
M12
4...6 mm (PG7)/ 6...8 mm (PG9)
0.14...0.75 mm ²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
CuSnZn
CE; cURus; UKCA

Screw connection
Plastic
PA
M12
4...6 mm (PG7)/ 6...8 mm (PG9)
0.14...0.75 mm ²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
CuSnZn
CE; cURus; UKCA

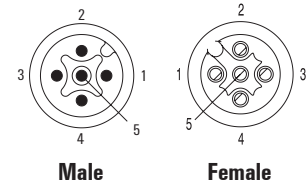
Dimensioned drawing



Dimensioned drawing



M12 screw connection
with shield connection
A-coded



Ordering data

Male	
	4-pole. PG 9
	5-pole. PG 9
Female	
	4-pole. PG 9
	5-pole. PG 7
	5-pole. PG 9
Note	

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

SAIS M / SAIB M

Straight



Type	Qty.	Order No.
SAISGS-M-4A-6/8-M12	1	9455640000
SAISGS-M-5A-6/8-M12	1	1784740000
SAIBGS-M-4A-6/8-M12	1	8426220000
SAIBGS-M-5A-4/6-M12	1	1191020000
SAIBGS-M-5A-6/8-M12	1	1784750000
Other versions on request		

Screw connection
Diecast zinc
CuZn
M12
4...6 mm (PG7) / 6...8 mm (PG9)
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Gold-plated
CE; cURus; UKCA

SAISW M / SAIBW M

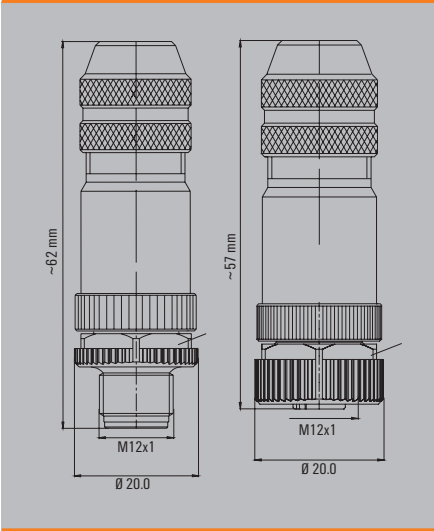
Angled



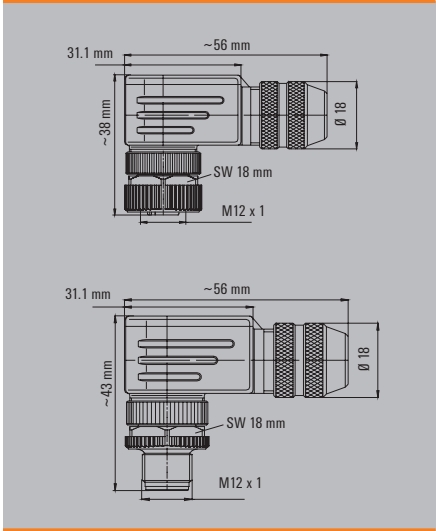
Type	Qty.	Order No.
SAISWS-M-4A-6/8-M12	1	1803930000
SAISWS-M-5A-6/8-M12	1	1803940000
SAIBWS-M-4A-6/8-M12	1	1803910000
SAIBWS-M-5A-6/8-M12	1	1803920000
Other versions on request		

Screw connection
Diecast zinc
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Gold-plated
CE; cURus; UKCA

Dimensioned drawing



Dimensioned drawing



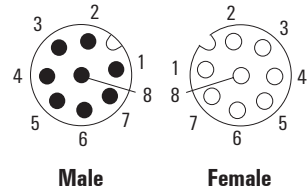
Customisable connectors

M12 screw connection
with shield connection
A-coded



SAIS M / SAIB M

Straight



Ordering data

Male	
8-pole. PG 9	
8-pole. PG 7	
8-pole. PG 11	
Female	
8-pole. PG 9	
8-pole. PG 7	
8-pole. PG 11	
Note	

Type	Qty.	Order No.
SAISGS-M-8A-6/8-M12	1	1258940000
SAISM-8/7S-M12	1	1423530000
SAISGS-M-8A-8/10-M12	1	1118910000
SAIBGS-M-8A-6/8-M12	1	1258930000
SAIBM-8/7S-M12	1	1423540000
SAIBGS-M-8A-8/10-M12	1	1118920000
Note		

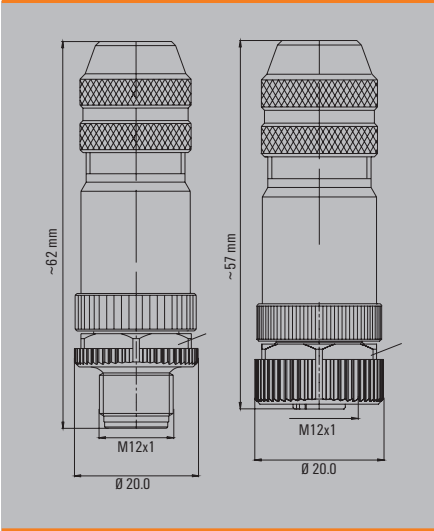
Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals

Screw connection
Diecast zinc
CuZn
M12
4...6 mm (PG7), 6...8 mm (PG9), 8...10 mm (PG11)
0.14...0.5 mm²
2 A
30 V
-40 ... +85 °C
IP67
Gold-plated
CE; cURus; UKCA

Note

Dimensioned drawing



M12 screw connection
with shield connection
B-coded



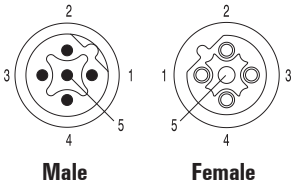
SAIS M / SAIB M

Straight



SAISW M / SAIBW M

Angled



Ordering data

Male	5-pole. PG 9
Female	5-pole. PG 9
Note	

Type	Qty.	Order No.
SAISM 5/8S M12 5P B-COD	1	1784790000
SAIBM 5/8S M12 5P B-COD	1	1784780000

Type	Qty.	Order No.
SAISW-M-5/8 M12 B-COD	1	1944570000
SAIBW-M-5/8 M12 B-COD	1	1944580000

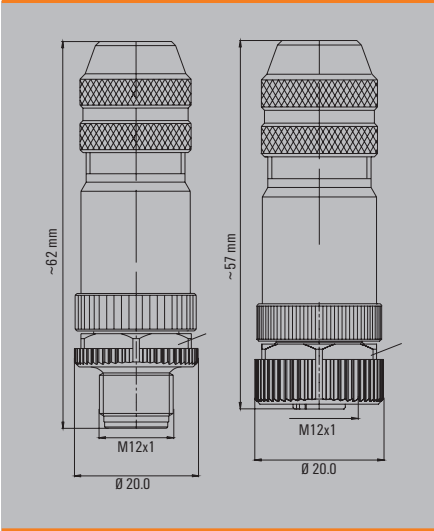
Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

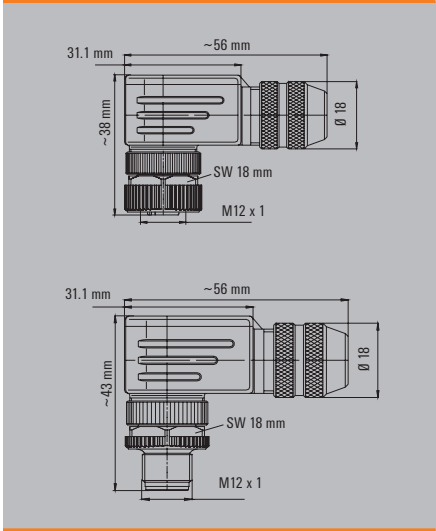
Screw connection
Diecast zinc
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
CE; cURus; UKCA

Screw connection
Diecast zinc
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
CE; cURus; UKCA

Dimensioned drawing



Dimensioned drawing



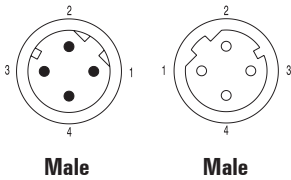
Customisable connectors

Screw connection M12
with shield connection
D-coded



SAIS M / SAIB M

Straight



Ordering data

Male	4-pole. PG 9
Female	4-pole. PG 9
Note	

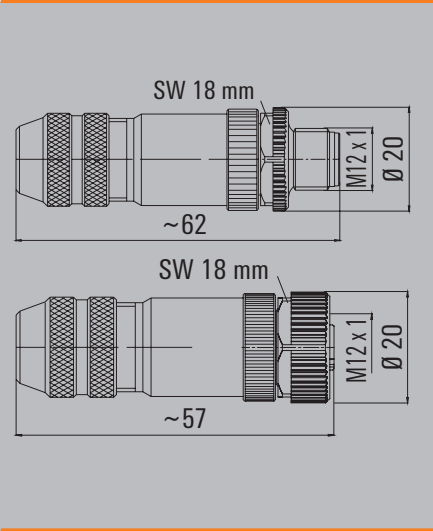
Type	Qty.	Order No.
SAISGS-M-4D-6/8-M12	1	1892120000
SAIBGS-M-4D-6/8-M12	1	1892130000

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

Screw connection
Diecast zinc
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm ²
4 A
250 V
-40 ... +85 ° C
IP67
Gold-plated
CE; cURus; UKCA

Dimensioned drawing

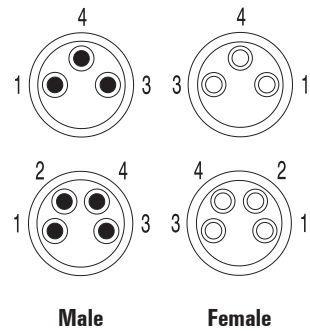


M8 screw connection



SAIS / SAIB

Straight



Ordering data

Male	
3-pole	
4-pole	
Female	
3-pole	
4-pole	
Note	

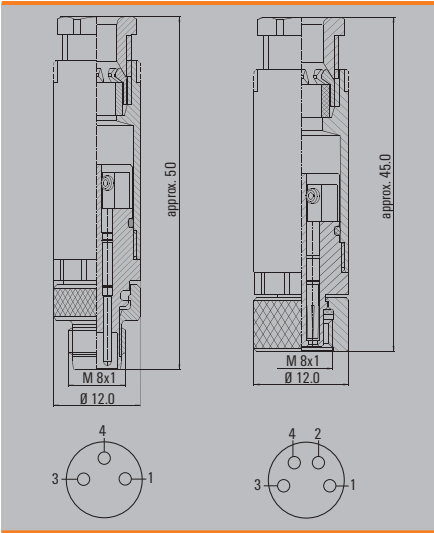
Type	Qty.	Order No.
SAIBGS-P-3A-3.5/5-M8	1	1803860000
SAIBGS-P-4A-3.5/5-M8	1	1803850000
SAIBGS-P-3A-3.5/5-M8	1	1803870000
SAIBGS-P-4A-3.5/5-M8	1	1803880000
Other versions on request		

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

Screw connection
Diecast zinc
PA
M8
3.5...5 mm
0.14...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
CE; cULus; UKCA

Dimensioned drawing



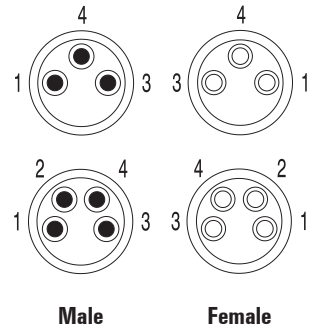
Customisable connectors

M8 screw connection
with shield connection



SAIS M / SAIB M

Straight



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

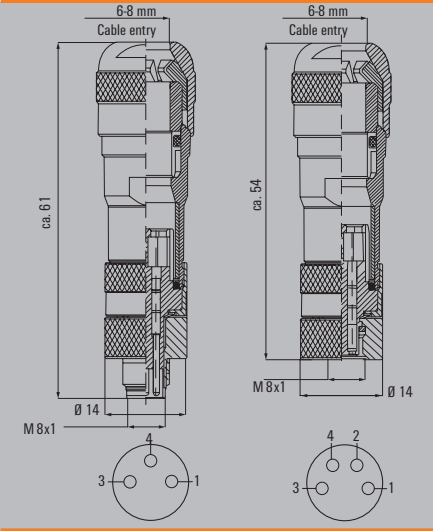
Type	Qty.	Order No.
SAISGS-M-3A-6/8-M8	1	1467550000
SAISGS-M-4A-6/8-M8	1	1467570000
SAIBGS-M-3A-6/8-M8	1	1467560000
SAIBGS-M-4A-6/8-M8	1	1467580000

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

Screw connection
Diecast zinc
CuZn
M8
6...8 mm
0.14...0.5 mm ²
4 A
60 V
-40 ... +85 ° C
IP67
Gold-plated
CE; cULus; UKCA

Dimensioned drawing

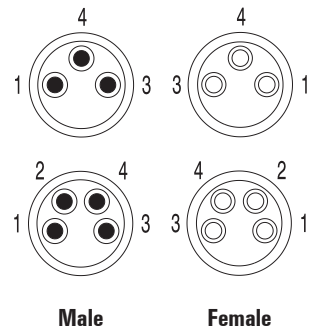


M8 screw connection
with shield connection



SAIS M / SAIB M

Straight



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

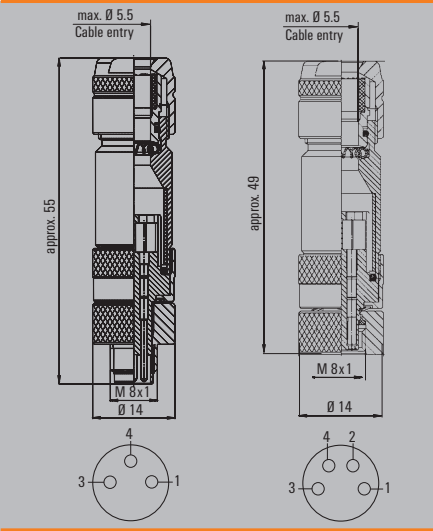
Type	Qty.	Order No.
SAISGS-M-3A-3.5/5.5-M8-IF	1	1010060000
SAISGS-M-4A-3.5/5.5-M8-IF	1	1010070000
SAIBGS-M-3A-3.5/5.5-M8-IF	1	1010080000
SAIBGS-M-4A-3.5/5.5-M8-IF	1	1010090000
IF = iris-type spring		

Technical data

Note	
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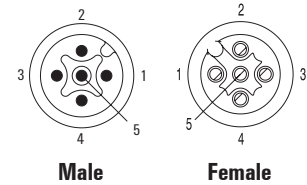
Screw connection
Diecast zinc
CuZn
M8
3.5...5.5 mm
0.14...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
CE; cULus; UKCA

Dimensioned drawing



Customisable connectors

PUSH IN M12
A coded



Ordering data

Male	4-pole
	5-pole
Female	4-pole
	5-pole
Note	

Technical data

Type of connection	PUSH IN
Threaded ring material	Diecast zinc
Housing main material	PA 66
Connection thread	M12
Cable diameter	4...8 mm
Wire cross-section, min. / max.	0.14...0.75 mm²
Rated current	4 A
Rated voltage	250 V (4-pole) / 60 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Ni/Au
Fire safety for railway vehicles	DIN EN 45545-2
Shock and vibration proof according to	EN 50155:2001
Approvals	CE; cULus; UKCA
Note	

SAISP / SAIBP

Straight



Type	Qty.	Order No.
SAISP-4A-4/8-M12	1	2681480000
SAISP-5A-4/8-M12	1	2681560000
Other versions on request		

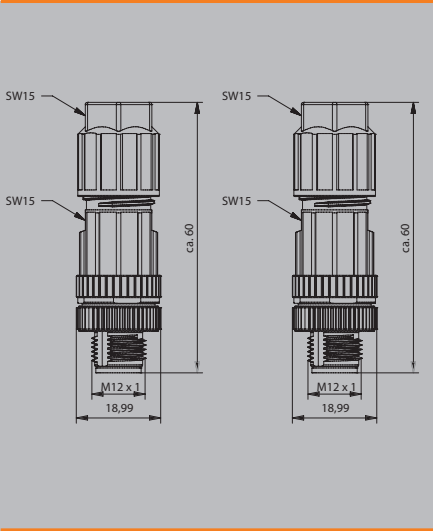
SAISWP / SAIBWP

Angled

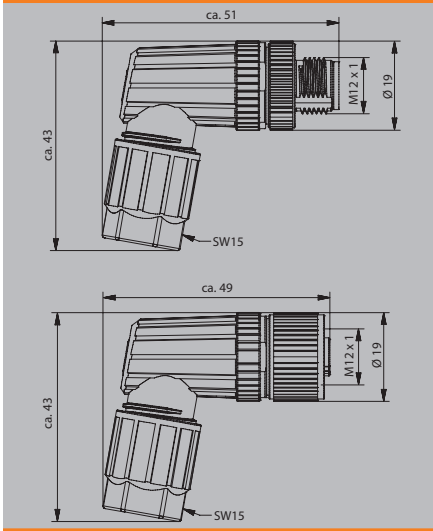


Type	Qty.	Order No.
SAISWP-4A-4/8-M12	1	2681490000
SAISWP-5A-4/8-M12	1	2681570000
Other versions on request		

Dimensioned drawing



Dimensioned drawing

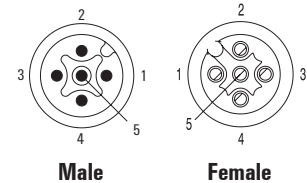


PUSH IN M12
with shield connection
A coded



SAISP-M / SAIBP-M

Straight



Ordering data

Male	4-pole
	5-pole
Female	4-pole
	5-pole
Note	

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Fire safety for railway vehicles
Shock and vibration proof according to
Approvals
Note

Type	Qty.	Order No.
SAISP-M-4A-4/8-M12	1	2681520000
SAISP-M-5A-4/8-M12	1	2681600000
SAIBP-M-4A-4/8-M12	1	2681540000
SAIBP-M-5A-4/8-M12	1	2681620000
Other versions on request		

PUSH IN
Diecast zinc
PA 66
M12
4...8 mm
0.14...0.75 mm ²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Ni/Au
DIN EN 45545-2
EN 50155:2001
cULus

SAISWP-M / SAIBWP-M

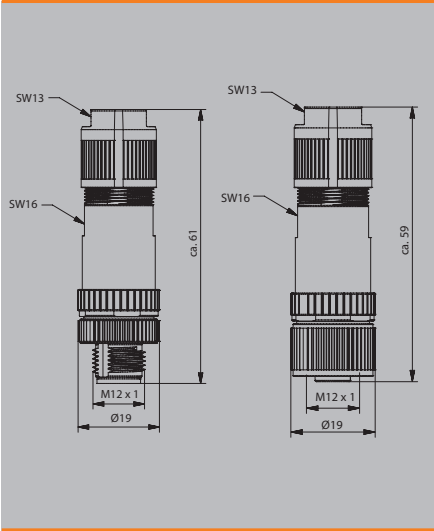
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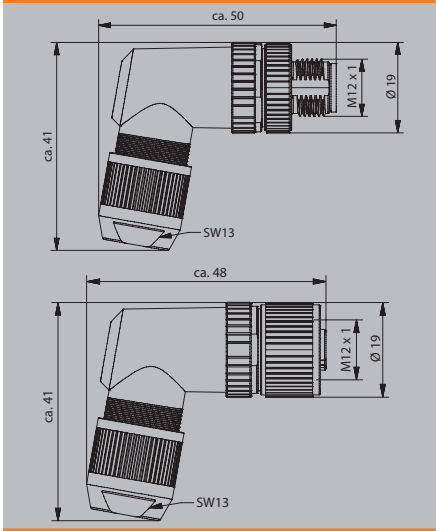
Type	Qty.	Order No.
SAISWP-M-4A-4/8-M12	1	2681530000
SAISWP-M-5A-4/8-M12	1	2681610000
SAIBWP-M-4A-4/8-M12	1	2681550000
SAIBWP-M-5A-4/8-M12	1	2681630000
Other versions on request		

PUSH IN
Diecast zinc
PA 66
M12
4...8 mm
0.14...0.75 mm ²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Ni/Au
DIN EN 45545-2
EN 50155:2001
cULus

Dimensioned drawing

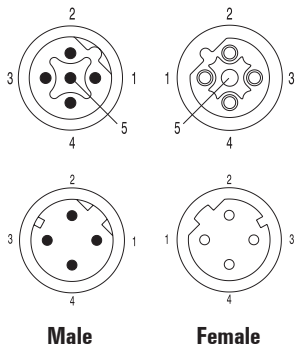


Dimensioned drawing



Customisable connectors

PUSH IN M12
with shield connection
B coded
D coded



Ordering data

Male	
	D-coded, 4-pole
	B-coded, 5-pole
Female	
	D-coded, 4-pole
	B-coded, 5-pole
Note	

Technical data

Type of connection	PUSH IN
Threaded ring material	Diecast zinc
Housing main material	PA 66
Connection thread	M12
Cable diameter	4...8 mm
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	250 V (4-pole) / 60 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Ni/Au
Fire safety for railway vehicles	DIN EN 45545-2
Shock and vibration proof according to	EN 50155:2001
Approvals	cULus
Note	

SAISP-M / SAIBP-M

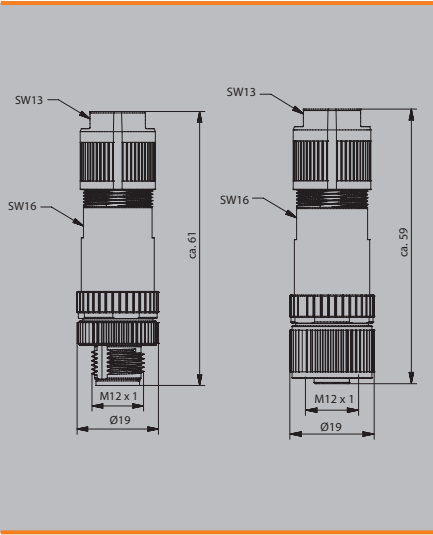
Straight



Type	Qty.	Order No.
SAISP-M-4D-4/8-M12	1	2681680000
SAISP-M-5B-4/8-M12	1	2681640000
SAIBP-M-4D-4/8-M12	1	2681700000
SAIBP-M-5B-4/8-M12	1	2681660000
Other versions on request		

Type of connection	PUSH IN
Threaded ring material	Diecast zinc
Housing main material	PA 66
Connection thread	M12
Cable diameter	4...8 mm
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	250 V (4-pole) / 60 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Ni/Au
Fire safety for railway vehicles	DIN EN 45545-2
Shock and vibration proof according to	EN 50155:2001
Approvals	cULus

Dimensioned drawing



SAISWP-M / SAIBWP-M

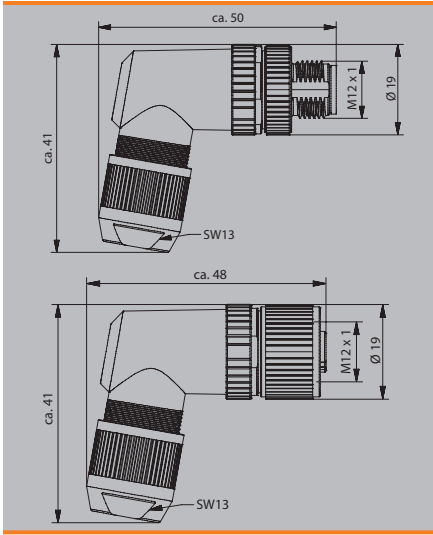
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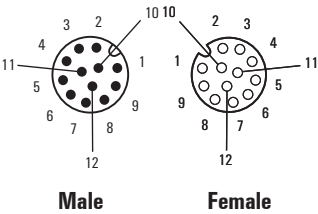
Type	Qty.	Order No.
SAISWP-M-4D-4/8-M12	1	2681690000
SAISWP-M-5B-4/8-M12	1	2681650000
SAIBWP-M-4D-4/8-M12	1	2681710000
SAIBWP-M-5B-4/8-M12	1	2681670000
Other versions on request		

Type of connection	PUSH IN
Threaded ring material	Diecast zinc
Housing main material	PA 66
Connection thread	M12
Cable diameter	4...8 mm
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	250 V (4-pole) / 60 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Ni/Au
Fire safety for railway vehicles	DIN EN 45545-2
Shock and vibration proof according to	EN 50155:2001
Approvals	cULus

Dimensioned drawing



M12 solder connection
A-coded



Ordering data

Male	
	12-pole. PG 9
Female	
	12-pole. PG 9
Note	

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

SAIS / SAIB

Straight



Type	Qty.	Order No.
SAISGT-P-12A-6/8-M12	1	1924950000
SAIBGT-P-12A-6/8-M12	1	1924960000

Solder connection
Diecast zinc
PA
M12
6...8 mm (PG9)
0.14...0.25 mm ²
1.5 A
30 V
-40 ... +85 °C
IP67
Gold-plated
cURus

SAIBW

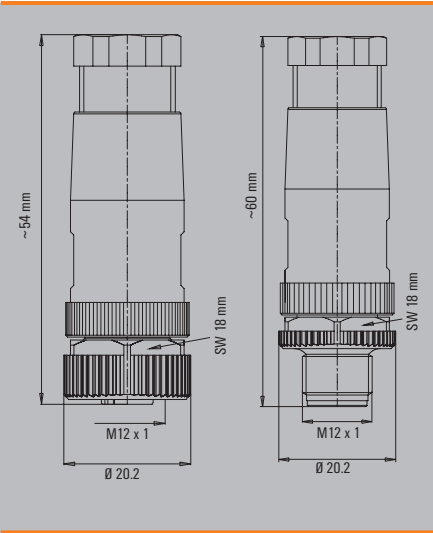
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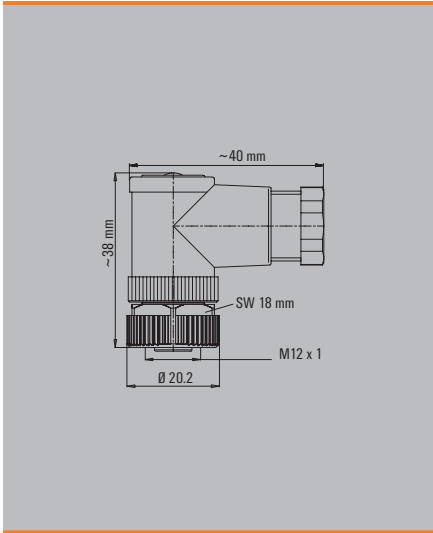
Type	Qty.	Order No.
SAIBWT-P-12A-6/8-M12	1	1925870000

Solder connection
Diecast zinc
PA
M12
6...8 mm (PG9)
0.14...0.25 mm ²
1.5 A
30 V
-40 ... +85 °C
IP67
Gold-plated
cURus

Dimensioned drawing

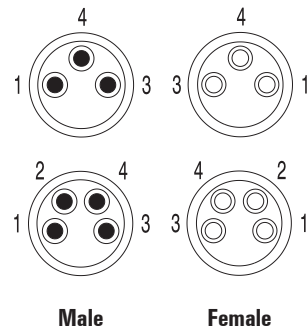


Dimensioned drawing



Customisable connectors

Solder connection M8
with shield connection



SAISM / SAIBM

Straight



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

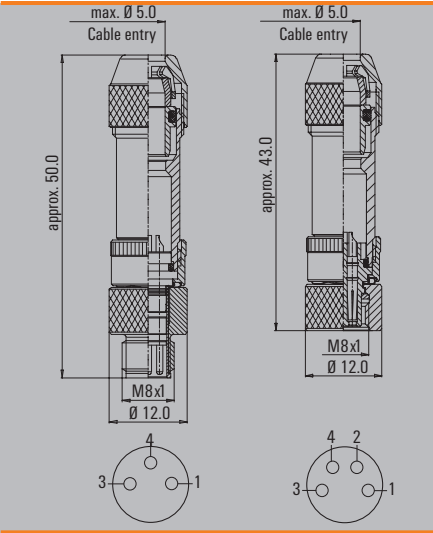
Type	Qty.	Order No.
SAISM-M8-3P(TL)	1	1921030000
SAISM-M8-4P(TL)	1	1921040000
SAIBM-M8-3P(TL)	1	1921010000
SAIBM-M8-4P(TL)	1	1921020000

Technical data

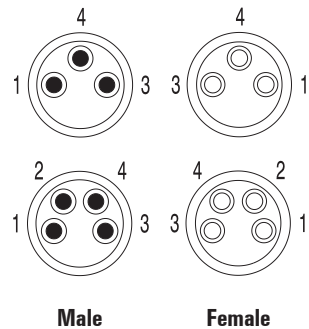
Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

Solder connection
Diecast zinc
CuZn
M8
3.5...5.5 mm
0.14...0.25 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
CE; cULus; UKCA

Dimensioned drawing



Solder connection M8



Ordering data

Male	
3-pole	
4-pole	
Female	
3-pole	
4-pole	
Note	

Technical data

Type of connection	Solder connection
Threaded ring material	Diecast zinc
Housing main material	PA
Connection thread	M8
Cable diameter	3.5...5 mm
Wire cross-section, min. / max.	0.25...0.25 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Approvals	CE; UKCA
Note	

SAIS / SAIB

Straight



Type	Qty.	Order No.
SAIS-M8-3P TL	1	2511680000
SAIS-M8-4P TL	1	2511700000
SAIB-M8-3P TL	1	2511710000
SAIB-M8-4P TL	1	2511720000

Type of connection	Solder connection
Threaded ring material	Diecast zinc
Housing main material	PA
Connection thread	M8
Cable diameter	3.5...5 mm
Wire cross-section, min. / max.	0.25...0.25 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Approvals	CE; UKCA

SAISW / SAIBW

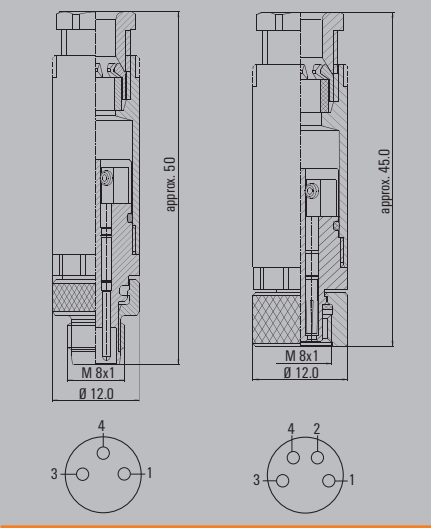
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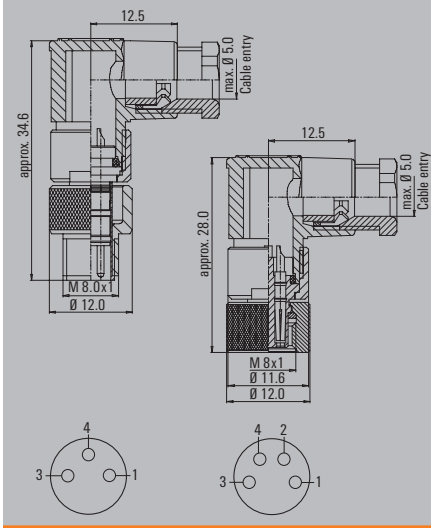
Type	Qty.	Order No.
SAISW-M8-3P(TL)	1	1920990000
SAISW-M8-4P(TL)	1	1921000000
SAIBW-M8-3P(TL)	1	1920970000
SAIBW-M8-4P(TL)	1	1920980000

Type of connection	Solder connection
Threaded ring material	Diecast zinc
Housing main material	PA
Connection thread	M8
Cable diameter	3.5...5 mm
Wire cross-section, min. / max.	0.25...0.25 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Approvals	CE; cULus; UKCA

Dimensioned drawing

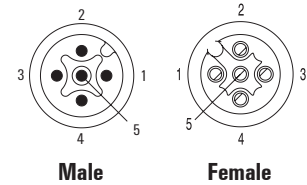


Dimensioned drawing



Customisable connectors

Tension clamp connection M12
A-coded



Ordering data

Male	
	5-pole. PG 7
	5-pole. PG 9
Female	
	5-pole. PG 7
	5-pole. PG 9
Note	

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

SAIS-ZF

Straight



Type	Qty.	Order No.
SAISGZ-P-5A-4/6-M12	1	1906390000
SAISGZ-P-5A-6/8-M12	1	1044700000
SAIBGZ-P-5A-4/6-M12	1	1924970000
SAIBGZ-P-5A-6/8-M12	1	1044710000

Tension-clamp connection
Diecast zinc
PA
M12
4...6 mm (PG7)/ 6...8 mm (PG9)
0.14...0.5 mm ²
4 A
60 V
-40 ... +85 ° C
IP67
Gold-plated
CE; UKCA

SAIBW-ZF

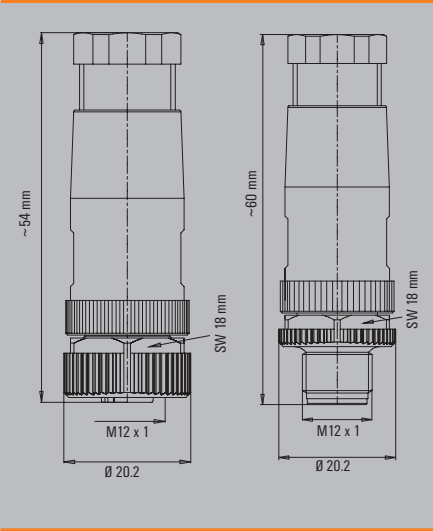
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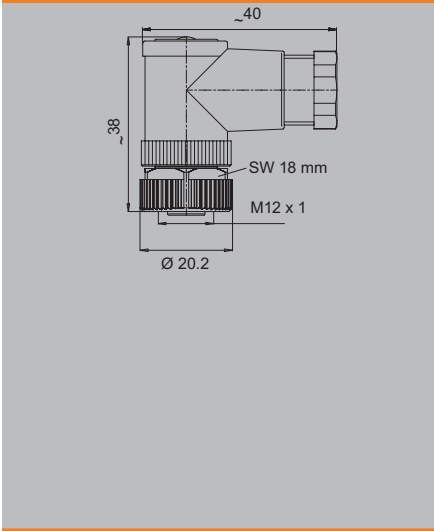
Type	Qty.	Order No.
SAIBW-5/7-ZF	1	1365580000

Tension-clamp connection
Diecast zinc
PA
M12
4...6 mm (PG7)
0.25...0.5 mm ²
4 A
60 V
-40 ... +85 ° C
IP67
Gold-plated
CE; UKCA

Dimensioned drawing



Dimensioned drawing

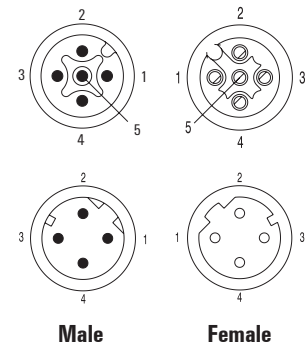


M12 tension-clamp connection
Stainless steel
with shield connection



SAIS VA / SAIB VA

Straight



Ordering data

Male	
	5-pole, PG 9
	A-coded, 5-pole, PG 9
	D-coded, 4-pole, PG 9
Female	
	5-pole, PG 9
	A-coded, 5-pole, PG 9
Note	

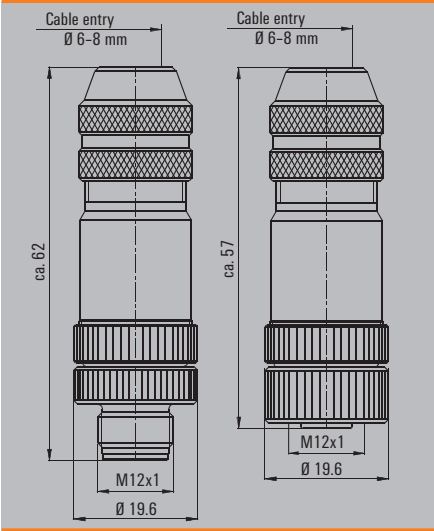
Type	Qty.	Order No.
SAISGZ-V-5B-6/8-M12	1	1920720000
SAISGZ-V-5A-6/8-M12	1	1920700000
SAISGZ-V-4D-6/8-M12	1	1920700001
SAIBGZ-V-5B-6/8-M12	1	1920730000
SAIBGZ-V-5A-6/8-M12	1	1920710000

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

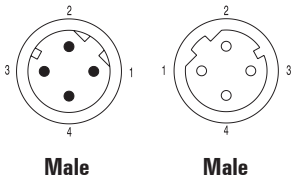
Tension-clamp connection
Stainless steel, rust-proof
1.4404/316L
M12
6...8 mm (PG9)
0.14...0.5 mm ²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 ° C
IP69K
Gold-plated
CE; UKCA

Dimensioned drawing



Customisable connectors

M12 plug,
Tension-clamp connection,
D-coded



Ordering data

Male	4-pole. PG 9
Female	4-pole. PG 9
Note	

Technical data

Type of connection	Tension-clamp connection
Threaded ring material	Diecast zinc
Housing main material	CuZn
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Approvals	CE; UKCA
Note	

SAIS M / SAIB M

Straight



Type	Qty.	Order No.
SAISGZ-M-4D-6/8-M12	1	1892120001
SAIBGZ-M-4D-6/8-M12	1	1892130001

Type of connection	Tension-clamp connection
Threaded ring material	Diecast zinc
Housing main material	CuZn
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Approvals	CE; UKCA
Note	

SAISW M / SAIBW M

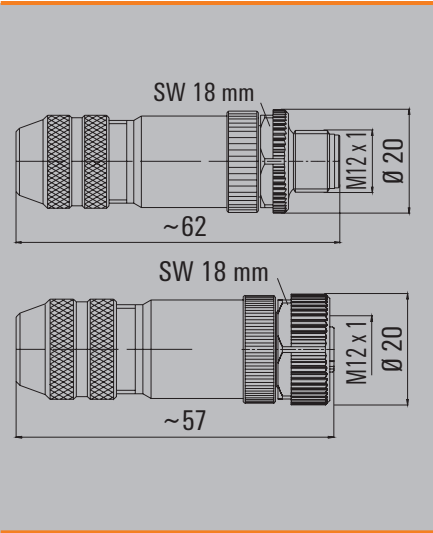
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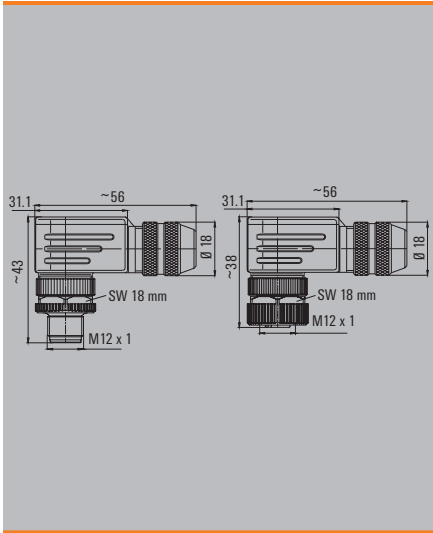
Type	Qty.	Order No.
SAISWZ-M-4D-6/8-M12	1	1803930001
SAIBWZ-M-4D-6/8-M12	1	1139330000

Type of connection	Tension-clamp connection
Threaded ring material	Diecast zinc
Housing main material	CuZn
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Approvals	CE; UKCA
Note	

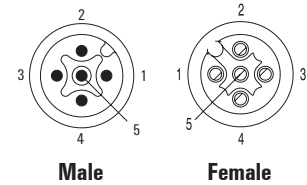
Dimensioned drawing



Dimensioned drawing



Insulation-displacement connection
M12
A-coded



Ordering data

Male	4-pole
Female	4-pole
Note	

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

SAIS IDC / SAIB IDC

Straight



Type	Qty.	Order No.
SAISGI-P4A-2.9/5.1-M12	1	1781550001
SAIBGI-P4A-2.9/5.1-M12	1	1781540001
Other versions on request		

Insulation displacement connection
Diecast zinc
CuZn
M12
2.9 - 5.1 mm
0.14...0.34 mm²
4 A
32 V
-25...+85 °C
IP67
tinned

SAIS IDC / SAIB IDC

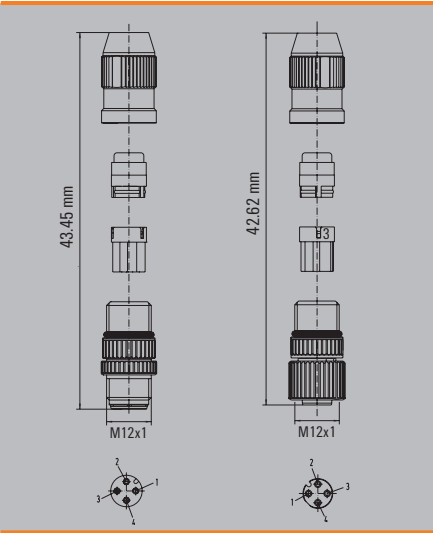
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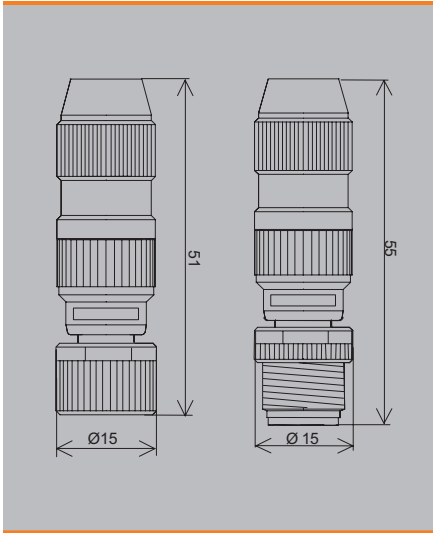
Type	Qty.	Order No.
SAISGI-P4A-4/5.1-M12	1	1781550000
SAIBGI-P4A-4/5.1-M12	1	1781540000
Other versions on request		

Insulation displacement connection
Diecast zinc
CuZn
M12
4...5.1 mm
0.25...0.5 mm²
4 A
32 V
-25...+85 °C
IP67
tinned

Dimensioned drawing

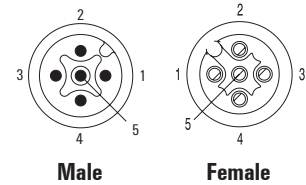


Dimensioned drawing



Customisable connectors

Insulation-displacement connection
M12
A-coded



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

SAIS IDC / SAIB IDC

Straight



Type	Qty.	Order No.
SAISGI-P-3A-5.5/8-M12	1	1852720000
SAISGI-P-4A-5.5/8-M12	1	1852740000
SAIBGI-P-3A-5.5/8-M12	1	1852730000
SAIBGI-P-4A-5.5/8-M12	1	1852750000
Other versions on request 3-pole = assignment only pin 3, 4, 5 possible		

Insulation displacement connection
Diecast zinc
CuZn
M12
5.5...8 mm
0.34...0.75 mm²
4 A
32 V
-25...+85 °C
IP67
tinned

SAISW IDC / SAIBW IDC

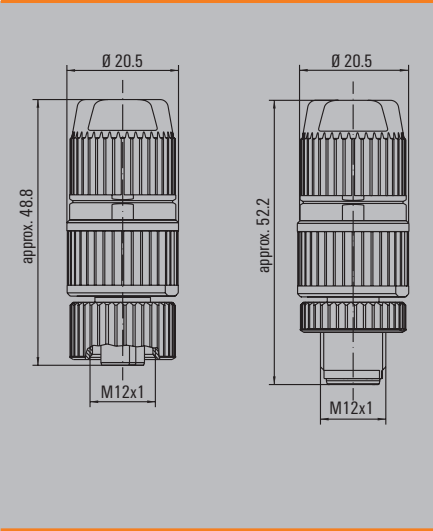
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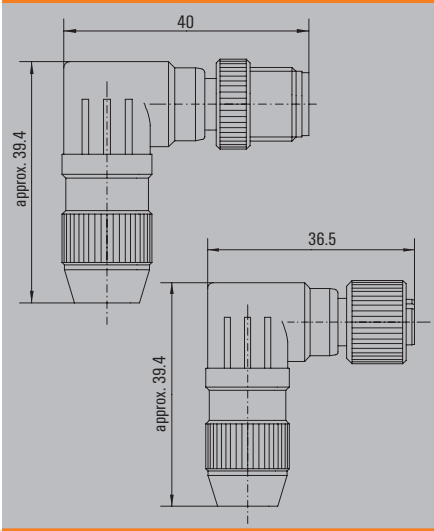
Type	Qty.	Order No.
SAISWI-P-4A-4/5.1-M12	1	1812870000
SAIBWI-P-4A-4/5.1-M12	1	1812890000
Other versions on request		

Insulation displacement connection
Diecast zinc
CuZn
M12
4...5.1 mm
0.25...0.5 mm²
4 A
32 V
-25...+85 °C
IP67
tinned

Dimensioned drawing



Dimensioned drawing

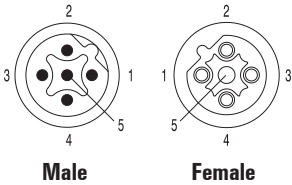


Insulation-displacement connection
M12 with shield connection
B coded



SAIS IDC M / SAIB IDC M

Straight



Ordering data

Male	2-pole. PG 9
Female	2-pole. PG 9
Note	

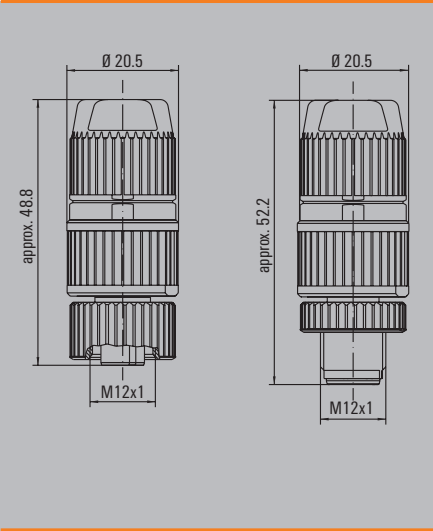
Type	Qty.	Order No.
SAISGI-M-2B-4.5/8.8-M12	1	1864730000
SAIBGI-M-2B-4.5/8.8-M12	1	1864740000
Profibus assignment: Pin 2 + 4		

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

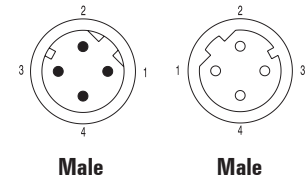
Insulation displacement connection
Diecast zinc
CuZn
M12
4.5...8.8 mm
0.25...0.34 mm²
4 A
32 V
-25...+85 °C
IP67
tinned

Dimensioned drawing



Customisable connectors

Insulation-displacement connection
M12 with shield connection
D-coded



Ordering data

Male	
	4-pole, wall feed-through
Female	
	4-pole
	4-pole, wall feed-through
Note	

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

SAIS IDC M

Straight



Type	Qty.	Order No.
SAISGI-M4D-5/9.7-M12	1	2544780000

Insulation displacement connection
Diecast zinc
zinc diecast nickel-plated
M12
5...9.7 mm
0.14...0.34 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
CE; UKCA

SAIB IDC M

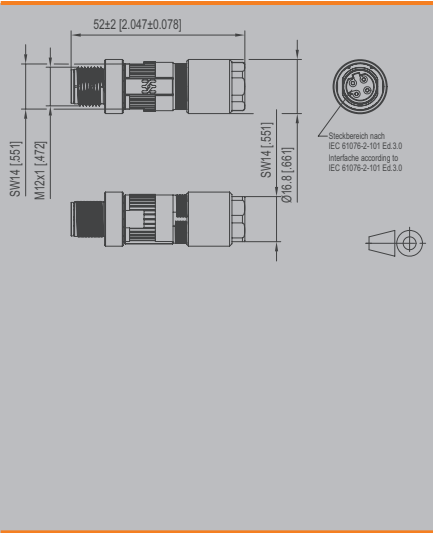
Straight



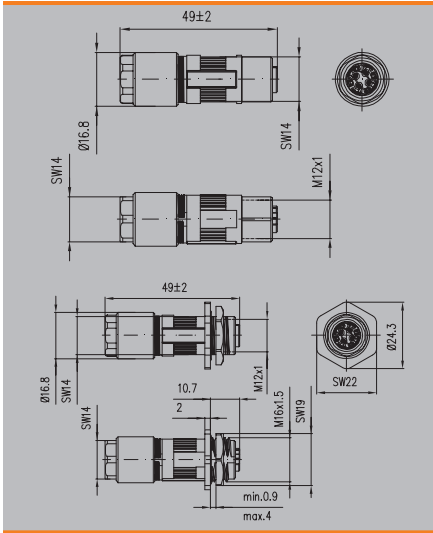
Type	Qty.	Order No.
SAIBGI-M4D-5/9.7-M12-WDF	1	2783150000
SAIBGI-M4D-5/9.7-M12	1	2812410000

Insulation displacement connection
Diecast zinc
zinc diecast nickel-plated
M12
5...9.7 mm
0.14...0.34 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
CE; UKCA

Dimensioned drawing



Dimensioned drawing



Insulation-displacement connection
M8



SAIS IDC / SAIB IDC

Straight



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

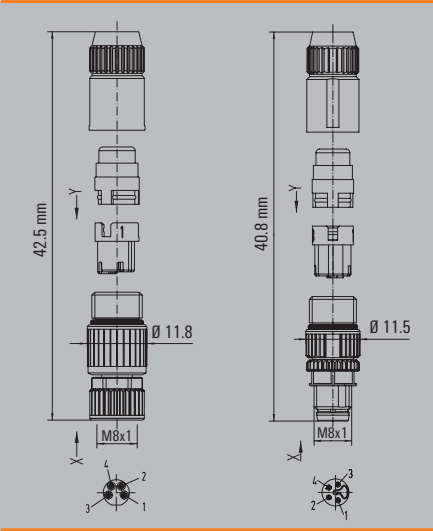
Type	Qty.	Order No.
SAISGI-P-3A-3.2/5.4-M8	1	1784040001
SAISGI-P-4A-3.2/5.4-M8	1	1784060001
SAIBGI-P-3A-3.2/5.4-M8	1	1784030001
SAIBGI-P-4A-3.2/5.4-M8	1	1784050001
Other versions on request		

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

Insulation displacement connection
Diecast zinc
CuZn
M8
3.2...5.4 mm
0.14...0.34 mm²
4 A
32 V
-25...+85 °C
IP67
tinned

Dimensioned drawing



Customisable connectors

Crimp connection M12
with shield connection
A-coded



SAIS C / SAIB C

straight



SAISW C / SAIBW C

angled



Ordering data

Male	5-pole
Female	5-pole
Note	

Type	Qty.	Order No.
SAISGC-M-5A-4/9-M12-CG	1	2672410000
SAIBGC-M-5A-4/9-M12-CG	1	2664800000
Contacts must be ordered separately		

Type	Qty.	Order No.
SAISWC-M-5A-4/9-M12-CG	1	2672430000
SAIBWC-M-5A-4/9-M12-CG	1	2664830000
Contacts must be ordered separately		

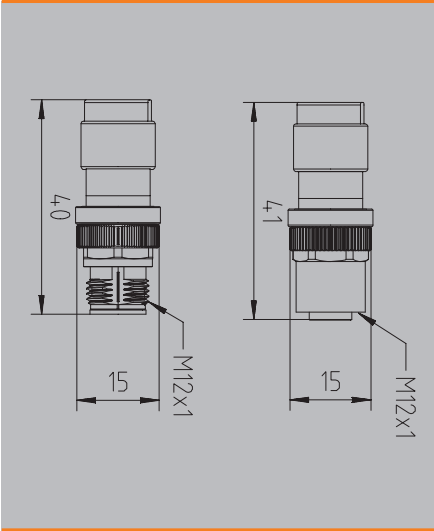
Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Fire safety for railway vehicles
Shock and vibration proof according to
Approvals
Note

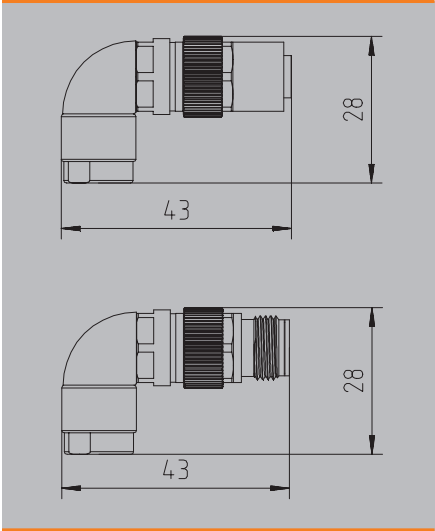
Crimp connection
Brass, nickel-plated
CuZn
M12
4...9 mm
0.08...0.75 mm ²
4 A
50 V
-40 ... +85 °C
IP67
Gold-plated
According to EN 45545, HL1 - HL3
DIN EN 61373 KAT2 (Bogie), DIN EN 61373 Class 1B**
Crimping tool: SAI-TMCSK - 1381690000; Locator: SAI-TMC-PD - 1381700000

Crimp connection
Brass, nickel-plated
CuZn
M12
4...9 mm
0.08...0.75 mm ²
4 A
50 V
-40 ... +85 °C
IP67
Gold-plated
According to EN 45545, HL1 - HL3
DIN EN 61373 KAT2 (Bogie), DIN EN 61373 Class 1B**
Crimping tool: SAI-TMCSK - 1381690000; Locator: SAI-TMC-PD - 1381700000

Dimensioned drawing



Dimensioned drawing



Crimp connection M12
with shield connection
D-coded



SAIS C / SAIB C

straight



SAISW C / SAIBW C

angled



Ordering data

Male	4-pole
Female	4-pole
Note	

Type	Qty.	Order No.
SAISGC-M-4D-4/9-M12-CG	1	2664810000
SAIBC-D-18/28-4/9CG	1	2672420000
Contacts must be ordered separately		

Type	Qty.	Order No.
SAISWC-D-18/28-4/9CG	1	2702690000
SAIBWC-M-4D-4/9-M12-CG	1	2702700000
Contacts must be ordered separately		

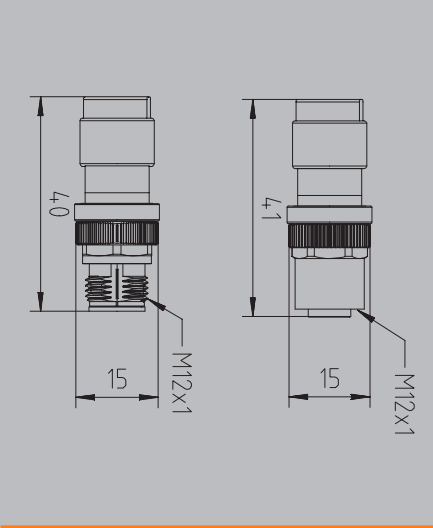
Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Fire safety for railway vehicles
Shock and vibration proof according to
Approvals
Note

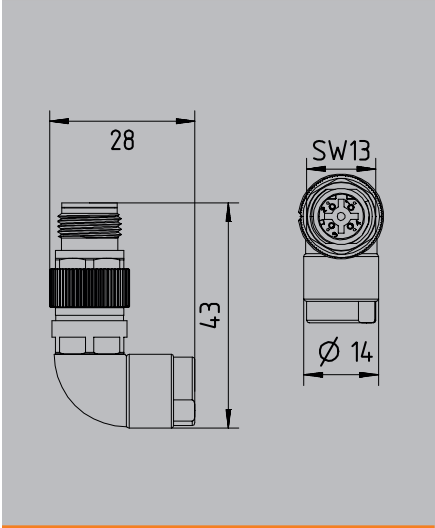
Crimp connection
Brass, nickel-plated
CuZn
M12
4...9 mm
0.08...0.75 mm²
4 A
50 V
-40 ... +85 °C
IP67
Gold-plated
According to EN 45545, HL1 - HL3
DIN EN 61373 KAT2 (Bogie), DIN EN 61373 Class 1B**
Crimping tool: SA-TMCSK - 1381690000; Locator: SA-TMCPD - 1381700000

Crimp connection
Brass, nickel-plated
CuZn
M12
4...9 mm
0.08...0.75 mm²
4 A
50 V
-40 ... +85 °C
IP67
Gold-plated
According to EN 45545, HL1 - HL3
DIN EN 61373 KAT2 (Bogie), DIN EN 61373 Class 1B**
Crimping tool: SA-TMCSK - 1381690000; Locator: SA-TMCPD - 1381700000

Dimensioned drawing



Dimensioned drawing



Customisable connectors

Crimp connection M12
with shield connection
D-coded



SAIS C / SAIB C

Panel feed-through



Ordering data

Male	4-pole
Female	4-pole
Note	

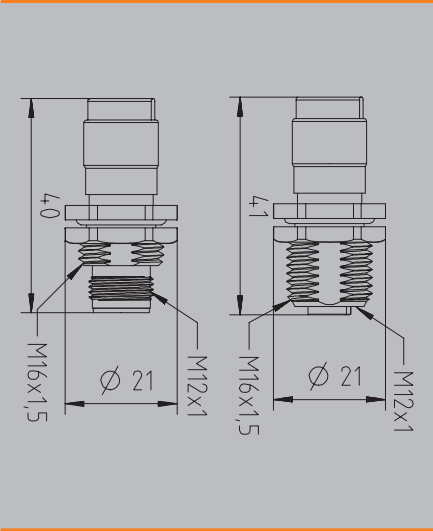
Type	Qty.	Order No.
SAISGC-M-4D-4/9-M12-WDF	1	2664790000
SAIBGC-M-4D-4/9-M12-WDF-CG	1	2664780000
Contacts must be ordered separately		

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Fire safety for railway vehicles
Shock and vibration proof according to
Approvals
Note

Crimp connection
Brass, nickel-plated
CuZn
M12
4...9 mm
0.08...0.75 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
According to EN 45545, HL1 - HL3
DIN EN 61373 KAT2 (Bogie), DIN EN 61373 Class 1B**
Crimping tool: SAI-TMCSK - 1381690000; Locator: SAI-TMC-PD - 1381700000

Dimensioned drawing



Crimp contact M12



SAI - KSC / KBC

straight



Ordering data

Male	
	AWG 18-20
	AWG 20-22
	AWG 22-24
	AWG 26-28
Female	
	AWG 18-20
	AWG 20-22
	AWG 22-24
	AWG 26-28
Note	

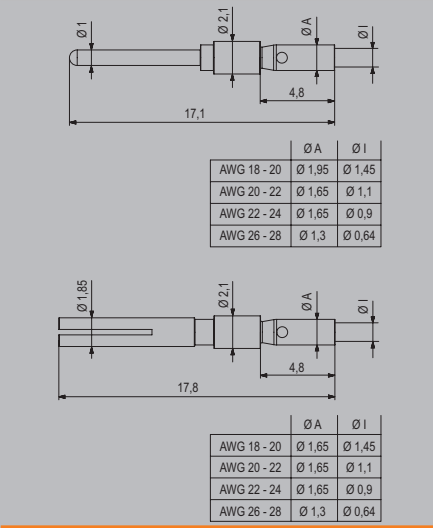
Type	Qty.	Order No.
SAH-M12-KSC-18/20	100	2664840000
SAH-M12-KSC-20/22	100	2664850000
SAH-M12-KSC-22/24	100	2673710000
SAH-M12-KSC-26/28	100	2673720000
SAH-M12-KBC-18/20	100	2664860000
SAH-M12-KBC-20/22	100	2664870000
SAH-M12-KBC-22/24	100	2673730000
SAH-M12-KBC-26/28	100	2673740000

Technical data

Type of connection	
Threaded ring material	
Contact material	
Connection thread	
Cable diameter	
Wire cross-section, min. / max.	
Rated current	
Rated voltage	
Temperature range of housing	
Protection degree	
Contact surface	
Approvals	
Note	

Crimp connection	
Copper alloy	
7 A	
Gold-plated	

Dimensioned drawing

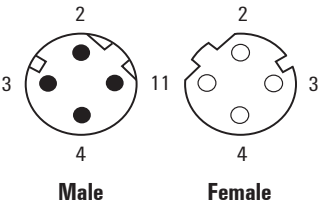


Customisable connectors

M12 crimp connection
D-coded



SAISC



Ordering data

Ethernet cables	
male	SAISGC-M-4D-6.4/6.8-M12-CF
female	SAIBGC-M-4D-6.4/6.8-M12-CF
male	SAISGC-M-4D-7.1/7.5-M12-CF
female	SAIBGC-M-4D-7.1/7.5-M12-CF
male	SAISGC-M-4D-8.1/8.5-M12-CF
female	SAIBGC-M-4D-8.1/8.5-M12-CF
PROFINET cables	
male	SAISGC-M-4D-6.3/6.7-M12-CF
female	SAIBGC-M-4D-6.3/6.7-M12-CF
Note	

Technical data

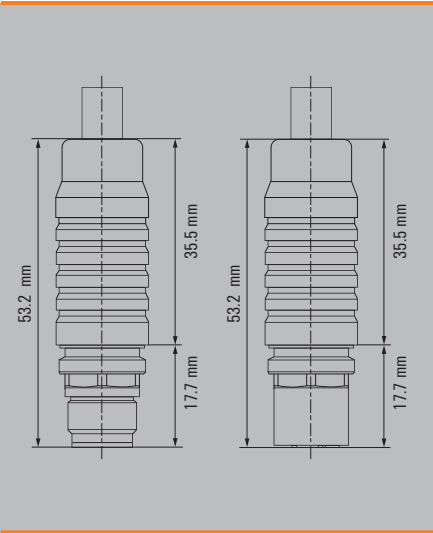
Type of connection	Crimp connection
Threaded ring material	Brass, nickel-plated
Housing main material	CuZn
Connection thread	M12
Wire cross-section, min. / max.	0.34...0.5 mm ²
Rated current	4 A
Rated voltage	50 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Fire safety for railway vehicles	According to EN 45545, HL1 - HL3
Approvals	
Note	

Type	Qty.	Order No.
SAISGC-M-4D-6.4/6.8-M12-CF	1	1380560000
SAIBGC-M-4D-6.4/6.8-M12-CF	1	1380570000
SAISGC-M-4D-7.1/7.5-M12-CF	1	1380540000
SAIBGC-M-4D-7.1/7.5-M12-CF	1	1380550000
SAISGC-M-4D-8.1/8.5-M12-CF	1	1380580000
SAIBGC-M-4D-8.1/8.5-M12-CF	1	1380590000
SAISGC-M-4D-6.3/6.7-M12-CF	1	1380610000
SAIBGC-M-4D-6.3/6.7-M12-CF	1	1380620000

Crimp connection
Brass, nickel-plated
CuZn
M12
0.34...0.5 mm ²
4 A
50 V
-40 ... +85 °C
IP67
Gold-plated
According to EN 45545, HL1 - HL3
Crimping tool: SAI-TMCSK - 1381690000; Locator: SAI-TMC-PD - 1381700000

Female	Pin	Coding	Cable type	HUBER + SUHNER
Order No.	Order No.			Order No.
1380550000	1380540000	D-coded	Radox Railcat Databus CAT5 7.3 mm	12568935
1380570000	1380560000	D-coded	Radox Railcat CAT5 4 x AWG22 XC 6.6 mm	12584038
1380590000	1380580000	D-coded	Radox Railcat CAT5 4 x 0.5 mm ² XCS 8.3 mm	12585489
1380620000	1380610000	D-coded	PROFINET 2 x 2 x AWG22 6.5 mm	

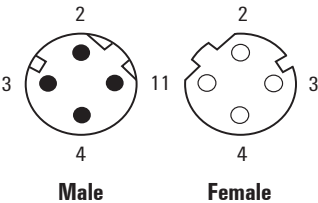
Dimensioned drawing



M12 crimp connection
Panel feed-through
D-coded



SAIBC



Ordering data

Ethernet cables	
	female
	female
	female
PROFINET cables	
	female
Note	

Type	Qty.	Order No.
SAIBC-WDF-D-RR-6.6-C5	1	1380640000
SAIBC-WDF-D-RR-7.3-C5	1	1380630000
SAIBC-WDF-D-RR-8.3-C5	1	1380650000
SAIBC-WDF-D-PN-6.5-C5	1	1380670000

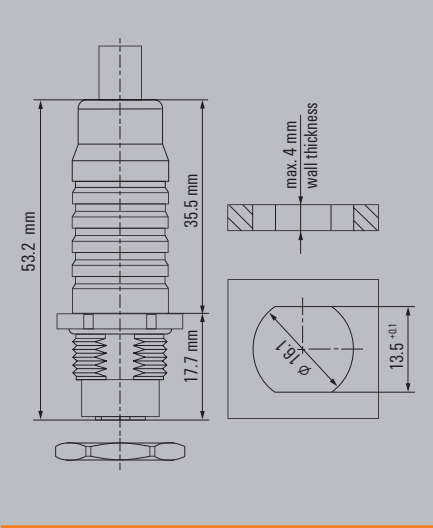
Female	Coding	Cable type	HUBER + SUHNER Order No.
1380630000	D-coded	Radox Railcat Databus CAT5 7.3 mm	12568935
1380640000	D-coded	Radox Railcat, CAT5 4 x AWG22 XC 6.6 mm	12584038
1380650000	D-coded	Radox Railcat CAT5 4 x 0.5 mm ² XCS 8.3 mm	12585489
1380670000	D-coded	PROFINET 2 x 2 x AWG22 6.5 mm ± 0.2 mm	

Technical data

Type of connection
Threaded ring material
Housing main material
Connection thread
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Fire safety for railway vehicles
Approvals
Note

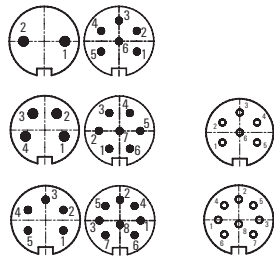
Crimp connection
Brass, nickel-plated
CuZn
M12
0.34...0.5 mm ²
4 A
50 V
-40 ... +85 °C
IP67
Gold-plated
According to EN 45545, HL1 - HL3
Crimping tool: SAI-TMCSK - 1381690000; Locator: SAI-TMC-PD - 1381700000

Dimensioned drawing



Customisable connectors

M16 solder connection



Male

Female

Ordering data

Type	Qty.	Order No.
2-pole. PG 9	1	1321700000
4-pole. PG 9	1	1117970000
5-pole. PG 9	1	1117990000
6-pole. PG 9	1	1304390000
7-pole. PG 9	1	1118010000
8-pole. PG 9	1	1304430000
12-pole. PG 9	1	1548810000
16-pole. PG 9	1	1548820000

Note

Technical data

Type of connection	Solder connection
Threaded ring material	Diecast zinc
Housing main material	PA
Connection thread	M16
Cable diameter	6...8 mm (PG9)
Connection cross-section	0,14...0,75mm ² (2-, 4-, 5-, 6-, 7- und 8-poles) / 0,14...0,25mm ² (12- und 16-poles)
Rated current	7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole) / 3 A (12- and 16-pole)
Rated voltage	250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8- and 12-pole / 30 V (16-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP40
Contact surface	Ag (silver)
Approvals	CE, UKCA

Note

SAIS

Male



SAIB

Female



Type	Qty.	Order No.
SAIB-M16-2/9	1	1321690000
SAIB-M16-4/9	1	1117960000
SAIB-M16-5/9	1	1117980000
SAIB-M16-6/9	1	1304400000
SAIB-M16-7/9	1	1118000000
SAIB-M16-8/9	1	1304450000
SAIB-M16-12/9	1	1548830000
SAIB-M16-16/9	1	1548840000

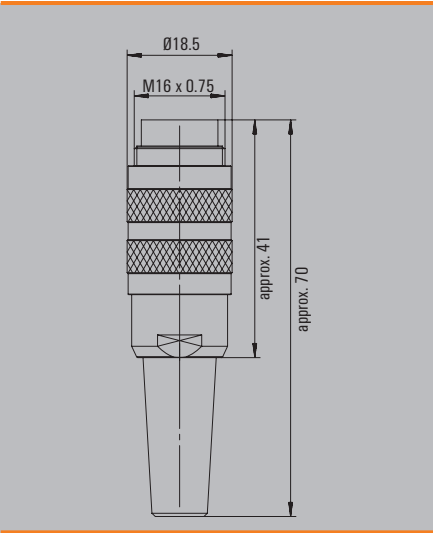
Note

Type	Solder connection
Diecast zinc	Diecast zinc
PA	PA
M16	M16
6...8 mm (PG9)	6...8 mm (PG9)
0,14...0,75mm ² (2-, 4-, 5-, 6-, 7- und 8-poles) / 0,14...0,25mm ² (12- und 16-poles)	0,14...0,75mm ² (2-, 4-, 5-, 6-, 7- und 8-poles) / 0,14...0,25mm ² (12- und 16-poles)
7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole) / 3 A (12- and 16-pole)	7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole) / 3 A (12- and 16-pole)
250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8- and 12-pole / 30 V (16-pole)	250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8- and 12-pole / 30 V (16-pole)
-40 ... +85 °C	-40 ... +85 °C
IP40	IP40
Ag (silver)	Ag (silver)
CE, UKCA	CE, UKCA

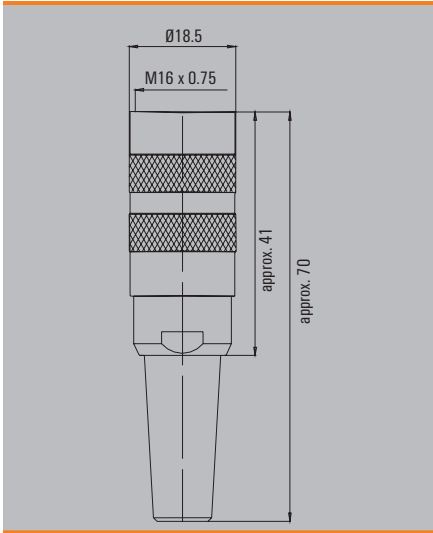
Type	Solder connection
Diecast zinc	Diecast zinc
PA	PA
M16	M16
6...8 mm (PG9)	6...8 mm (PG9)
0,14...0,75mm ² (2-, 4-, 5-, 6-, 7- und 8-poles) / 0,14...0,25mm ² (12- und 16-poles)	0,14...0,75mm ² (2-, 4-, 5-, 6-, 7- und 8-poles) / 0,14...0,25mm ² (12- und 16-poles)
7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole) / 3 A (12- and 16-pole)	7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole) / 3 A (12- and 16-pole)
250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8- and 12-pole / 30 V (16-pole)	250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8- and 12-pole / 30 V (16-pole)
-40 ... +85 °C	-40 ... +85 °C
IP40	IP40
Ag (silver)	Ag (silver)
CE, UKCA	CE, UKCA

Note

Dimensioned drawing



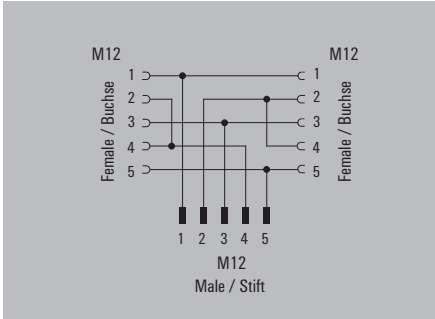
Dimensioned drawing



Y-distributor

M12/M12

Mounting screw M3, Distribution, pin 2 + 4 bridged

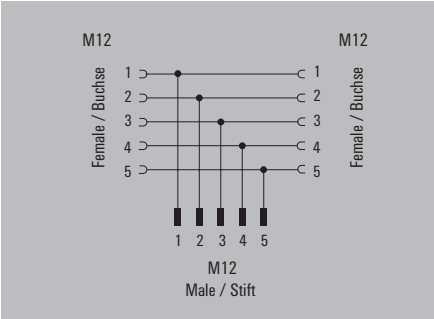


Ordering data

Type	Qty.	Order No.
SAI-Y-5S B2-4 2M12	1	1783410000
Other versions on request		

M12/M12

Mounting screw M3, Parallel distribution

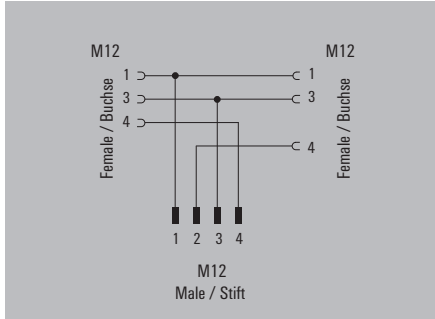


Ordering data

Type	Qty.	Order No.
SAI-Y-5S PARA 2M12	1	1783430000
Other versions on request		

M12/M12

Mounting screw M3

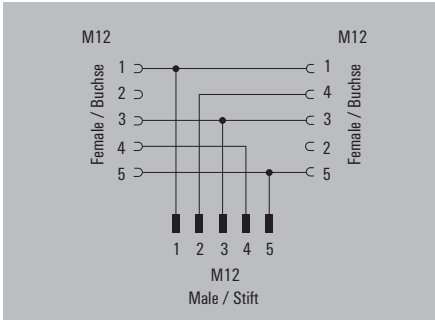


Ordering data

Type	Qty.	Order No.
SAI-Y-4S-M12/M12	1	1060730000
Other versions on request		

M12/M12

Mounting screw M3, Individual distribution



Ordering data

Type	Qty.	Order No.
SAI-Y-5S-M12/M12	1	1826880000
Other versions on request		

Y-distributor

M12/M12

Mounting screw M4

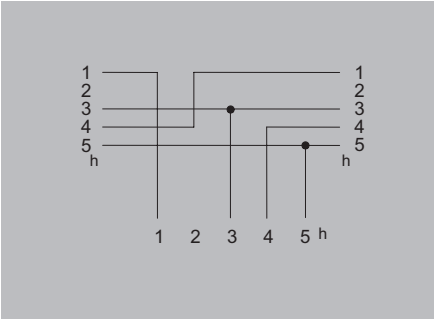


Ordering data

Type	Qty.	Order No.
SAI-Y-5S M12/M12 2B0	1	1881710000
Other versions on request		

M12/M12

And-Conjunction, Mounting screw M3

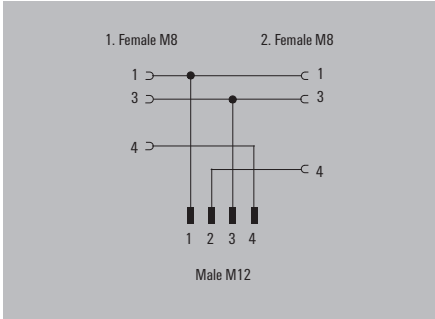


Ordering data

Type	Qty.	Order No.
SAI-Y-5 AND 2M12	1	1515140000
Other versions on request		

M12/M8

Mounting screw M3, Parallel distribution

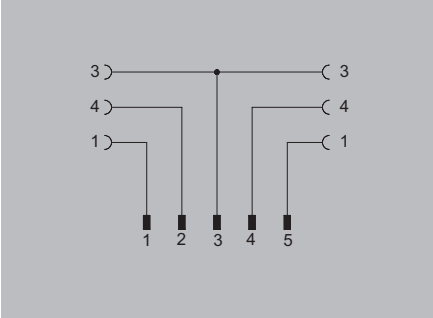


Ordering data

Type	Qty.	Order No.
SAI-Y-4-4/2-4 M12/8	1	1783420000
Other versions on request		

M12/M8

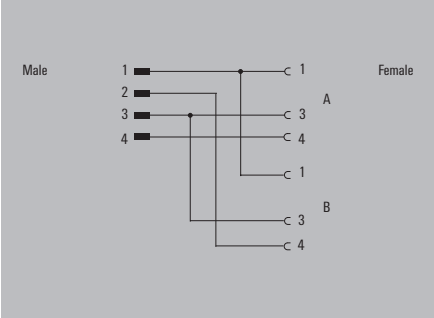
Mounting screw M3



Ordering data

Type	Qty.	Order No.
SAI-Y-5-S0 M12/8	1	1771290000
Other versions on request		

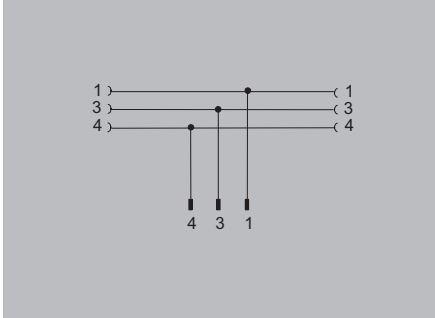
M8/M8



Ordering data

Type	Qty.	Order No.
SAI Y-4S M8-M8	1	1805660000
Other versions on request		

M8/M8



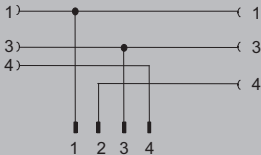
Ordering data

Type	Qty.	Order No.
SAI-Y-3/3 M8-M8	1	1524700000
Other versions on request		

Connectors – accessories

Y-distributor

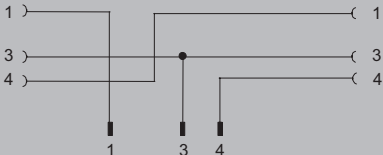
M8/M8



Ordering data

Type	Qty.	Order No.
SAI-Y-4/3 M8-M8	1	1524720000

M8/M8



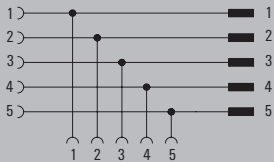
Ordering data

Type	Qty.	Order No.
SAI-Y-3/3 M8-M8 U	1	1550620000

T distributor

M12/M12

CANopen

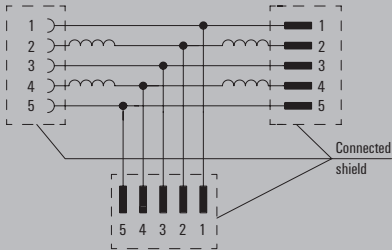


Ordering data

Type	Qty.	Order No.
SAI-T-5-PARA	1	1009370000

M12/M12

PROFIBUS



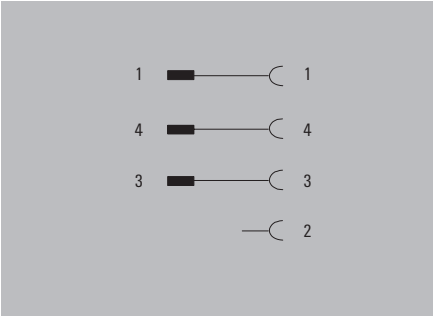
Ordering data

Type	Qty.	Order No.
SAI-T-5-M12/M12 B-COD	1	1057940000

Adapters

M8/M8

M8 Male 3-poles - M8 Female 4-poles

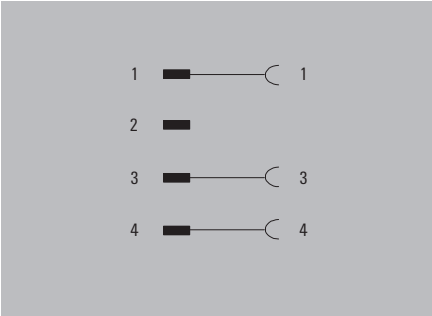


Ordering data

Type	Qty.	Order No.
SAI-ADAPTER-M8/M8-3P/4P	1	1288000000

M8/M8

M8 Male 4-poles - M8 Female 3-poles

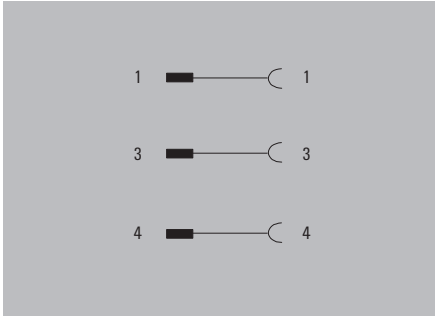


Ordering data

Type	Qty.	Order No.
SAI-ADAPT-M8/M8 4/3P	1	1990570000

M8/M12

M8 Male 3-poles - M12 Female 3-poles

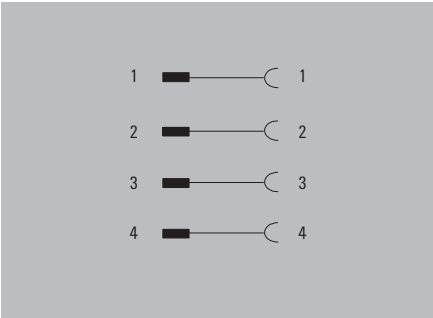


Ordering data

Type	Qty.	Order No.
SAI-ADAPT-M8/M12 3P	1	1473460000

M8/M12

M8 Male 4-poles - M12 Female 4-poles

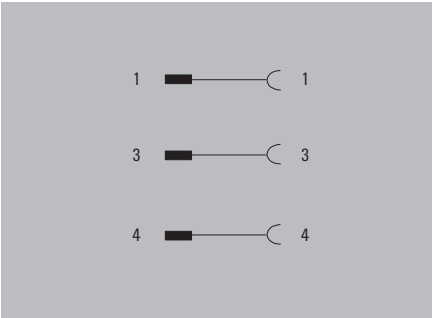


Ordering data

Type	Qty.	Order No.
SAI-ADAPT-M8/M12 4P	1	1990540000

M12/M8

M12 Male 3-poles - M8 Female 3-poles

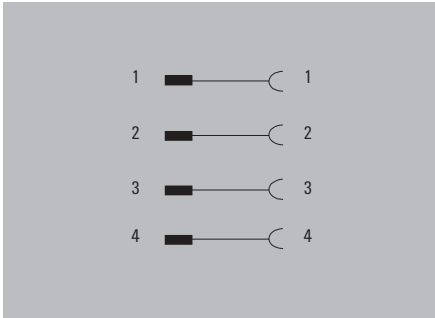


Ordering data

Type	Qty.	Order No.
SAI-ADAPT-M12/M8 3P	1	1990550000

M12/M8

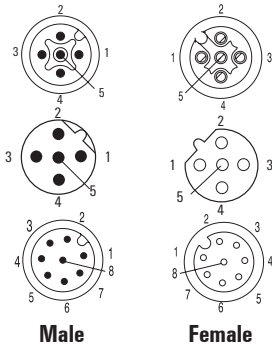
M12 Male 4-poles - M8 Female 4-poles



Ordering data

Type	Qty.	Order No.
SAI-ADAPT-M12/M8 4P	1	1990560000

Panel feed-through
A-coded
B-coded



Ordering data

	4-pole
	5-pole
	8-pole
Note	

Technical data

Type of connection
Housing main material
Connection thread
Rated current
Rated voltage
Temperature range of housing
Protection degree
AF size
Contact surface
Mounting thread
Note

SAI-WDF

A-coded



SAI-WDF

B-coded



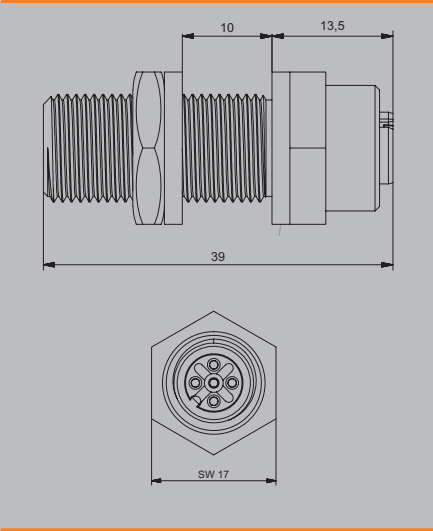
Type	Qty.	Order No.
SAI-WDF 4P M12 K 230	1	2485360000
SAI-WDF 5P M12 K	1	2427060000
SAI-WDF 8P M12 M16	1	1543490000

Screw connection
CuZn
M12 socket, M12 plug
4 A
4-pole: 230 V; 5-pole: 60 V; 8-pole: 30 V
-40 ... +85 °C
IP67
17
Gold-plated
M 12

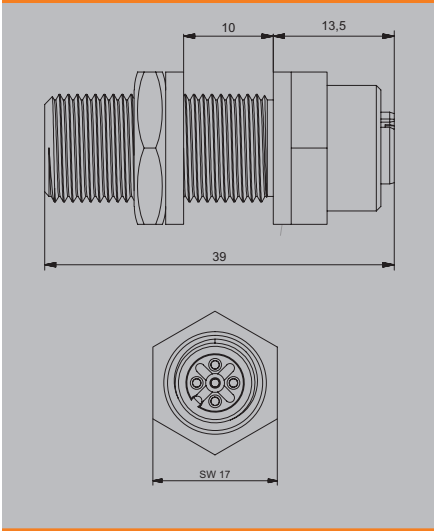
Type	Qty.	Order No.
SAI-WDF 5P B M12 K	1	2485310000

Screw connection
CuZn
M12 socket, M12 plug
4 A
5-pole: 60 V
-40 ... +85 °C
IP67
17
Gold-plated
M 12

Dimensioned drawing



Dimensioned drawing



Connectors – accessories

Protective caps for SAI distribution boxes

Protects against external effects when the I/O is not in use.
The level of protection is only valid in screwed condition and was tested on the distribution box indicated.

Protective cap M8

For SAI M8 distribution boxes.
IP 67



Ordering data

Type	Qty.	Order No.
SAI-SK M8	50	1802760000

Protective cap M12

For SAI M12 distribution boxes.
IP 67



Ordering data

Type	Qty.	Order No.
SAI-SK-M12	30	9456050000

Protective cap M12

For SAI metal distribution boxes.
IP 67



Ordering data

Type	Qty.	Order No.
SAI-SK M12 MT	30	1802750000

Protective cap M12 IDC

For SAI distribution boxes with IDC connection.
IP 67



Ordering data

Type	Qty.	Order No.
SAI-SK-M12 IDC	10	1794850000

Protective cap M12 Universal

Suitable for SAI M12 - universal distribution boxes and appropriate M12 cables.
IP 67



Ordering data

Type	Qty.	Order No.
SAI-SK-M12-UNI 2029	20	2330260000

Protective cap M12 connector

Protection from external influences. For open plugs.
For attaching to cable
IP 67



Ordering data

Type	Qty.	Order No.
SAI-SK-M12 BU	1	8425960000

Protective cap M12 connector

Protects against external effects. For open plugs or sockets.
IP 20



Ordering data

Type	Qty.	Order No.
SAI-SK STECKER M12	50	1781520000

M12 and M8 built-in plugs

Various built-in connectors are required for connection to the device in the area of the sensor-actuator cabling.

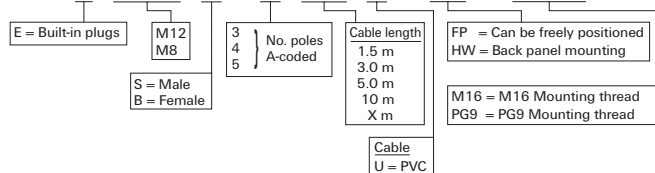
Weidmüller offers a broad portfolio of built-in connectors with different types of assembly, coding, numbers of poles and cable lengths in thread sizes M8 and M12.

Properties:

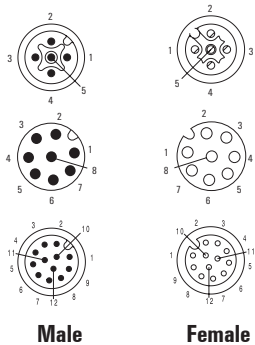
- Front mounting (screw-in and freely positioned) and back panel mounting
- A and B coding
- M8, M16 and PG9 installation thread
- 3-, 4-, 5-, 8- and 12-pole

Designation code SAIE

SAIE-M12 S - 3 1.5 U - FP - M16



M12 A-coded
Front wall mounting



Ordering data

Male	
4-pole	
5-pole	
8-pole	
12-pole	
Female	
4-pole	
5-pole	
8-pole	
12-pole	
Note	

Technical data

Mounting thread
Housing main material
Connection thread
Wire cross section
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

M12 Screw-in thread

Mounting thread M16



Type	Qty.	Order No.
SAIE-M12S-4-0.5U-M16	1	1861090000
SAIE-M12S-5-0.5U-M16	1	1861230000
SAIE-M12S-8-0.5U-M16	1	1861110000
SAIE-M12B-4-0.5U-M16	1	1861120000
SAIE-M12B-5-0.5U-M16	1	1836910000
SAIE-M12B-8-0.5U-M16	1	1861140000
Other versions on request		

M 16 x 1.5
Brass, nickel-plated
M12
0.34 (4- and 5-pole)/ 0.25 (8-pole)/ 0.14 (12-pole)
4 A (4- and 5-pole)/ 2 A (8-pole)/ 1.5 A (12-pole)
250 V (4-pole)/ 60 V (5-pole)/ 30 V (8 and 12-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

M12 Free positioning

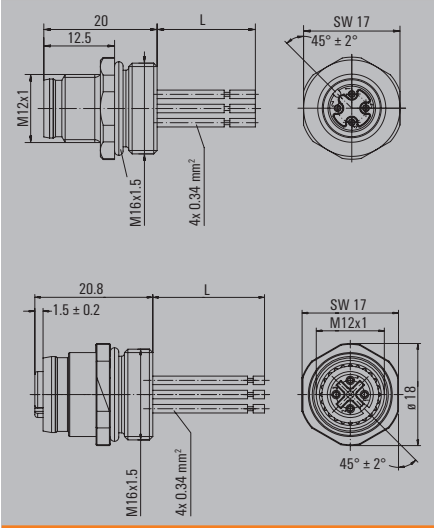
Mounting thread M16



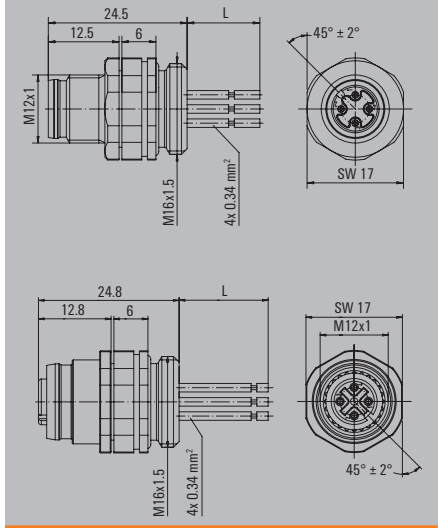
Type	Qty.	Order No.
SAIE-M12S-4-0.5U-FP-M16	1	1861160000
SAIE-M12S-5-0.5U-FP-M16	1	1861170000
SAIE-M12S-8-0.5U-FP-M16	1	1861180000
SAIE-M12S-12-0.5U-FP-M16	1	1283550000
SAIE-M12B-4-0.5U-FP-M16	1	1861190000
SAIE-M12B-5-0.5U-FP-M16	1	1856110000
SAIE-M12B-8-0.5U-FP-M16	1	1861210000
SAIE-M12B-12-0.5U-FP-M16	1	1289140000
Other versions on request		

M 16 x 1.5
Brass, nickel-plated
M12
0.34 (4- and 5-pole)/ 0.25 (8-pole)/ 0.14 (12-pole)
4 A (4- and 5-pole)/ 2 A (8-pole)/ 1.5 A (12-pole)
250 V (4-pole)/ 60 V (5-pole)/ 30 V (8 and 12-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing

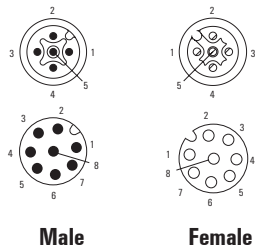


Dimensioned drawing



Built-in plugs

M12 A-coded
Front wall mounting
Back wall mounting



Ordering data

Male	
4-pole	
5-pole	
8-pole	
Female	
4-pole	
5-pole	
8-pole	
Note	

Technical data

Mounting thread
Housing main material
Connection thread
Wire cross section
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

M12 Screw-in thread

Mounting thread PG9



Type	Qty.	Order No.
SAIE-M12S-4-0.5U-PG9	1	1861220000
SAIE-M12S-5-0.5U-PG9	1	1856120000
SAIE-M12S-8-0.5U-PG9	1	1861240000
SAIE-M12B-4-0.5U-PG9	1	1861250000
SAIE-M12B-5-0.5U-PG9	1	1814890000
SAIE-M12B-8-0.5U-PG9	1	1861270000
Other versions on request		

PG 9
Brass, nickel-plated
M12
0.34 (4- and 5-pole) / 0.25 (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

M12 Back panel mounting

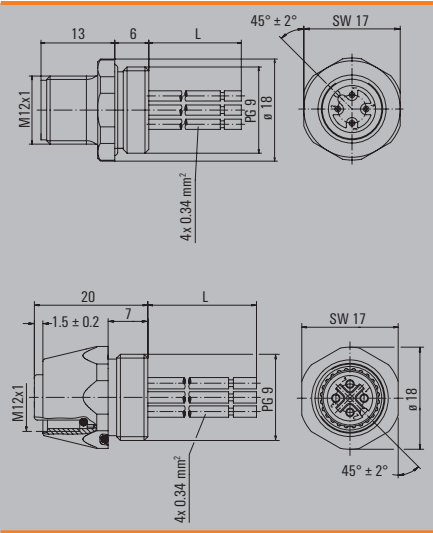
Mounting thread PG9



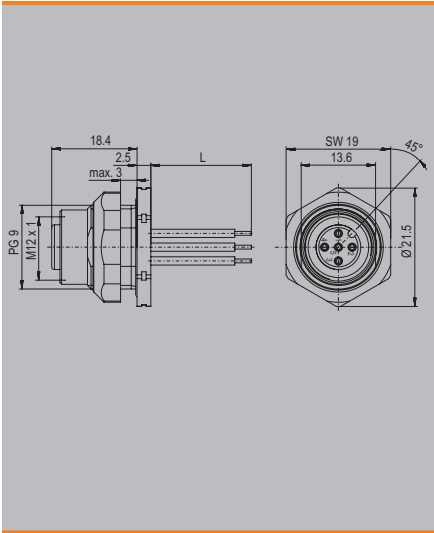
Type	Qty.	Order No.
SAIE-M12B-5-0.5V-HW-PG9	10	2796760000
Further variants on request or at eshop.weidmueller.com		

PG 9
CuZn, nickel-plated
M12
0.5 mm²
4 A
60 V
-25...+80 °C
IP67, when screwed in
Ni/Au

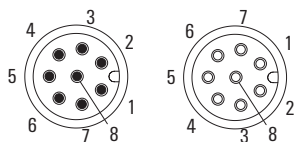
Dimensioned drawing



Dimensioned drawing



M8 8-pole
Front wall mounting
Back wall mounting



Male

Female

Ordering data

Male	8-pole
Female	8-pole
Note	

Technical data

Mounting thread
Housing main material
Connection thread
Core cross-section
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

M8 Free positioning

Mounting thread M8



Type	Qty.	Order No.
SAIE-M8S-8-0.2U-FP	1	1467590000
SAIE-M8B-8-0.2U-FP	1	1467630000
Further versions on request		

M8
Brass, nickel-plated
M8 thread
0.14 mm ²
1.5 A
30 V
-25...+85 °C
IP67, when screwed in
Gold-plated

M8 Back panel mounting

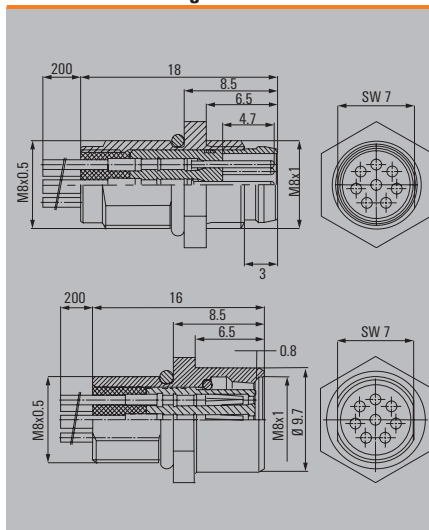
Mounting thread M10/M8



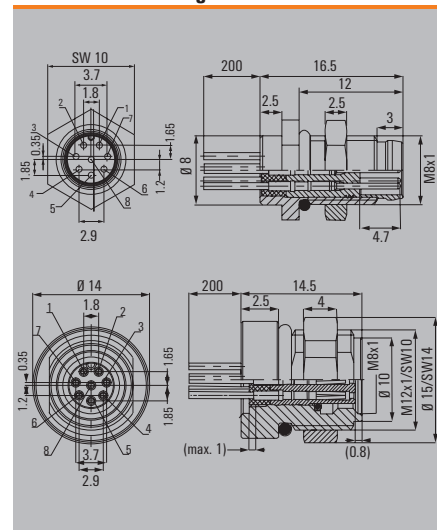
Type	Qty.	Order No.
SAIE-M8S-8-0.2U-HW	1	1467620000
SAIE-M8B-8-0.2U-HW	1	1467640000
Further versions on request		

M8
Brass, nickel-plated
M8 thread
0.14 mm ²
1.5 A
30 V
-25...+85 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing

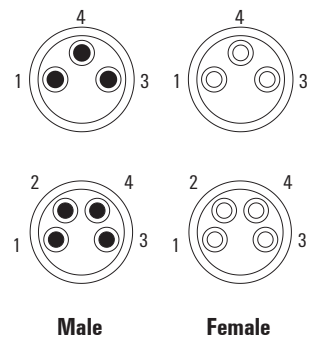


Dimensioned drawing



Built-in plugs

M8 3- and 4-pole
Front wall mounting



Ordering data

Male	3-pole
	4-pole
Female	3-pole
	4-pole
Note	

Technical data

Mounting thread
Housing main material
Connection thread
Core cross-section
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

M8 Free positionable, snap

Mounting thread M8



Type	Qty.	Order No.
SAIE-M8R-3-0.5U-FP-M8	1	1861280000
SAIE-M8R-4-0.5U-FP-M8	1	1861290000
Further versions on request		

M8
Brass, nickel-plated
M8 snap
0.25 mm ²
4 A
60 V (3-pole) / 30 V (4-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

M8 Free positioning

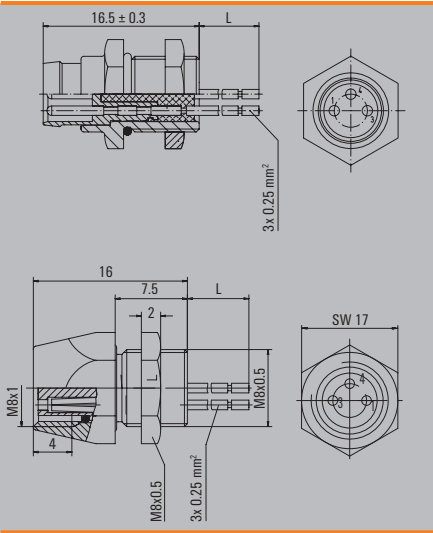
Mounting thread M8



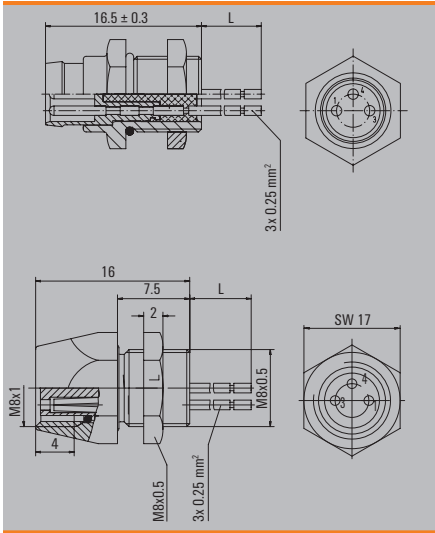
Type	Qty.	Order No.
SAIE-M8S-3-0.5U-FP-M8	1	1078730000
SAIE-M8S-4-0.5U-FP-M8	1	1078720000
SAIE-M8B-3-0.5U-FP-M8	1	1856130000
SAIE-M8B-4-0.5U-FP-M8	1	1856140000
Further versions on request		

M8
Brass, nickel-plated
M8 thread
0.25 mm ²
4 A
60 V (3-pole) / 30 V (4-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing

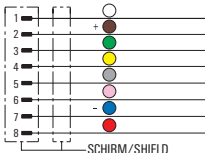
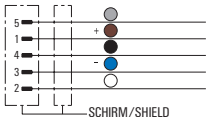
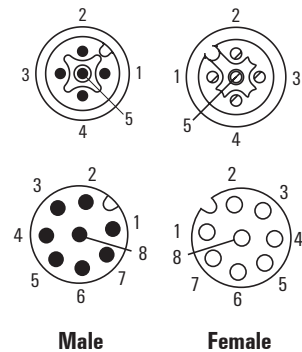


Dimensioned drawing





M12, open on one side
A-coded
shielded
Back panel mounting



Ordering data

Male, straight	
PUR	0.5 m
PUR	2.0 m
Female, straight	
PUR	0.5 m
PUR	2.0 m
Note	

5-pole

SAIE-M12S-5S0.5U HW	1341230050
SAIE-M12S-5S2.0U HW	1341230200
SAIE-M12B-5S0.5U HW	1222270050
SAIE-M12B-5S2.0U HW	1222270000

8-pole

SAIE-M12S-8S0.5U HW	1341240050
SAIE-M12S-8S2.0U HW	1341240200
SAIE-M12B-8S0.5U HW	1223650050
SAIE-M12B-8S2.0U HW	1223650000

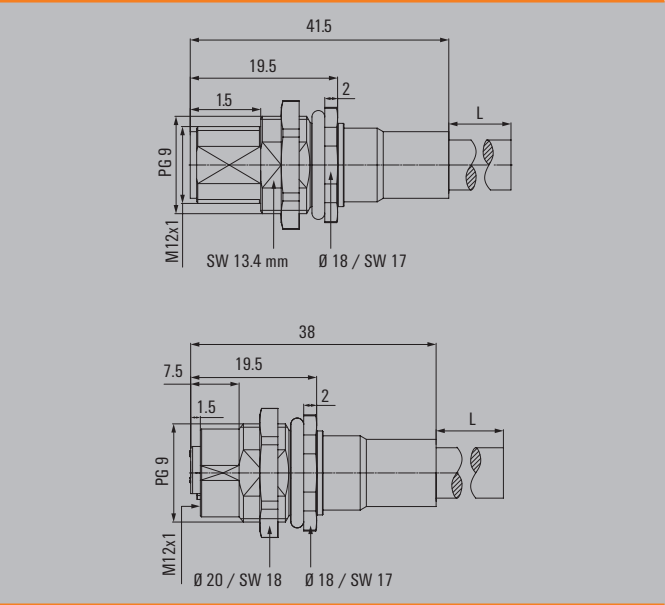
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Mounting thread	PG 9
Housing main material	Zinc diecast, nickel-plated
Connection thread	M12
Core cross-section	0.25 mm²
Rated current	4 A (5-pole) / 2 A (8-pole)
Rated voltage	60 V (5-poles) / 30 V (8-poles)
Temperature range of housing	-5 ... +70 °C
Protection degree	IP68
Contact surface	Gold-plated

Dimensioned drawing



Valve plugs for custom assembly



Variants in different designs

- A (contact spacing: 18 mm),
- B (11 mm) or BD (10 mm)
- C (9.4 mm) or CD (8 mm)

Design of the plug-in connector:

- 3 and 4-pole variants
- With and without protective circuit
- IP65 thanks to included flat gasket

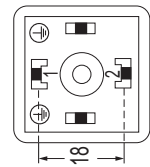
Legend

Designation code	
VS-	Valve plug
OB-	Without cables
3P, 4P-	No. of poles
7, 9, 11-	Cable entry (PG)
H	High form
T	Transparent housing
3P	2 + PE
4P	3 + PE
LD	Light-emitting diode (LED)

Type of valve plug	Contact gap	
A	18.0 mm	
B	11.0 mm	to industry standard
BD	10.0 mm	to DIN
C	9.4 mm	to industry standard
CD	8.0 mm	to DIN



Design type A
without protective circuit
Contact distance 18 mm



Ordering data

PG9 cable passage	
	3-pole
	4-pole
PG11 cable passage	
	3-pole
	4-pole
Note	

Technical data

Type of connection
Housing main material
Coding
Cable diameter
Connection cross-section min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

SAIB-VSA



Type	Qty.	Order No.
SAIB-VSA-3P/250/9-OB	1	1873070000
SAIB-VSA-4P/250/9-OB	1	1873080000
SAIB-VSA-3P/250/11-OB	1	1873090000
SAIB-VSA-4P/250/11-OB	1	1873100000

Screw connection
PA 6 GF
Design A (18 mm)
6...8 mm (PG9), 8...10 mm (PG11)
0.34...1.5 mm ²
10 A
250 V
-30...+100 °C
IP65
Ni

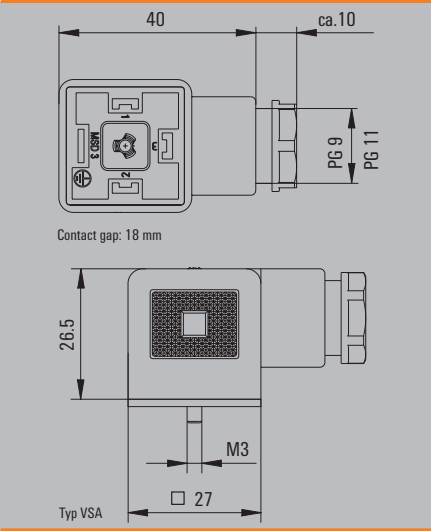
SAIB-VSA



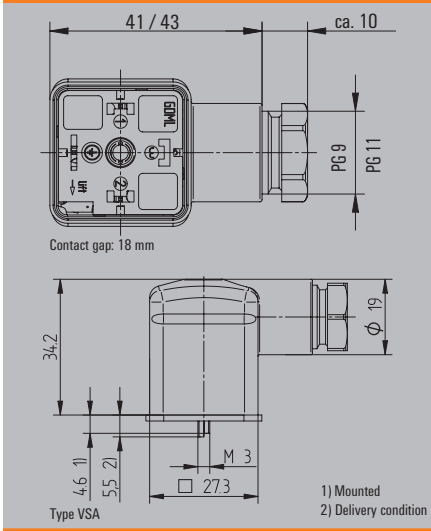
Type	Qty.	Order No.
SAIB-VSA-3P/230/9-H/OB	1	1873130000
SAIB-VSA-4P/230/9-H/OB	1	1873140000
SAIB-VSA-3P/230/11-H/OB	1	1873150000
SAIB-VSA-4P/230/11-H/OB	1	1873160000

Screw connection
PA 6 GF
Design A (18 mm)
4.5...7 mm (PG9), 6...9 mm (PG11)
0.34...1.5 mm ²
10 A
230 V
-30...+90 °C
IP65, IP67, when screwed in
CuSn

Dimensioned drawing

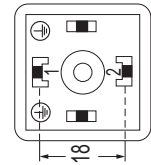


Dimensioned drawing



Valve plugs for custom assembly

Design type A
with protective circuit
Contact distance 18 mm



Ordering data

PG9 cable passage	3-pole
Note	

Technical data

Type of connection
Housing main material
Coding
Cable diameter
Connection cross-section min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

SAIB-VSA

with Free-wheel diode, 24 V



SAIB-VSA

with Varistor, 230 V



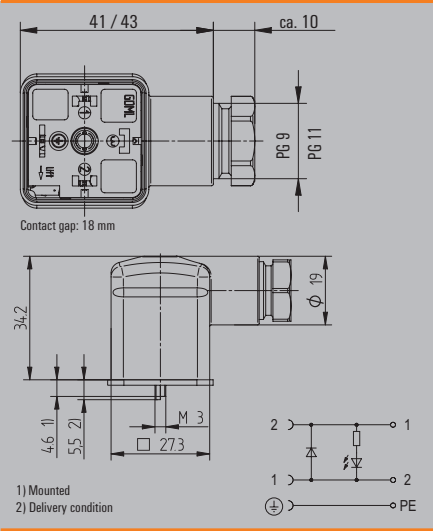
Type	Qty.	Order No.
SAIB-VSA-3P/24/9/LD	1	1873120000

Screw connection
PA 6 GF
Design A (18 mm)
4.5...10 mm (PG9)
0.34...1.5 mm ²
10 A
24 V DC
-30...+90 °C
IP65, IP67, when screwed in
CuSn

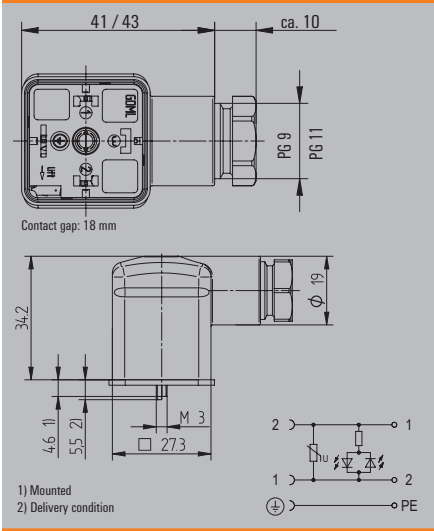
Type	Qty.	Order No.
SAIB-VSA-3P/230/9/LD	1	1873110000

Screw connection
PA 6 GF
Design A (18 mm)
4.5...10 mm (PG9)
0.34...1.5 mm ²
10 A
230 V
-30...+90 °C
IP65, IP67, when screwed in
CuSn

Dimensioned drawing

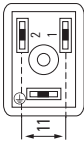


Dimensioned drawing



Design type B

Contact distance 11 mm



SAIB-VSB

without protective circuit



SAIB-VSB

with Free-wheel diode, 24 V



Ordering data

PG9 cable passage	3-pole
Note	

Technical data

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Industrial design B (11 mm)
Cable diameter	4.5...7 mm (PG9)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage	250 V
Temperature range of housing	-30...+90 °C
Protection degree	IP65, IP67, when screwed in
Contact surface	CuSn
Note	

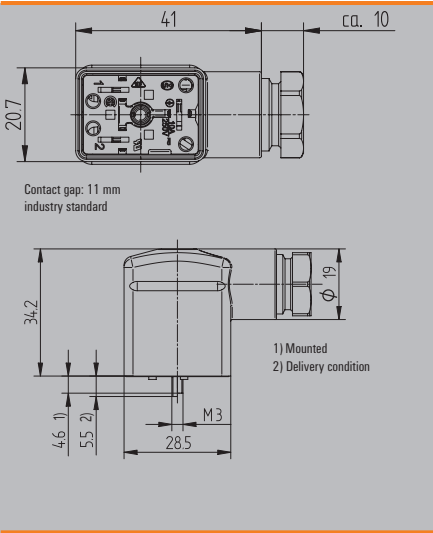
Type	Qty.	Order No.
SAIB-VSB-3P/250/9-0B	1	1873170000

Screw connection
PA 6 GF
Industrial design B (11 mm)
4.5...7 mm (PG9)
0.34...1.5 mm ²
10 A
250 V
-30...+90 °C
IP65, IP67, when screwed in
CuSn

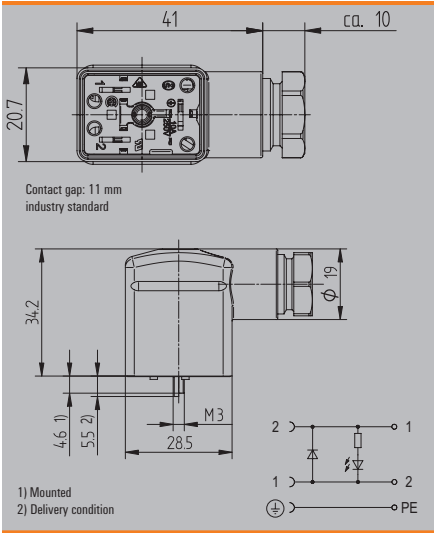
Type	Qty.	Order No.
SAIB-VSB-3P/24/9/LD	1	1873180000

Screw connection
PA 6 GF
Industrial design B (11 mm)
4.5...7 mm (PG9)
0.34...1.5 mm ²
8 A
24 V DC
-30...+90 °C
IP65, IP67, when screwed in
CuSn

Dimensioned drawing



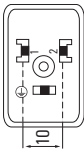
Dimensioned drawing



Valve plugs for custom assembly

Design type BD
without protective circuit

Contact distance 10 mm



SAIB-VSBD



Ordering data

PG9 cable passage	3-pole
Note	

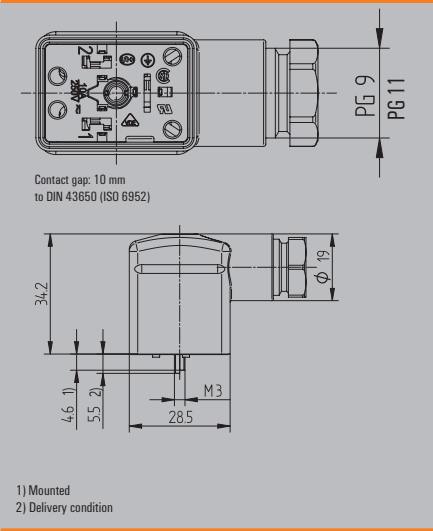
Type	Qty.	Order No.
SAIB-VSBD-3P/250/9-0B	1	1873190000

Technical data

Type of connection
Housing main material
Coding
Cable diameter
Connection cross-section min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

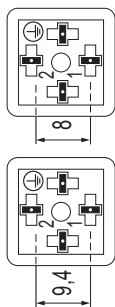
Screw connection
PA 6 GF
DIN design B (10 mm)
4.5...7 mm (PG9)
0.34...1.5 mm ²
10 A
250 V
-30...+90 °C
IP65, IP67, when screwed in
CuSn

Dimensioned drawing



Design type C/CD
without protective circuit

Contact distance C = 9.4 mm, CD = 8 mm



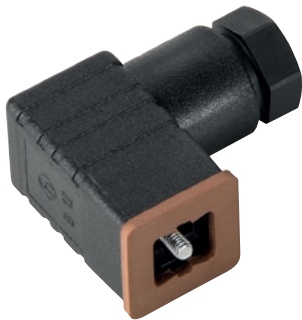
Ordering data

PG7 cable passage	
	3-pole
	4-pole
Note	

Technical data

Type of connection
Housing main material
Coding
Cable diameter
Connection cross-section min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

SAIB-VSC



Type	Qty.	Order No.
SAIB-VSC-3P/250/7-0B	1	1873200000
SAIB-VSC-4P/250/7-0B	1	1873210000

Screw connection
PA 6 GF
Industrial design C (9.4 mm)
4.5...6 mm (PG7)
0.25...0.75 mm²
6 A
250 V
-25...+90 °C
IP65, when screwed in
CuSn

SAIB-VSCD



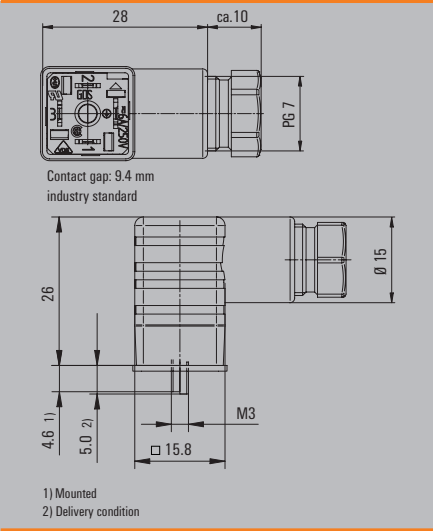
Type	Qty.	Order No.
SAIB-VSCD-3P/250/7-0B	1	1873220000
SAIB-VSCD-4P/250/7-0B	1	1873230000

Screw connection
PA 6 GF
DIN design C (8 mm)
4.5...6 mm (PG7)
0.25...0.75 mm²
6 A
250 V
-25...+90 °C
IP65, when screwed in
CuSn

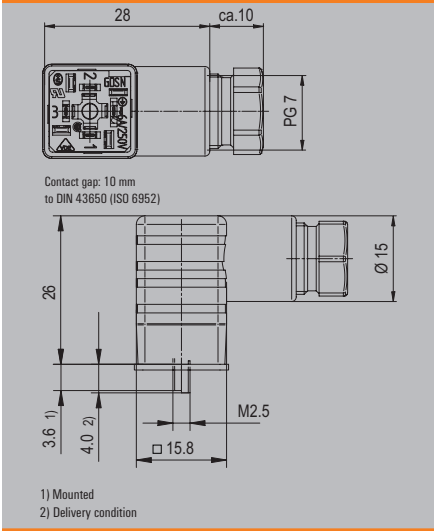
M8, M12 Plug-in connectors
and protective caps

C

Dimensioned drawing



Dimensioned drawing



Protective sleeve adapter



In machine construction, it is very common for cables to be run in the open air. To be able to protect cables from damage through a wide range of causes such as rodents, it is some-times necessary to protect the cable with a protective sleeve.

To fasten the protective sleeve to a plug in connector designed for custom assembly, Weidmüller offers a protective sleeve adapter. This adapter is used instead of the PG7 cable gland. The protective sleeve is quick to fit, protecting the cable straight away.

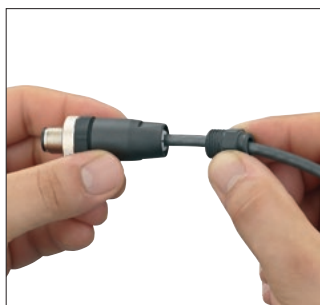
Ordering data

Type	Qty.	Order No.
SAI-SSA-PG7	10	1938300000

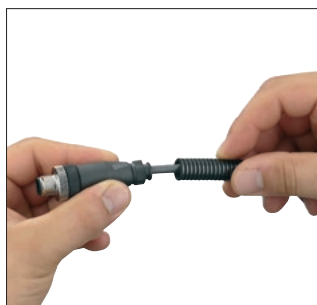
Fitting a protective sleeve adapter



1. Unscrewing the PG7 cable gland



2. Screwing on the protective sleeve adapter

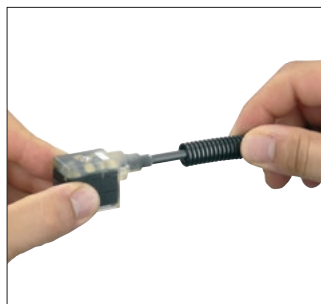


3. Fitting a PG7 protective sleeve

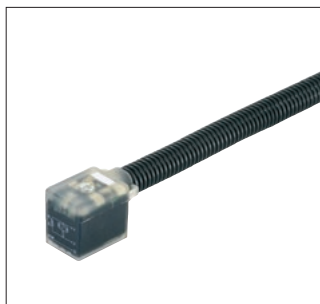


4. Finished

Connection of protective sleeve adapter to other plug connectors



1. Connect the protective tubing to the tube union



2. Finished

The protective sleeve is also suitable for protecting cables with valve plugs. A corresponding connecting piece is already present on valve plugs with moulded seal.

M12 POWER (A-, S-, K-, L- and T-coded)

M12 POWER (A-, S-, K-, L- and T-coded)	Introduction	D.2
	Sensor cables	D.4
	Customisable plug-in connectors	D.14
	Customisable panel feed-through	D.22
	Panel feed-through	D.24
	Built-in plug	D.26
	T, h and H distributors	D.30
	M12 distribution boxes	D.32
	M12 power distribution boxes	D.34
	Connectors – accessories	D.37

M12 POWER (A-, S-, K-, L- und T-Codiert)

Your peripheral devices should be supplied with greater power. We offer a compact solution to for high power transmission.

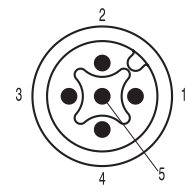
- A-, S-, T-, K- or L-coding
- 630 V AC or 60 V DC
- 12 A or 16 A

We offer the following products:

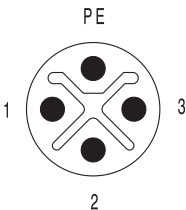
- Passive distribution boxes (SVV for 24 V, MVV for 400 V)
- Overmoulded cable solutions
- Customisable plug-in connectors
- Plug-in connectors for device integration
- Circuit board mounting
- With strands



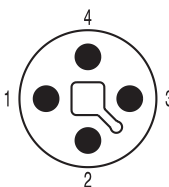
A-coded



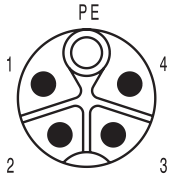
S-coded



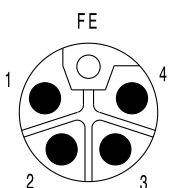
T-coded



K-coded



L-coded





Securely coded

S-coded M12 plug-in connectors come with three poles and an advanced PE contact. The T-coded variants have four poles of equal length. Neither system is compatible with other M12 solutions.



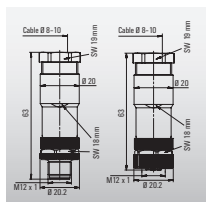
High performance data

With the transmission of 12 A and 630 V AC or 60 V DC, our M12 plug-in connectors bring more power to your IP 6x peripherals.



Simple assembly

The IDC, crimp or screw connection for the conductor makes connecting on site problem-free.



Small dimensions

The compact size of our M12 plug system helps you set up space-saving field wiring systems.



Connectors

Screw connection



Panel feed-through

Screw connection

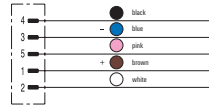
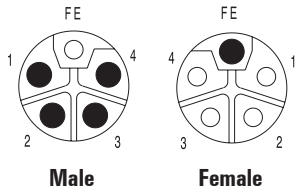


Built in connectors



Distributors

One end without connector
M12
L-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

	5-pole
SAIL-M12G-L-1.5PGR	2455220150
SAIL-M12G-L-3.0PGR	2455220300
SAIL-M12G-L-5.0PGR	2455220500
SAIL-M12G-L-10PGR	2455221000
SAIL-M12W-L-1.5PGR	2455240150
SAIL-M12W-L-3.0PGR	2455240300
SAIL-M12W-L-5.0PGR	2455240500
SAIL-M12W-L-10PGR	2455241000
SAIL-M12BG-L-1.5PGR	2455330150
SAIL-M12BG-L-3.0PGR	2455330300
SAIL-M12BG-L-5.0PGR	2455330500
SAIL-M12BG-L-10PGR	2455331000
SAIL-M12BW-L-1.5PGR	2455200150
SAIL-M12BW-L-3.0PGR	2455200300
SAIL-M12BW-L-5.0PGR	2455200500
SAIL-M12BW-L-10PGR	2455201000

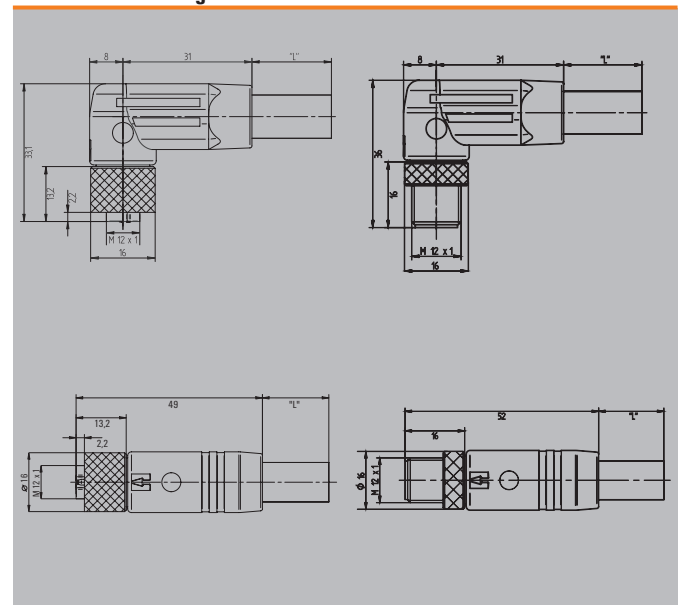
The diagram illustrates a sequence of horizontal bars. At the top, a single bar is shown with a grey left portion and an orange right portion. Below this, there are five more horizontal bars. The first bar is entirely grey, while the subsequent four bars are entirely orange. To the right of these bars, there are five horizontal bars, each composed of a grey segment on the left and an orange segment on the right, mirroring the structure of the top bar.

[illegible]

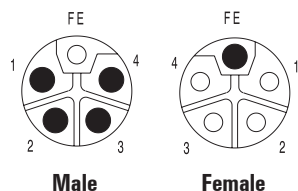
Technical data

Core cross-section	1.5 mm ²
Rated voltage	63 V DC
Rated current	16 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP67, when screwed in
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE, cULus, UKCA

Dimensioned drawing



L-coded



5-pole

Ergonomic data	
Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

SAIL-M12GM12G-L-1.5PGR	2455260150
SAIL-M12GM12G-L-3.0PGR	2455260300
SAIL-M12GM12G-L-5.0PGR	2455260500
SAIL-M12GM12G-L-10PGR	2455261000
SAIL-M12GM12W-L-1.5PGR	2455280150
SAIL-M12GM12W-L-3.0PGR	2455280300
SAIL-M12GM12W-L-5.0PGR	2455280500
SAIL-M12GM12W-L-10PGR	2455281000
SAIL-M12WM12W-L-1.5PGR	2455300150
SAIL-M12WM12W-L-3.0PGR	2455300300
SAIL-M12WM12W-L-5.0PGR	2455300500
SAIL-M12WM12W-L-10PGR	2455301000
SAIL-M12WM12G-L-1.5PGR	2455320150
SAIL-M12WM12G-L-3.0PGR	2455320300
SAIL-M12WM12G-L-5.0PGR	2455320500
SAIL-M12WM12G-L-10PGR	2455321000

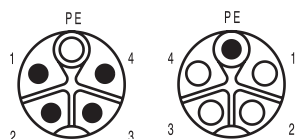
Core cross-section	1.5 mm ²
Rated voltage	63 V DC
Rated current	16 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP67, when screwed in
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus; UKCA

One end without connector

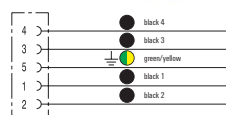
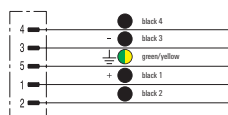
M12

K-coded

1.5mm²



Male

Female

Ordering data

Flowing data	
Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

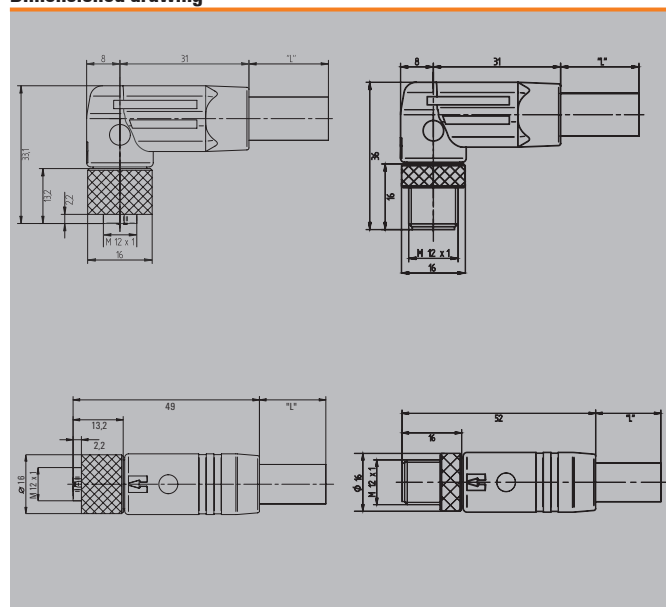
	5-pole
SAIL-M12G-K-1.5P	2455210150
SAIL-M12G-K-3.0P	2455210300
SAIL-M12G-K-5.0P	2455210500
SAIL-M12G-K-10P	2455211000
SAIL-M12W-K-1.5P	2455230150
SAIL-M12W-K-3.0P	2455230300
SAIL-M12W-K-5.0P	2455230500
SAIL-M12W-K-10P	2455231000
SAIL-M12BG-K-1.5P	2455150150
SAIL-M12BG-K-3.0P	2455150300
SAIL-M12BG-K-5.0P	2455150500
SAIL-M12BG-K-10P	2455151000
SAIL-M12BW-K-1.5P	2455190150
SAIL-M12BW-K-3.0P	2455190300
SAIL-M12BW-K-5.0P	2455190500
SAIL-M12BW-K-10P	2455191000

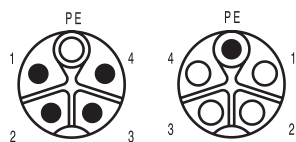
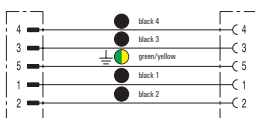
An abstract graphic design featuring a grid of colored squares (orange, grey, white) and horizontal lines. The design is composed of several horizontal bands. At the top, there is a thin orange band, followed by a grey band, and then a white band. Below these, there are several horizontal lines. The design is minimalist and modern, with a focus on geometric shapes and a limited color palette. The overall composition is balanced and visually appealing.

Technical data

Core cross-section	1.5 mm ²
Rated voltage	630 V AC
Rated current	12 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP67, when screwed in
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus; UKCA

Dimensioned drawing



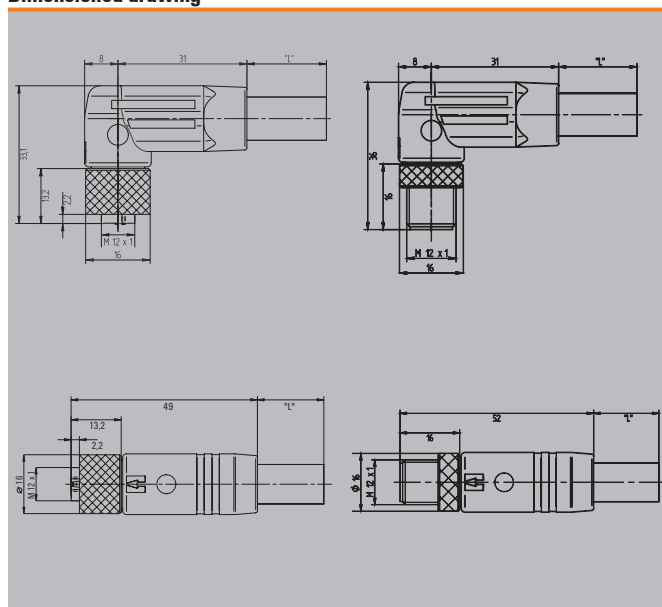
**Female**

Drawing data	
Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

SAIL-M12GM12G-K-1.5P	2455250150
SAIL-M12GM12G-K-3.0P	2455250300
SAIL-M12GM12G-K-5.0P	2455250500
SAIL-M12GM12G-K-10P	2455251000
SAIL-M12GM12W-K-1.5P	2455270150
SAIL-M12GM12W-K-3.0P	2455270300
SAIL-M12GM12W-K-5.0P	2455270500
SAIL-M12GM12W-K-10P	2455271000
SAIL-M12WM12W-K-1.5P	2455290150
SAIL-M12WM12W-K-3.0P	2455290300
SAIL-M12WM12W-K-5.0P	2455290500
SAIL-M12WM12W-K-10P	2455291000
SAIL-M12WM12G-K-1.5P	2455310150
SAIL-M12WM12G-K-3.0P	2455310300
SAIL-M12WM12G-K-5.0P	2455310500
SAIL-M12WM12G-K-10P	2455311000

A decorative graphic consisting of several horizontal bars of varying lengths and colors (orange, grey, and white) stacked on the left side of the page.

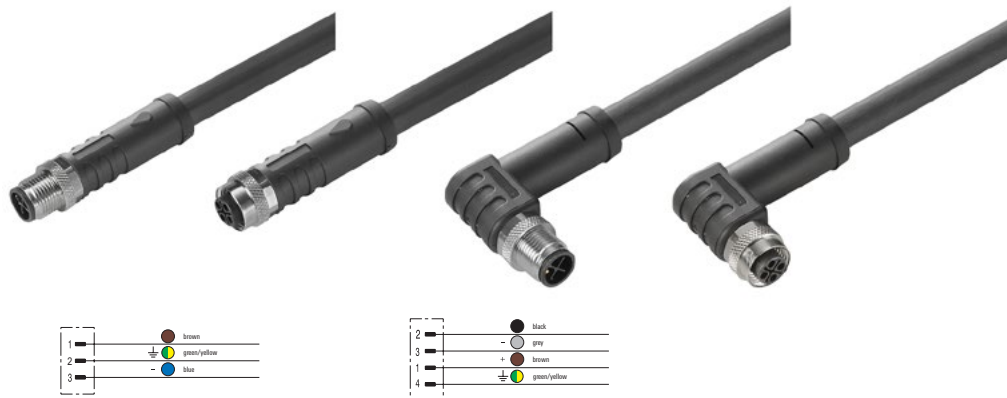
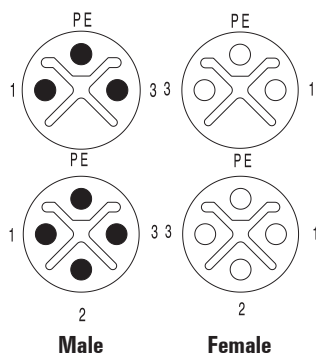
Core cross-section	1.5 mm ²
Rated voltage	630 V AC
Rated current	12 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP67, when screwed in
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus; UKCA



One end without connector

M12

S-coded



Ordering data

Flowing data	
Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

	3-pole
SAIL-M12G-S3-1.5P	2706680150
SAIL-M12G-S3-3.0P	2706680300
SAIL-M12G-S3-5.0P	2706680500
SAIL-M12G-S3-10P	2706681000
SAIL-M12W-S3-1.5P	2050050150
SAIL-M12W-S3-3.0P	2050050300
SAIL-M12W-S3-5.0P	2050050500
SAIL-M12W-S3-10P	2050051000
SAIL-M12BG-S3-1.5P	2706670150
SAIL-M12BG-S3-3.0P	2706670300
SAIL-M12BG-S3-5.0P	2706670500
SAIL-M12BG-S3-10P	2706671000
SAIL-M12BW-S3-1.5P	2050010150
SAIL-M12BW-S3-3.0P	2050010300
SAIL-M12BW-S3-5.0P	2050010500
SAIL-M12BW-S3-10P	2050011000

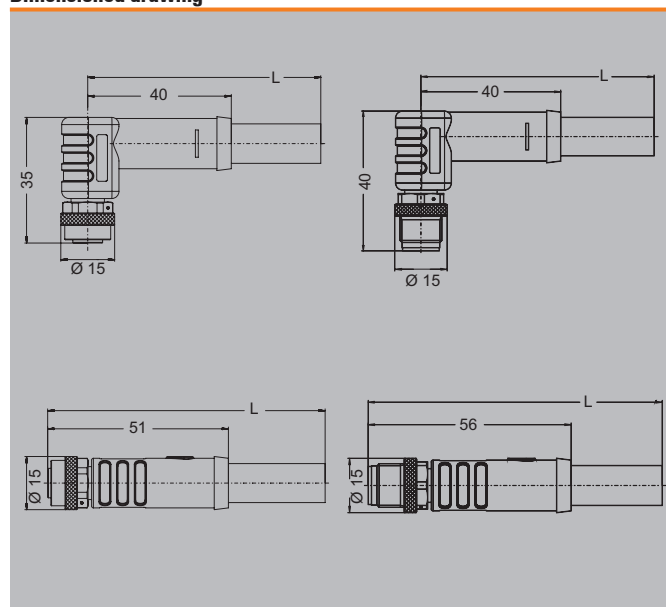
	4-pole
SAIL-M12G-S-1.5P	2050230150
SAIL-M12G-S-3.0P	2050230300
SAIL-M12G-S-5.0P	2050230500
SAIL-M12G-S-10P	2050231000
SAIL-M12W-S-1.5P	2050260150
SAIL-M12W-S-3.0P	2050260300
SAIL-M12W-S-5.0P	2050260500
SAIL-M12W-S-10P	2050261000
SAIL-M12BG-S-1.5P	2050160150
SAIL-M12BG-S-3.0P	2050160300
SAIL-M12BG-S-5.0P	2050160500
SAIL-M12BG-S-10P	2050161000
SAIL-M12BW-S-1.5P	2050210150
SAIL-M12BW-S-3.0P	2050210300
SAIL-M12BW-S-5.0P	2050210500
SAIL-M12BW-S-10P	2050211000

A decorative graphic consisting of several horizontal bars of varying lengths and colors (orange, grey, and white) stacked vertically on the left side of the page.

Technical data

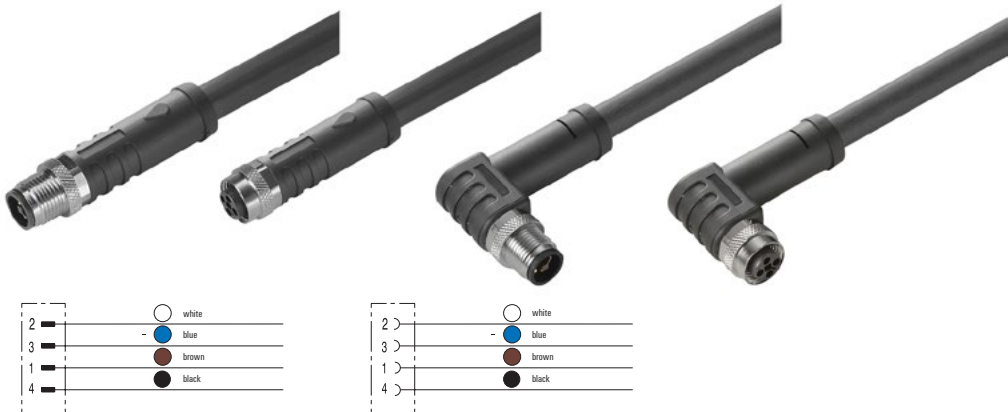
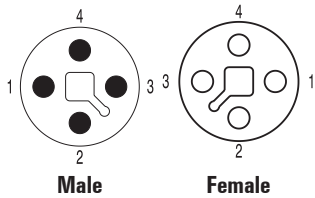
Core cross-section	1.5 mm ²
Rated voltage	630 V AC
Rated current	12 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP67, when screwed in
AF size	13
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus; UKCA

Dimensioned drawing



Sensor cables

One end without connector
M12
T-coded

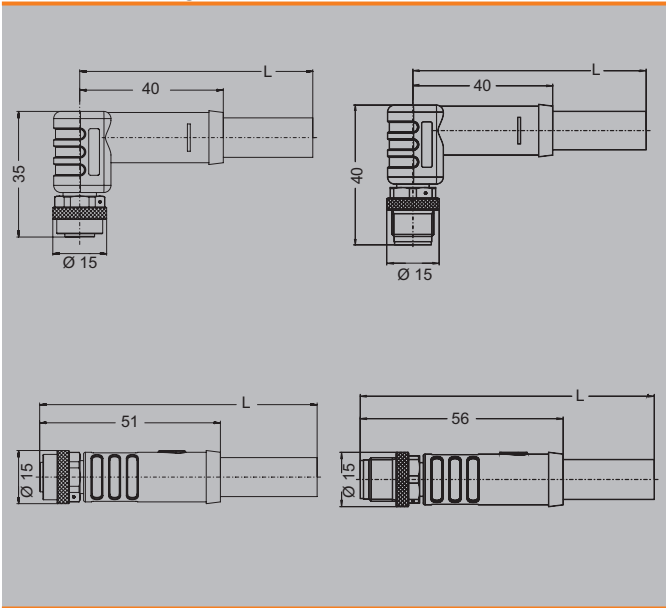


		1.5 mm²		2.5 mm²	
Male, straight					
PUR halogen-free	1.5 m	SAIL-M12G-T-1.5P	2050640150	SAIL-M12G-T-1.5H	2050700150
PUR halogen-free	3.0 m	SAIL-M12G-T-3.0P	2050640300	SAIL-M12G-T-3.0H	2050700300
PUR halogen-free	5.0 m	SAIL-M12G-T-5.0P	2050640500	SAIL-M12G-T-5.0H	2050700500
PUR halogen-free	10.0 m	SAIL-M12G-T-10P	2050641000	SAIL-M12G-T-10H	2050701000
Male, angled					
PUR halogen-free	1.5 m	SAIL-M12W-T-1.5P	2050650150	SAIL-M12W-T-1.5H	2050710150
PUR halogen-free	3.0 m	SAIL-M12W-T-3.0P	2050650300	SAIL-M12W-T-3.0H	2050710300
PUR halogen-free	5.0 m	SAIL-M12W-T-5.0P	2050650500	SAIL-M12W-T-5.0H	2050710500
PUR halogen-free	10.0 m	SAIL-M12W-T-10P	2050651000	SAIL-M12W-T-10H	2050711000
Female, straight					
PUR halogen-free	1.5 m	SAIL-M12BG-T-1.5P	2050490150	SAIL-M12BG-T-1.5H	2050680150
PUR halogen-free	3.0 m	SAIL-M12BG-T-3.0P	2050490300	SAIL-M12BG-T-3.0H	2050680300
PUR halogen-free	5.0 m	SAIL-M12BG-T-5.0P	2050490500	SAIL-M12BG-T-5.0H	2050680500
PUR halogen-free	10.0 m	SAIL-M12BG-T-10P	2050491000	SAIL-M12BG-T-10H	2050681000
Female, angled					
PUR halogen-free	1.5 m	SAIL-M12BW-T-1.5P	2050560150	SAIL-M12BW-T-1.5H	2050690150
PUR halogen-free	3.0 m	SAIL-M12BW-T-3.0P	2050560300	SAIL-M12BW-T-3.0H	2050690300
PUR halogen-free	5.0 m	SAIL-M12BW-T-5.0P	2050560500	SAIL-M12BW-T-5.0H	2050690500
PUR halogen-free	10.0 m	SAIL-M12BW-T-10P	2050561000	SAIL-M12BW-T-10H	2050691000
Note					

Technical data

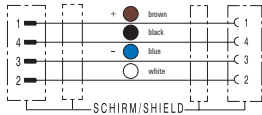
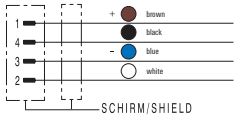
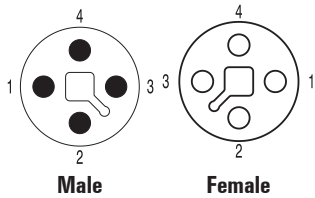
Core cross-section	1.5 mm²
Rated voltage	63 V DC
Rated current	12 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP67, when screwed in
AF size	13
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; cULus; UKCA

Dimensioned drawing



Sensor cables

One end without connector
Connecting cables
M12
T-coded
shielded



Ordering data

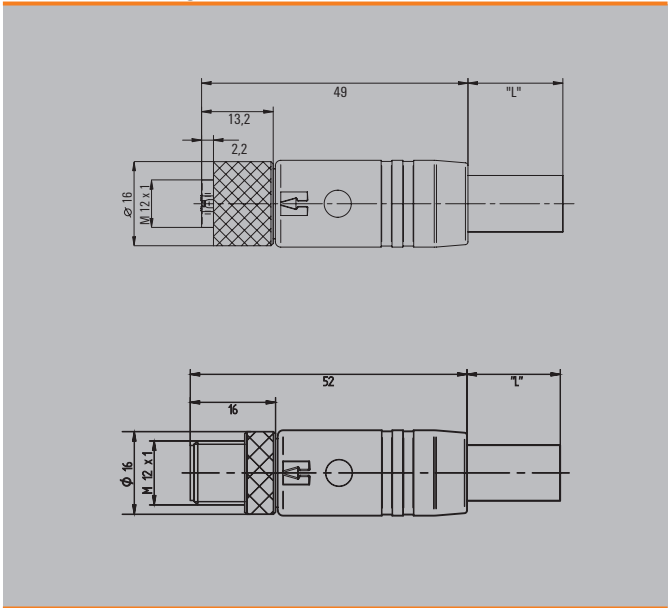
Male, straight	
PUR halogen-free	5.0 m
Female, straight	
PUR halogen-free	5.0 m
Male straight - Female straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	6.0 m
PUR halogen-free	10.0 m
Note	

4-pole	
SAIL-M12BG-TS-5.0U	2671670500
SAIL-M12G-TS-5.0U	2617670500
SAIL-M12GM12G-TS-1.5U	2490240150
SAIL-M12GM12G-TS-3.0U	2490240300
SAIL-M12GM12G-TS-6.0U	2490240600
SAIL-M12GM12G-TS-10U	2490241000

Technical data

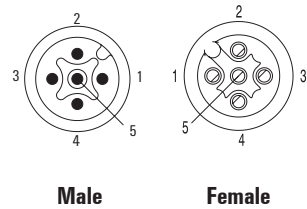
Core cross-section	1.5 mm²
Rated voltage	63 V DC
Rated current	16 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP67
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	CE; UKCA

Dimensioned drawing



Customisable plug-in connectors

M12 screw connection
A-coded



Ordering data

Male	
4-pole. PG 11	
5-pole. PG 11	
Female	
4-pole. PG 11	
5-pole. PG 11	
Note	

Technical data

Type of connection	Screw connection
Housing main material	PA
Connection thread	M12
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	Contacts 1-4 8A, contact 5 2A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Note	

SAIS / SAIB



Type	Qty.	Order No.
SAISGS-P-4A-8/10-M12	1	1353700000
SAISGS-P-5A-8/10-M12	1	1353740000
SAIBGS-P-4A-8/10-M12	1	1353730000
SAIBGS-P-5A-8/10-M12	1	1353750000

Screw connection
PA
M12
8...10 mm (PG11)
0.14...1.5 mm ²
Contacts 1-4 8A, contact 5 2A
250 V
-40 ... +85 °C
IP67
Gold-plated
CuZn
≥ 100
3
Rated current values only in conjunction with the matching mating connector.

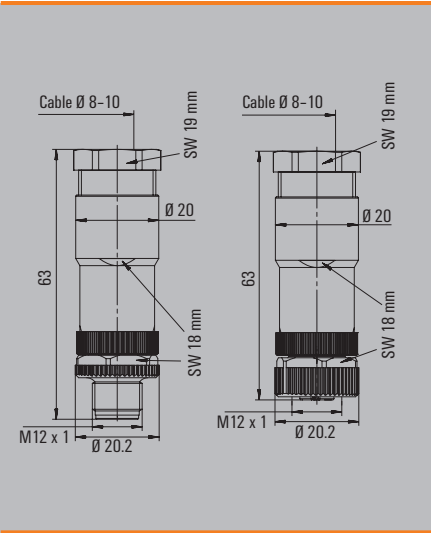
SAISW / SAIBW



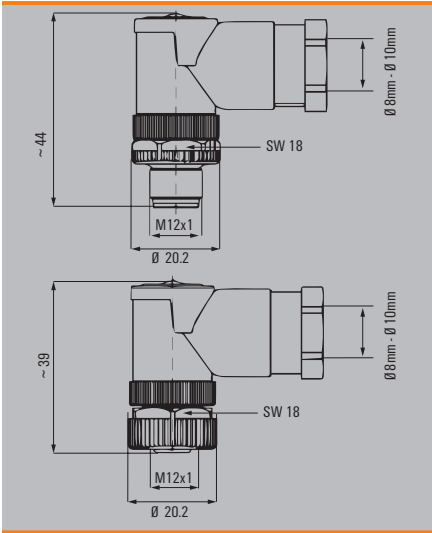
Type	Qty.	Order No.
SAISWS-P-4A-8/10-M12	1	1467660000
SAISWS-P-5A-8/10-M12	1	1467680000
SAIBWS-P-4A-8/10-M12	1	1467670000
SAIBWS-P-5A-8/10-M12	1	1467690000

Screw connection
PA
M12
8...10 mm (PG11)
0.14...1.5 mm ²
Contacts 1-4 8A, contact 5 2A
250 V
-40 ... +85 °C
IP67
Gold-plated
CuZn
≥ 100
3
Rated current values only in conjunction with the matching mating connector.

Dimensioned drawing



Dimensioned drawing



M12 screw connection
S-coded



Male



Female

Ordering data

Male	3-pole + PE
Female	3-pole + PE
Note	

Technical data

Type of connection	PA
Housing main material	M12
Connection thread	8...10 mm (PG11)
Cable diameter	0.14...2.5 mm ²
Wire cross-section, min. / max.	12 A
Rated current	630 V
Rated voltage	-40 ... +85 °C
Temperature range of housing	IP67
Protection degree	Gold-plated
Contact surface	CuZn
Contact material	≥ 100
Plugging cycles	3
Pollution severity	
Note	

SAIS / SAIB



Type	Qty.	Order No.
SAISGS-P4S-8/10-M12	1	1391990000
SAIBGS-P4S-8/10-M12	1	1392000000

Screw connection	PA
M12	8...10 mm (PG11)
0.14...2.5 mm ²	12 A
630 V	-40 ... +85 °C
-40 ... +85 °C	IP67
IP67	Gold-plated
Gold-plated	CuZn
CuZn	≥ 100
≥ 100	3
3	

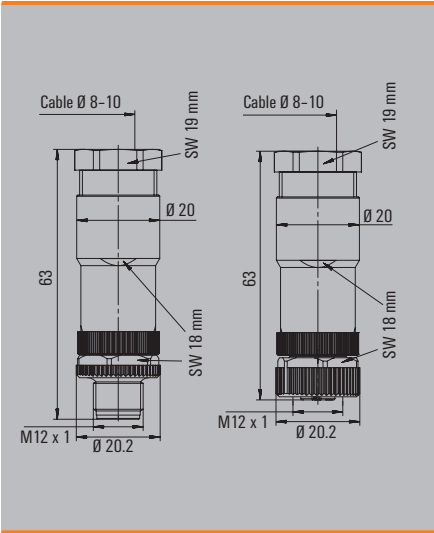
SAISW / SAIBW



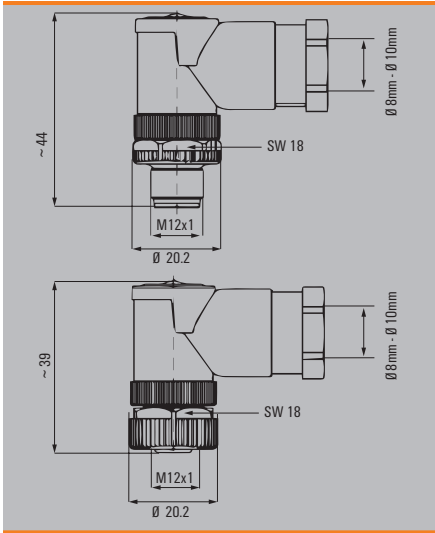
Type	Qty.	Order No.
SAISWS-P4S-8/10-M12	1	1467860000
SAIBWS-P4S-8/10-M12	1	1467870000

Screw connection	PA
M12	8...10 mm (PG11)
0.14...2.5 mm ²	12 A
630 V	-40 ... +85 °C
-40 ... +85 °C	IP67
IP67	Gold-plated
Gold-plated	CuZn
CuZn	≥ 100
≥ 100	3
3	

Dimensioned drawing

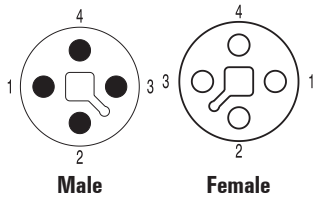


Dimensioned drawing



Customisable plug-in connectors

M12 screw connection
T-coded



SAIS / SAIB



SAISW / SAIBW



Ordering data

Male	4-pole. PG 11
Female	4-pole. PG 11
Note	

Type	Qty.	Order No.
SAISGS-P4T-8/10-M12	1	1391970000
SAIBGS-P4T-8/10-M12	1	1391980000

Type	Qty.	Order No.
SAISWS-P4T-8/10-M12	1	1467880000
SAIBWS-P4T-8/10-M12	1	1467890000

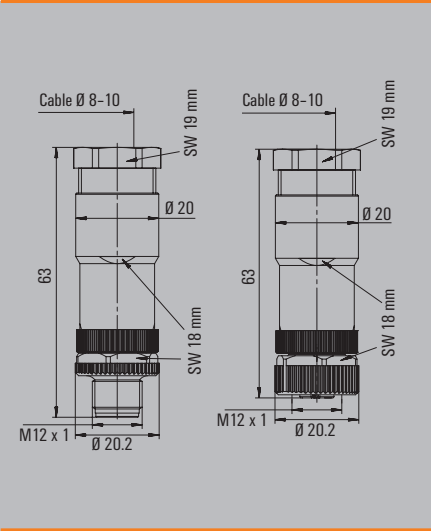
Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Note

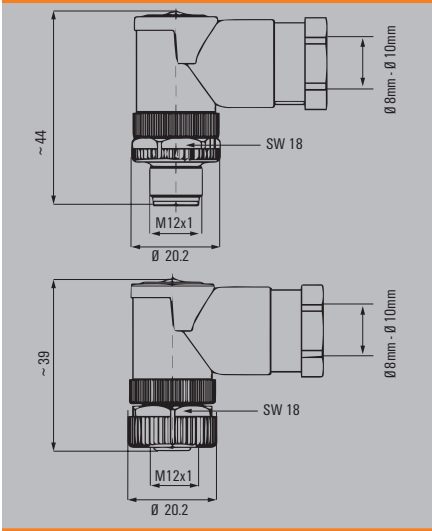
Screw connection
PA
M12
8...10 mm (PG11)
0.14...2.5 mm ²
12 A
60 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated
CuZn
≥ 100
3

Screw connection
PA
M12
8...10 mm (PG11)
0.14...1.5 mm ²
12 A
60 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated
CuZn
≥ 100
3

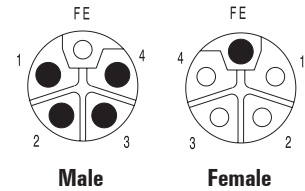
Dimensioned drawing



Dimensioned drawing



M12 screw connection
L-coded



Ordering data

Male	4-pole
Female	4-pole
Note	

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Note

SAIS / SAIB



Type	Qty.	Order No.
SAISGS-P-5L-8/13-M12	1	2703510000
SAIBGS-P-5L-8/13-M12	1	2703520000

Screw connection
PA
M12
8...13 mm
2.5 mm²
16 A
63 V
-40 ... +85 °C
IP67
Au (Gold)
CuZn
≥ 100
3

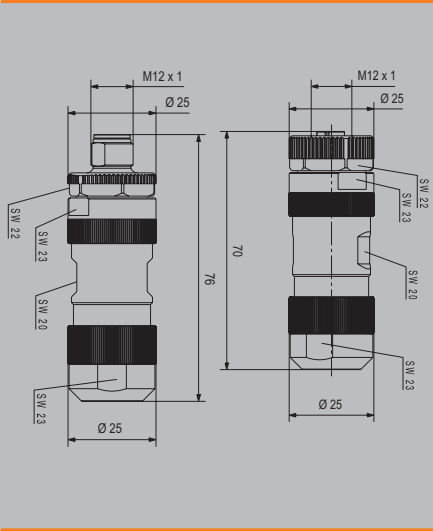
SAISW / SAIBW



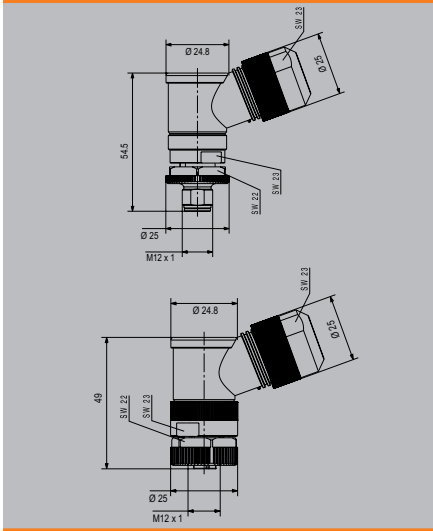
Type	Qty.	Order No.
SAISWS-P-5L-8/13-M12	1	2768330000
SAIBWS-P-5L-8/13-M12	1	2768340000

Screw connection
PA
M12
8...13 mm
2.5 mm²
16 A
63 V
-40 ... +85 °C
IP67
Au (Gold)
CuZn
≥ 100
3

Dimensioned drawing

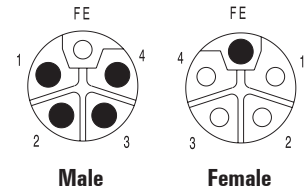


Dimensioned drawing



Customisable plug-in connectors

M12 screw connection
K-coded



SAIS / SAIB



SAISW / SAIBW



Ordering data

Male	4-pole
Female	4-pole
Note	

Type	Qty.	Order No.
SAISGS-P-5K-8/13-M12	1	2703490000
SAIBGS-P-5K-8/13-M12	1	2703500000

Type	Qty.	Order No.
SAISWS-P-5K-8/13-M12	1	2812430000
SAIBWS-P-5K-8/13-M12	1	2812420000

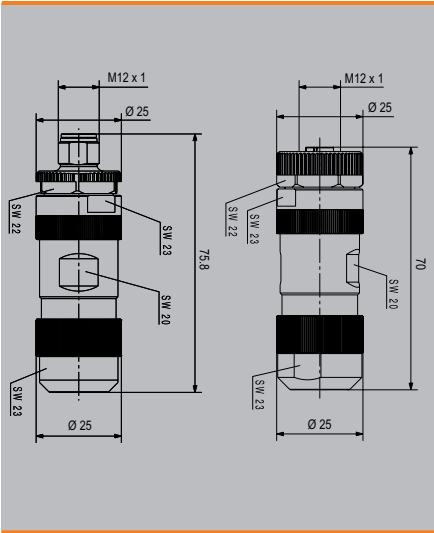
Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Note

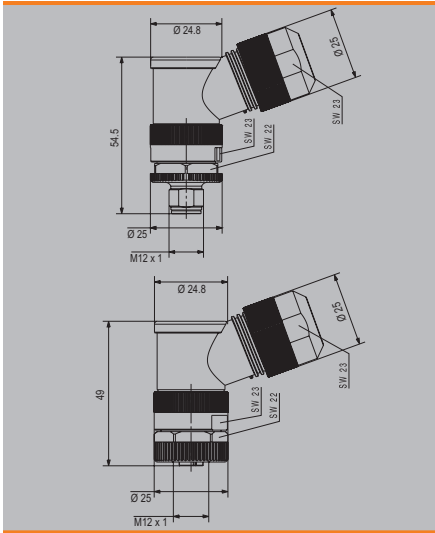
Screw connection
PA
M12
8...13 mm
2.5 mm ²
12 A
630 V
-40 ... +85 °C
IP67
Au (Gold)
CuZn
≥ 100
3

Screw connection
PA
M12
8...13 mm
2.5 mm ²
12 A
630 V
-40 ... +85 °C
IP67
Au (Gold)
CuZn
≥ 100
3

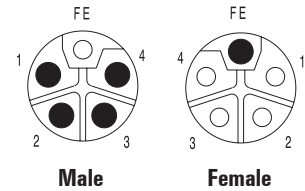
Dimensioned drawing



Dimensioned drawing



Insulation displacement connection M12
with shield connection
L-Coded



Ordering data

	5-pole
Note	

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Note

SAIS

Male



SAIB

Female



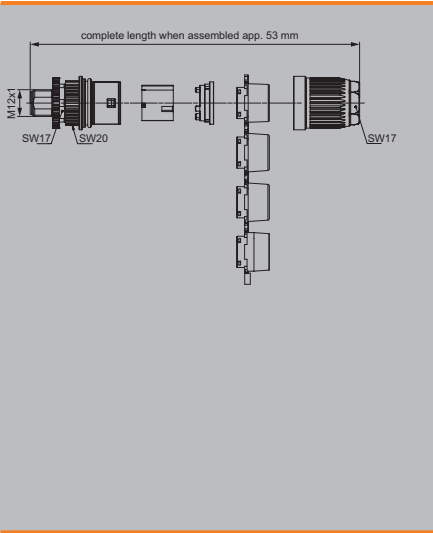
Type	Qty.	Order No.
SAISGI-M-5L-5.8/13.5-M12	1	2530750000

Insulation displacement connection (IDC)
Zinc diecast
M12 plug
5.8...13.5 mm
0.75...1.5 mm ²
12 A
63 V
-40 ... +85 °C
IP67, when screwed in
Au (Gold)
Cu
500
3

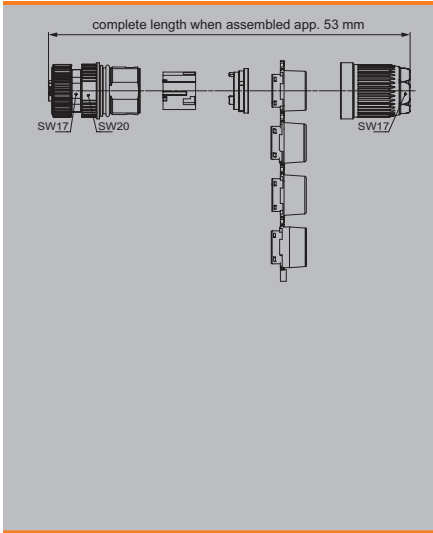
Type	Qty.	Order No.
SAIBGI-M-5L-5.8/13.5-M12	1	2530760000

Insulation displacement connection (IDC)
Zinc diecast
M12 socket
5.8...13.5 mm
0.75...1.5 mm ²
12 A
63 V
-40 ... +85 °C
IP67, when screwed in
Au (Gold)
Cu
500
3

Dimensioned drawing

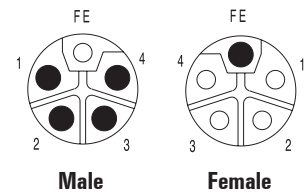


Dimensioned drawing



Customisable plug-in connectors

Crimp connection M12
with shield connection
L-Coded



SAIS
Male



SAIB
Female



Ordering data

	5-pole
Note	

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Note

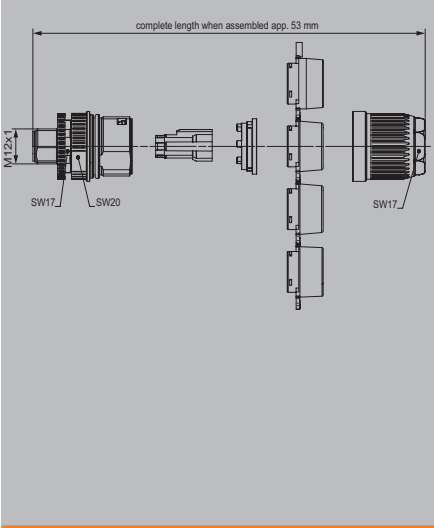
Type	Qty.	Order No.
SAISGC-M-5L-5.8/13.5-M12-CF	1	2531020000
Contacts need to be order separately		

Crimp connection
Zinc diecast
M12 plug
5.8...13.5 mm
0.5...2.5 mm ²
16 A
63 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated
Cu
500
3

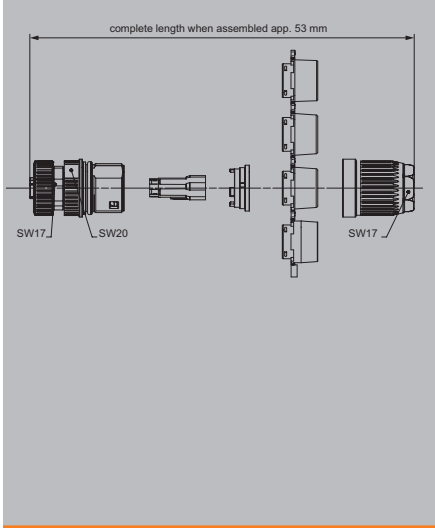
Type	Qty.	Order No.
SAIBGC-M-5L-5.8/13.5-M12-CF	1	2525620000
Contacts need to be order separately		

Crimp connection
Zinc diecast
M12 socket
5.8...13.5 mm
0.5...2.5 mm ²
16 A
63 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated
Cu
500
3

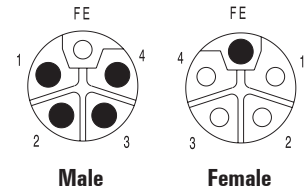
Dimensioned drawing



Dimensioned drawing



Crimp contacts M12
for L-Coded connectors



Ordering data

Male	
	0.5 mm ²
	0.75 mm ²
	1.5 mm ²
	2.5 mm ²
Female	
	0.5 mm ²
	0.75 mm ²
	1.5 mm ²
	2.5 mm ²
Note	

Technical data

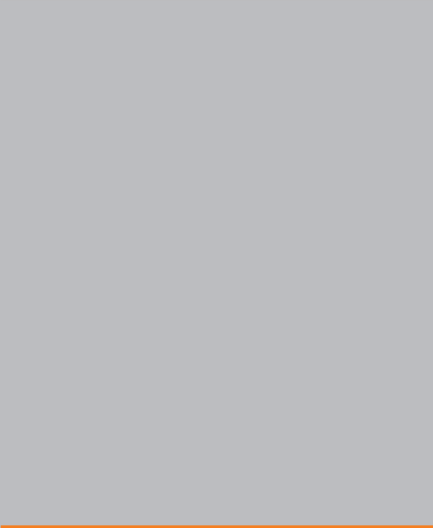
Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Note

SAI-KSC/KBC

Type	Qty.	Order No.
SAI-M12L-KSC-0.5	50	2530920000
SAI-M12L-KSC-0.75	50	2530930000
SAI-M12L-KSC-1.5	50	2530940000
SAI-M12L-KSC-2.5	50	2530950000
SAI-M12L-KBC-0.5	50	2530990000
SAI-M12L-KBC-0.75	50	2531000000
SAI-M12L-KBC-1.5	50	2531010000
SAI-M12L-KBC-2.5	50	2525650000
Crimping tool 9018490000		

Crimp connection
63 V
Gold-plated
Cu
500
3

Dimensioned drawing



SAI-KSC-FE

Type	Qty.	Order No.
SAI-M12L-KSC-0.5FE	50	2530960000
SAI-M12L-KSC-0.75FE	50	2530970000
SAI-M12L-KSC-1.5FE	50	2530980000
SAI-M12L-KSC-2.5FE	50	2525660000
Crimping tool 9018490000		

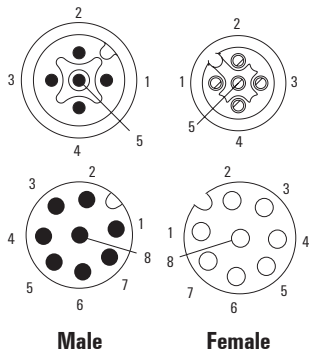
Crimp connection
63 V
Gold-plated
Cu
500
3

Dimensioned drawing



Customisable panel feed-through

M12 screw connection
A-coded



Ordering data			4-pole	5-pole		8-pole	
Male							
	4-pole	SAIS-WDF-4-M20	1383020000				
	5-pole			SAIS-WDF-5-M20	1383030000		
	8-pole					SAIS-WDF-8-M20	1383040000
Female							
	4-pole	SAIB-WDF-4-M20	1383050000				
	5-pole			SAIB-WDF-5-M20	1383070000		
	8-pole					SAIB-WDF-8-M20	1383080000
Note		Rated current values only in conjunction with the matching mating connector.		Rated current values only in conjunction with the matching mating connector.		Rated current values only in conjunction with the matching mating connector.	

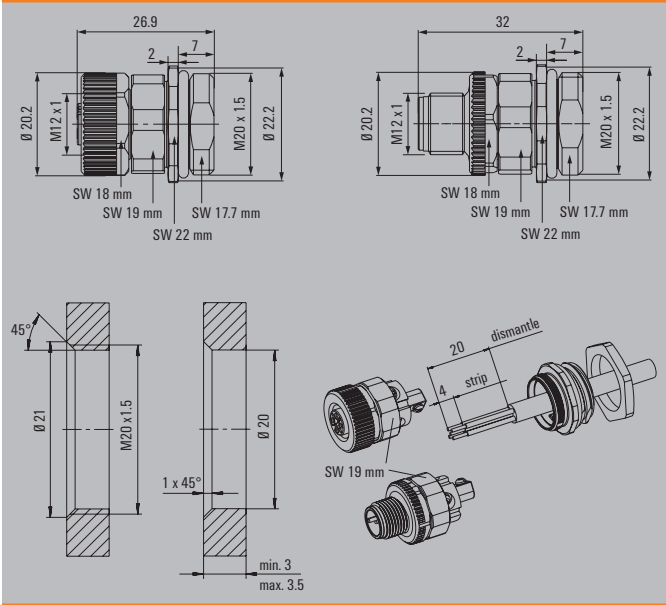
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Type of connection	Screw connection
Housing main material	Zinc diecast
Connection thread	M12
Wire cross-section, min. / max.	0.14...1.5 mm²
Rated current	Contacts 14 8A, contact 5 2A, 2 A (8-pole)
Rated voltage	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Cable glands	M 20

Dimensioned drawing



T-coded



Male	4-pole
Female	4-pole
Note	

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Cable glands

S-coded



Type	Qty.	Order No.
SAIS-WDF-3+PE-M20-S-COD	1	1460290000
SAIB-WDF-3+PE-M20-S-COD	1	1460300000

Screw connection
Plastic
M12
0.14...1.5 mm ²
12 A
630 V
-40 ... +85 ° C
IP67
Gold-plated
CuZn
≥ 100
3
M 20

T-coded

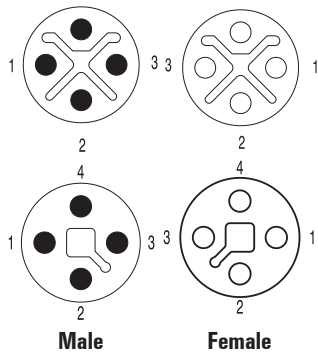


Type	Qty.	Order No.
SAIS-WDF4-M20-T-COD	1	1392710000
SAIB-WDF4-M20-T-COD	1	1392720000

Screw connection
Zinc diecast
M12
0.14...1.5 mm ²
12 A
60 V
-40 ... +85 ° C
IP67
Gold-plated
CuZn
≥ 100
3
M 20

Panel feed-through

M12 Panel feed-through
S-coded
T-coded



SAI-WDF
S-coded



SAI-WDF
T-coded



Ordering data

Type	Qty.	Order No.
SAI-WDF-M12-4P-S-COD-M16	1	2830770000
Note		

Technical data

Type of connection	Plug / socket, when screwed in
Housing main material	CuZn, nickel-plated
Connection thread	M12 plug, M12 socket
Cable diameter	
Wire cross-section, min. / max.	
Rated current	12 A
Rated voltage	600 V
Temperature range of housing	-25...+85 °C
Protection degree	IP65, IP67, IP68
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Cable glands	M 12
Note	

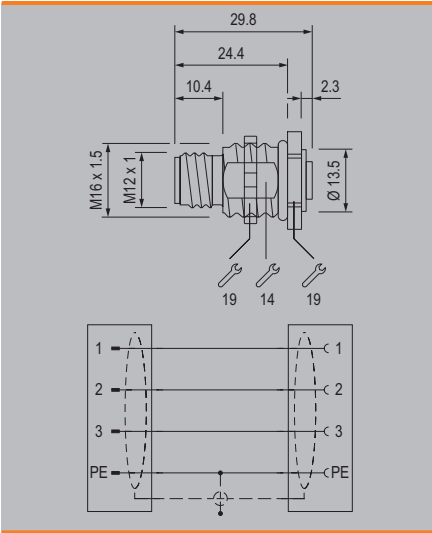
Type	Qty.	Order No.
SAI-WDF-M12-4P-S-COD-M16	1	2830770000
Note		

Type of connection	Plug / socket, when screwed in
Housing main material	CuZn, nickel-plated
Connection thread	M12 plug, M12 socket
Cable diameter	
Wire cross-section, min. / max.	
Rated current	12 A
Rated voltage	600 V
Temperature range of housing	-25...+85 °C
Protection degree	IP65, IP67, IP68
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Cable glands	M 12
Note	

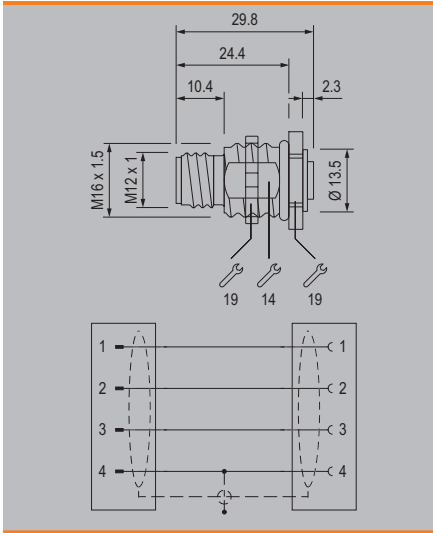
Type	Qty.	Order No.
SAI-WDF-M12-4P-T-COD-M16	1	2830780000
Note		

Type of connection	Plug / socket, when screwed in
Housing main material	CuZn, nickel-plated
Connection thread	M12 socket, M12 plug
Cable diameter	
Wire cross-section, min. / max.	
Rated current	12 A
Rated voltage	63 V
Temperature range of housing	-25...+85 °C
Protection degree	IP65, IP67, IP68
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Cable glands	M 12
Note	

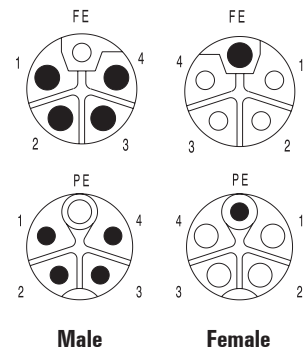
Dimensioned drawing



Dimensioned drawing



M12 Panel feed-through
K-coded
L-coded



Ordering data

	4-pole
Note	

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Cable glands
Note

SAI-WDF
L-coded



Type	Qty.	Order No.
SAI-WDF-M12-5P-L-COD-M16	1	2830800000

Plug / socket, when screwed in
CuZn, nickel-plated
M12 socket, M12 plug
16 A
63 V
-25...+85 °C
IP65, IP67, IP68
Gold-plated
CuZn
≥ 100
3
M 12

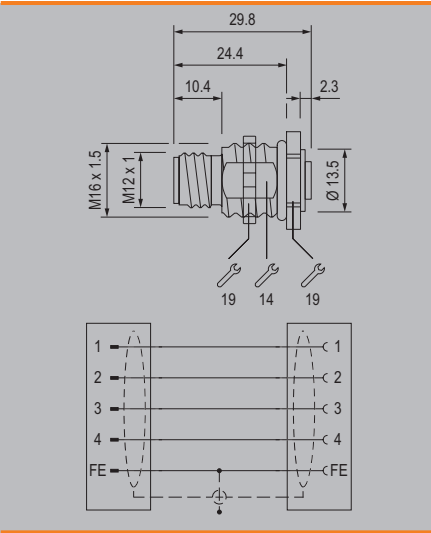
SAI-WDF
K-coded



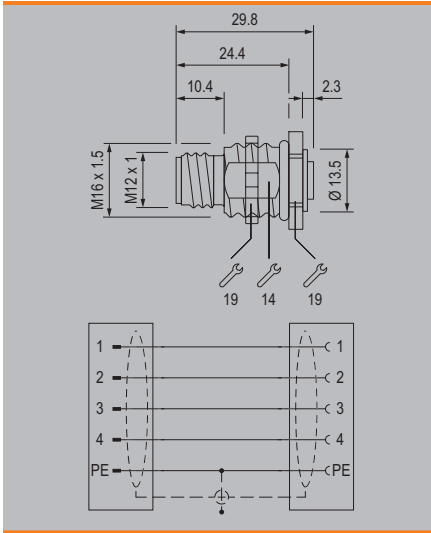
Type	Qty.	Order No.
SAI-WDF-M12-5P-K-COD-M16	1	2830790000

Plug / socket, when screwed in
CuZn, nickel-plated
M12 socket, M12 plug
12 A
600 V
-25...+85 °C
IP65, IP67, IP68
Gold-plated
CuZn
≥ 100
3
M 12

Dimensioned drawing



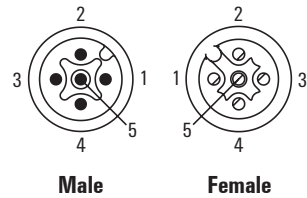
Dimensioned drawing



Built-in plug

A-coded

Front panel mounting



M12 Screw-in thread

Mounting thread PG9



D

Ordering data

Male	
	4-pole
	5-pole
Female	
	4-pole
	5-pole
Note	

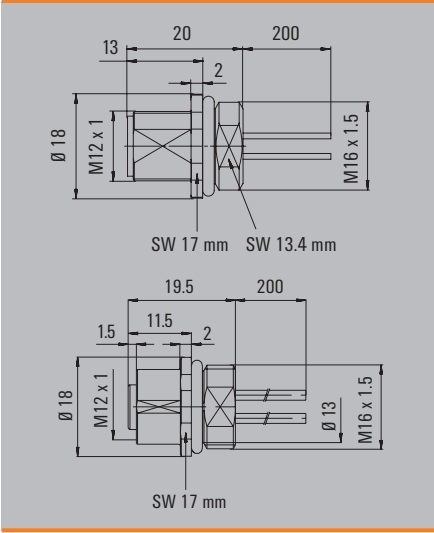
Type	Qty.	Order No.
SAIE-M12S-4-0.2U P9 .75	1	1353770000
SAIE-M12S-5-0.2U P9 .75	1	1353790000
SAIE-M12B-4-0.2U P9 .75	1	1353780000
SAIE-M12B-5-0.2U P9 .75	1	1353800000
Rated current values only in conjunction with the matching mating connector.		

Technical data

Mounting thread
Housing main material
Connection thread
Wire cross section
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

PG 9
Zinc diecast
M12
AWG 18
Contacts 1-4 8A, contact 5 2A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67, when screwed in
Gold-plated

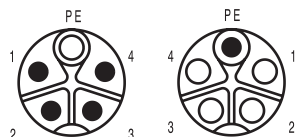
Dimensioned drawing



K-Coded

Front panel mounting

Back panel mounting



Male

Female

Ordering data

Male	
	1.5 mm ² , 0.2 m
	2.5 mm ² , 0.2 m
Female	
	1.5 mm ² , 0.2 m
	2.5 mm ² , 0.2 m
Note	

Technical data

Mounting thread	
Housing main material	
Connection thread	
Core cross-section	
Rated current	
Rated voltage	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

M12 Front panel mounting

Mounting thread M16



Type	Qty.	Order No.
SAIE-M12SK-5-0.2VFM16-1.5	1	2968000000
SAIE-M12SK-5-0.2VFM16-2.5	1	2968010000
SAIE-M12BK-5-0.2VFM16-1.5	1	2968040000
SAIE-M12BK-5-0.2VFM16-2.5	1	2968050000

M 16 x 1.5
Zinc diecast
M12
1.5 mm ²
12 A
630 V
-40 ... +85 °C
IP65, IP67, IP68, when screwed in
Gold-plated

M12 Back panel mounting

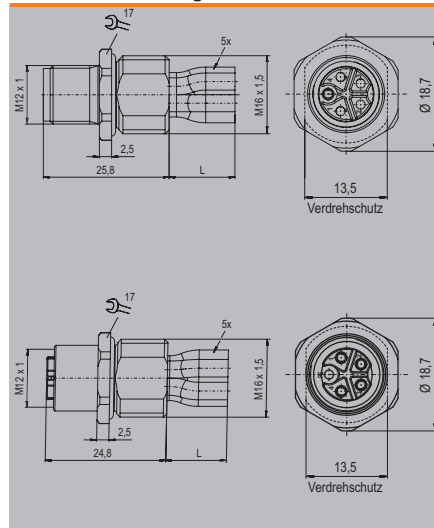
Mounting thread M16



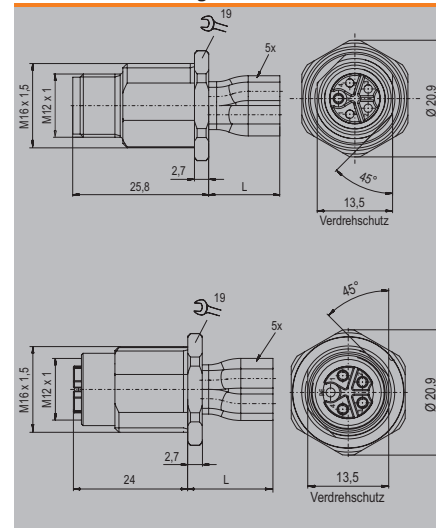
Type	Qty.	Order No.
SAIE-M12SK-5-0.2VHM16-1.5	1	2968020000
SAIE-M12SK-5-0.2VHM16-2.5	1	2968030000
SAIE-M12BK-5-0.2VHM16-1.5	1	2968060000
SAIE-M12BK-5-0.2VHM16-2.5	1	2968070000

M 16 x 1.5
Zinc diecast
M12
1.5 mm ²
12 A
630 V
-40 ... +85 °C
IP65, IP67, IP68, when screwed in
Gold-plated

Dimensioned drawing



Dimensioned drawing

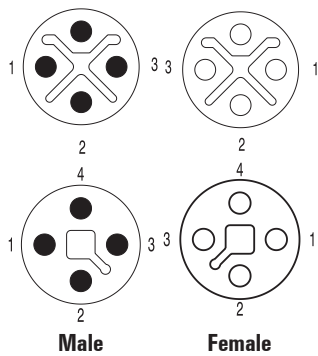


Built-in plug

S-coded

T-coded

Front panel mounting



M12 Screw-in thread

Mounting thread M16



M12 Screw-in thread

Mounting thread M16



Ordering data

Male	
	4-pole, 0.2 m
	4-pole, 0.5 m
Female	
	4-pole, 0.2 m
	4-pole, 0.5 m
Note	

Type	Qty.	Order No.
SAIE-M12S-3+PE-S-0.2U-M16	1	1467930000
SAIE-M12S-3+PE-S-0.5U-M16	1	1460320000
SAIE-M12B-3+PE-S-0.2U-M16	1	1467940000
SAIE-M12B-3+PE-S-0.5U-M16	1	1460310000

Type	Qty.	Order No.
SAIE-M12S-4-T-0.2U-M16	1	1467950000
SAIE-M12S-4-T-0.5U-M16	1	1460340000
SAIE-M12B-4-T-0.2U-M16	1	1467960000
SAIE-M12B-4-T-0.5U-M16	1	1460330000

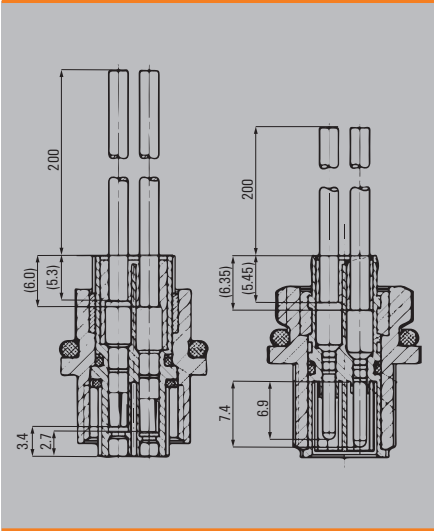
Technical data

Mounting thread
Housing main material
Connection thread
Wire cross section
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

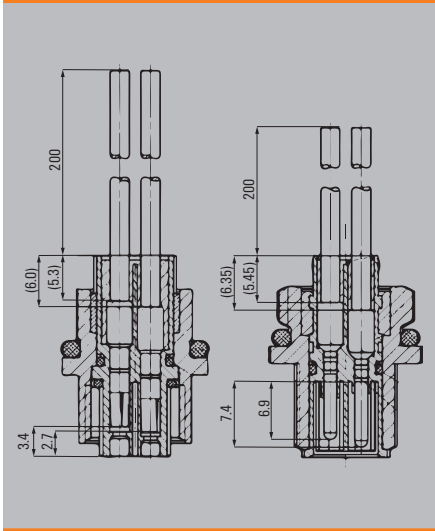
M 16 x 1.5
Brass, nickel-plated
M12
AWG 16
12 A
630 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated

M 16 x 1.5
Zinc diecast
M12
AWG 16
12 A
63 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing



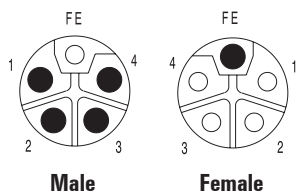
Dimensioned drawing



L-Coded

Front panel mounting

Back panel mounting



Ordering data

Male	
	1.5 mm ² , 0.3 m
	2.5 mm ² , 0.3 m
Female	
	1.5 mm ² , 0.3 m
	2.5 mm ² , 0.3 m
Note	

Technical data

Mounting thread	
Housing main material	
Connection thread	
Core cross-section	
Rated current	
Rated voltage	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

M12 Front panel mounting

Mounting thread M16



Type	Qty.	Order No.
SAIE-M12SL-0.3VFM16-1.5	1	2530770000
SAIE-M12SL-0.3VFM16-2.5	1	2530790000
SAIE-M12BL-0.3VFM16-1.5	1	2530780000
SAIE-M12BL-0.3VFM16-2.5	1	2530800000

M 16 x 1.5
Zinc diecast
M12
1.5 mm ²
16 A
63 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated

M12 Back panel mounting

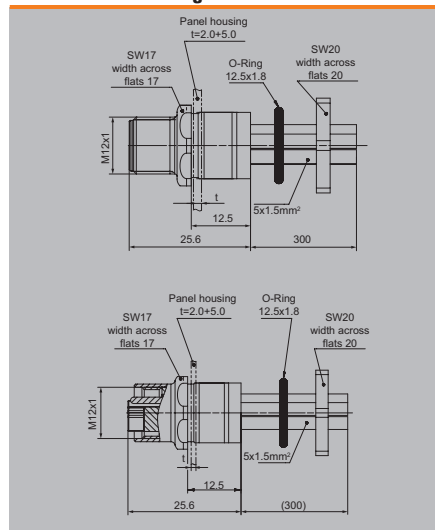
Mounting thread M16



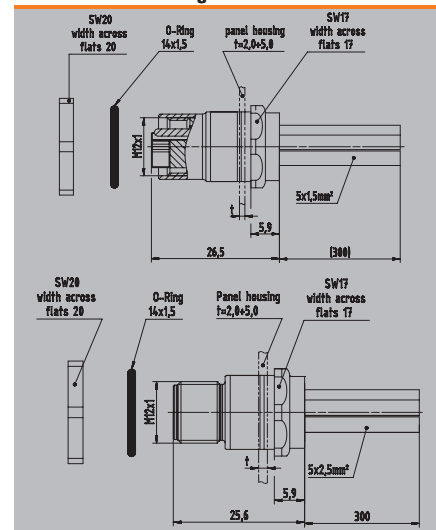
Type	Qty.	Order No.
SAIE-M12SL-0.3VHM16-1.5	1	2625950000
SAIE-M12SL-0.3VHM16-2.5	1	2625960000
SAIE-M12BL-0.3VHM16-1.5	1	2625940000
SAIE-M12BL-0.3VHM16-2.5	1	2625970000

M 16 x 1.5
Zinc diecast
M12
1.5 mm ²
16 A
63 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing



Dimensioned drawing

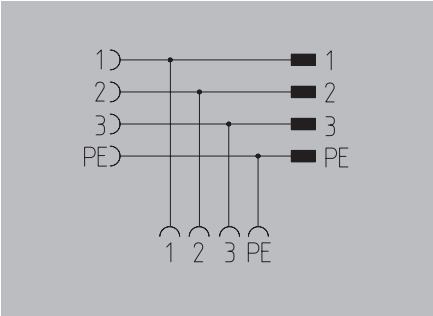


T, h and H distributors

T, h and H distributors
S- and T-coded

M12

T-Distributor, S-coded

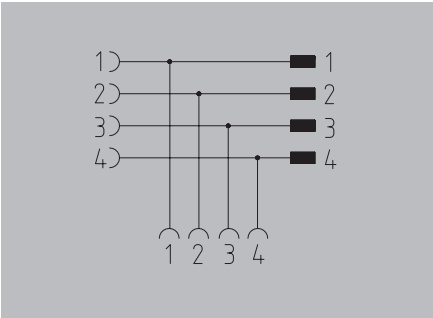


Ordering data

Type	Qty.	Order No.
SAI-T-M12-S	1	2616430000

M12

T-Distributor, T-coded

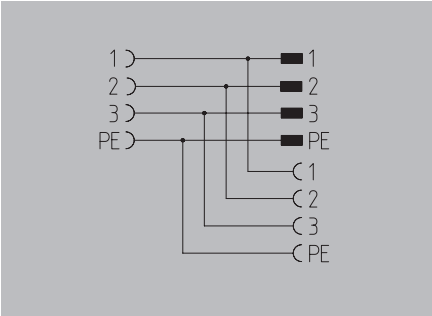


Ordering data

Type	Qty.	Order No.
SAI-T-M12-T	1	2616440000

M12

h-Distributor, S-coded

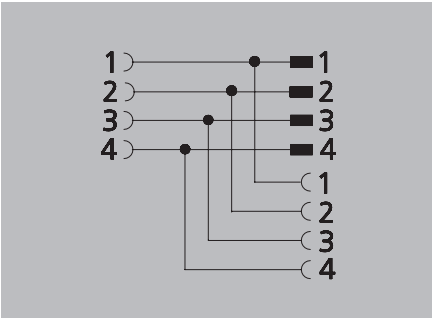


Ordering data

Type	Qty.	Order No.
SAI-H3-M12-S	1	2616410000

M12

h-Distributor, T-coded

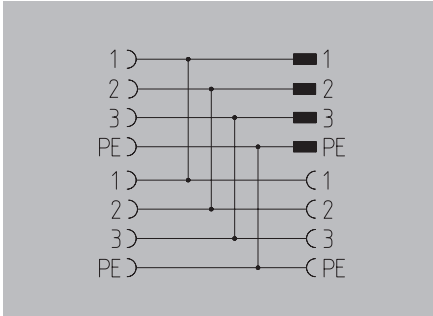


Ordering data

Type	Qty.	Order No.
SAI-H3-M12-T	1	2616420000

M12

H-Distributor, S-coded

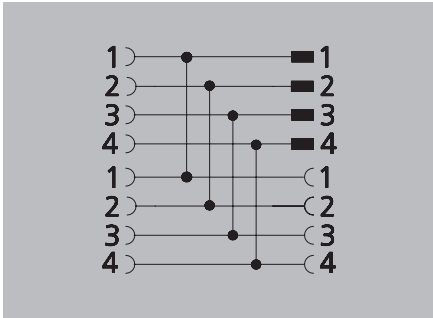


Ordering data

Type	Qty.	Order No.
SAI-H4-M12-S	1	2616350000

M12

H-Distributor, T-coded



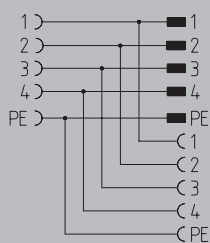
Ordering data

Type	Qty.	Order No.
SAI-H4-M12-T	1	2439350000

T, h and H distributors
K- and L-coded

M12

T-Distributor, K-coded

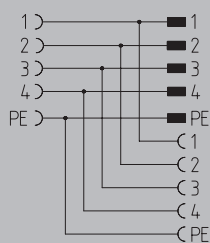


Ordering data

Type	Qty.	Order No.
SAI-T-M12-K	1	2616500000

M12

h-Distributor, K-coded

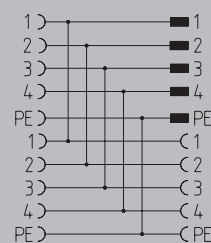


Ordering data

Type	Qty.	Order No.
SAI-H3-M12-K	1	2616480000

M12

H-Distributor, K-coded

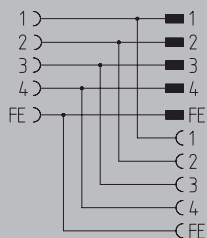


Ordering data

Type	Qty.	Order No.
SAI-H4-M12-K	1	2616460000

M12

T-Distributor, L-coded

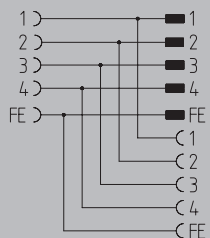


Ordering data

Type	Qty.	Order No.
SAI-T-M12-L	1	2616490000

M12

h-Distributor, L-coded

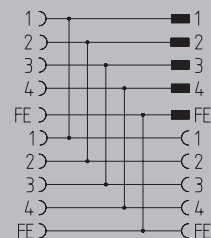


Ordering data

Type	Qty.	Order No.
SAI-H3-M12-L	1	2616470000

M12

H-Distributor, L-coded



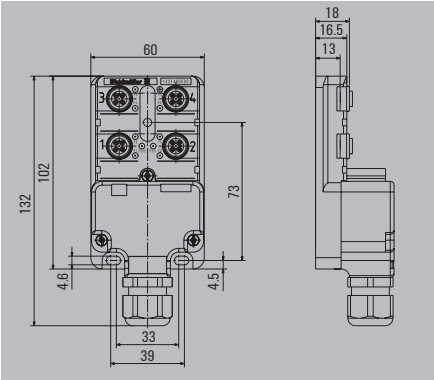
Ordering data

Type	Qty.	Order No.
SAI-H4-M12-L	1	2616450000

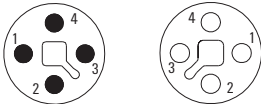
M12 distribution boxes

Hood version
T-coded

SAI-M-4-SVV-M12



T-coding



Pin Socket connector

Ordering data

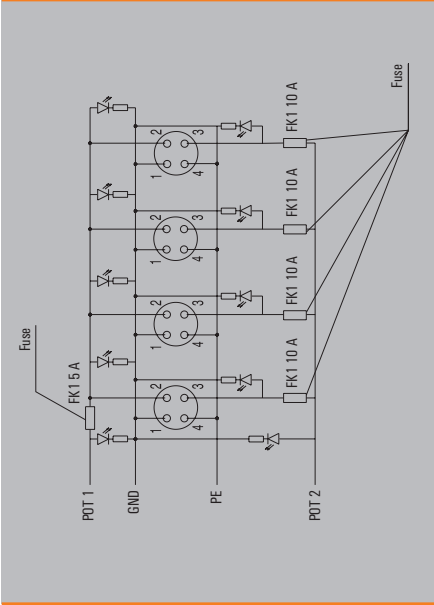
	4 plug-in stations
Note	

Type	Qty.	Order No.
SAI-M-4-M-4P-M12-SW	1	1431490000

Technical data

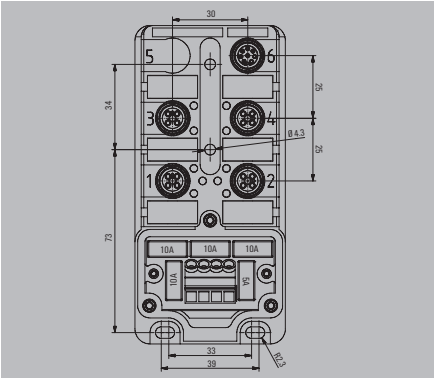
Operating voltage	10...30 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	10 A
Total current	32 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.5...4 mm ²
Suitable for dragline cable (fixed cable connection)	No
Approvals	cURus

Wiring diagram



Hood version with checkback signal

SAI-4-SVV-GM-RM



Ordering data

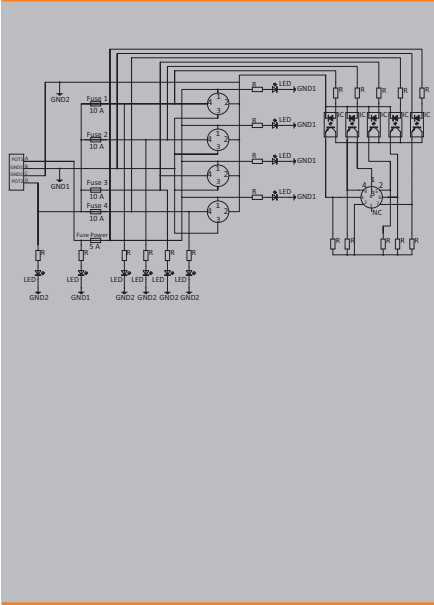
	4 plug-in stations
Note	

Type	Qty.	Order No.
SAI-4-M-4P-M12-SVV-A03	1	2495280000

Technical data

Operating voltage	10...48 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	10 A
Total current	32 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.5...4 mm ²
Suitable for dragline cable (fixed cable connection)	No
Approvals	cURus

Wiring diagram



M12 power distribution boxes

Hood version
S-coded

SAI-4-M-MVV-M12 S-COD



S-coding



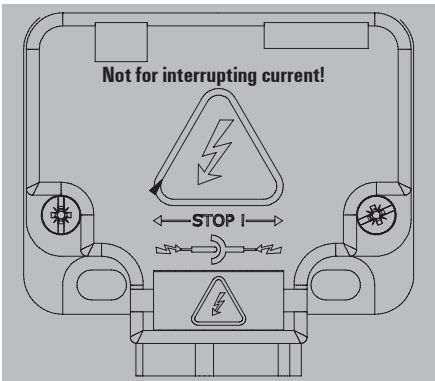
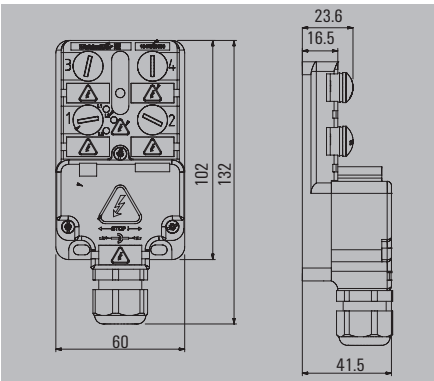
Pin



Female

Ordering data

Complete modules
4 plug-in stations
Note

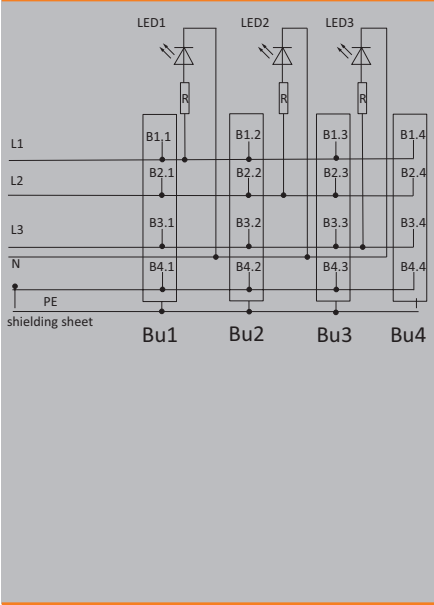


SAI-4-M-MVV-M12 S-COD		4-pole
Type	Qty.	Order No.
SAI-4-M-MVV-M12 S-COD	1	1542580000

Technical data

Operating voltage	...400 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	27.6 A
Total current	27.6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.2...6 mm ²
Suitable for dragline cable (fixed cable connection)	No
Approvals	CE

Wiring diagram

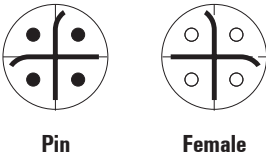


Hood version
S-coded

SAI-4-M-MVV-M12 1:1



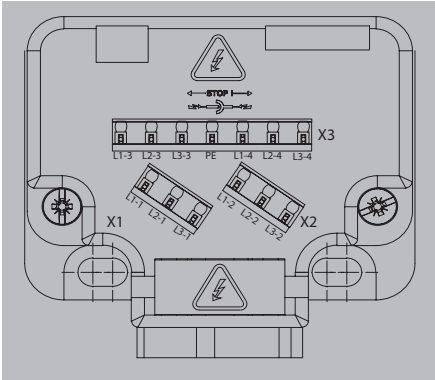
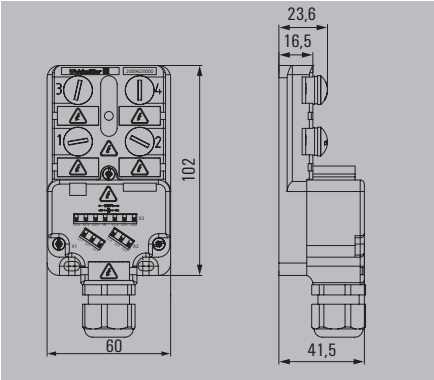
S-coding



Ordering data

Complete modules
4 plug-in stations
Note

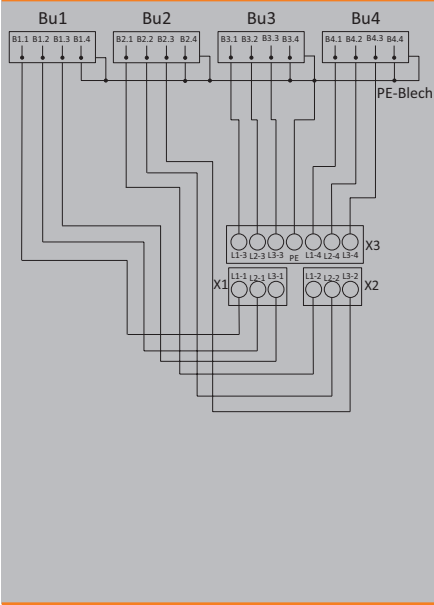
SAI-4-M-MVV-M12 1:1		4-pole
Type	Qty.	Order No.
SAI-4-M-MVV-M12 1:1	1	2009620000



Technical data

Operating voltage	...400 V
Current of continuous busbars	12 A
Max. current-carrying capacity per slot	36 A
Total current	144 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.2...1.5 mm²
Suitable for dragline cable (fixed cable connection)	
Approvals	CE

Wiring diagram



M12 power distribution boxes

Hood version
S-coded

SAI-6-M-MVV-M12 S-COD



S-coding



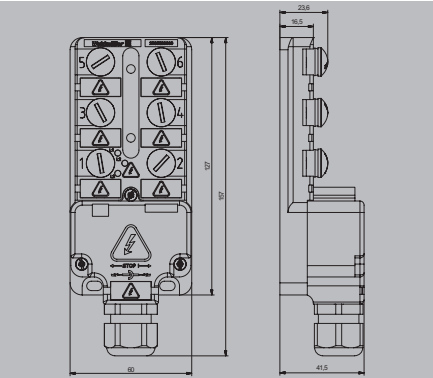
Pin



Female

Ordering data

Complete modules	
	6 plug-in stations
Note	

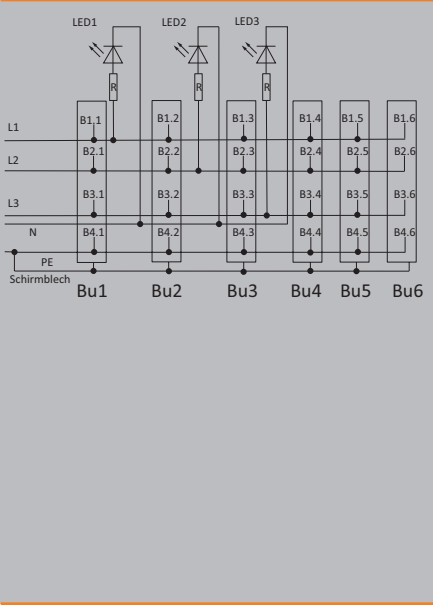


SAI-6-M-MVV-M12 S-COD		4-pole
Type	Qty.	Order No.
SAI-6-M-MVV-M12 S-COD	1	2085620000

Technical data

Operating voltage	...400 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	27.6 A
Total current	27.6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.2...6 mm ²
Suitable for dragline cable (fixed cable connection)	No
Approvals	CE

Wiring diagram



Protective caps for SAI distribution boxes

Protects against external effects when the I/O is not in use.
The level of protection is only valid in screwed condition and was tested on the distributon box indicated.

Protective cap M12

For SAI M12 distributon boxes



Ordering data

Type	Qty.	Order No.
SAI-SK-M12-RED	50	2870920000

Passive distribution boxes

Passive distribution boxes	Introduction	E.2
	M12 distribution boxes	E.4
	ECO modules	E.14
	M12 Push-Pull	E.16
	M12 IDC	E.18
	M12 metal distribution boxes	E.22
	M12 distribution boxes 1:1 Passive	E.27
	M12 8 poles	E.28
	M12 distribution box for NPN and PNP sensors	E.29
	M12 wall bushing	E.30
	Solutions to customer specification	E.33
	M12 distribution boxes accessories	E.34
	M8 distribution boxes	E.36

Passive M12 distribution box

As industrialisation advances, more and more sensors and actuators are being used in the field. To bundle these many different cables and avoid long cable lengths, we recommend using passive sensor-actuator distribution boxes.

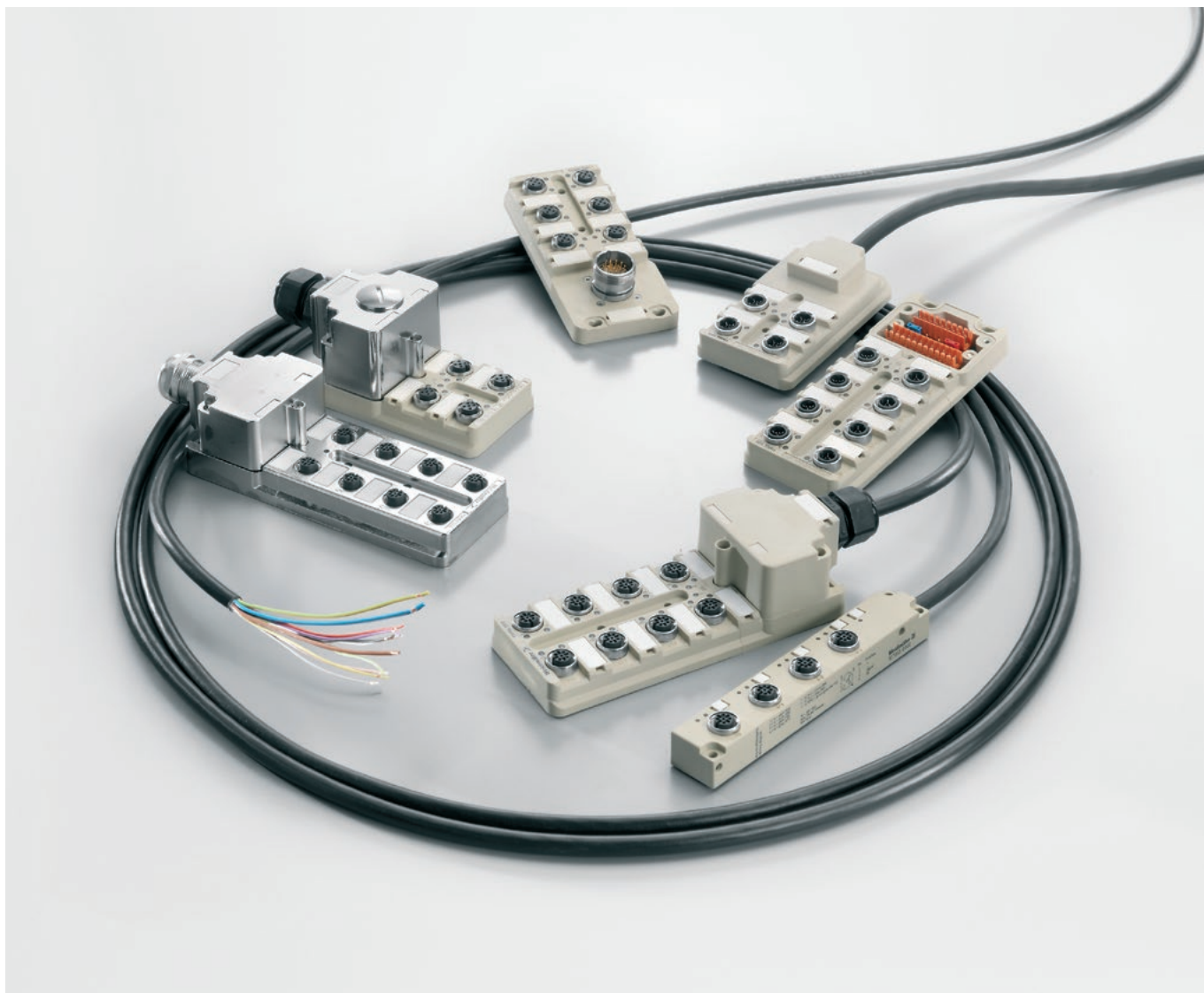
We offer M12 distribution boxes for your application, tailored to your requirements! Special wiring or fitting options are available upon request!

Range of connection options:

- Cover versions
- Fixed cable versions
- M12 / M23 group output

Housing variants

- Line (single row) and standard distribution boxes (double row)
- 4, 6, 8x distribution
- 4, 5 and 8-pole I/O sockets
- Plastic and metal housing





Compact

The female connector strips with PUSH IN or Screw connection are fitted on a mounting plate.



Small

Extremely small M12 distribution box



Fast

Insulation displacement connection can be used to directly connect the sensor cables



Robust

Threaded metal ring without cut outs for reliable, safe handling

E



M12 distribution boxes standard

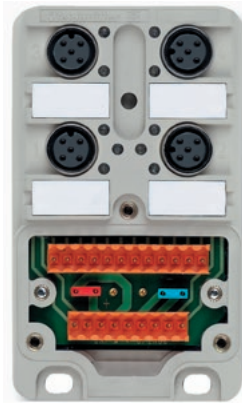


M12 distribution boxes with DIP switch coding



M12 distribution boxes for Zone 1

SAI distribution boxes with plug in connection hood: SAI-M



- Integrated plug in connector in connection hood
- M12 robust metal thread for sensor/actuator connection, now also available with plastic thread as an alternative
- Quick replacement of bus cables
- Bus cable can be supplied pre-assembled
- Two connection systems for bus cable: screw or PUSH IN clamp
- Very flat connection hood: no higher than smallest 90° M12 round plug
- Distribution box and connection hood can be supplied separately
- Connection hood compatible with 4 and 8 channel SAI distribution boxes (upgrades only entail changing the base module)
- IP 68 Ingress protection class (IDC IP 67)
- Housing made from Pocan® (PBT):
 - high dimensional stability
 - good electrical and mechanical properties
 - flame retardant without dioxin or furan formers
 - resistant to coolants and lubricants
- UL/CSA approvals for M12 SAI distribution boxes
- SAI distribution boxes available in pollution severity class 3
- Cable exit on top
- Weidmüller SAI distribution boxes have the largest storage capacity in the connection hood
- Female connectors integrated into the metal plate for fast and reliable connections
- Wide range of M8 and M12 cables and plug-in connectors
- Various cable lengths available
- Metal hoods and housings also available
- Plug-in connection module for bus cables increases flexibility on site
- Integral, plug in electrical isolation for two separate electric circuits (e.g. for emergency stop)
- Simple and vibration resistant connections on site
- Captive metric screws (grade 8.8 steel) have a +/- head
- M12 and IDC connections
- 1:1 arrangement available

Overview of M12 distribution boxes



Fixed cable version

- Pre-assembled bus cable minimises installation time and reduces wiring errors
- Cable carrier compatible versions are available with polyurethane (PUR) sheathing



M12 Push-Pull quick-fit connection system

M12 Push-Pull is the new connection system for sensors and actuators. It is downward compatible to the existing M12 system, which means that both old M12 and new M12 Push-Pull lines can be used together on these SAls. M12 Push-Pull decreases installation time and increases installation safety by means of colour coding and provides an audible click on locking for added reassurance.



SAI ECO – the cost-effective alternative

Weidmüller SAI distribution boxes with hood have long since been standard fittings in machines and installations.

Why plastic threaded rings?

There are some applications, however, that call for a further version. In some applications it is necessary to avoid all metal parts, unless these are made from stainless steel. In such cases stainless steel is then used for screws and nuts only, but the M12 threaded rings can be made from plastic. Such modules can now be supplied on request.

The use of plastic rings results in a cheaper alternative. Although the service life and resistance are reduced when compared to metal, this is acceptable for some applications.

Overview of SAI

M12 Plastic

	Hood	M23	5 m	10 m	15 m	20 m
4-way, 4-pole	1705920000	9456000000	9456190000	9456200000	9456210000	9456230000
4-way, 5-pole	1701230000		9456330000	9456340000	9456350000	9456370000
6-way, 4-pole	1705930000	9456010000	9456470000	9456480000	9456490000	9456510000
6-way, 5-pole	1701240000	9456010001	9456610000	9456620000	9456630000	9456650000
8-way, 4-pole	1705940000	9456020000	9456750000	9456760000	9456770000	9456790000
8-way, 5-pole	1701250000	1795470000	9456890000	9456900000	9456910000	9456930000

M12 Metal

	Hood without shield connection	Hood with shield connection	5 m	10 m		
4-way, 4-pole		1783540000	9456190002	9456200002		
4-way, 5-pole	1783500000	1783520000				
8-way, 4-pole		1783530000	9456750002	9456760002		
8-way, 5-pole	1783490000	1783510000				

M12 Line

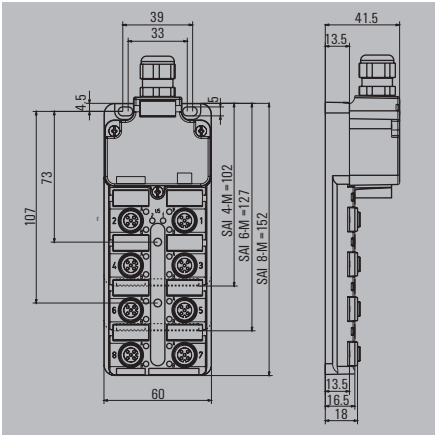
	M12 group outlet		5 m	10 m		
4-way, 4-pole	1267330000		1070650000	1070660000		
4-way, 5-pole			1070630000	1070640000		
6-way, 4-pole	1265940000		1265920000	1265930000		

M8 Line

	M12 group outlet		5 m	10 m		
4-way, 3-pole	1828740000		1828720000	1828710000		
4-way, 4-pole			1849680000	1849690000		
6-way, 3-pole	1828730000		1828700000	1828690000		
6-way, 4-pole			1849700000	1849670000		
8-way, 3-pole	1871680000		1828680000	1828670000		
8-way, 4-pole			1828620000	1828610000		
10-way, 3-pole	1877950000		1828660000	1828650000		
12-way, 3-pole			1828640000	1828630000		

Hood version

- PNP switching
- Hoods with plastic screw connection



Ordering data

Complete modules		
with LEDs, Screw connection	4 plug-in stations	
with LEDs, Screw connection	6 plug-in stations	
with LEDs, Screw connection	8 plug-in stations	
with LEDs, PUSH IN connection	4 plug-in stations	
with LEDs, PUSH IN connection	8 plug-in stations	
Base unit		
with LEDs	4 plug-in stations	
with LEDs	6 plug-in stations	
with LEDs	8 plug-in stations	
Mounting hood		
	Screw connection	
	Screw connection	
	PUSH IN connection	
	PUSH IN connection	
	Empty	
Complete module NPN switching		
with LEDs, Screw connection	8 plug-in stations	
Note		

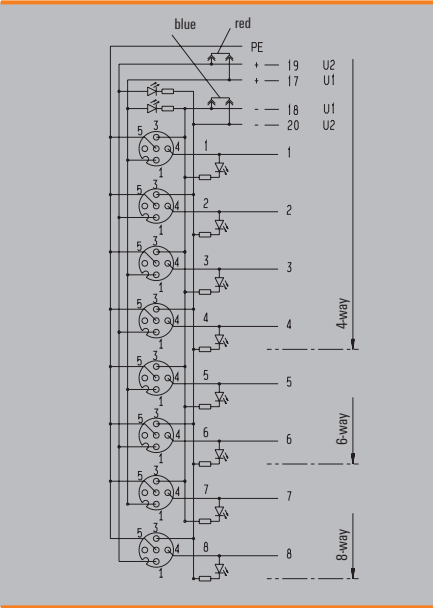
SAI-4/6/8-M		4-pole	
Type	Qty.	Order No.	
SAI-4-M 4P M12	1	1705920000	
SAI-6-M 4P M12	1	1705930000	
SAI-8-M 4P M12	1	1705940000	
SAI-4 M 4P M12 UT	2	1705921000	
SAI-6-M 4P M12 UT	2	1705931000	
SAI-8-M 4P M12 UT	2	1705941000	
SAI-4/6/8-MH BL3.5	1	1724750000	
SAI-4/6/8-MH BL3.5 SV	50	1724750050	
SAI-4/6/8-MH BLF3.5	1	1752080000	
SAI-4/6/8-MH BLF3.5 SV	50	1752080050	
Other versions on request			

SAI-4/6/8-M		5-pole	
Type	Qty.	Order No.	
SAI-4-M 5P M12	1	1701230000	
SAI-6-M 5P M12	1	1701240000	
SAI-8-M 5P M12	1	1701250000	
SAI-4-M 5P M12 PI	1	1854000000	
SAI-8-M 5P M12 PI	1	1767880000	
SAI-4-M 5P M12 UT	2	1701231000	
SAI-6-M 5P M12 UT	2	1701241000	
SAI-8-M 5P M12 UT	2	1701251000	
SAI-4/6/8-MH BL3.5	1	1724750000	
SAI-4/6/8-MH BL3.5 SV	50	1724750050	
SAI-4/6/8-MH BLF3.5	1	1752080000	
SAI-4/6/8-MH BLF3.5 SV	50	1752080050	
SAI-4/6/8-MH LEER	1	1783460000	
SAI-8-M 5P M12 NPN	1	1781060000	
Other versions on request			

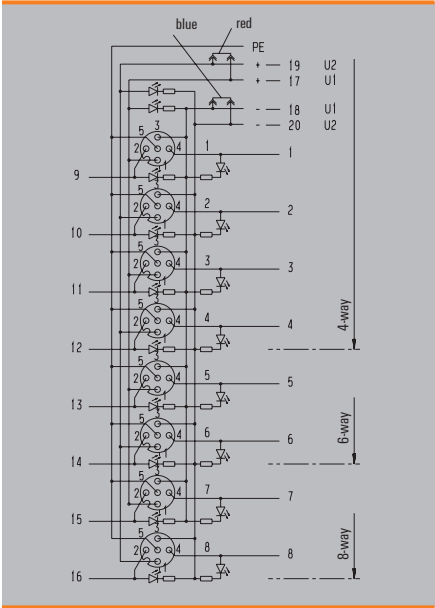
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable	No
(fixed cable connection)	
With dual power supply: 2x8 = 16A total current	

Wiring diagram



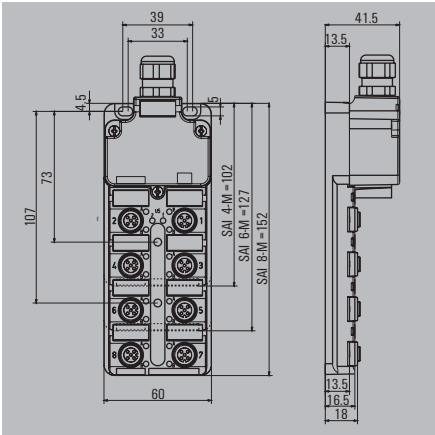
Wiring diagram



M12 distribution boxes

Hood version for analogue signals

- PNP switching
- Hoods with plastic screw connection



Ordering data

Complete modules		
Power LEDs only, Screw connection	4 plug-in stations	
Power LEDs only, Screw connection	8 plug-in stations	
without LEDs, Screw connection	8 plug-in stations	
Base unit		
Power LEDs only	4 plug-in stations	
Power LEDs only	8 plug-in stations	
Note		

SAI-4/6/8-M		5-pole
Type	Qty.	Order No.
SAI-4-M 5P M12 OL	1	1800000000
SAI-8-M 5P M12 OL	1	1740190000
SAI-8-M 5P M12 OL2	1	1816610000
SAI-4-M 5P M12 OL UT	2	1800001000
SAI-8-M 5P M12 OL UT	2	1740191000
Other versions on request		

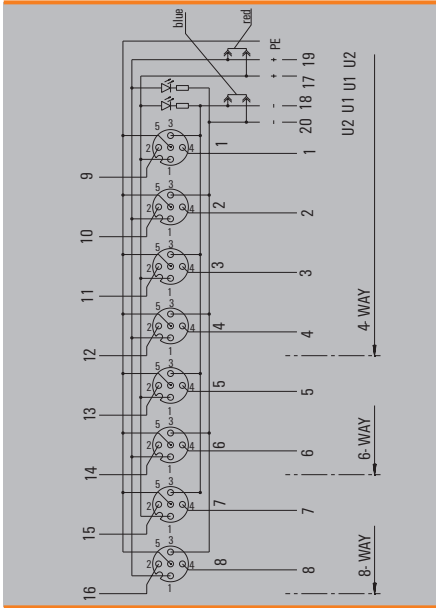
Type	Qty.	Order No.

Technical data

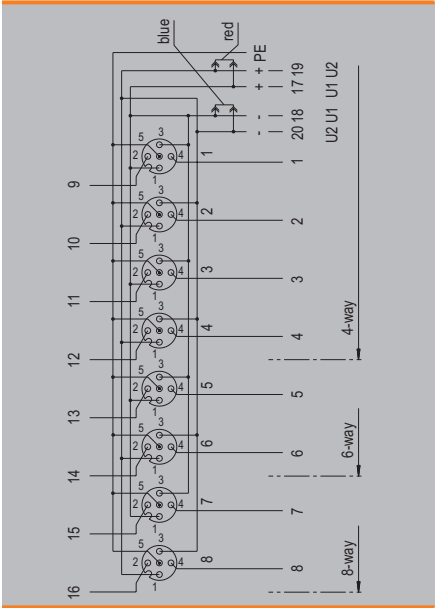
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable	No
(fixed cable connection)	

With dual power supply: 2x8 = 16A total current

Wiring diagram

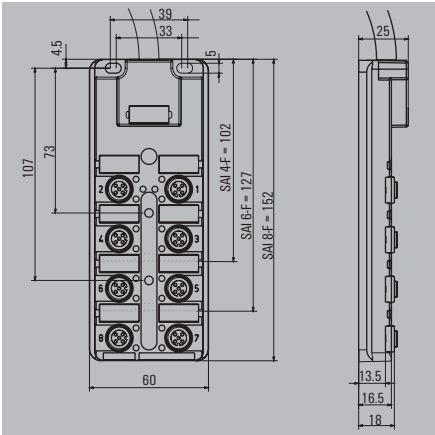


Wiring diagram



Fixed cable version

- PNP switching
- With LEDs



Ordering data

4-channel	
	3 m cable length
	5 m cable length
	10 m cable length
	15 m cable length
	20 m cable length
6-channel	
	3 m cable length
	5 m cable length
	10 m cable length
	15 m cable length
	20 m cable length
8-channel	
	3 m cable length
	5 m cable length
	10 m cable length
	15 m cable length
	20 m cable length
8-channel with reinforced fixed cable*	
	2 m cable length
	5 m cable length
	10 m cable length
	15 m cable length
	20 m cable length
Note	

SAI-4/6/8-F		4-pole
Type	Qty.	Order No.
SAI-4-F 4P PUR 3M	1	9456180000
SAI-4-F 4P PUR 5M	1	9456190000
SAI-4-F 4P PUR 10M	1	9456200000
SAI-4-F 4P PUR 15M	1	9456210000
SAI-4-F 4P PUR 20M	1	9456230000
SAI-6-F 4P PUR 3M	1	9456460000
SAI-6-F 4P PUR 5M	1	9456470000
SAI-6-F 4P PUR 10M	1	9456480000
SAI-6-F 4P PUR 15M	1	9456490000
SAI-6-F 4P PUR 20M	1	9456510000
SAI-8-F 4P PUR 3M	1	9456740000
SAI-8-F 4P PUR 5M	1	9456750000
SAI-8-F 4P PUR 10M	1	9456760000
SAI-8-F 4P PUR 15M	1	9456770000
SAI-8-F 4P PUR 20M	1	9456790000
Other versions on request		

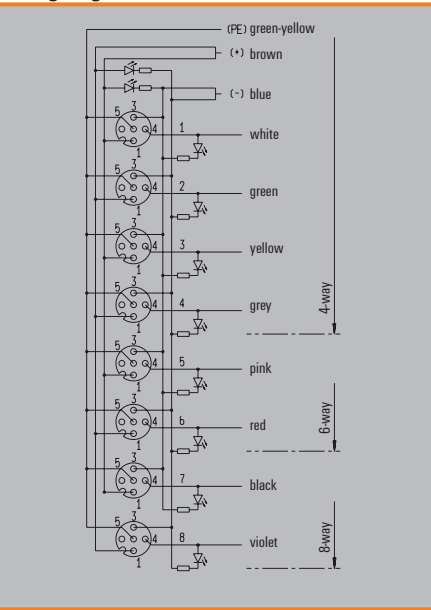
SAI-4/6/8-F		5-pole
Type	Qty.	Order No.
SAI-4-F 5P PUR 3M	1	9456320000
SAI-4-F 5P PUR 5M	1	9456330000
SAI-4-F 5P PUR 10M	1	9456340000
SAI-4-F 5P PUR 15M	1	9456350000
SAI-4-F 5P PUR 20M	1	9456370000
SAI-6-F 5P PUR 3M	1	9456600000
SAI-6-F 5P PUR 5M	1	9456610000
SAI-6-F 5P PUR 10M	1	9456620000
SAI-6-F 5P PUR 15M	1	9456630000
SAI-6-F 5P PUR 20M	1	9456650000
SAI-8-F 5P PUR 3M	1	9456880000
SAI-8-F 5P PUR 5M	1	9456890000
SAI-8-F 5P PUR 10M	1	9456900000
SAI-8-F 5P PUR 15M	1	9456910000
SAI-8-F 5P PUR 20M	1	9456930000
SAI-8-F 5P 2M 0.5/1.0U	1	7915030000
SAI-8-F 5P 5M 0.5/1.0U	1	9457590000
SAI-8-F 5P 10M 0.5/1.0U	1	9457600000
SAI-8-F 5P 15M 0.5/1.0U	1	1784510000
SAI-8-F 5P 20M 0.5/1.0U	1	1784500000
Other versions on request		

Technical data

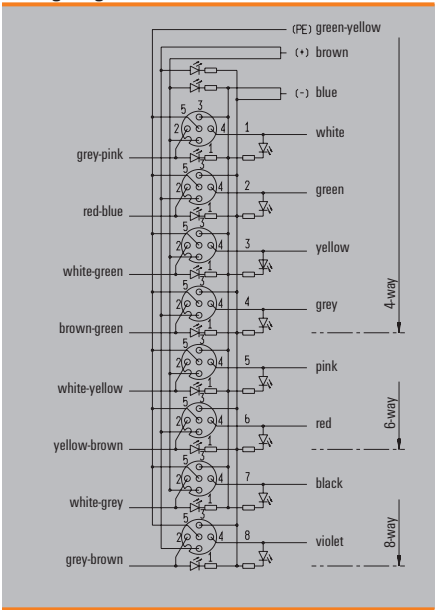
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

* 3x1 mm² and 16x0.5 mm² total current 12A

Wiring diagram



Wiring diagram



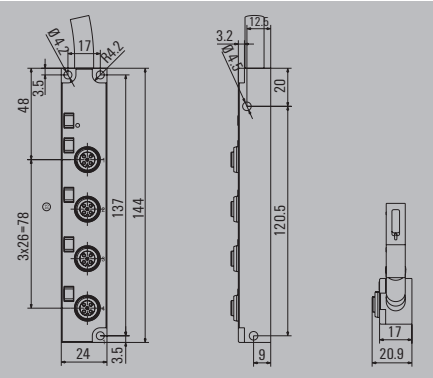
M12 distribution boxes

Fixed cable version

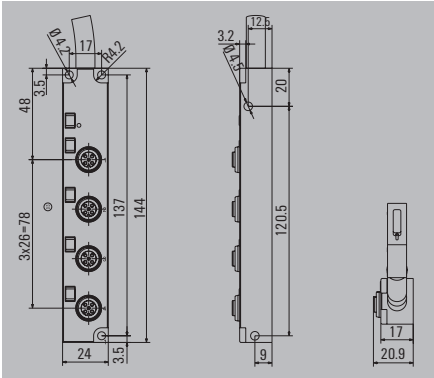
Thin design

- PNP switching
- With LEDs

SAI-4-F M12 L



SAI-4-F M12 L



Ordering data

4-channel	
	5 m cable length
	10 m cable length
Note	

SAI-4-F M12 L

Type	Qty.	4-pole	Order No.
SAI-4-F 4P M12 L 5M	1		1070650000
SAI-4-F 4P M12 L 10M	1		1070660000
Other versions on request			

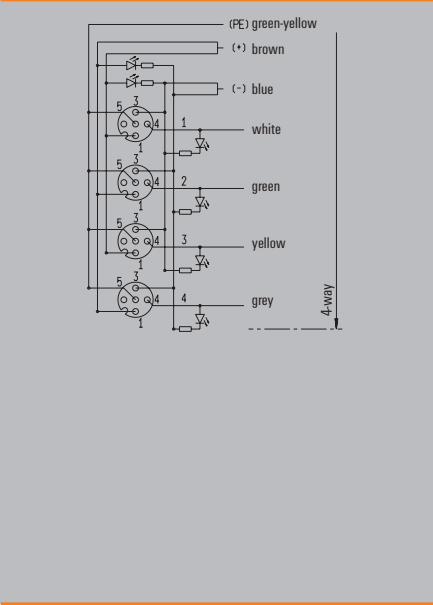
SAI-4-F M12 L

Type	Qty.	5-pole	Order No.
SAI-4-F 5P M12 L 5M	1		1070630000
SAI-4-F 5P M12 L 10M	1		1070640000
Other versions on request			

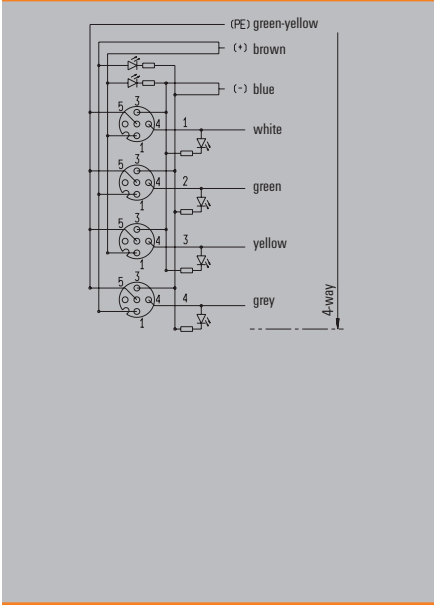
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	3 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	PA 6 GF, PBT
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Wiring diagram



Wiring diagram

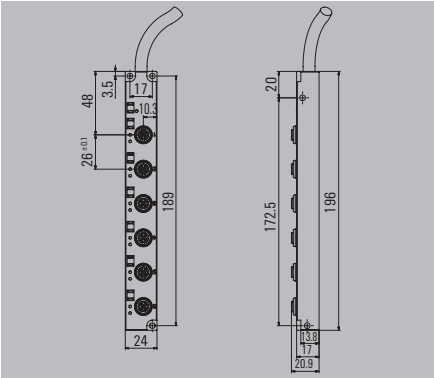


Fixed cable version

Thin design

- PNP switching
- With LEDs

SAI-6-F M12 L



Ordering data

6-channel	5 m cable length
	10 m cable length
Note	

SAI-6-F M12 L

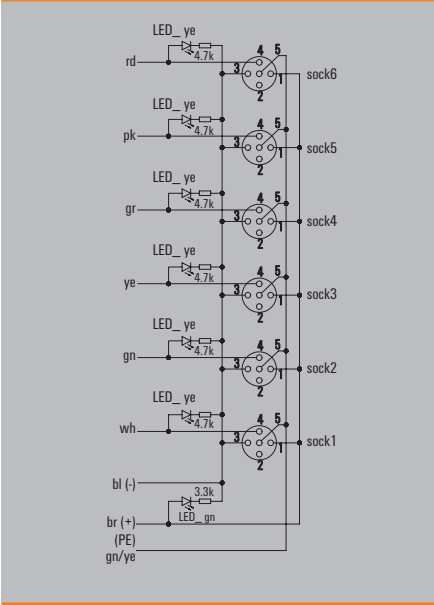
4-pole

Type	Qty.	Order No.
SAI-6-F 4P M12 L 5M	1	1265920000
SAI-6-F 4P M12 L 10M	1	1265930000

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	3 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	PBT
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Wiring diagram

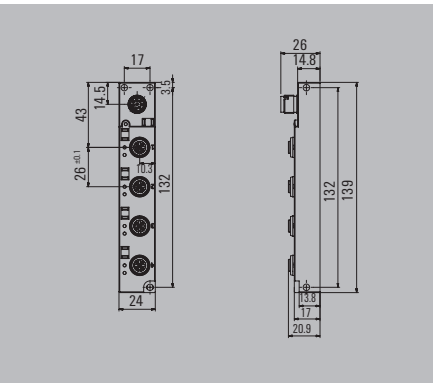


M12 distribution boxes

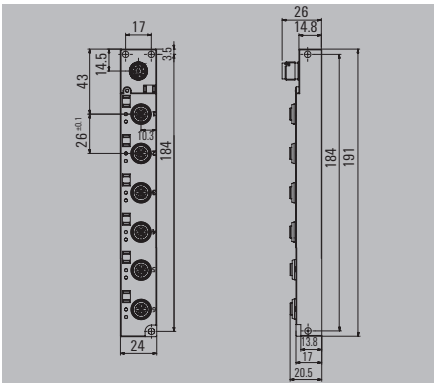
Line

- PNP switching
- With LEDs

SAI-4-S



SAI-6-S



Ordering data

4-channel	M12 outlet, 8-pole
6-channel	M12 outlet, 12-pole
Note	

SAI-4-S

Type	Qty.	Order No.
SAI-4-S8 4P M12 L	1	1267330000

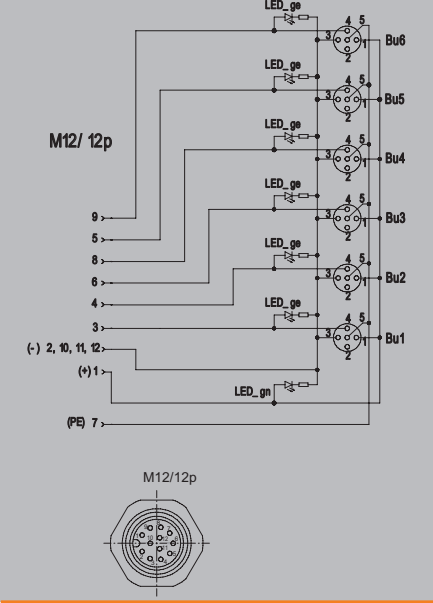
SAI-6-S

Type	Qty.	Order No.
SAI-6-S12 4P M12 L	1	1265940000

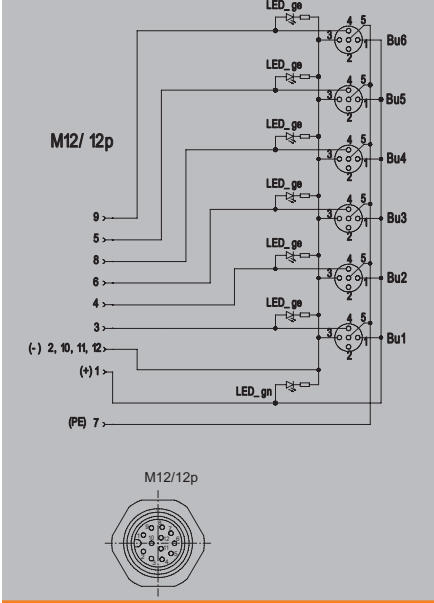
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...80 °C
Housing main material	PBT
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



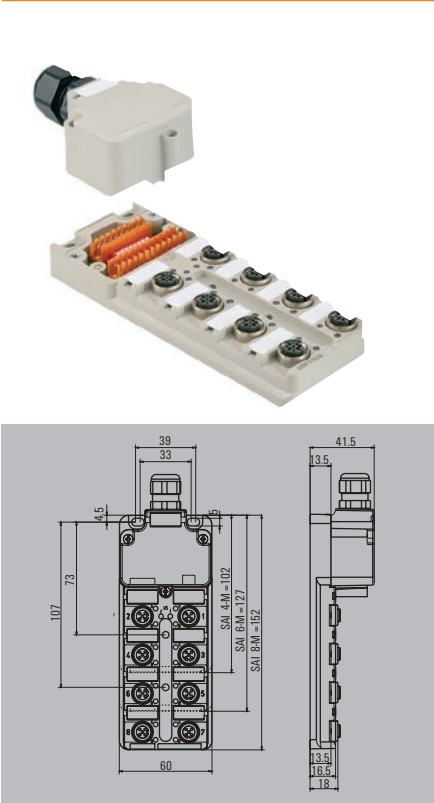
Wiring diagram



Hood version
with DIP-switch coding

- PNP switching
- With LEDs
- Hoods with plastic screw connection

SAI-8-M M12 DIP



Ordering data

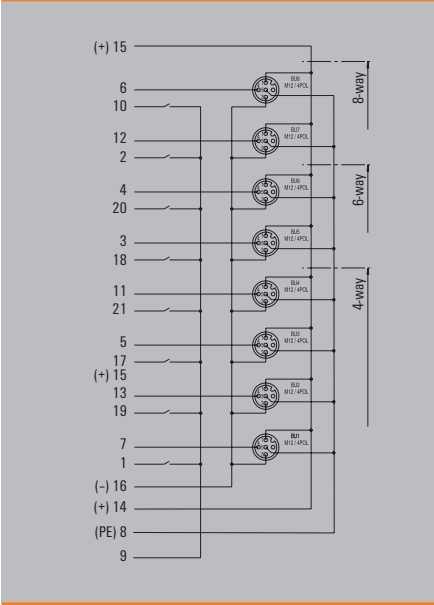
Complete modules	8 plug-in stations
Note	

SAI-8-M M12 DIP		4-pole
Type	Qty.	Order No.
SAI-8-M-4P M12 DIP	1	1059430000
Other versions on request		

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	8 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm²
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



Passive M12 distribution boxes – ECO

Passive distribution boxes have become an established solution for combining sensor and actuator wiring. In certain applications, all metal parts must be avoided unless these are made from stainless steel. ECO series M12 distribution boxes use plastic threaded rings for this purpose.

These are not recommended for use in harsh conditions, however due to their low price they do represent an alternative for many applications.

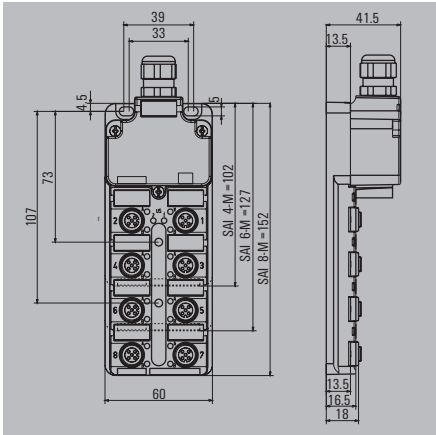
Properties of the ECO series:

- MultiCard marker for labelling the individual slots
- Potential separation via solder bridge that can be separated one time
- Standard protective caps eliminated in the scope of delivery for the distribution boxes
- IP68 plastic screw fitting



Hood version

- PNP switching
- With LEDs
- Hoods with plastic screw connection



Ordering data

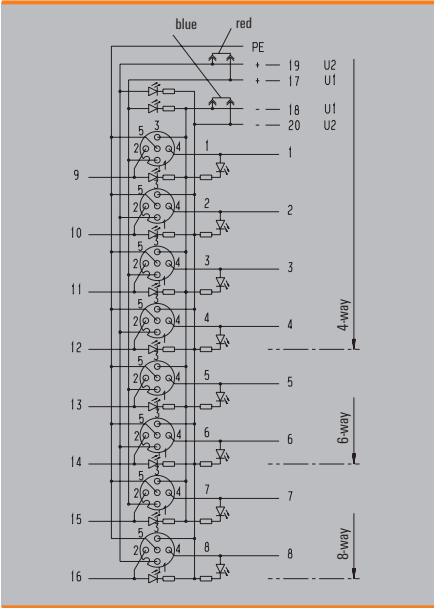
Complete modules		
Screw connection	4 plug-in stations	
	4 plug-in stations	
Screw connection	6 plug-in stations	
Screw connection	8 plug-in stations	
Base unit		
Screw connection	4 plug-in stations	
Screw connection	6 plug-in stations	
Screw connection	8 plug-in stations	
Mounting hood		
	Screw connection	
	PUSH IN connection	
Complete module NPN switching		
Screw connection	4 plug-in stations	
Screw connection	8 plug-in stations	
Note		

SAI-4/6/8-M		5-pole
Type	Qty.	Order No.
SAI-4-M 5P M12 ECO	1	1892100000
SAI-6-M 5P M12 ECO	1	1892090000
SAI-8-M 5P M12 ECO	1	1892080000
SAI-4-M 5P M12 ECO UT	2	1892101000
SAI-6-M 5P M12 ECO UT	2	1892091000
SAI-8-M 5P M12 ECO UT	2	1892081000
SAI-4/6/8-MH BL3.5 SV	50	1724750050
SAI-4/6/8-MH BLF3.5 SV	50	1752080050
SAI-4-M 5P M12 NPN ECO	1	1892100005
SAI-8-M 5P M12 NPN ECO	1	1892080005
These distribution boxes are supplied without protective caps and markers. Other versions on request		

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Pocan
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	No
With dual power supply: 2x8 = 16A total current	

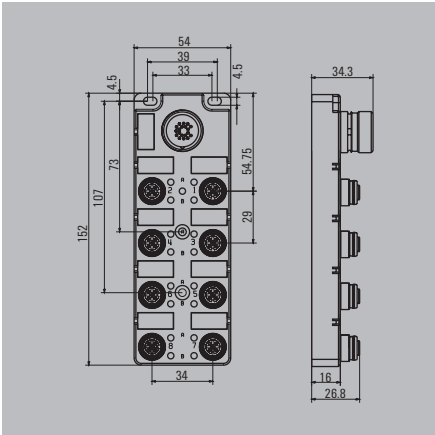
Wiring diagram



M12 Push-Pull

with M23 outlet

- PNP switching
- With LEDs



Ordering data

4-channel	
	M23 outlet, 12-pole
	M23 outlet, 19-pole
8-channel	
	M23 outlet, 12-pole
	M23 outlet, 19-pole
Note	

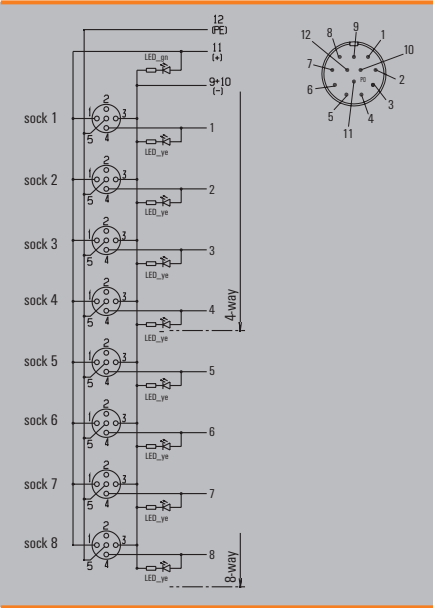
SAI-4/8-S		4-pole
Type	Qty.	Order No.
SAI-4-S 4P FC	1	1847960000
SAI-8-S 4P FC	1	1847920000
Other versions on request		

SAI-4/8-S		5-pole
Type	Qty.	Order No.
SAI-4-S 5P FC	1	1847970000
SAI-8-S 5P FC	1	1848040000
Other versions on request		

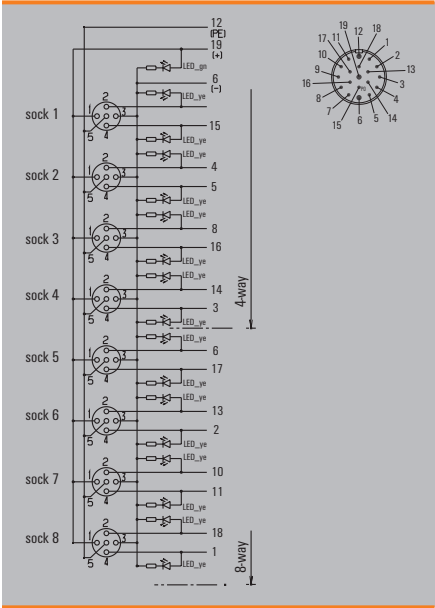
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram

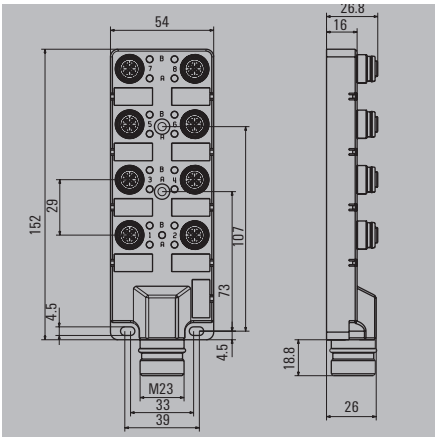


Wiring diagram



with M23 outlet on front

- PNP switching
- With LEDs



Ordering data

8-channel	M23 outlet, 12-pole M23 outlet, 19-pole
Note	

SAI-4/8-SH

4-pole

Type	Qty.	Order No.
SAI-8-SH 4P FC	1	1859120000

SAI-4/8-SH

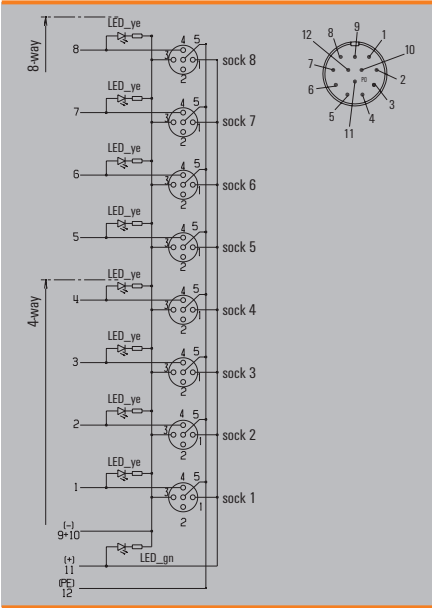
5-pole

Type	Qty.	Order No.
SAI-8-SH 5P FC	1	1859140000

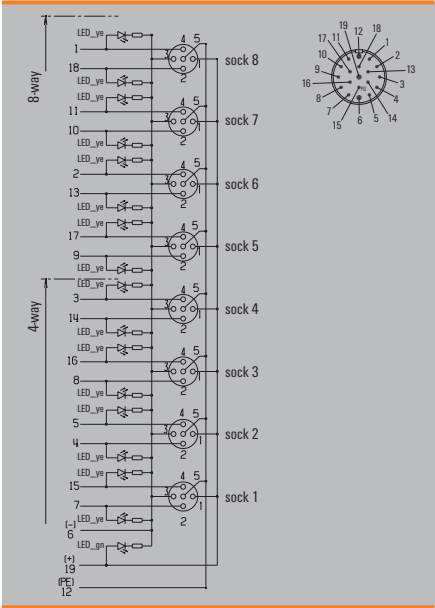
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

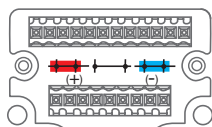
Wiring diagram



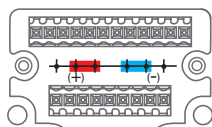
Wiring diagram



IDC – the quick connection



Factory setting
(see wiring diagram)
Current bridged



Current isolated



Hood version

- Compact IDC connection cuts production, commissioning and maintenance work
- Robust, knurled metal nut, safe handling requiring little force
- The dimensions of the IDC distribution box correspond to and are compatible with the standard SAI distribution box
- Plug-in connection module for bus cables enhances on-site flexibility
- Three sizes for 4, 6 and 8 channels
- 3-pole version with one I/O signal per channel, 4-pole version with two I/O signals per channel
- Individual on site assembly of sensor-actuator lines
- Fast, reliable connection with IDC connection element
- IP 67 Ingress protection classification

SAI fixed cable version

- Pre-assembled bus cables minimise installation work and avoid wiring errors
- 3 sizes for 4, 6 and 8 channels
- Highly flexible, cable carrier compatible bus cables with polyurethane (PUR/PVC) sheathing
 - 3 x 0.75 mm²
 - n x 0.34 mm²
- 3-pole version with one I/O signal per channel, 4-pole version with two I/O signals per channel

IDC connection element

Ordering data

Type	Qty.	Order No.
SAI-SA-3-IDC	1	9457720000
SAI-SA-4-IDC	1	1766810000



The significant advantages of Weidmüller tools:

- Easy handling
- Very small, ideal for confined assembly conditions
- Patented solution
- Metal Connectors

Insulation displacement connections on Weidmüller SAI distribution boxes are currently the smallest but also the most robust connection elements on the market. Thanks to their extremely small dimensions, corresponding distribution boxes are available with the same dimensions in M12 or IDC versions.

For large series, e.g. where more than 100 modules are used every year, we recommend using a special tool to simplify the handling of the connected lines even further. However, this tool is not always necessary because all connection elements can usually be readily tightened by hand.

IDC-Tool



Ordering data

Type	Qty.	Order No.
SAHDC-Tool	1	1795020000

Screwty®

The IDC elements can also be tightened with the Weidmüller Screwty®.



Ordering data

Type	Qty.	Order No.
Screwty®-M12-DM	1	1900001000

Protective cap M12 for IDCw



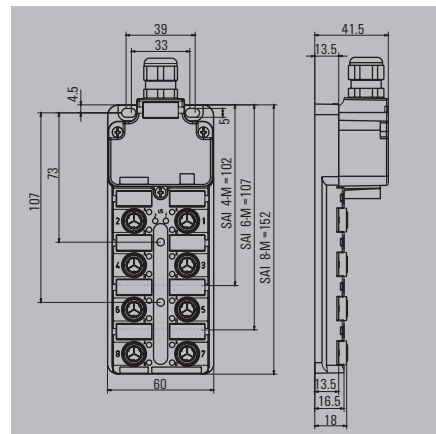
Ordering data

Type	Qty.	Order No.
SAI-SK-M12 IDC	10	1794850000

M12 IDC

Hood version

- PNP switching
- With LEDs
- Hoods with plastic screw connection



Ordering data

Complete modules	
Screw connection	4 plug-in stations
Screw connection	6 plug-in stations
Screw connection	8 plug-in stations
Base unit	
	4 plug-in stations
	6 plug-in stations
	8 plug-in stations
Mounting hood	
	Screw connection
	Screw connection
	PUSH IN connection
	PUSH IN connection
Note	

SAI-4/6/8-M IDC

Type	Qty.	Order No.
SAI-4-M 3P IDC	1	1760040000
SAI-6-M 3P IDC	1	1760050000
SAI-8-M 3P IDC	1	1760060000
SAI-4-M 3P IDC UT	2	1760041000
SAI-6-M 3P IDC UT	2	1760061000
SAI-4/6/8-MH BL3.5	1	1724750000
SAI-4/6/8-MH BL3.5 SV	50	1724750050
SAI-4/6/8-MH BLF3.5	1	1752080000
SAI-4/6/8-MH BLF3.5 SV	50	1752080050
Other versions on request		

3-pole

SAI-4/6/8-M IDC

Type	Qty.	Order No.
SAI-4-M 4P IDC	1	1766780000
SAI-6-M 4P IDC	1	1766790000
SAI-8-M 4P IDC	1	1766800000
SAI-4-M 4P IDC UT	2	1766781000
SAI-6-M 4P IDC UT	2	1766791000
SAI-8-M 4P IDC UT	2	1766801000
SAI-4/6/8-MH BL3.5	1	1724750000
SAI-4/6/8-MH BL3.5 SV	50	1724750050
SAI-4/6/8-MH BLF3.5	1	1752080000
SAI-4/6/8-MH BLF3.5 SV	50	1752080050
Other versions on request		

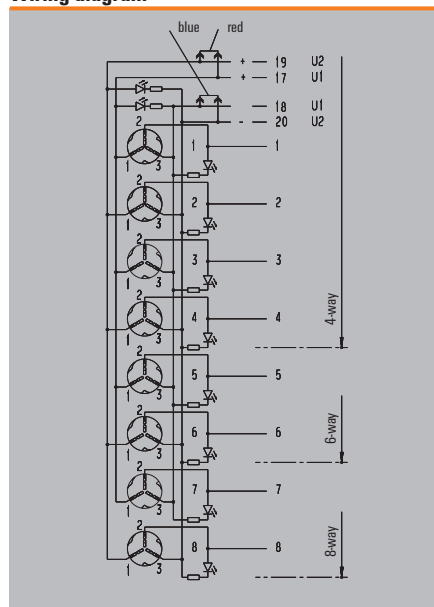
4-pole

Technical data

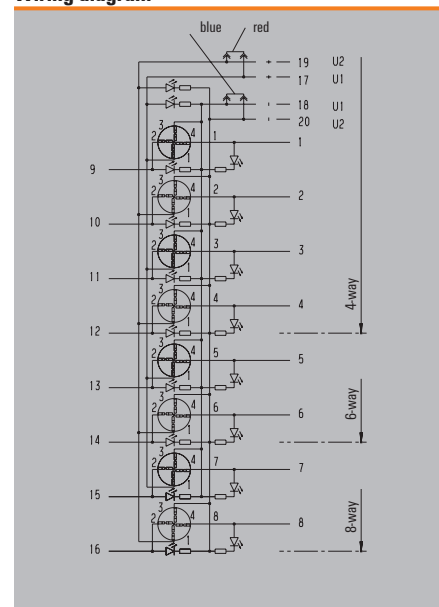
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	2
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	No

With dual power supply: 2x8 = 16A total current

Wiring diagram

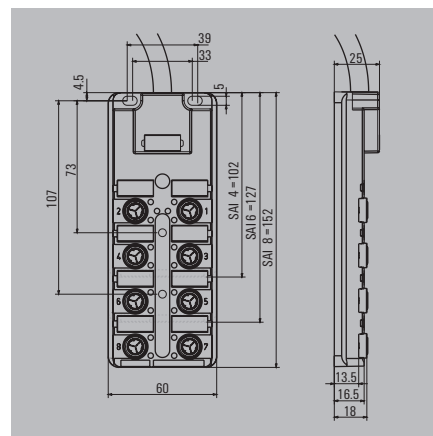


Wiring diagram



Fixed cable version

- PNP switching
- With LEDs



Ordering data

4-channel	5 m cable length 10 m cable length
6-channel	5 m cable length 10 m cable length
8-channel	5 m cable length 10 m cable length
Note	

SAI-4/6/8-F IDC

Type	Qty.	Order No.
SAI-8-F 3P IDC PUR 10M	1	1766770000
Other versions on request		

3-pole

SAI-4/6/8-F IDC

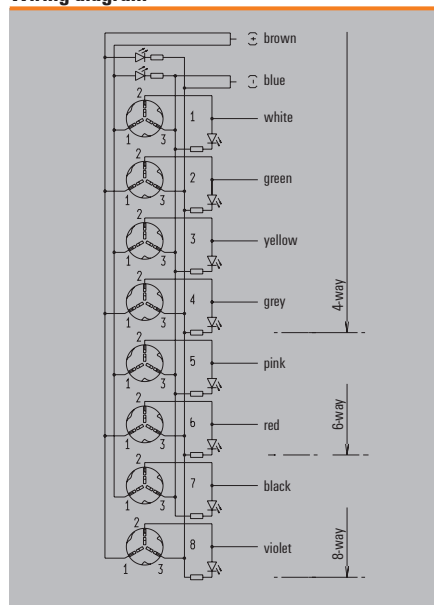
Type	Qty.	Order No.
SAI-4-F 4P IDC PUR 5M	1	1766660000
SAI-4-F 4P IDC PUR 10M	1	1766670000
SAI-6-F 4P IDC PUR 5M	1	1766680000
SAI-6-F 4P IDC PUR 10M	1	1766690000
SAI-8-F 4P IDC PUR 5M	1	1766700000
SAI-8-F 4P IDC PUR 10M	1	1766710000
Other versions on request		

4-pole

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	2
Protection degree	IP67
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Wiring diagram



Wiring diagram



Sensor-actuator distribution boxes for special applications

Shielded cable, e.g. for analogue initiators

Some applications need full shielding from sensor to control. This is possible with the all metal SAI distribution boxes. The distribution boxes are supplied with an EMC cable gland. Initiator LEDs are omitted.

Especially thick trunk cable

It is sometimes advisable to use the machine manufacturer's standard trunk cable. This cable will usually have a relatively large outside diameter and will therefore require plenty of space (SAI-4/6/8 MHD).

Hood distribution boxes in full metal

Metal distribution boxes from Weidmüller have proven themselves in a variety of applications. They are available in versions with 4 and 8 M12 sockets. Metal distribution boxes are also required for ESD reasons. The conductive metallic surface is crucial, in other words: the surface resistance is very low.

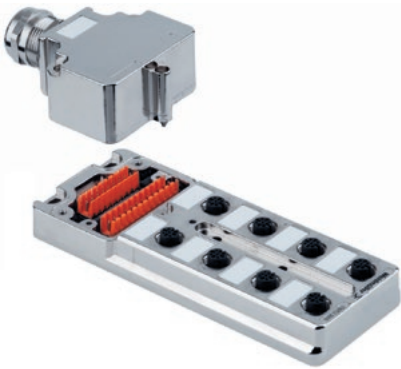
Advantages:

- No ESD/EMC problems
- High resistance to chemicals or mechanical loads
- Standard mounting dimensions

SAI-M with metal hood

SAI-4/6/8 MMS SAI-4/6/8 MM

MMS: **M**odular, **M**etal, **S**hield
MM: **M**odular, **M**etal



SAI-4/6/8 MH

MH: **M**odular, **H**igh



SAI-4/6/8 MHD

MHD: **M**odular, **H**igh, sealed
(for especially thick cables)



SAI-4/6/8 MMS with EMC cable gland in metal housing

For especially tough conditions where plastic is totally unsuitable. In certain cases it makes sense to avoid the use of plastics altogether. In such cases a distribution box made completely from metal is required that can be connected to others using metal cable glands, without additional connections for the shielding.

Cable gland: M20

For cables with outside insulation diameter from 10 mm to 14 mm. Listed below are just some of the cable sizes that are suitable for the SAI distribution boxes with M20 cable gland:

- 14 x 0.50 mm² to 16 x 0.50 mm²
- 8 x 0.75 mm² to 15 x 0.75 mm²
- 8 x 1.00 mm² to 10 x 1.00 mm²
- 5 x 1.50 mm² to 7 x 1.50 mm²

Cable gland: M25

For cables with outside insulation diameter from 13 mm to 18 mm. Listed below are just some of the cable sizes that are suitable for the SAI distribution boxes with M25 cable gland:

- 21 x 0.50 mm²
- 18 x 0.75 mm² to 21 x 0.75 mm²
- 14 x 1.00 mm² to 20 x 1.00 mm²
- 8 x 1.50 mm² to 16 x 1.50 mm²

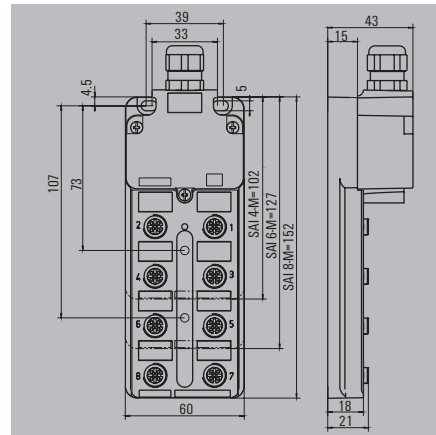
Overview of metal distribution boxes

Type	SAI-UT	Sockets	M12	Poles-Hood	Form	Cable gland	Cable gland	Length	Order No.
SAI-4-MH-4P M12	PBT	4	4	Zn-G	high	M20	plastic		1705922000
SAI-6-MH-4P M12	PBT	6	4	Zn-G	high	M20	plastic		1705932000
SAI-8-MH-4P M12	PBT	8	4	Zn-G	high	M20	plastic		1705942000
SAI-4-MH-5P M12	PBT	4	5	Zn-G	high	M20	plastic		1701232000
SAI-6-MH-5P M12	PBT	6	5	Zn-G	high	M20	plastic		1701242000
SAI-8-MH-5P M12	PBT	8	5	Zn-G	high	M20	plastic		1701252000
SAI-8-MHD-5P M12	PBT	8	5	Zn-G	high	M25	plastic		1701253000
SAI-4-MHD-4P M12	PBT	4	4	Zn-G	high	M25	plastic		1705923000
SAI-8-MHD-4P M12	PBT	8	4	Zn-G	high	M25	plastic		1705943000
SAI-4-MMS-4P M12	Zn-G	4	4	Zn-G	low	M20	EMC		1783540000
SAI-8-MMS-4P M12	Zn-G	8	4	Zn-G	low	M20	EMC		1783530000
SAI-4-MMS-5P M12	Zn-G	4	5	Zn-G	low	M20	EMC		1783520000
SAI-8-MMS-5P M12	Zn-G	8	5	Zn-G	low	M20	EMC		1783510000
SAI-4-MM-5P M12	Zn-G	4	5	Zn-G	low	M20	brass		1783500000
SAI-8-MM-5P M12	Zn-G	8	5	Zn-G	low	M20	brass		1783490000
SAI-4/6/8 MH-MH BL 3.5				Zn-G	high	M20	plastic		1724752000
SAI-4/6/8 MH-MHD BL 3.5				Zn-G	high	M25	plastic		1724753000
SAI-8-MH-5P M12 ZF III	PBT	8	5	Zn-G	high	M20	plastic		1782760000
SAI-8-MMS-5P M12 ZF III	Zn-G	8	5	Zn-G	high	M20	plastic		1782740000
SAI-4/6/8 MH-MH BL-ZF 3.5				Zn-G	high	M20	plastic		1782750000
Note: The cable outside diameter can vary from manufacturer to manufacturer. It is therefore possible that the cable glands hold other cables firmly despite a different strand lay-up. In each case, it is best to first measure the cable diameter and then choose an appropriate distribution box.									

M12 metal distribution boxes

Hood version

- PNP switching
- With LEDs
- Hoods with plastic screw connection



Ordering data

Complete modules, 4-pole		
Screw connection	4 plug-in stations	
Screw connection	8 plug-in stations	
Complete modules, 5-pole		
Screw connection	4 plug-in stations	
Screw connection	8 plug-in stations	
PUSH IN connection, high cover	8 plug-in stations	
Base unit		
	8 plug-in stations	
Mounting hood		
	Screw connection	
	Screw connection with EMC gland	
Note		

SAI-4/6/8-MMS

Type	Qty.	Order No.
SAI-4-MMS 4P M12	1	1783540000
SAI-8-MMS 4P M12	1	1783530000
SAI-4-MMS 5P M12		
SAI-4-MMS 5P M12	1	1783520000
SAI-8-MMS 5P M12	1	1783510000
SAI-8-MM 5P M12 UT		
SAI-8-MM 5P M12 UT	2	1783491000
Complete modules with EMC cable gland		

M12

SAI-4/6/8-MM

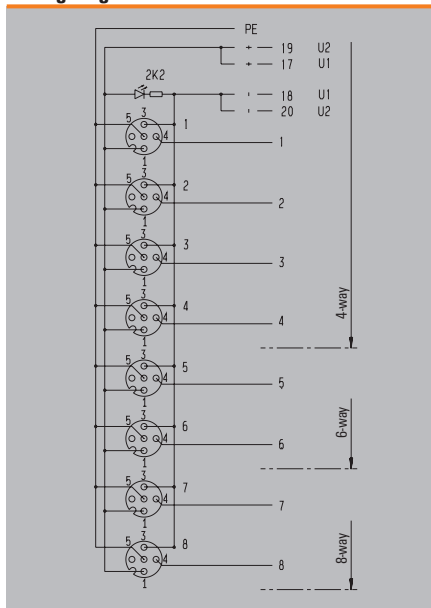
Type	Qty.	Order No.
SAI-4-MM 5P M12	1	1783500000
SAI-8-MM 5P M12	1	1783490000
SAI-8-MMH 5P M12 PI	1	1782740000
SAI-8-MM 5P M12 UT		
SAI-8-MM 5P M12 UT	2	1783491000
SAI-4/6/8 MH-MM BL 3.5		
SAI-4/6/8 MH-MM BL 3.5	1	1724754000
SAI-4/6/8 MH-MMS BL 3.5	1	2820520000
MM without initiator LED and with standard metal cable gland		

Technical data

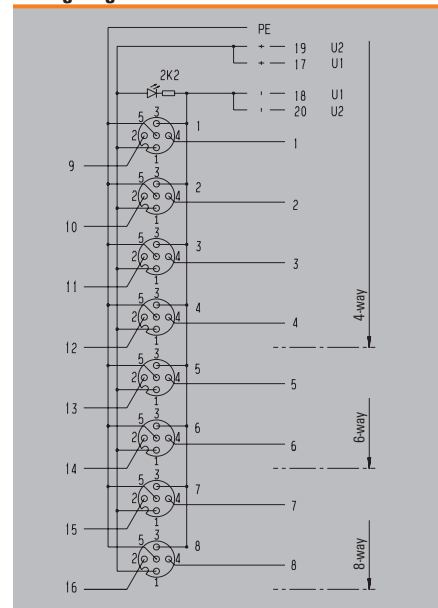
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Zinc diecast
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	silver
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	No

Complete shielding transmission via the housing

Wiring diagram

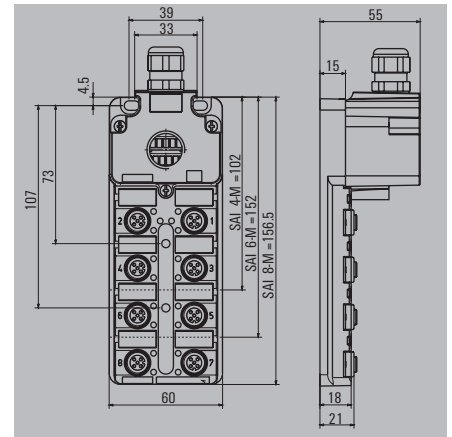


Wiring diagram



Hood version with M20 outlet

- PNP switching
- With LEDs
- Hoods with plastic screw connection

**Ordering data**

Complete modules	
Screw connection	4 plug-in stations
Screw connection	6 plug-in stations
Screw connection	8 plug-in stations
PUSH IN connection	8 plug-in stations
Mounting hood	
	Screw connection
	PUSH IN connection
Note	

SAI-4/6/8-MH**4-pole**

Type	Qty.	Order No.
SAI-4-MH-4P M12	1	1705922000
SAI-6-MH-4P M12	1	1705932000
SAI-8-MH-4P M12	1	1705942000
SAI-4/6/8 MH-MH BL 3.5	1	1724752000
SAI-4/6/8 MH MH BLF3.5	1	1782750000
Other versions on request		

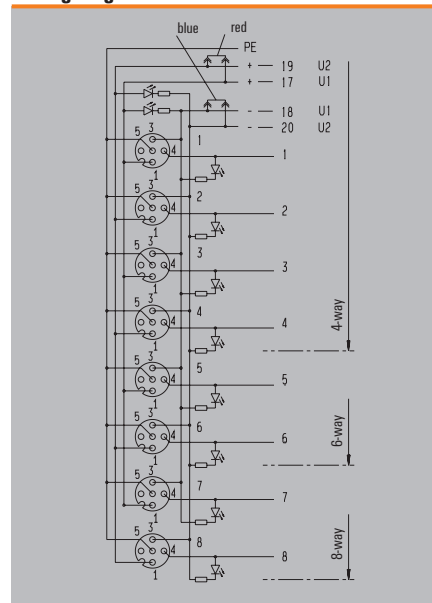
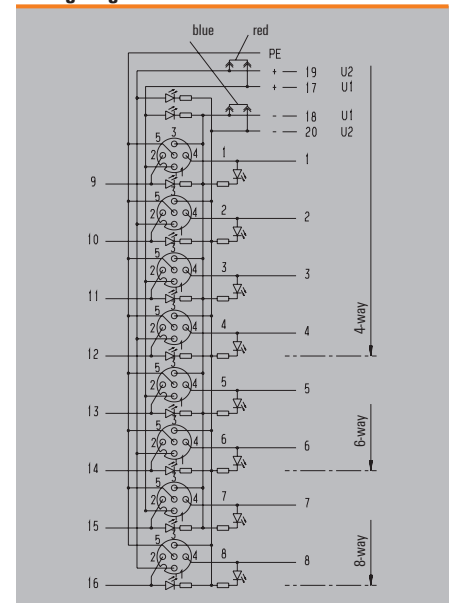
SAI-4/6/8-MH**5-pole**

Type	Qty.	Order No.
SAI-4-MH-5P M12	1	1701232000
SAI-6-MH-5P M12	1	1701242000
SAI-8-MH-5P M12	1	1701252000
SAI-8-MH-5P M12 PI	1	1782760000
SAI-4/6/8 MH-MH BL 3.5	1	1724752000
SAI-4/6/8 MH MH BLF3.5	1	1782750000
Other versions on request		

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan (base module), Zinc diecast (hood)
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	silver
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	No

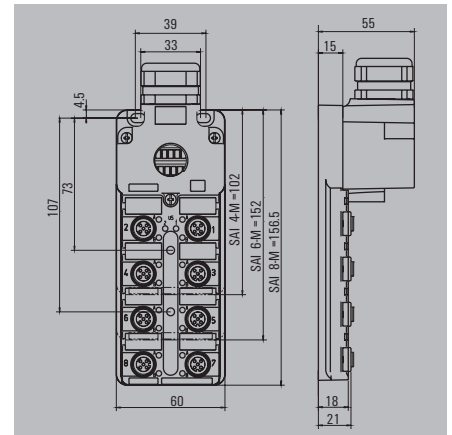
With dual power supply: 2x8 = 16 A total current

Wiring diagram**Wiring diagram**

M12 metal distribution boxes

Hood version with M25 outlet

- PNP switching
- With LEDs
- Hoods with plastic screw connection



Ordering data

Complete modules	
Screw connection	4 plug-in stations
Screw connection	8 plug-in stations
Mounting hood	
	Screw connection
Note	

SAI-4/6/8-MHD

4-pole

Type	Qty.	Order No.
SAI-4-MHD-4P M12	1	1705923000
SAI-8-MHD-4P M12	1	1705943000
SAI-4/6/8 MH-MHD BL 3.5	1	1724753000
Other versions on request		

SAI-4/6/8-MHD

5-pole

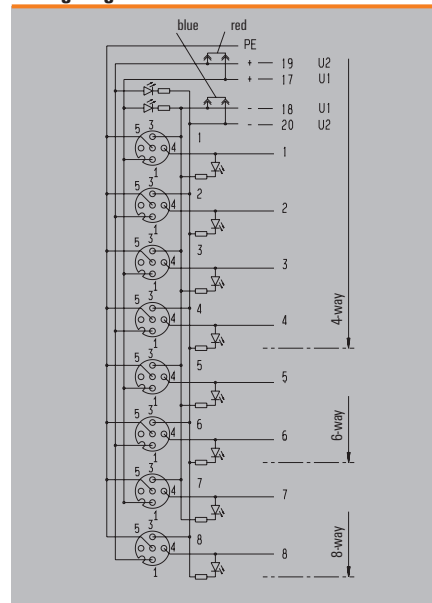
Type	Qty.	Order No.
SAI-8-MHD-5P M12	1	1701253000
SAI-4/6/8 MH-MHD BL 3.5	1	1724753000
Other versions on request		

Technical data

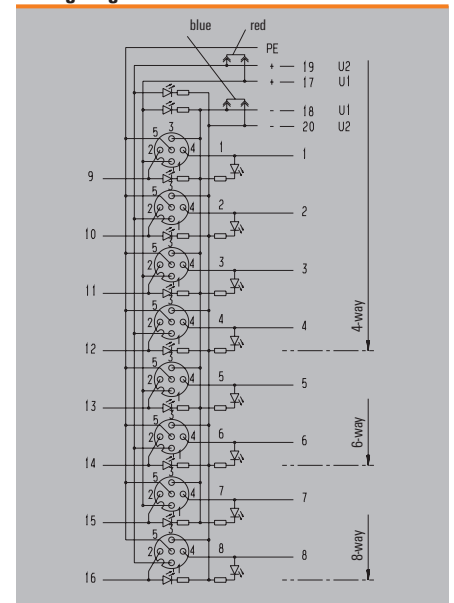
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan (base module), Zinc diecast (hood)
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	silver
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	No

With dual power supply: 2x8 = 16 A total current

Wiring diagram



Wiring diagram



For switching with five no-voltage contacts in an M12 without LED

with hood



Emergency stop wiring

Sometimes a machine builder will need more than two floating contacts in one M12 plug-in connector. This is the case, for example, in the wiring for some "emergency stop" circuits. It was for this application that Weidmüller developed the 1:1 SAI distribution box.

This SAI distribution box has four M12 plug-in connectors with five floating contacts in one socket connector. The distribution box is supplied complete with hood.

When connecting PT100 3- and 4-conductor initiators, we recommend the new shielded metal version. If you need other circuit configurations, simply contact us.

Note: This distribution box should not be used as the base module for active bus distribution boxes.

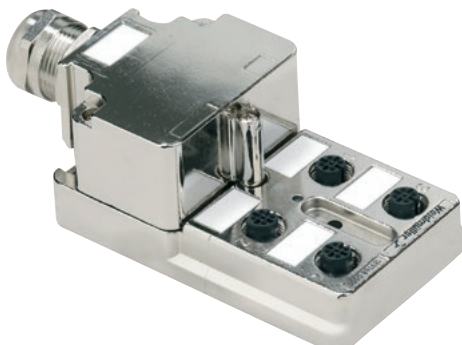
base element



Wiring diagram

Socket	Contact	BL 3.5 contact
1	1	1
1	2	2
1	3	3
1	4	4
1	5	5
2	1	6
2	2	7
2	3	8
2	4	9
2	5	10
3	1	11
3	2	12
3	3	13
3	4	14
3	5	15
4	1	16
4	2	17
4	3	18
4	4	19
4	5	20
-	-	21

metal



Technical data

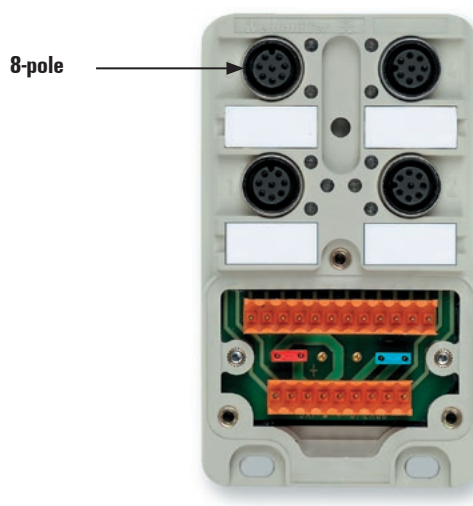
Current per channel	2 A
Total current	8 A
LEDs	No LEDs are integrated at any point.

Ordering data

Type	Qty.	Order No.
SAI-4-M 5P M12 1:1 (plastic hood)	1	1806010000
Base element (plastic)	1	1806011000
SAI-4-MMS 5P M12 1:1 (metal hood)	1	1897680000

M12 8 poles

SAI distribution boxes with 8 poles per M12



Applications

This distribution box can be used both as a base module for satellite solutions (SAI-Combi) and for connecting sensors/units with more than two contacts.

Sensors, units with more than two signals in one line

As one socket in this module contains four signal paths and, in addition, two +, two - and one PE, components with more than two signal lines can be connected to this module. Eight-pole connecting cables are available on request.

Wiring

M12 socket	M12 contact	BL 3.5 connection	PLC input	Supply
1	1	1	E0.0	
1	2	3	E0.1	
1	3	5	E0.2	
1	4	7	E0.3	
2	1	2	E0.4	
2	2	4	E0.5	
2	3	6	E0.6	
2	4	8	E0.7	
3	1	9	E1.0	
3	2	11	E1.1	
3	3	13	E1.2	
3	4	15	E1.3	
4	1	10	E1.4	
4	2	12	E1.5	
4	3	14	E1.6	
4	4	16	E1.7	
1/3	5	17		24 V
2/4	5	19		24 V
1/3	6/7	18		0 V
2/4	6/7	20		0 V
1/2/3/4	8	PE		PE

The jumpers in the distribution box enable the potentials of 17 and 19 or 18 and 20 to be bridged. Contacts 6 and 7 are bridged in the 8-pole M12 in order to increase the current-carrying capacity. total current per M12: 2 A, signal current per pin: 1 A

Ordering data

Type	Qty.	Order No.
Complete module: SAI-4-M 8P M12	1	1807640000
Base separate: SAI-4-M M12 UT	1	1807641000
Matching hood passive: SAI-4/6/8-MH-BL3.5	1	1724750000

Technical information: The distribution box does not include any signalling LEDs. Supply LEDs and electrical isolation are provided

Fixed cable version

Fixed cable version



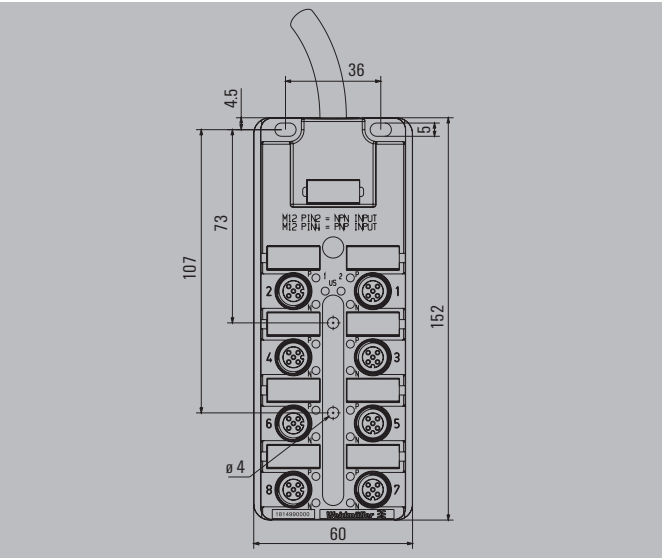
This distribution box includes the option of attaching either a PNP sensor or an NPN sensor with 2 or 3 conductor connection to an M12 socket.

Eight inputs are available in total. In the case of a switched sensor, a + signal on the corresponding wire is connected through and the appropriate LED is illuminated.

The upper LED “N” is illuminated for NPN sensors and the lower LED “P” for PNP sensors. Do not connect a T-piece to the M12 socket.

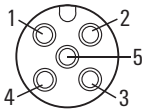
The existing M12 plug-in connectors are wired in such a manner that the PNP sensor can be connected to pin 4 and the NPN sensor to pin 2.

The distribution box has eight channels and 5 m of cable. Other versions are also available.

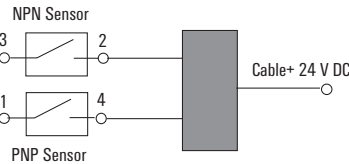


M12 sockets

Pin 1 = +24 V DC
Pin 2 = NPN Input
Pin 3 = 0 V DC
Pin 4 = PNP Input
Pin 5 = PE



Wiring diagram (schematic)



Pin assignment

M12 socket	Pin	Function	Pin	Function	Output	Wire colour	Wire size
1	4	PNP	2	NPN	1	white	0.34 mm ²
2	4	PNP	2	NPN	2	green	0.34 mm ²
3	4	PNP	2	NPN	3	yellow	0.34 mm ²
4	4	PNP	2	NPN	4	grey	0.34 mm ²
5	4	PNP	2	NPN	5	pink	0.34 mm ²
6	4	PNP	2	NPN	6	red	0.34 mm ²
7	4	PNP	2	NPN	7	black	0.34 mm ²
8	4	PNP	2	NPN	8	violet	0.34 mm ²
all	1	24 V DC				brown	0.75 mm ²
all	3	0 V DC				blue	0.75 mm ²
all	5	PE				green/yellow	0.75 mm ²

Technical data

Operating voltage	24 V DC ±20 %
Operation temperature	0...80 °C
Storage temperature	-25...80 °C
Ingress protection class	IP 68
PUR cable	5 m
Max. no-load current for 2-wire NPN sensors	2 mA DC

Ordering data

Type	Qty.	Order No.
SAL-8-F 5P NPN-PNP 5M	1	1814990000

Overview

Distribution boxes for system cabling

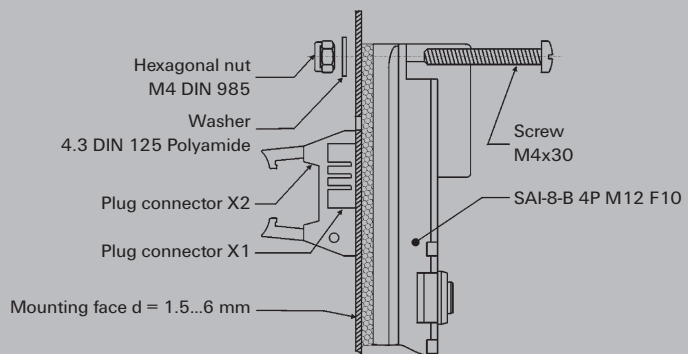
On site distribution is becoming more important. For example, in some places the IP 20 I/O module has to be mounted in housings directly on the machine. This is where a simplified form of wiring is essential.

Weidmüller now offers two simple solutions

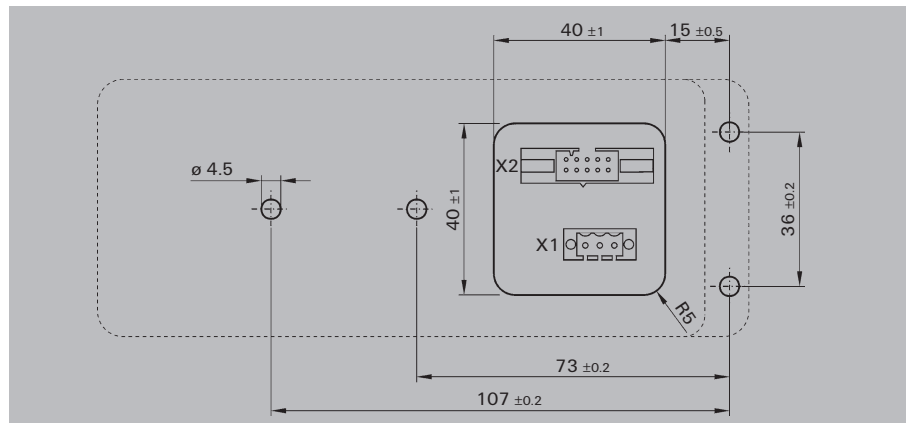
- A distribution box equipped at the rear with a standardised ribbon cable connector, which is compatible with the Weidmüller PLC system interface.
- Weidmüller also offers a unique solution for feeding bus cables through panels that can be plugged in from both sides.

Advantages

- Sensors and actuators can be plugged in from outside
- Through-panel version can be mounted in cut outs in steel panels
- Standardised ribbon cable connector inside
- Plus: M12 through-panel feed that can be plugged in from both sides



Drilling template



Advantages of system cabling

Fast

- Time saving installation
- Reduces commissioning and trouble-shooting times
- On site wiring cuts wiring costs

Safe

- Reduces installation errors
- Using system cables instead of individual wires improves clarity in control cabinets
- Direct marking corresponding to the PLC

Variability

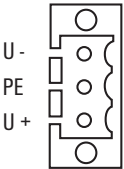
- Additional I/O modules available
- Cable length options
- Easy replacement of I/O interfaces provides flexibility

Contact assignment

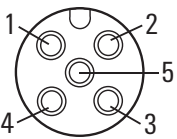
Male connector X1

M12 socket		Male connector X1
1 ... 8	Pin 1	U +
1 ... 8	Pin 3	U -
1 ... 8	Pin 5	PE

Male connector X1



M12 socket

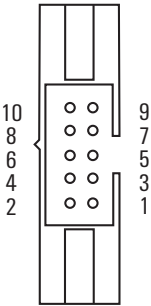


Contact assignment

Male connector X2

M12 socket		Male connector X2
1	Pin 4	1
2	Pin 4	2
3	Pin 4	3
4	Pin 4	4
5	Pin 4	5
6	Pin 4	6
7	Pin 4	7
8	Pin 4	8
1 - 8	Pin 1	9
1 - 8	Pin 3	10

Male connector X2



Note:

You will find further products for Interface units and PLC solutions in the Electronic catalogue 4.5.

Technical data

Operating voltage
Outputs
Inputs
Mounting conditions
Mounting surface
Surface temperature
Ingress protection class
Fixings
Note:

10 - 30 V (DC)
max. 1 A per channel / max. 8 A in total
max. 1 A in total
sheet steel, flat, min. 1.5 mm thick, or panels with at least equivalent stability, max. 6 mm thick
max. 40 °C
IP 67/IP 68 only in conjunction with control cabinets with equivalent class of protection
4 screws + washers + nuts / torque: 0.8 Nm
Connect the male connector 3.5 (X1) when using actuators

Ordering data

Distribution box
Male connector X1

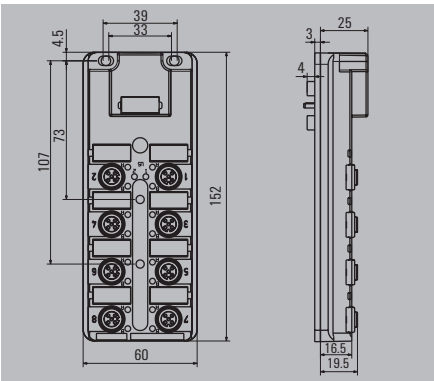
Type	Qty.	Order No.
SAI-8-B 4P M12 F10	1	1812170000
BL 3.50/07/180 SN OR BX	72	1597410000

M12 wall bushing

Wall bushing

- PNP switching
- With LEDs

SAI-8-B 5P M12 SL



Ordering data

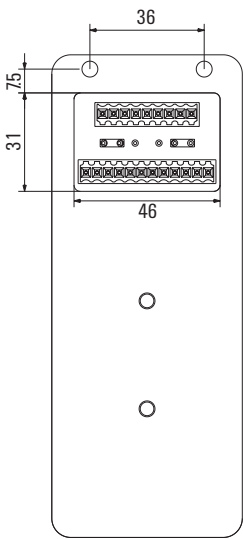
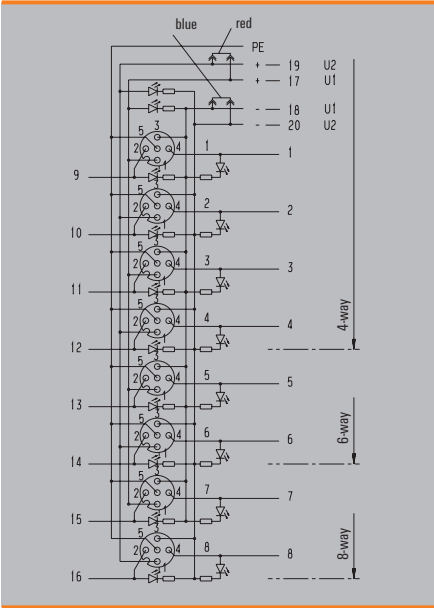
8-channel
Note

SAI-8-B 5P M12 SL		5-pole
Type	Qty.	Order No.
SAI-8-B 5P M12 SL	1	1847560000
BL 3.5 connector included in delivery		

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	3 A
Total current	10 A
Pollution severity	3
Protection degree	IP65
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



Pre-assembled hood version

In some cases, it can be advantageous to receive the hoods in pre-assembled form.

Here MF means: basic modules are supplied along with assembled hoods.

Here MHF are the assembled hoods only.

The wire cross-sections are $3 \times 1 \text{ mm}^2$ and $n \times 0.34 \text{ mm}^2$. The quality of conduction is identical to that of fixed cable distribution boxes.

Technical data can be found on pages W.2 and W.9



SAI distribution boxes with pre-assembled hood Colour-coded cable

Ordering data		4-pole
Type	Length	Order No.
8-channel		
SAI-8-MF 4P PUR 5M	5 m	1799960000
SAI-8-MF 4P PUR 10M	10 m	1789190000

Ordering data		5-pole
Type	Length	Order No.
4-channel		
SAI-4-MF 5P PUR 5M	5 m	1804600000
SAI-4-MF 5P PUR 10M	10 m	1804580000
8-channel		
SAI-8-MF 5P PUR 5M	5 m	1804590000
SAI-8-MF 5P PUR 10M	10 m	9457430000

Pre-assembled hood Colour-coded cable

Ordering data		4-pole
Type	Length	Order No.
SAI-4/6/8-MHF 4P PUR 4M	4 m	1791450400
SAI-4/6/8-MHF 4P PUR 6M	6 m	1791450600
SAI-4/6/8-MHF 4P PUR 9M	9 m	1791450900
SAI-4/6/8-MHF 4P PUR 14M	14 m	1791451400
SAI-4/6/8-MHF 4P PUR 20M	20 m	1791452000
SAI-4/6/8-MHF 4P PUR 28M	28 m	1791452800
SAI-4/6/8-MHF 4P PUR 34M	34 m	1791453400

Matching base module

Type	Qty.	Order No.
SAI-4-M-4PM12UT	1	1705921000
SAI-6-M-4PM12UT	1	1705931000
SAI-8-M-4PM12UT	1	1705941000

Pre-assembled hood

Ordering data		5-pole
Type	Length	Order No.
SAI-4/6/8-MHF 5P PUR 4M	4 m	1791460400
SAI-4/6/8-MHF 5P PUR 6M	6 m	1791460600
SAI-4/6/8-MHF 5P PUR 9M	9 m	1791460900
SAI-4/6/8-MHF 5P PUR 10M	10 m	1791461000
SAI-4/6/8-MHF 5P PUR 14M	14 m	1791461400
SAI-4/6/8-MHF 5P PUR 16M	16 m	1791461600
SAI-4/6/8-MHF 5P PUR 20M	20 m	1791462000
SAI-4/6/8-MHF 5P PUR 28M	28 m	1791462800
SAI-4/6/8-MHF 5P PUR 34M	34 m	1791463400
SAI-4/6/8-MHF 5P PUR 40M	40 m	1791464000
SAI-4/6/8-MHF 5P PUR 50M	50 m	1791465000
SAI-4/6/8-MHF 5P PUR 55M	55 m	1791465500

Matching base module

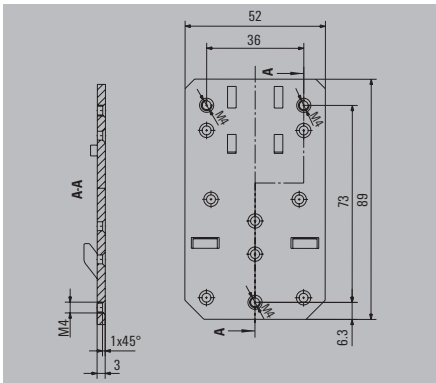
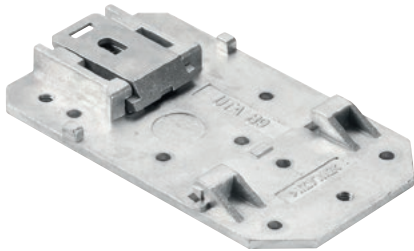
Type	Qty.	Order No.
SAI-4-M-5PM12UT	1	1701231000
SAI-6-M-5PM12UT	1	1701241000
SAI-8-M-5PM12UT	1	1701251000

M12 distribution boxes accessories

Protective cap for hooded distribution boxes,
empty,
Terminal rail foot for distribution boxes

SAI-4/6/8-MH LEER

SAI-TS35 MF



Ordering data

Mounting hood	Empty
Note	

SAI-4/6/8-MH LEER

4-pole

Type	Qty.	Order No.
SAI-4/6/8-MH LEER	1	1783460000
Other versions on request		

SAI-TS35 MF

Type	Qty.	Order No.
SAI-TS35 MF	1	1917400000

Passive M8 distribution boxes

As industrialisation advances, more and more sensors and actuators are being used in the field. To bundle these many different cables and avoid long cable lengths, we recommend using passive sensor-actuator distribution boxes.

We offer M8 distribution boxes for your application, tailored to your requirements! Special wiring or fitting options are available upon request!

Range of connection options:

- Cover versions
- Fixed cable versions
- M12 / M16 / M23 group output

Housing variants

- Line (single row) and standard distribution boxes (double row)
- 4, 6, 8, 10 and 12x distribution
- 3 and 4-pole I/O sockets
- Plastic and metal housing



**Safe wiring**

100% safety with pre-assembled distribution boxes

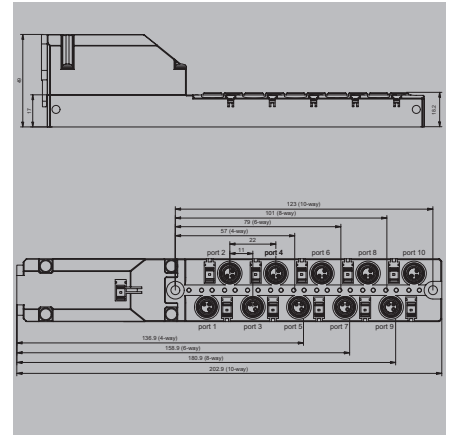
**Space-saving**

The line version has a very small size.

M8 distribution boxes

Hood version with PUSH IN connection

- PNP switching
- Hoods with plastic screw connection



Ordering data

Complete modules		
with LEDs	4 plug-in stations	
with LEDs	6 plug-in stations	
with LEDs	8 plug-in stations	
with LEDs	10 plug-in stations	
Base unit		
with LEDs	4 plug-in stations	
with LEDs	6 plug-in stations	
with LEDs	8 plug-in stations	
with LEDs	10 plug-in stations	
Mounting hood with assembled cable		
5.0 m, PUR	4 plug-in stations	
5.0 m, PUR	6 plug-in stations	
5.0 m, PUR	8 plug-in stations	
5.0 m, PUR	10 plug-in stations	
10.0 m, PUR	4 plug-in stations	
10.0 m, PUR	6 plug-in stations	
10.0 m, PUR	8 plug-in stations	
10.0 m, PUR	10 plug-in stations	
Mounting hood empty		
	PUSH IN connection	
Note		

SAI-04/06/08/10Z

Type	Qty.	Order No.	3-pole
SAI-04Z-VPPP-3A-M08L-PNP	1	2818930000	
SAI-06Z-VPPP-3A-M08L-PNP	1	2818940000	
SAI-08Z-VPPP-3A-M08L-PNP	1	2818950000	
SAI-10Z-VPPP-3A-M08L-PNP	1	2818960000	
SAI-04Z-VPUT-3A-M08L-PNP	1	2819010000	
SAI-06Z-VPUT-3A-M08L-PNP	1	2819020000	
SAI-08Z-VPUT-3A-M08L-PNP	1	2819030000	
SAI-10Z-VPUT-3A-M08L-PNP	1	2819040000	
SAI-04Z-MXPP-3A-M08L-PNP-05U01	1	2819090000	
SAI-06Z-MXPP-3A-M08L-PNP-05U02	1	2819100000	
SAI-08Z-MXPP-3A-M08L-PNP-05U03	1	2819110000	
SAI-10Z-MXPP-3A-M08L-PNP-05U04	1	2819120000	
SAI-04Z-MXPP-3A-M08L-PNP-10U01	1	2819130000	
SAI-06Z-MXPP-3A-M08L-PNP-10U02	1	2819140000	
SAI-08Z-MXPP-3A-M08L-PNP-10U03	1	2819150000	
SAI-10Z-MXPP-3A-M08L-PNP-10U04	1	2819160000	
SAI-XXZ-MXPP-4X-M08X-XXX	1	2819250000	
Plastic screw connection included in the standard scope of delivery.			

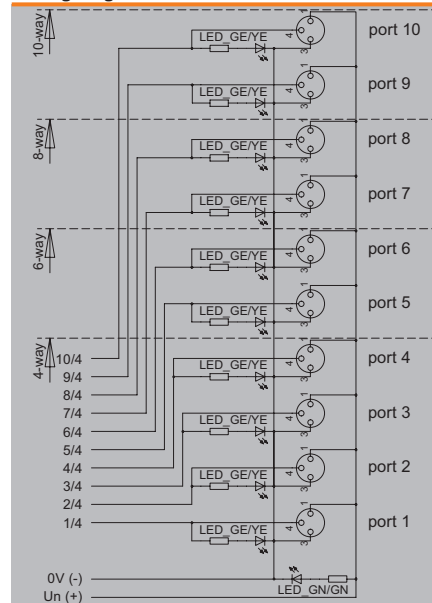
SAI-04/06/08/10Z

Type	Qty.	Order No.	4-pole
SAI-04Z-VPPP-4A-M08L-PNP	1	2818970000	
SAI-06Z-VPPP-4A-M08L-PNP	1	2818980000	
SAI-08Z-VPPP-4A-M08L-PNP	1	2818990000	
SAI-10Z-VPPP-4A-M08L-PNP	1	2819000000	
SAI-04Z-VPUT-4A-M08L-PNP	1	2819050000	
SAI-06Z-VPUT-4A-M08L-PNP	1	2819060000	
SAI-08Z-VPUT-4A-M08L-PNP	1	2819070000	
SAI-10Z-VPUT-4A-M08L-PNP	1	2819080000	
SAI-04Z-MXPP-4A-M08L-PNP-05U03	1	2819170000	
SAI-06Z-MXPP-4A-M08L-PNP-05U05	1	2819180000	
SAI-08Z-MXPP-4A-M08L-PNP-05U06	1	2819190000	
SAI-10Z-MXPP-4A-M08L-PNP-05U07	1	2819200000	
SAI-04Z-MXPP-4A-M08L-PNP-10U03	1	2819210000	
SAI-06Z-MXPP-4A-M08L-PNP-10U05	1	2819220000	
SAI-08Z-MXPP-4A-M08L-PNP-10U06	1	2819230000	
SAI-10Z-MXPP-4A-M08L-PNP-10U07	1	2819240000	
SAI-XXZ-MXPP-4X-M08X-XXX	1	2819250000	
Plastic screw connection included in the standard scope of delivery.			

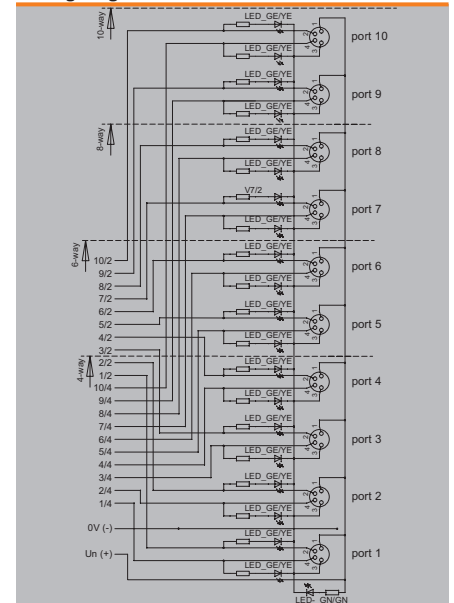
Technical data

Operating voltage	15...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	6 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PBT
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	black (similar to RAL 9005)
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable	No
(fixed cable connection)	

Wiring diagram



Wiring diagram



Line

with M12 group outlet

- PNP switching
- With LEDs

SAI-4/6-S

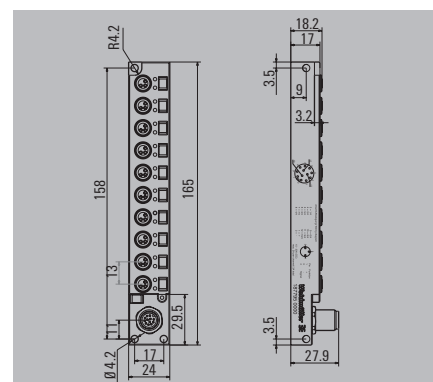
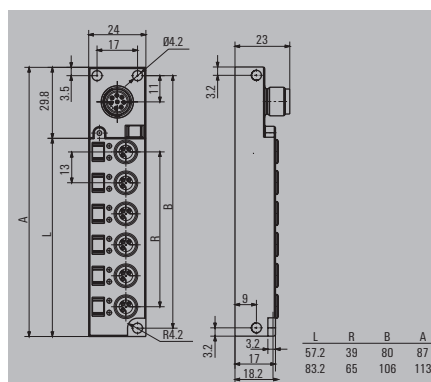
M12 outlet, 8-pole



c RL US

SAI-8/10-S

M12 outlet, 12-pole



Ordering data

3-pole	
4 plug-in stations	
6 plug-in stations	
10 plug-in stations	
8 plug-in stations	
3-pole only Power LED for analogue signals	
4 plug-in stations	
6 plug-in stations	
8 plug-in stations	
Note	

SAI-4/6-S

M12

Type	Qty.	Order No.
SAI-04L-VP12-3A-M08L-PNP	1	1828740000
SAI-06L-VP12-3A-M08L-PNP	1	1828730000
SAI-04L-VP12-3A-M080-PNP	1	1051760000
SAI-06L-VP12-3A-M080-PNP	1	1932380000
Other versions on request		

SAI-8/10-S

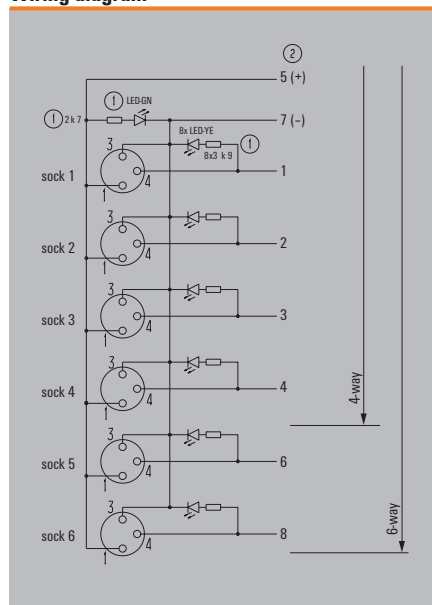
M12

Type	Qty.	Order No.
SAI-10L-VP12-3A-M08L-PNP	1	1877950000
SAI-08L-VP12-3A-M08L-PNP	1	1871680000
SAI-8-S12 3P M8 L OL	1	1116330000
Other versions on request		

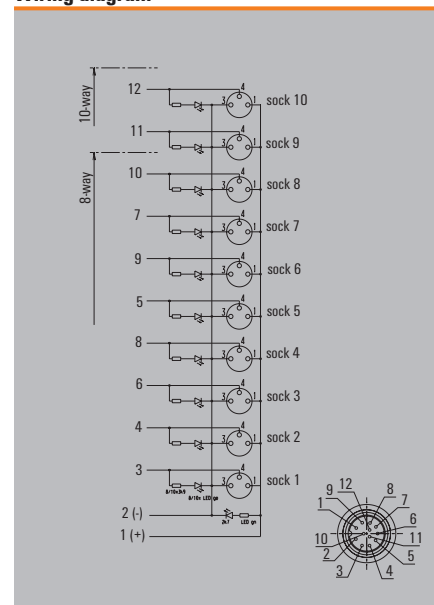
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	PBT
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	black (similar to RAL 9005)
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



Wiring diagram



M8 distribution boxes

Line

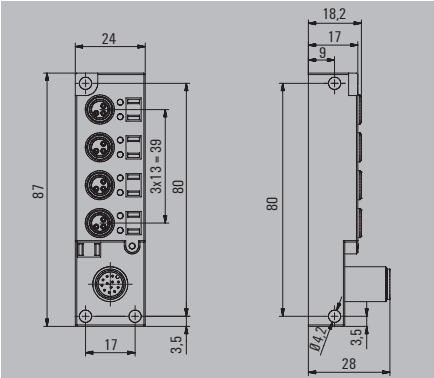
1:1

with M12 group outlet

- PNP switching
- With LEDs

SAI-4-S12 M8 L 1:1

M12 outlet, 12-pole



Ordering data

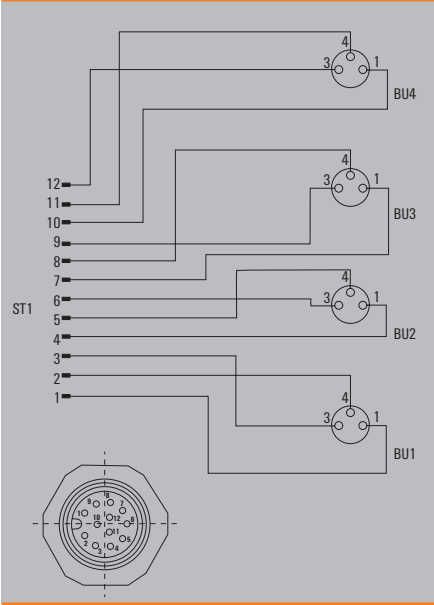
3-pole	
	4 plug-in stations
Note	

SAI-4-S12 M8 L 1:1		M12
Type	Qty.	Order No.
SAI-04L-VP12-3A-M08L-1:1	2	1449400000
Other versions on request		

Technical data

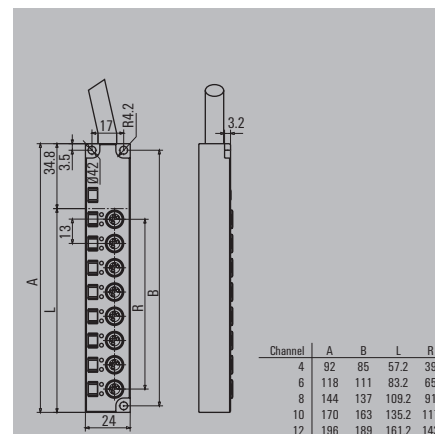
Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	PBT
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	black (similar to RAL 9005)
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



Line / Fixed cable version

- PNP switching
- With LEDs



Ordering data

Cable length 5 m (with fixed cable version)	
4 plug-in stations	
6 plug-in stations	
10 plug-in stations	
8 plug-in stations	
12 plug-in stations	
Cable length 10 m (with fixed cable version)	
4 plug-in stations	
6 plug-in stations	
10 plug-in stations	
8 plug-in stations	
12 plug-in stations	
Note	

SAI-4/6/8/10/12-L

3-pole

Type	Qty.	Order No.
SAI-04L-VPFC-3A-M08L-PNP-05U01	1	1828720000
SAI-06L-VPFC-3A-M08L-PNP-05U02	1	1828700000
SAI-10L-VPFC-3A-M08L-PNP-05U04	1	1828660000
SAI-08L-VPFC-3A-M08L-PNP-05U03	1	1828680000
SAI-12L-VPFC-3A-M08L-PNP-05U05	1	1828640000
SAI-04L-VPFC-3A-M08L-PNP-10U01	1	1828710000
SAI-06L-VPFC-3A-M08L-PNP-10U02	1	1828690000
SAI-10L-VPFC-3A-M08L-PNP-10U04	1	1828650000
SAI-08L-VPFC-3A-M08L-PNP-10U03	1	1828670000
SAI-12L-VPFC-3A-M08L-PNP-10U05	1	1828630000

SAI-4/6/8/10/12-L

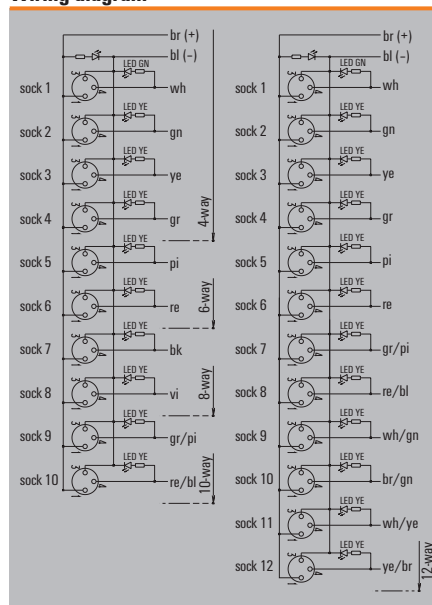
4-pole

Type	Qty.	Order No.
SAI-04L-VPFC-4A-M08L-PNP-05U03	1	1849680000
SAI-06L-VPFC-4A-M08L-PNP-05U05	1	1849700000
SAI-08L-VPFC-4A-M08L-PNP-05U06	1	1828620000
SAI-04L-VPFC-4A-M08L-PNP-10U03	1	1849690000
SAI-06L-VPFC-4A-M08L-PNP-10U05	1	1849670000
SAI-08L-VPFC-4A-M08L-PNP-10U06	1	1828610000

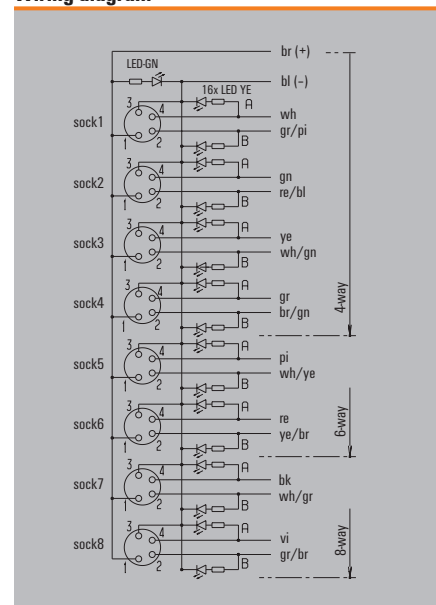
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	PBT
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	black (similar to RAL 9005)
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Wiring diagram



Wiring diagram



Distribution boxes with integrated logic

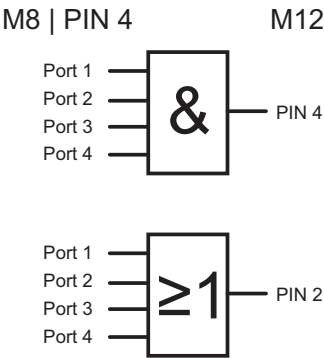
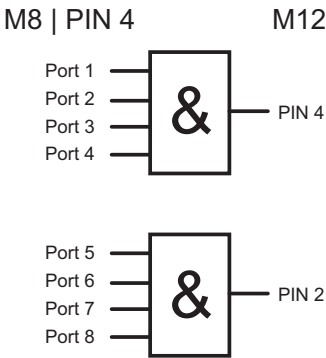
Distribution boxes with integrated logic	Introduction	F.2
	Distribution boxes with integrated logic	F.3
	Terminator resistor - Bridge	F.5

Distribution boxes with integrated logic

In mechanical engineering, many sensors have to be wired and combined on a regular basis. For this, it is usually necessary to carry out the complete wiring to the PLC. Distribution boxes with integrated logic from Weidmüller can convert logical links in the distribution box, thereby shortening installation time.

Your special advantages

- Very small design
- Combination of four signals to an AND or OR circuit
- Connection via a four-pin M12 connector



And-Conjunction with M12 outlet



Ordering data

Complete modules	
	4 plug-in stations
	8 plug-in stations
Note	

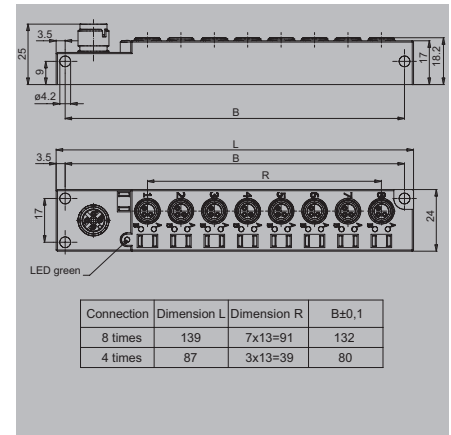
SAI-4-S

Type	Qty.	Order No.
SAI-04L-VP12-3A-M08L-AND	1	2512800000
3-pole		

SAI-8-S

Type	Qty.	Order No.
SAI-08L-VP12-3A-M08L-AND	1	2512820000
3-pole		

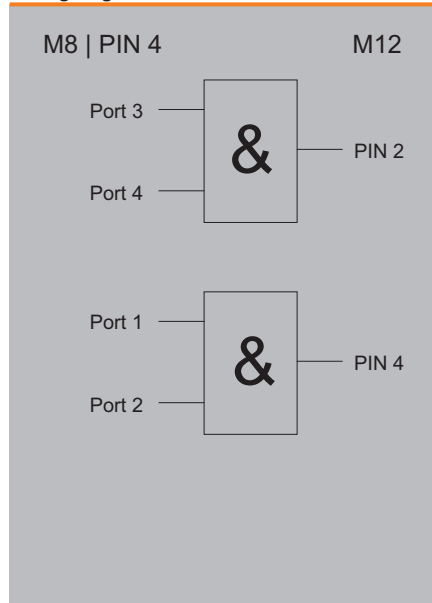
Distribution boxes with integrated logic



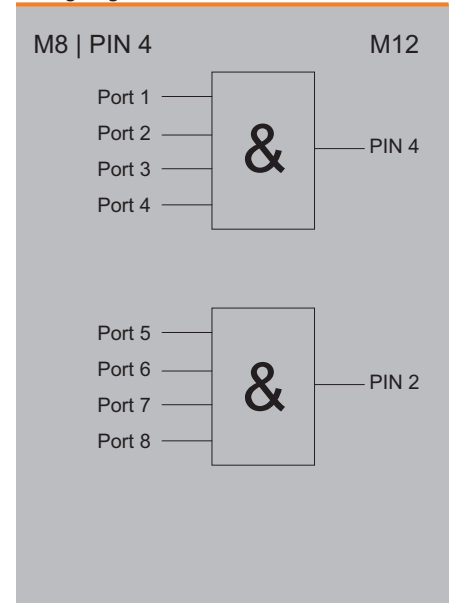
Technical data

Operating voltage	15...30 V
Current of continuous busbars	
Max. current-carrying capacity per slot	500 mA
Total current	2 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	PBT
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	Nickel-plated CuZn
Screw socket	Nickel-plated CuZn
Housing colour	black (similar to RAL 9005)
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram

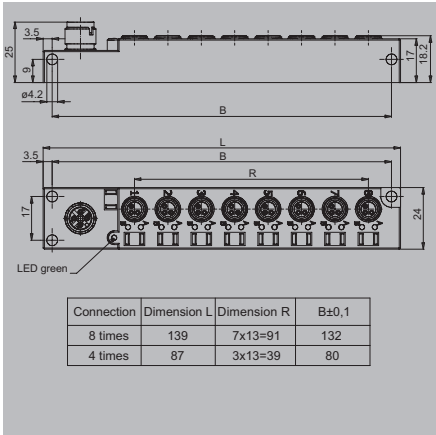


Wiring diagram



Distribution boxes with integrated logic

And-/Or-Conjunction
with M12 outlet



Ordering data

Complete modules	4 plug-in stations 8 plug-in stations
Note	

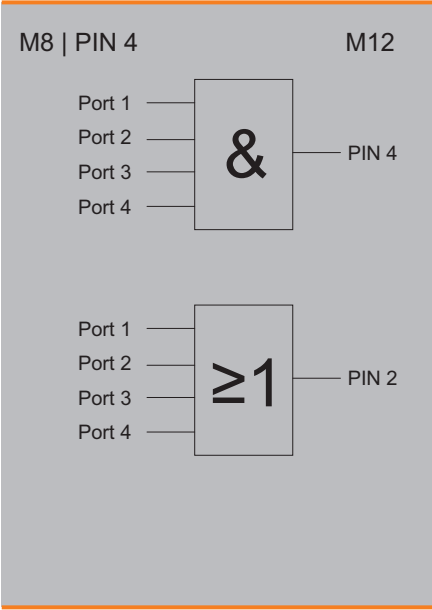
SAI-4-S		3-pole
Type	Qty.	Order No.
SAI-04L-VP12-3A-M08L-LOG	1	2512390000

SAI-8-S		3-pole
Type	Qty.	Order No.
SAI-08L-VP12-3A-M08L-LOG	1	2512810000

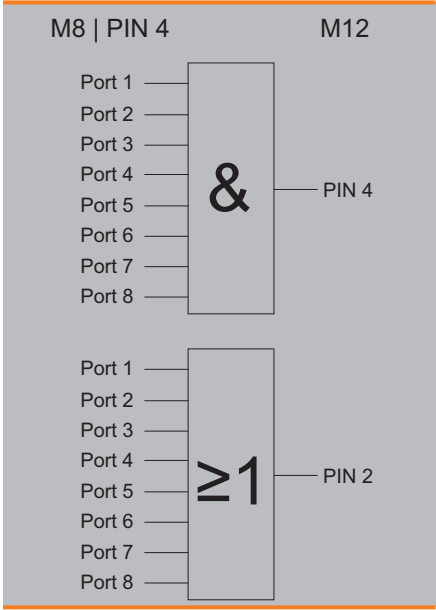
Technical data

Operating voltage	15...30 V
Current of continuous busbars	
Max. current-carrying capacity per slot	500 mA
Total current	2 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	PBT
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	Nickel-plated CuZn
Screw socket	Nickel-plated CuZn
Housing colour	black (similar to RAL 9005)
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



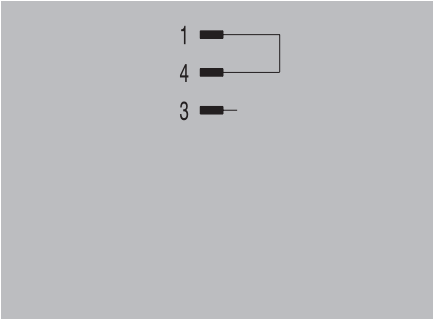
Wiring diagram



Terminator resistor - Bridge

M8

Bridge between 1+4



Ordering data

Type	Qty.	Order No.
SAIEND 1/4 M8G 3P	1	2662450000
Other versions on request		

Ex distribution boxes

Ex distribution boxes	Introduction	G.2
	M12 Ex distribution boxes	G.4

Ex distribution boxes with ATEX and IECEx approval

Standardised wiring of sensors in explosion-protected areas

Our new Ex distribution boxes bundle signals, minimise wiring effort and speed up work processes. A basic requirement for efficient automation, where more and more actuators have to be wired in the field.

The Ex distribution boxes are ATEX- and IECEx-approved. They are used in explosion-protected areas for the transmission of intrinsically safe circuits up to and including Zone 1. With the integrated PUSH IN connection, they enable particularly fast, safe and efficient cabling in the field. The different wiring variants enable the transmission of up to eight different intrinsically safe circuits.

Standardised distribution boxes for explosion-protected areas

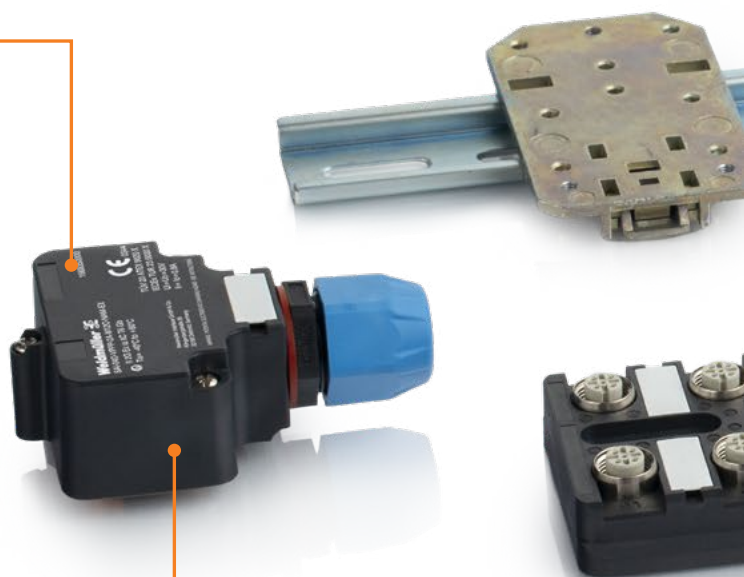
The Ex distribution boxes are already equipped with Ex approvals. There is no need for individual approval, which simplifies installation and commissioning in potentially explosive environments.



IECEx

Quick and easy

Our new Ex distribution boxes are much more compact and quicker to install than the typical wiring in explosion-protected areas with terminal boxes.

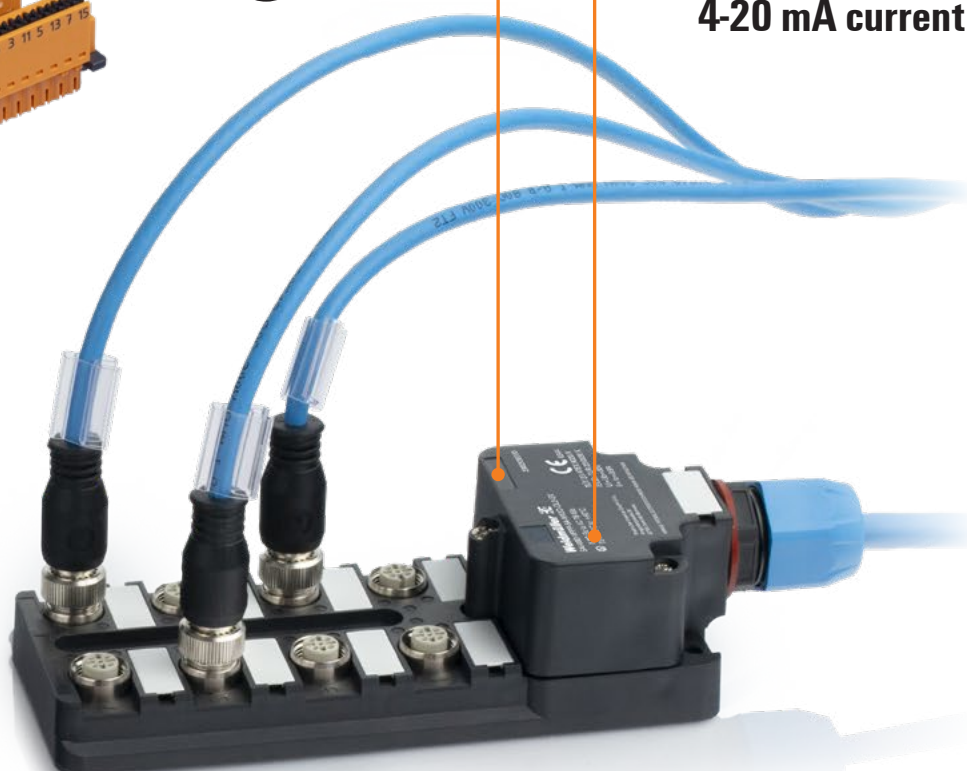


PUSH IN connection technology

With the help of socket connectors with PUSH IN connection technology, the single wires can be connected quickly and securely both with and without ferrules. This saves you valuable cabling time.

PUSH IN

**1:1
Namur
Standard-PNP
4-20 mA current loops**

**Plastic and zinc diecast hood**

As standard, we offer passive distribution boxes with a plastic hood (PBT). If there is not enough space inside the hood, you can also choose a version with a die-cast zinc hood. This has a higher design and offers more space for the wiring inside the hood.

M12 Ex distribution boxes

M12 Ex distribution boxes

- PBT base module
- 2-conductor connection
- Without LEDs

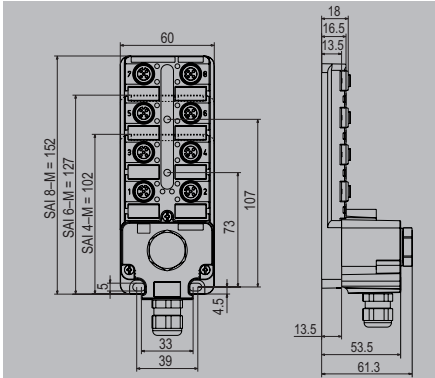
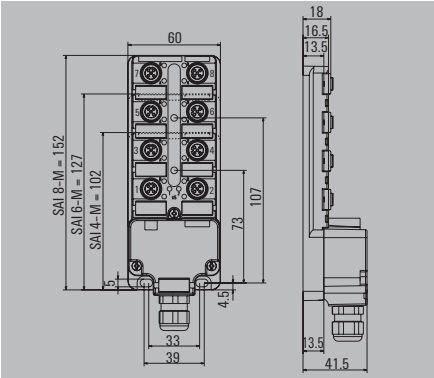
SAI-04/08D

PBT hood



SAI-04/08D

Zinc diecast Hood



Ordering data

2-pole	
	4 plug-in stations
	8 plug-in stations
Note	

SAI-04/08D

Type	Qty.	M12 Order No.
SAI-04D-VPPP-2A-M120-NAM-EX	1	1868350000
SAI-08D-VPPP-2A-M120-NAM-EX	1	1894380000

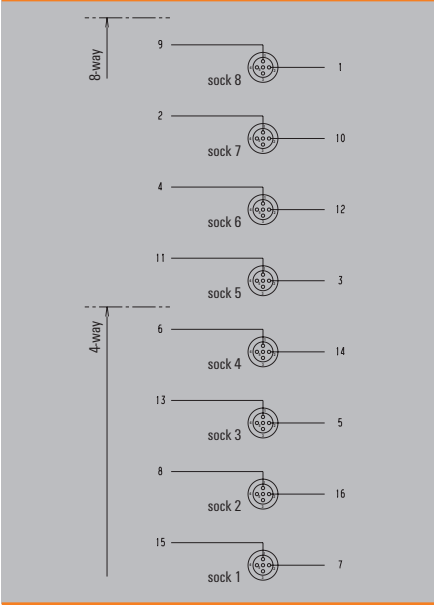
SAI-04/08D

Type	Qty.	M12 Order No.
SAI-04D-VPHP-2A-M120-NAM-EX	1	2921100000
SAI-08D-VPHP-2A-M120-NAM-EX	1	2921120000

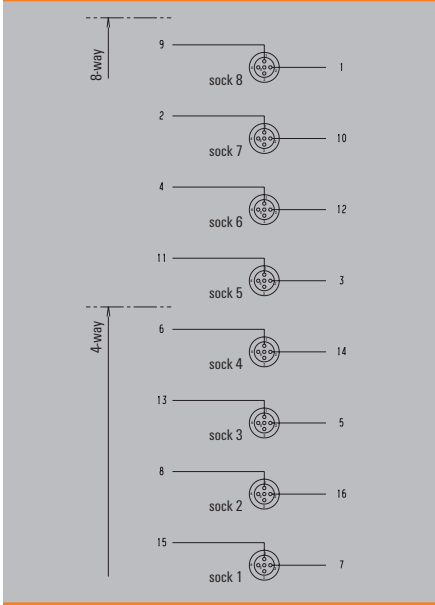
Technical data

Operating voltage	0...30 V
Current per signal	0.8 A
Max. current-carrying capacity per slot	0.8 A
Total current	0.8 A
Pollution severity	3
Protection degree	IP66, IP67
Operating temperature	-40 - 60°C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Contact material	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	black (similar to RAL 9005)
Fire behaviour	V-0
Clamping range of hood-version	0.14...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



Wiring diagram

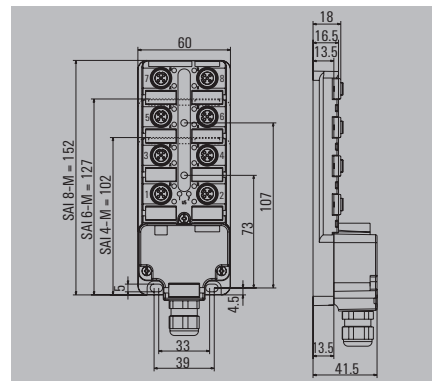


M12 Ex distribution boxes

- PBT base module
- 1:1 connection
- Without LEDs

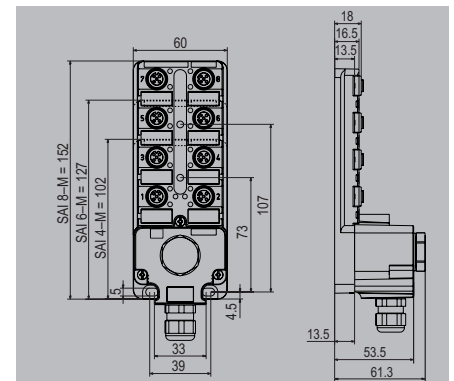
SAI-04D

PBT hood



SAI-04D

Zinc diecast Hood



Ordering data

5-pole	4 plug-in stations
Note	

SAI-04D

M12

Type	Qty.	Order No.
SAI-04D-VPPP-5A-M120-1:1-EX	1	2902950000

SAI-04D

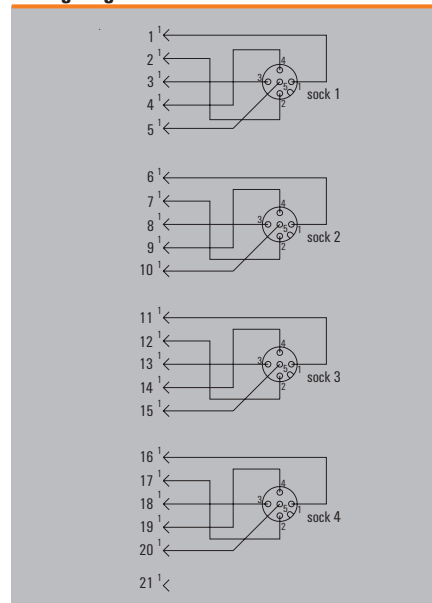
M12

Type	Qty.	Order No.
SAI-04D-VPHP-5A-M120-1:1-EX	1	2921150000

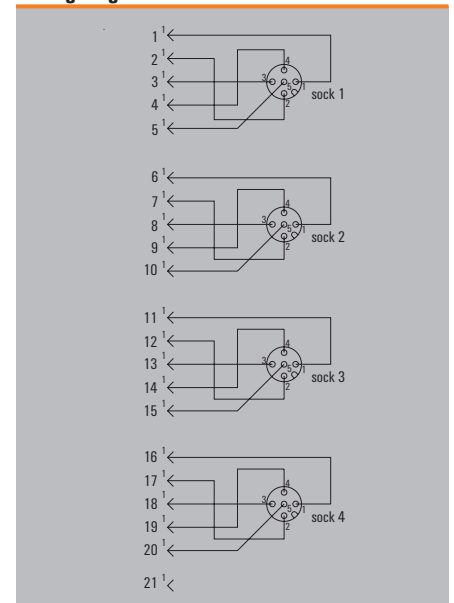
Technical data

Operating voltage	0...30 V
Current per signal	0.8 A
Max. current-carrying capacity per slot	0.8 A
Total current	0.8 A
Pollution severity	3
Protection degree	IP66, IP67
Operating temperature	-40 - 60°C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Contact material	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	black (similar to RAL 9005)
Fire behaviour	V-0
Clamping range of hood-version	0.14...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



Wiring diagram



M12 Ex distribution boxes

M12 Ex distribution boxes

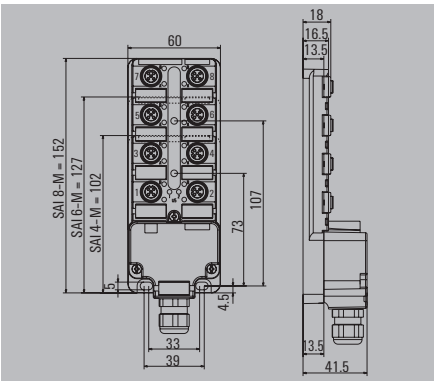
- PBT base module
- PNP switching
- Without LEDs

SAI-04/08D

PBT hood



IEC EX

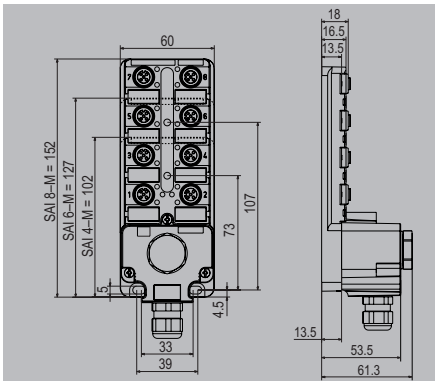


SAI-04/08D

Zinc diecast Hood



IEC EX



Ordering data

5-pole	
	4 plug-in stations
	8 plug-in stations
Note	

SAI-04/08D

M12

Type	Qty.	Order No.
SAI-04D-VPPP-5A-M120-0L2-EX	1	2943810000
SAI-08D-VPPP-5A-M120-0L2-EX	1	2902930000

SAI-04/08D

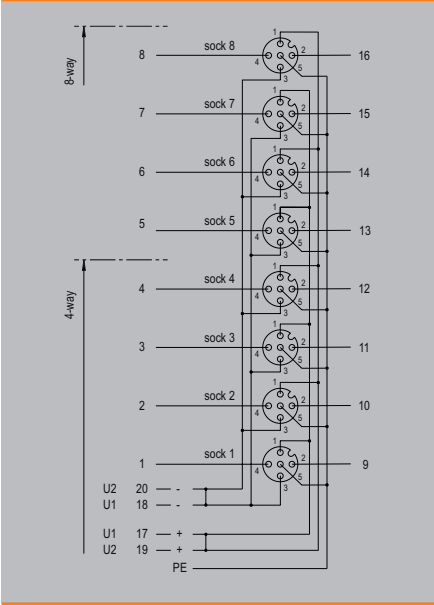
M12

Type	Qty.	Order No.
SAI-04D-VPHP-5A-M120-0L2-EX	1	2943800000
SAI-08D-VPHP-5A-M120-0L2-EX	1	2921130000

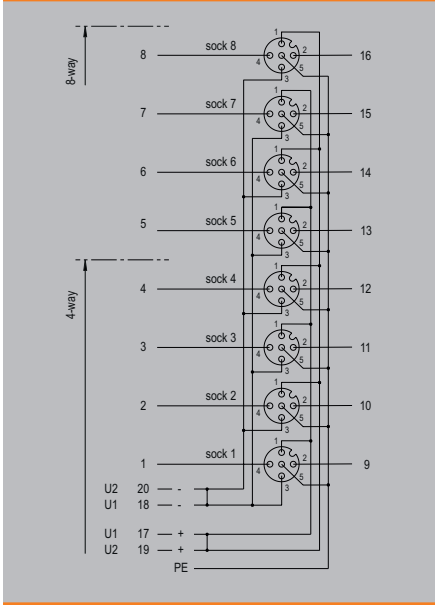
Technical data

Operating voltage	0...30 V
Current per signal	0.8 A
Max. current-carrying capacity per slot	0.8 A
Total current	0.8 A
Pollution severity	3
Protection degree	IP66, IP67
Operating temperature	-40 - 60°C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Contact material	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	black (similar to RAL 9005)
Fire behaviour	V-0
Clamping range of hood-version	0.14...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



Wiring diagram



Weidmüller Industry Light (WIL)

Weidmüller Industry Light (WIL)	Introduction	H.2
	LED expertise	H.5
	Weidmüller Industry Light - Series WIL-V	H.6
	Weidmüller Industry Light - Series WIL-L	H.7
	Weidmüller Industry Light - Series WIL-E	H.11
	Weidmüller Industry Light - Series WIL-S	H.14

The WIL series: L, E and S

Perfectly tailored to your application

Thanks to the voltage range of 12...30 V (Premium variants), the new WIL series are perfectly tailored to various individual applications. The light color of 5700 K can also be continuously dimmed for all luminaires.

L-Series



Protected

Different covers for the LEDs make the luminaire ideal for use in machine interiors.

Easy to connect

Thanks to M12 connection technology, the lights are easy to connect via plug-and-play.

Easy to mount and swivel

The rotatable mounting brackets with existing drill holes allow a flawless direct mounting and subsequent positioning of the lighting field.

Modular series connection

With only one power supply, the luminaire enables modular series connection.

E-Series



Protected

The lens made of robust PMMA not only provides the necessary protection, but also ensures homogeneous illumination.

Easy to connect

Thanks to M8 connection technology, the lights are easy to connect via plug-and-play.

Focused light

With focused rather than diffused light, the luminaire provides an optimal way to illuminate individual work areas.

S-Series



Robust and protected

Thanks to full encapsulation of the premium variant, high tightness and additional protection against ingress of solid foreign bodies $\geq 1.0\text{mm}$ (IP69). This enables use in machine interiors.

Easy to connect

Thanks to M8 connection technology, the lights are easy to connect via plug-and-play.

Compact design

Different lengths and a flat installation height of approx. 18mm allow optimal space saving in machines and systems.

Optimal illumination for control cabinets and field application

Weidmüller Industry Light (WIL) - a solution for all requirements

The control cabinet is often a working area that is poorly lit. There is a demand here for a space-saving, bright yet affordable solution. The WIL all-rounder was developed in close cooperation with the industry and is the answer to its specialist requirements.

The compact LED light illuminates the surroundings with a wide beam of light. Its mounting dimensions perfectly meet the requirements of a standard control cabinet, the robust IP67 housing makes the WIL particularly suitable for industrial use, and means that it can be mounted in the control cabinet or directly in the field.

Now experience the combination of innovation and trusted quality! Designed with an elegant LED glass cover and an efficient LED board concept, this luminaire offers the same brilliant lighting as before. Thanks to the identical drill hole spacing, it is easily interchangeable 1:1 with the familiar version.



Selection table



	WIL-E	WIL-L	WIL-S
Voltage	24 V DC Standard / 12...30 V DC Professional	24 V DC Standard / 12...30 V DC Professional	24 V DC Standard / 12...30 V DC Professional
Technical features			
Length	140...1400 mm	190...1040 mm	140...1400 mm
Height	35 mm	42 mm	17,5 mm
Protection degree	IP54	IP67	IP40 - IP69K
Material of LED cover	PMMA	PMMA and ESG*	PUD potting and PMMA
Connection type	M8	M12	M8
Light colour	5700 K	5700 K	5700 K
Swiveling	Yes	Yes	No
Mounting type	Srew	Srew	Srew
Dimmability	Yes	Yes	Yes
Temperature range	-20...45 °C	-20...45 °C	-20...45 °C
Lifetime at 21°C	60.000 h	60.000 h	60.000 h
Approvals	CE, cURus	CE, cURus	CE, cURus
Applications			
Control cabinet lighting	○	○	○
Standard mechanical engineering	●	●	●
Logistic	●	●	●
Machine tools incl. lubricants	-	●	○
Highest requirements for indoor and outdoor use (IP69K)	-	-	●
Fire protection areas	-	-	●
(Weights for fire load on request)			

* Toughened safety glass

Designation key of the WIL families



Designation key WIL-E, -S, -L and Vario

WIL - L	XXXX	- RXSS	4000	- X190	M12X	S
L -Series	XXXX I LED white	RXSS Round Standard Swiveling	4000 4000 Kelvin	X140 140 mm	M12X M12 male straight	S Srew connection
E -Series	RGBX LED (red, green, blue)	RXPS Round Pro Swiveling	5000 5000 Kelvin	X190 190 mm	M12D M12 male straight to M12 female straight	N Groove connection
S -Series	RGBW LED (red, green, blue, white)	RHPS Round High Class Swiveling	5700 5700 Kelvin	X280 280 mm	M8XX M8 male straight	X0 Angle of radiation 0°
...	...	FXSF Flat Standard Fixed	6500 6500 Kelvin	X365 365 mm	M8DX M8 male straight to M8 female straight	30 Angle of radiation 30°
		FXPF Flat Pro Fixed	...	X420 420 mm	...	60 Angle of radiation 60°
		FPPF Flat Potting Pro Fixed		X540 540 mm		...
		...		X560 560 mm		
				X700 700 mm		
				X715 715 mm		
				X840 840 mm		
				X980 980 mm		
				1040 1040 mm		
				1120 1120 mm		

LED expertise

Lumen

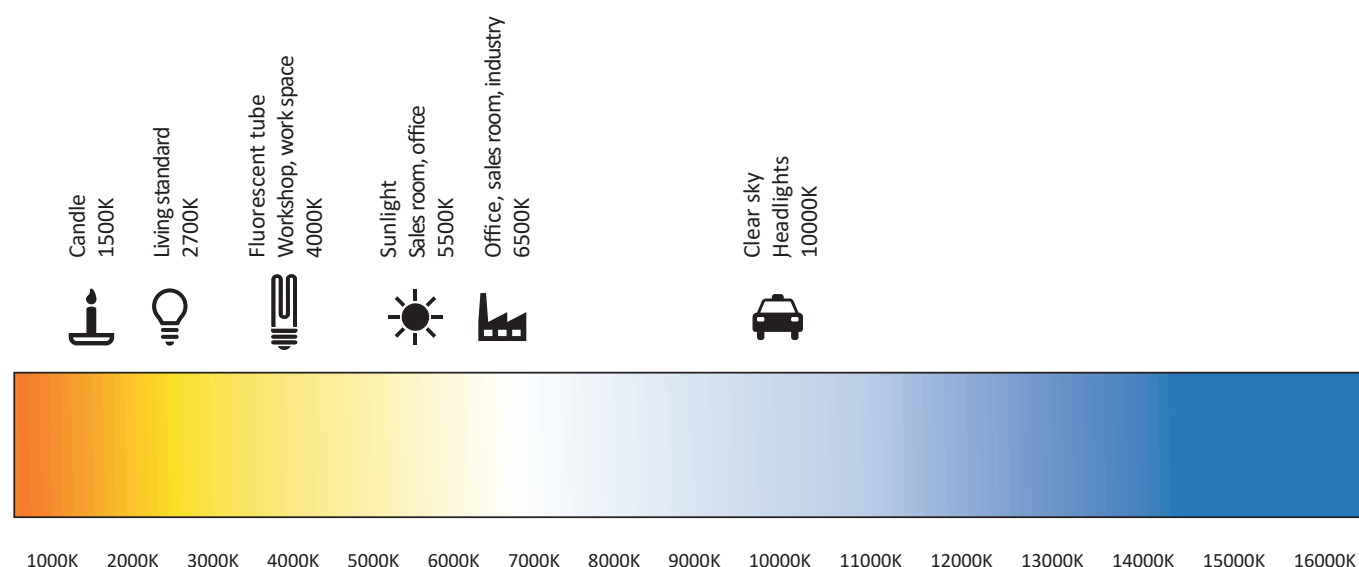
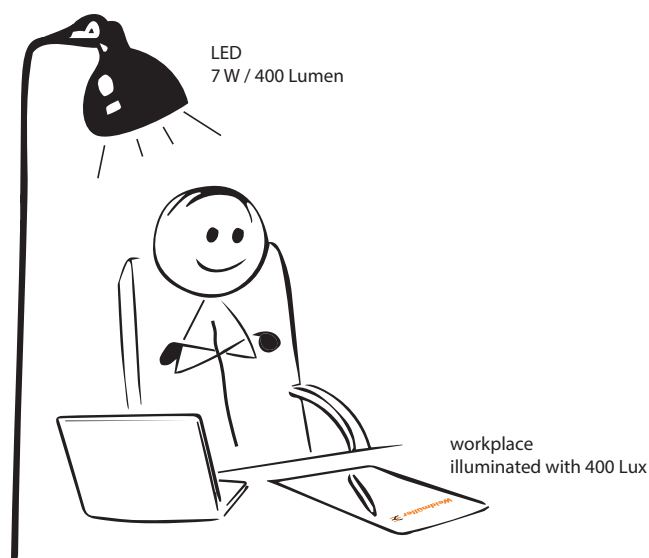
The unit lumen denotes the total light output of a light source. This light output is called luminous flux. Luminous flux is measured per watt, and is used for the quality assurance of light sources.

Lux

The lux unit is more limited and precise than the lumen unit. This unit is used to calculate the amount of light (luminous flux) that falls on a certain, clearly defined area. This could be a tabletop or a sheet of paper for example.

Kelvin

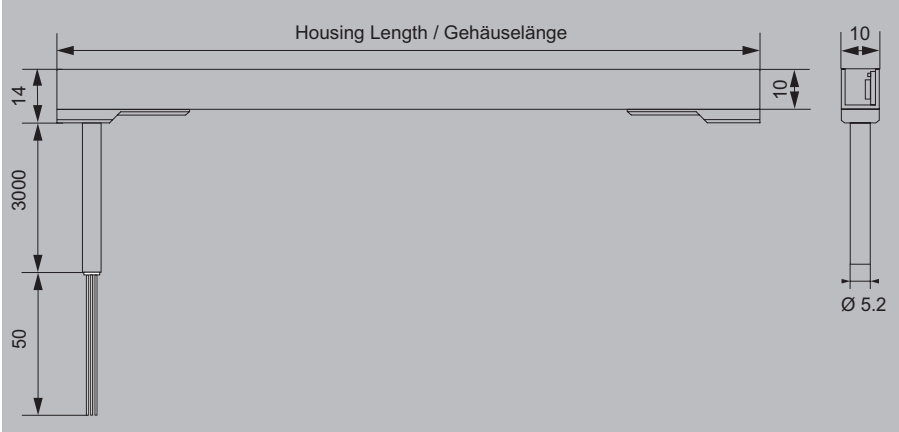
The kelvin unit indicates the colour temperature of a light source. The kelvin value of a lamp indicates whether the lamp emits warm light or cool light. A lamp with a low kelvin value provides warm white light. The higher the kelvin value, the cooler the lighting effect.



Weidmüller Industry Light – Series WIL-V

Rated voltage 5 V DC

Light colour red, green, blue, white



Technical data

Rated voltage	≤ 5 V DC
Wiring	Brown: +5 V DC, Green: GND, White: Data
Protection degree	IP67
Depth	10 mm
Height	10 mm
Approvals	

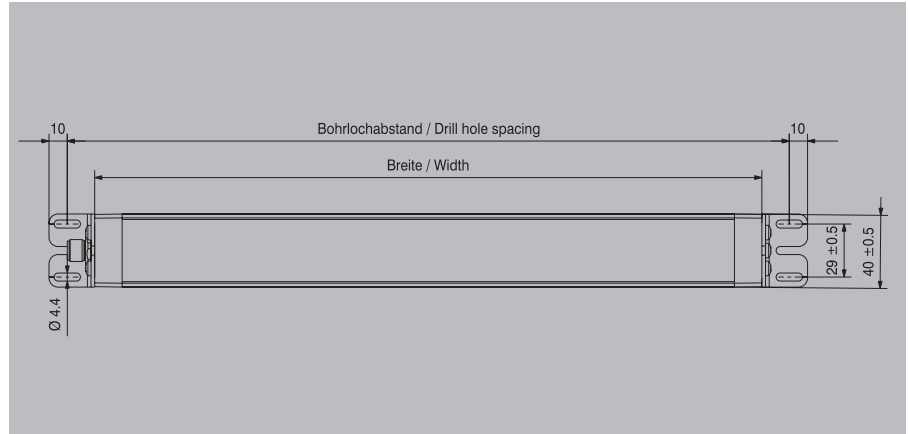
Note

Ordering data

Type	Encapsulation compound	Connection thread	Power	Qty.	Order No.
Housing length 265 mm					
WIL-VRGBW-FPPF-XXXX-X265-X	PUR V0	without	1.2 W	1	3101700000
Housing length 325 mm					
WIL-VRGBW-FPPF-XXXX-X325-X	PUR V0	without	1.4 W	1	3138120000
Housing length 400 mm					
WIL-VRGBW-FPPF-XXXX-X400-X	PUR V0	without	1.8 W	1	3138110000
Housing length 465 mm					
WIL-VRGBW-FPPF-XXXX-X465-X	PUR V0	without	2.1 W	1	3101690000
Housing length 600 mm					
WIL-VRGBW-FPPF-XXXX-X600-X	PUR V0	without	3.7 W	1	3138100000
Housing length 800 mm					
WIL-VRGBW-FPPF-XXXX-X800-X	PUR V0	without	3.6 W	1	3138090000
Housing length 1000 mm					
WIL-VRGBW-FPPF-XXXX-1000-X	PUR V0	without	4.5 W	1	3101680000
Note					

Rated voltage 24 V DC

Light colour 5700 K



Technical data

Rated voltage	24 V DC
Wiring	Pin 1: control white LED 24V DC, Pin 2: NC, Pin 3: GND(-), Pin 4: NC, Pin 5: NC
Protection degree	IP67
Depth	40 mm
Height	42 mm
Approvals	CE; cURus; UKCA

Note

Ordering data

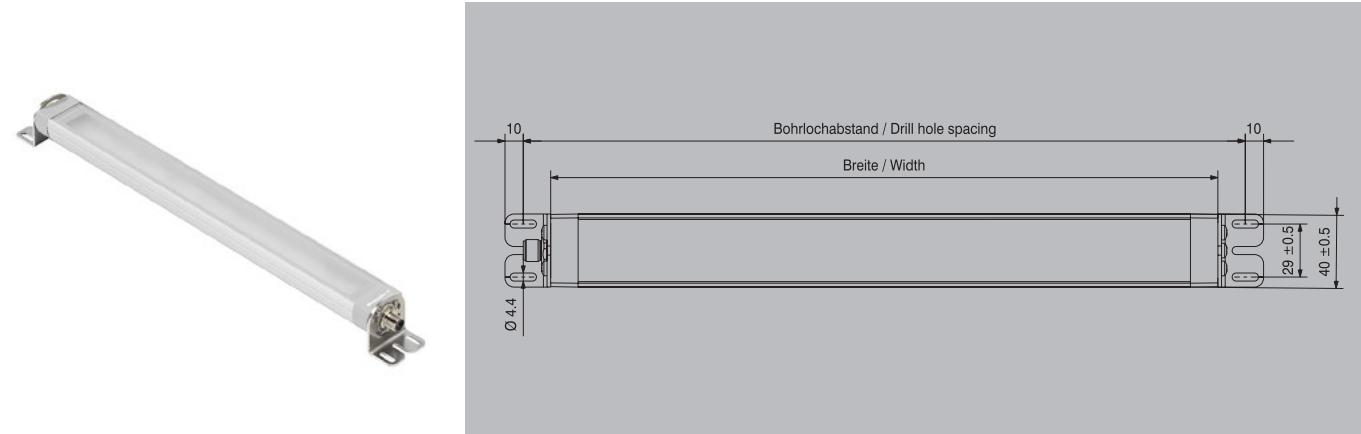
Type	Material of LED cover	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 190 mm									
WIL-LXXX-RXSS-5700-X190-M12D-X0	PMMA	M12 / M12	3.3 W	137.5 mA	341 lm	135 lux	220 mm	1	2899220000
WIL-LXXX-RXSS-5700-X190-M12X-X0	PMMA	M12	3.3 W	137.5 mA	341 lm	135 lux	220 mm	1	2899210000
Housing length 365 mm									
WIL-LXXX-RXSS-5700-X365-M12D-X0	PMMA	M12 / M12	8.3 W	345.8 mA	854 lm	324 lux	395 mm	1	2899240000
WIL-LXXX-RXSS-5700-X365-M12X-X0	PMMA	M12	8.3 W	345.8 mA	854 lm	321 lux	395 mm	1	2899230000
Housing length 540 mm									
WIL-LXXX-RXSS-5700-X540-M12D-X0	PMMA	M12 / M12	13.3 W	554.2 mA	1367 lm	503 lux	570 mm	1	2899260000
WIL-LXXX-RXSS-5700-X540-M12X-X0	PMMA	M12	13.3 W	554.2 mA	1367 lm	503 lux	570 mm	1	2899250000
Housing length 715 mm									
WIL-LXXX-RXSS-5700-X715-M12D-X0	PMMA	M12 / M12	18.3 W	762.5 mA	1880 lm	679 lux	745 mm	1	2899280000
WIL-LXXX-RXSS-5700-X715-M12X-X0	PMMA	M12	18.3 W	762.5 mA	1880 lm	679 lux	745 mm	1	2899270000
Housing length 1040 mm									
WIL-LXXX-RXSS-5700-1040-M12D-X0	PMMA	M12 / M12	26.6 W	1108.3 mA	2735 lm	969 lux	1070 mm	1	2899300000
WIL-LXXX-RXSS-5700-1040-M12X-X0	PMMA	M12	26.6 W	1108.3 mA	2735 lm	969 lux	1070 mm	1	2899290000

Note

Weidmüller Industry Light – Series WIL-L

Rated voltage 24 V DC

Light colour 5700 K



Technical data

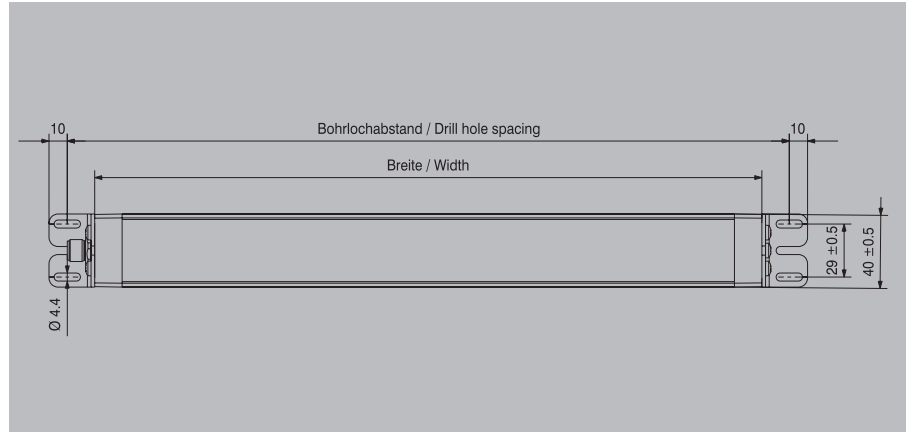
Rated voltage	24 V DC
Wiring	Pin 1: control white LED 24V DC, Pin 2: NC, Pin 3: GND(-), Pin 4: NC, Pin 5: NC
Protection degree	IP67
Depth	40 mm
Height	42 mm
Approvals	CE; cURus; UKCA
Note	

Ordering data

Type	Material of LED cover	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 190 mm									
WIL-LXXX-RXPS-5700-X190-M12D-X0	ESG	M12 / M12	3.3 W	137.5 mA	339 lm	133 lux	220 mm	1	2899320000
WIL-LXXX-RXPS-5700-X190-M12X-X0	ESG	M12	3.3 W	137.5 mA	339 lm	133 lux	220 mm	1	2899310000
Housing length 365 mm									
WIL-LXXX-RXPS-5700-X365-M12D-X0	ESG	M12 / M12	8.3 W	345.8 mA	849 lm	306 lux	395 mm	1	2899340000
WIL-LXXX-RXPS-5700-X365-M12X-X0	ESG	M12	8.3 W	345.8 mA	849 lm	306 lux	395 mm	1	2899330000
Housing length 540 mm									
WIL-LXXX-RXPS-5700-X540-M12D-X0	ESG	M12 / M12	13.3 W	554.2 mA	1359 lm	489 lux	570 mm	1	2899360000
WIL-LXXX-RXPS-5700-X540-M12X-X0	ESG	M12	13.3 W	554.2 mA	1359 lm	489 lux	570 mm	1	2899350000
Housing length 715 mm									
WIL-LXXX-RXPS-5700-X715-M12D-X0	ESG	M12 / M12	18.3 W	762.5 mA	1869 lm	667 lux	745 mm	1	2899380000
WIL-LXXX-RXPS-5700-X715-M12X-X0	ESG	M12	18.3 W	762.5 mA	1869 lm	667 lux	745 mm	1	2899370000
Housing length 1040 mm									
WIL-LXXX-RXPS-5700-1040-M12D-X0	ESG	M12 / M12	26.6 W	1108.3 mA	2719 lm	1076 lux	1070 mm	1	2899400000
WIL-LXXX-RXPS-5700-1040-M12X-X0	ESG	M12	26.6 W	1108.3 mA	2719 lm	1076 lux	1070 mm	1	2899390000
Note									

Rated voltage 12...30 V DC

Light colour 5700 K



Technical data

Rated voltage	12...30 V DC
Wiring	Pin 1: control white LED 12-30V DC, Pin 2: dimmable 1.2-10V DC, Pin 3: GND(-), Pin 4: NC, Pin 5: NC
Protection degree	IP67
Depth	40 mm
Height	42 mm
Approvals	CE; cURus; UKCA
Note	

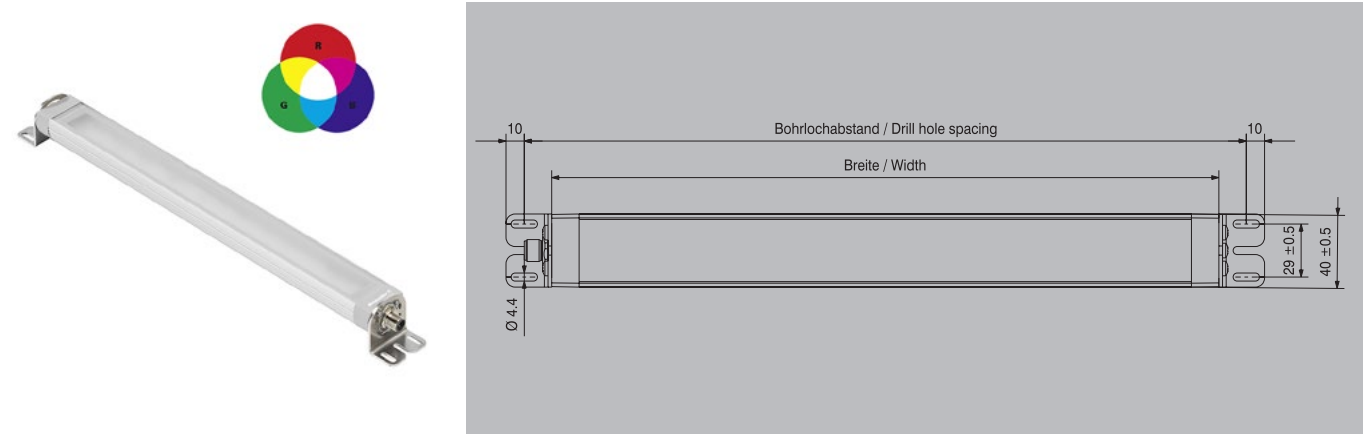
Ordering data

Type	Material of LED cover	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 190 mm									
WIL-LXXX-RHPS-5700-X190-M12D-X0	ESG	M12 / M12	7 W		750 lm	274 lux	220 mm	1	2899430000
WIL-LXXX-RHPS-5700-X190-M12X-X0	ESG	M12	7 W		750 lm	274 lux	220 mm	1	2899410000
Housing length 365 mm									
WIL-LXXX-RHPS-5700-X365-M12D-X0	ESG	M12 / M12	16.9 W		1875 lm	655 lux	395 mm	1	2899450000
WIL-LXXX-RHPS-5700-X365-M12X-X0	ESG	M12	16.9 W		1875 lm	655 lux	395 mm	1	2899440000
Housing length 540 mm									
WIL-LXXX-RHPS-5700-X540-M12D-X0	ESG	M12 / M12	28.5 W		3001 lm	1043 lux	570 mm	1	2899470000
WIL-LXXX-RHPS-5700-X540-M12X-X0	ESG	M12	28.5 W		3001 lm	1043 lux	570 mm	1	2899460000
Housing length 715 mm									
WIL-LXXX-RHPS-5700-X715-M12D-X0	ESG	M12 / M12	38.7 W		4126 lm	1344 lux	745 mm	1	2899490000
WIL-LXXX-RHPS-5700-X715-M12X-X0	ESG	M12	38.7 W		4126 lm	1344 lux	745 mm	1	2899480000
Housing length 1040 mm									
WIL-LXXX-RHPS-5700-1040-M12D-X0	ESG	M12 / M12	50 W		6001 lm	1742 lux	1070 mm	1	2899510000
WIL-LXXX-RHPS-5700-1040-M12X-X0	ESG	M12	26.5 W		2719 lm		1070 mm	1	2899500000
Note									

Weidmüller Industry Light – Series WIL-L

Colour variants

Lamp colour red, green, blue, white



Technical data

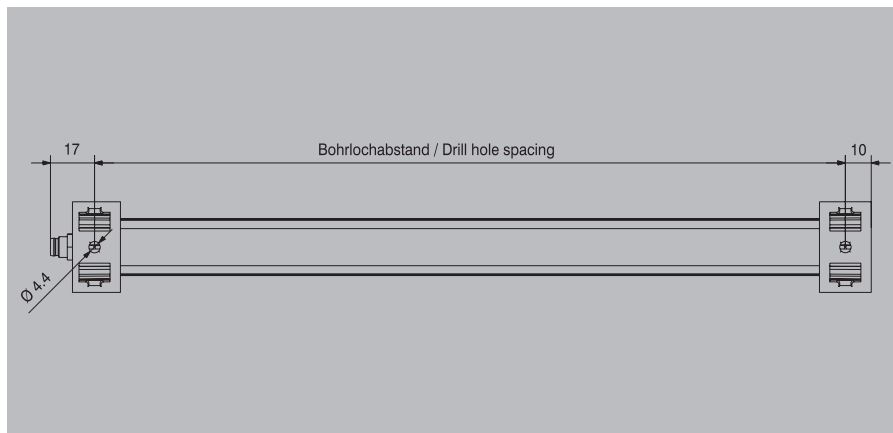
Rated voltage	24 V DC
Wiring	Pin 1 - 4: control multicolor LED, Pin 5: GND(-)
Protection degree	IP67
Depth	40 mm
Height	42 mm
Approvals	CE; cURus; UKCA
Note	

Ordering data

Type	Material of LED cover	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 190 mm									
WIL-LRGBW-RHPS-XXXX-X190SX-M12X-X0	ESG	M12	10.2 W			98 lux	220 mm	1	2899560000
WIL-LRGBW-RXSS-XXXX-X190SX-M12X-X0	PMMA	M12	10.2 W			94 lux	220 mm	1	2899520000
Housing length 365 mm									
WIL-LRGBW-RHPS-XXXX-X365SX-M12X-X0	ESG	M12	20.5 W			192 lux	395 mm	1	2899570000
WIL-LRGBW-RXSS-XXXX-X365SX-M12X-X0	PMMA	M12	20.5 W			196 lux	395 mm	1	2899530000
Housing length 610 mm									
WIL-LRGBW-RHPS-XXXX-X610SX-M12X-X0	ESG	M12	38.7 W			363 lux	640 mm	1	2899580000
WIL-LRGBW-RXSS-XXXX-X610SX-M12X-X0	PMMA	M12	38.7 W			372 lux	640 mm	1	2899540000
Housing length 1040 mm									
WIL-LRGBW-RHPS-XXXX-1040SX-M12X-X0	ESG	M12	67.7 W			574 lux	1070 mm	1	2899590000
WIL-LRGBW-RXSS-XXXX-1040SX-M12X-X0	PMMA	M12	67.7 W			581 lux	1070 mm	1	2899550000
Note									

Rated voltage 24 V DC

Light colour 5700 K



Technical data

Rated voltage	24 V DC
Wiring	Pin 1: control white LED 24V DC, Pin 2: NC, Pin 3: GND(-), Pin 4: NC
Protection degree	IP54
Depth	35 mm
Height	35 mm
Approvals	CE; cURus; UKCA
Note	

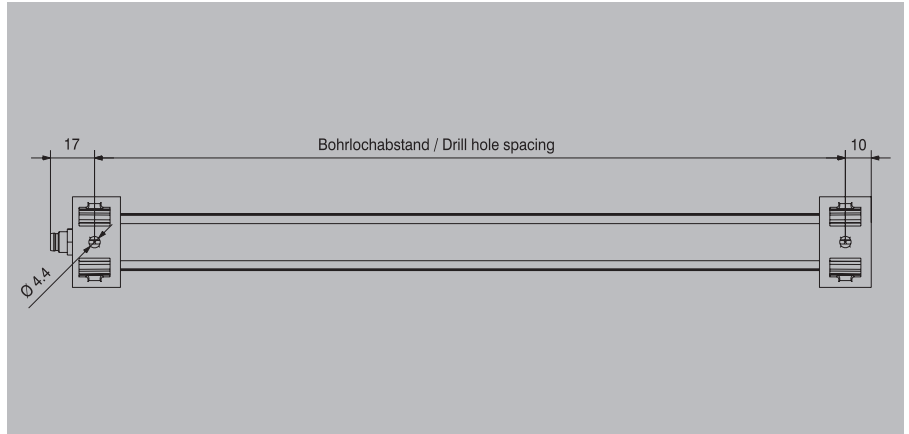
Ordering data

Type	Material of LED cover	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 140 mm									
WIL-XXXX-RXSS-5700-X140-M8DX	PMMA	M8 / M8	3.4 W	141.7 mA	242 lm	113 lux	149 mm	1	2899690000
WIL-XXXX-RXSS-5700-X140-M8XX	PMMA	M8	3.4 W	141.7 mA	242 lm	113 lux	149 mm	1	2899600000
Housing length 280 mm									
WIL-XXXX-RXSS-5700-X280-M8DX	PMMA	M8 / M8	6.8 W	283.3 mA	485 lm	221 lux	289 mm	1	2899700000
WIL-XXXX-RXSS-5700-X280-M8XX	PMMA	M8	6.8 W	283.3 mA	485 lm	221 lux	289 mm	1	2899610000
Housing length 420 mm									
WIL-XXXX-RXSS-5700-X420-M8DX	PMMA	M8 / M8	10.2 W	425 mA	728 lm	331 lux	429 mm	1	2899710000
WIL-XXXX-RXSS-5700-X420-M8XX	PMMA	M8	10.2 W	425 mA	728 lm	331 lux	429 mm	1	2899620000
Housing length 560 mm									
WIL-XXXX-RXSS-5700-X560-M8DX	PMMA	M8 / M8	13.5 W	562.5 mA	971 lm	421 lux	569 mm	1	2899720000
WIL-XXXX-RXSS-5700-X560-M8XX	PMMA	M8	13.5 W	562.5 mA	971 lm	421 lux	569 mm	1	2899630000
Housing length 700 mm									
WIL-XXXX-RXSS-5700-X700-M8DX	PMMA	M8 / M8	16.9 W	704.2 mA	1214 lm	530 lux	709 mm	1	2899730000
WIL-XXXX-RXSS-5700-X700-M8XX	PMMA	M8	16.9 W	704.2 mA	1214 lm	530 lux	709 mm	1	2899640000
Housing length 840 mm									
WIL-XXXX-RXSS-5700-X840-M8XX	PMMA	M8	20.3 W	845.8 mA	1457 lm	631 lux	849 mm	1	2899650000
Housing length 980 mm									
WIL-XXXX-RXSS-5700-X980-M8XX	PMMA	M8	23.7 W	987.5 mA	1700 lm	731 lux	989 mm	1	2899660000
Housing length 1120 mm									
WIL-XXXX-RXSS-5700-1120-M8XX	PMMA	M8	27.0 W	1125 mA	1943 lm	830 lux	1129 mm	1	2899670000
Housing length 1400 mm									
WIL-XXXX-RXSS-5700-1400-M8XX	PMMA	M8	33.9 W	1412.5 mA	2429 lm	1028 lux	1409 mm	1	2899680000
Note									

Weidmüller Industry Light – Series WIL-E

Rated voltage 12...30 V DC

Light colour 5700 K



Technical data

Rated voltage	12...30 V DC
Wiring	Pin 1: control white LED 12-30V DC, Pin 2: dimmable 1.2-10V DC, Pin 3: GND(-), Pin 4: NC
Protection degree	IP54
Depth	35 mm
Height	35 mm
Approvals	CE; cURus; UKCA
Note	

Ordering data

Type	Material of LED cover	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 140 mm									
WIL-XXXX-RXPS-5700-X140-M8DX	PMMA	M8 / M8	3.4 W		410 lm	122 lux	149 mm	1	2899820000
WIL-XXXX-RXPS-5700-X140-M8XX	PMMA	M8	3.4 W		410 lm	122 lux	149 mm	1	2899740000
Housing length 280 mm									
WIL-XXXX-RXPS-5700-X280-M8DX	PMMA	M8 / M8	6.8 W		819 lm	245 lux	289 mm	1	2899830000
WIL-XXXX-RXPS-5700-X280-M8XX	PMMA	M8	6.8 W		819 lm	245 lux	289 mm	1	2899750000
Housing length 420 mm									
WIL-XXXX-RXPS-5700-X420-M8DX	PMMA	M8 / M8	10.2 W		1229 lm	259 lux	429 mm	1	2899840000
WIL-XXXX-RXPS-5700-X420-M8XX	PMMA	M8	10.2 W		1229 lm	359 lux	429 mm	1	2899760000
Housing length 560 mm									
WIL-XXXX-RXPS-5700-X560-M8DX	PMMA	M8 / M8	13.8 W		1639 lm	458 lux	569 mm	1	2899850000
WIL-XXXX-RXPS-5700-X560-M8XX	PMMA	M8	13.8 W		1639 lm	458 lux	569 mm	1	2899770000
Housing length 700 mm									
WIL-XXXX-RXPS-5700-X700-M8DX	PMMA	M8 / M8	16.9 W		2048 lm	567 lux	709 mm	1	2899860000
WIL-XXXX-RXPS-5700-X700-M8XX	PMMA	M8	16.9 W		2048 lm	576 lux	709 mm	1	2899780000
Housing length 840 mm									
WIL-XXXX-RXPS-5700-X840-M8XX	PMMA	M8	20.5 W		2458 lm	666 lux	849 mm	1	2899130000
Housing length 980 mm									
WIL-XXXX-RXPS-5700-X980-M8XX	PMMA	M8	25 W		2868 lm	756 lux	989 mm	1	2899790000
Housing length 1120 mm									
WIL-XXXX-RXPS-5700-1120-M8XX	PMMA	M8	27.0 W		3277 lm	829 lux	1129 mm	1	2899800000
Housing length 1400 mm									
WIL-XXXX-RXPS-5700-1400-M8XX	PMMA	M8	33.9 W		4097 lm	1063 lux	1409 mm	1	2899810000
Note									

Colour variants

Lamp colour red, green, blue, white



Technical data

Rated voltage	24 V DC
Wiring	Pin 1 - 4: control multicolor LED, Pin 5: GND(-)
Protection degree	IP54
Depth	35 mm
Height	35 mm
Approvals	CE; cURus; UKCA

Note

Ordering data

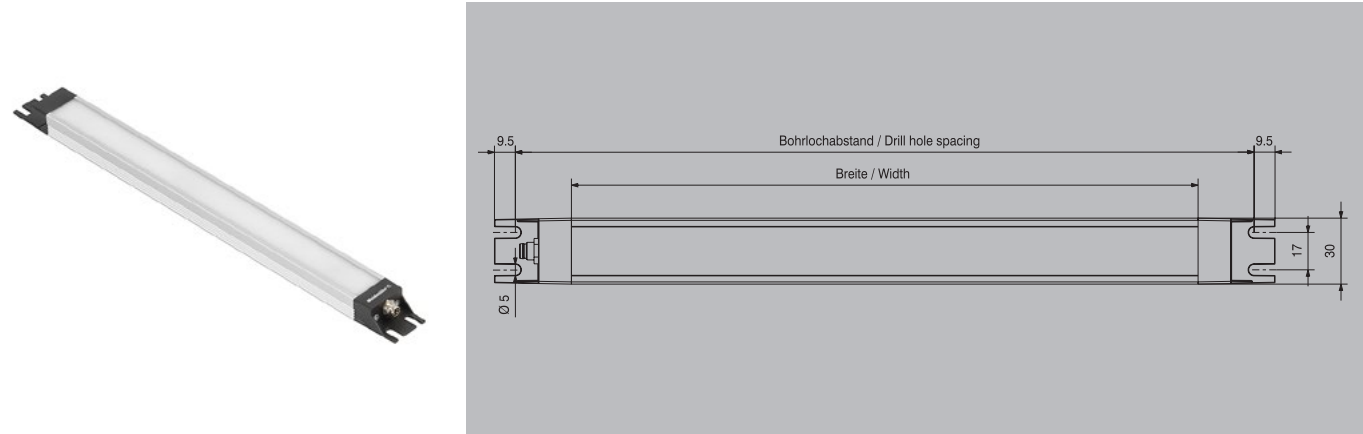
Type	Material of LED cover	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 280 mm, light colour red, green, blue									
WIL-ERGBX-RXSS-XXXX-X280-M8XX	PMMA	M8	5.5 W		552 lm	163 lux	289 mm	1	2899870000
Housing length 280 mm, light colour red, green, blue, white									
WIL-ERGBW-RXSS-XXXX-X280-M8XX	PMMA	M8	13 W		552 lm	163 lux	289 mm	1	2899880000

Note

Weidmüller Industry Light – Series WIL-S

Rated voltage 24 V DC

Light colour 5700 K



Technical data

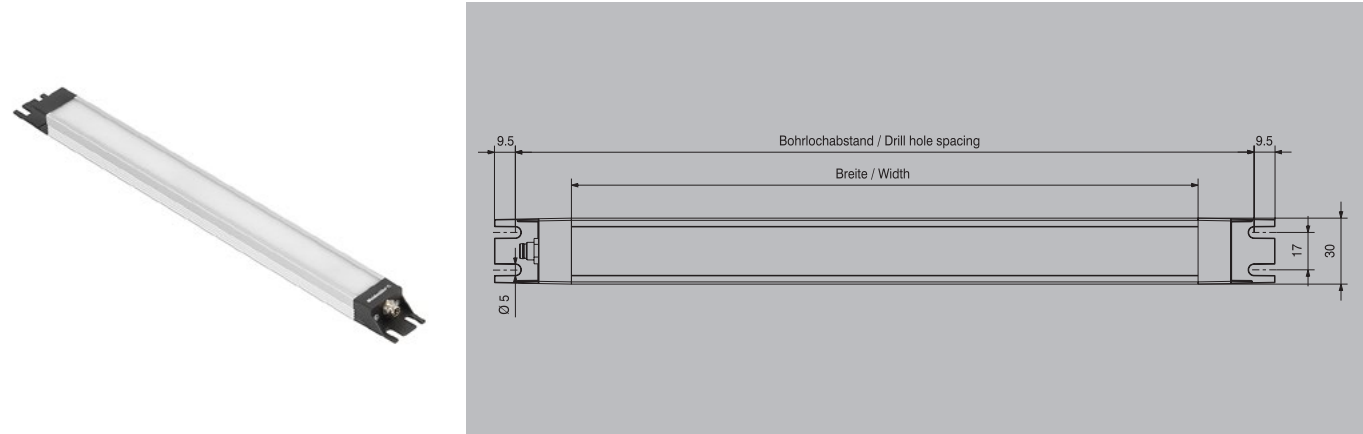
Rated voltage	24 V DC
Wiring	Pin 1: control white LED 24V DC, Pin 2: NC, Pin 3: GND(-), Pin 4: NC
Protection degree	IP40
Depth	30 mm
Height	17.5 mm
Approvals	CE; cURus; UKCA
Note	

Ordering data

Type	Material of LED cover	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 140 mm									
WIL-SXXX-FXSF-5700-X140-M8DX-S	PMMA	M8 / M8	3.4 W	141.7 mA	422 lm	148 lux	196 mm	1	2899950000
WIL-SXXX-FXSF-5700-X140-M8XX-S	PMMA	M8	3.4 W	141.7 mA	422 lm	148 lux	196 mm	1	2899890000
Housing length 280 mm									
WIL-SXXX-FXSF-5700-X280-M8DX-S	PMMA	M8 / M8	6.8 W	283.3 mA	844 lm	287 lux	336 mm	1	2899960000
WIL-SXXX-FXSF-5700-X280-M8XX-S	PMMA	M8	6.8 W	283.3 mA	844 lm	287 lux	336 mm	1	2899900000
Housing length 560 mm									
WIL-SXXX-FXSF-5700-X560-M8DX-S	PMMA	M8 / M8	13.5 W	562.5 mA	1266 lm	562 lux	616 mm	1	2899970000
WIL-SXXX-FXSF-5700-X560-M8XX-S	PMMA	M8	13.5 W	562.5 mA	1266 lm	562 lux	616 mm	1	2899910000
Housing length 840 mm									
WIL-SXXX-FXSF-5700-X840-M8DX-S	PMMA	M8 / M8	20.3 W	845.8 mA	2532 lm	819 lux	896 mm	1	2899980000
WIL-SXXX-FXSF-5700-X840-M8XX-S	PMMA	M8	20.3 W	845.8 mA	2532 lm	819 lux	896 mm	1	2899920000
Housing length 1120 mm									
WIL-SXXX-FXSF-5700-1120-M8XX-S	PMMA	M8	27 W	1125 mA	3376 lm	1079 lux	1176 mm	1	2899930000
Housing length 1400 mm									
WIL-SXXX-FXSF-5700-1400-M8XX-S	PMMA	M8	33.9 W	1412.5 mA	4221 lm	1335 lux	1456 mm	1	2899940000
Note									

Rated voltage 12...30 V DC

Light colour 6500 K



Technical data

Rated voltage	12...30 V DC
Wiring	Pin 1: control white LED 12-30V DC, Pin 2: dimmable 1.2-10V DC, Pin 3: GND(-), Pin 4: NC
Protection degree	IP69K
Depth	30 mm
Height	17.5 mm
Approvals	CE; cURus; UKCA

Note

Ordering data

Type	Material of LED cover	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 140 mm									
WIL-SXXX-FXPF-6500-X140-M8DX-S		M8 / M8	3.4 W		286 lm	88 lux	196 mm	1	2900160000
WIL-SXXX-FXPF-6500-X140-M8XX-S		M8	3.4 W		286 lm	88 lux	196 mm	1	2899990000
Housing length 280 mm									
WIL-SXXX-FXPF-6500-X280-M8DX-S		M8 / M8	6.8 W		571 lm	172 lux	336 mm	1	2900170000
WIL-SXXX-FXPF-6500-X280-M8XX-S		M8	6.8 W		571 lm	172 lux	336 mm	1	2900110000
Housing length 560 mm									
WIL-SXXX-FXPF-6500-X560-M8DX-S		M8 / M8	13.8 W		1142 lm	340 lux	616 mm	1	2900180000
WIL-SXXX-FXPF-6500-X560-M8XX-S		M8	13.8 W		1142 lm	340 lux	616 mm	1	2900120000
Housing length 840 mm									
WIL-SXXX-FXPF-6500-X840-M8DX-S		M8 / M8	20.5 W		1713 lm	477 lux	896 mm	1	2900190000
WIL-SXXX-FXPF-6500-X840-M8XX-S		M8	20.5 W		1713 lm	477 lux	896 mm	1	2900130000
Housing length 1120 mm									
WIL-SXXX-FXPF-6500-1120-M8XX-S		M8	27 W		2284 lm	593 lux	1176 mm	1	2900140000
Housing length 1400 mm									
WIL-SXXX-FXPF-6500-1400-M8XX-S		M8	33.9 W		2855 lm	759 lux	1456 mm	1	2900150000
Note									

JACKPAC® (IP67)

JACKPAC® (IP67)	JACKPAC® - Overview	I.2
	JACKPAC® relay	I.3
	JACKPAC® timer	I.4
	JACKPAC® signal inverter	I.5
	JACKPAC® galvanic signal separation	I.6
	JACKPAC® Cat. 6 surge protection	I.7
	JACKPAC® test	I.8
	JACKPAC® - General Data and Accessories	I.9
	Empty housing SAI JACKPAC® for custom built-in components	I.10

The Concept

The IP20 Solution

Until now, all signal conditioning tasks were carried out by modules designed to IP20. For their own protection, these needed to be installed in central switchgear cabinets. However, decentralised solutions that do not require large switchgear cabinets are increasingly being sought for use in modern-day industrial automation technology. It is true that shielded signals can be fed to the machinery via powerful fieldbus systems; but in each case, however, there remains an interconnecting cable between the subdistribution boards and the sensors/actuators are susceptible to interference from surrounding operations. As has always been the case, signals are still influenced by overvoltages and earth loops; interference pulses are superimposed on sensor signals and malfunctions can be initiated.

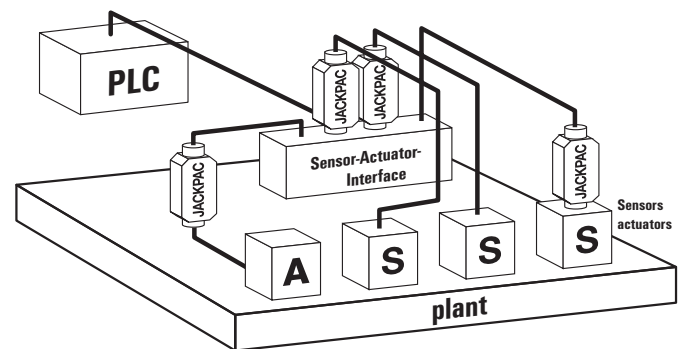
The result is that signal conditioning modules sealed to IP20 require terminal boxes, such as switchgear cabinets, or even cost-intensive special solutions (for example, sensor-actuator distributors with integrated signal-conditioning functions providing as many functions as possible, even when these are surplus to requirements).

The JACKPAC® Solution

By introducing **JACKPAC®**, the new M12 Signal Box with the high IP67 ingress protection, Weidmüller can now provide a modular and versatile concept that makes it possible to condition signals in an industrial environment. Requiring no additional enclosures, these modules can be installed directly on the machine, in the production plant, conveyor system or within a process.

The M12 connector, which is standardised all over the world, makes it possible to integrate the **JACKPAC®** at any point in the sensor-actuator cabling. The fixed pin assignment means it is easy to install and is protected against polarity reversal. This versatility really comes into its own when an installation needs to be altered or modernised, simply because no additional enclosures or cabling are required.

By providing this high degree of protection and versatility, **JACKPAC®** renders possible innovative automation concepts based on decentralised applications – without large control cabinets or small distribution boards – for consistent, transparent, efficient and cost-efficient installations.



- Easy 'Plug and Play' installation
- Universal and versatile usage
- No additional enclosure required
- Saves time and costs
- Ideal for decentralised concepts and plant modernisation (retrofitting)

[illegible]

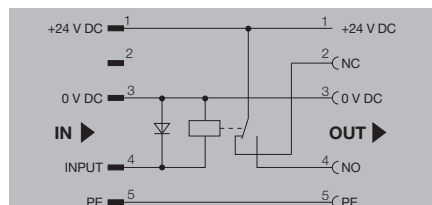
Input
Rated control voltage
Rated current DC
Power rating
Pull-in/drop-out voltage, typ.
Pull-in/drop-out current, typ.
Protective circuit
Output
DC switching capacity (resistive), max.
AC switching capacity (resistive), max.
Min. switching power
Contact material
Mechanical service life
Max. switching frequency at rated load
Switch-on delay / Switch-off delay
Insulation coordinates
Rated voltage
Overvoltage category
Pollution degree
General data
Ambient temperature (operational)
Storage temperature
Wire connection method
Approvals

Clamping range (nominal / min. / max.)
Length x width x height
Note

Note

Note

without isolation



24 V DC $\pm 20\%$
8 mA
200 mW
16.8 V / 1.2 V DC
5 mA / 1 mA DC
Free-wheeling diode
48 W @ 24 V
48 VA @ 48 V
1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
AgSnO
10×10^6 switching cycles
0.1 Hz
approx. 5 ms / ≤ 12 ms
300
III
2
-25 °C...70 °C
-25 °C...70 °C
M12 plug/socket, A-coded
CE: cULus: UKCA

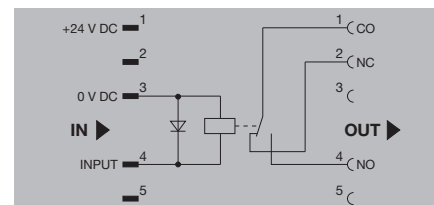
/ 36 / 14.4

Data for TU = 20 °C

Type	Qty.	Order No.
JPB 24VDC 1CO M12	1	8771420000

Retaining clip
JP CLIP M: 8778490000

With galvanic isolation



24 V DC $\pm 20\%$
8 mA
200 mW
16.8 V / 1.2 V DC
5 mA / 1 mA DC
Free-wheeling diode
48 W @ 24 V
48 VA @ 48 V
1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
AgSnO
10×10^6 switching cycles
0.1 Hz
approx. 5 ms / ≤ 12 ms
300
III
2
-25 °C...70 °C
-25 °C...70 °C
M12 plug/socket, A-coded
CE: cULus; UKCA

/ 36 / 14.4
Data for TU = 20 °C

Type	Qty.	Order No.
JPR 24VDC ISO 1CO M12	1	8771430000

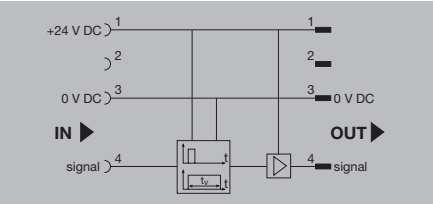
Retaining clip
JP CLIP M: 8778490000

Timer relay

Signal extenders can be easily connected to the cable between the sensor and the input modules. They extend the pulse length from a minimum 1 ms to 50 ms or 100 ms. This enables reliable recognition and evaluation of short sensor signals by the controller.

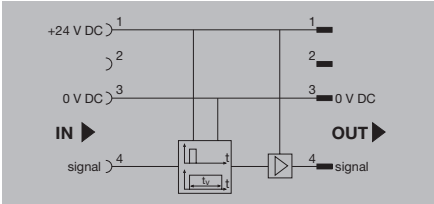
JPTA 50 MS 24VDC PNP M12

Pulse stretching, 50 ms



JPTA 100 MS 24VDC PNP M12

Pulse stretching, 100 ms



Technical data

Input	
Rated control voltage	18...24...30 V DC
Rated current DC	3,5...7,0...10,0 mA
Switch-off delay	50 ms
Output	
Max. switching voltage, DC	30 V
Max. switching current	400 mA
Insulation coordinates	
Rated voltage	32 V
Impulse withstand voltage	330 V
Overvoltage category	I
Pollution degree	2
General data	
Ambient temperature (operational)	0 °C...60 °C
Storage temperature	-20 °C...85 °C
Wire connection method	M12 plug/socket, A-coded
Approvals	CE; cULus; UKCA

Rated control voltage	18...24...30 V DC	
Rated current DC	3,5...7,0...10,0 mA	
Switch-off delay	50 ms	
Max. switching voltage, DC	30 V	
Max. switching current	400 mA	
Rated voltage	32 V	
Impulse withstand voltage	330 V	
Overvoltage category	I	
Pollution degree	2	
Ambient temperature (operational)	0 °C...60 °C	
Storage temperature	-20 °C...85 °C	
Wire connection method	M12 plug/socket, A-coded	
Approvals	CE; cULus; UKCA	

Rated control voltage	18...24...30 V DC	
Rated current DC	3,5...7,0...10,0 mA	
Switch-off delay	100 ms	
Max. switching voltage, DC	30 V	
Max. switching current	400 mA	
Rated voltage	32 V	
Impulse withstand voltage	330 V	
Overvoltage category	I	
Pollution degree	2	
Ambient temperature (operational)	0 °C...60 °C	
Storage temperature	-20 °C...85 °C	
Wire connection method	M12 plug/socket, A-coded	
Approvals	CE; cULus; UKCA	

Dimensions	
Clamping range (nominal / min. / max.)	
Length x width x height	/ 36 / 14.4
Note	

Dimensions	
Clamping range (nominal / min. / max.)	
Length x width x height	/ 36 / 14.4
Note	

Dimensions	
Clamping range (nominal / min. / max.)	
Length x width x height	/ 36 / 14.4
Note	

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
JPTA 50MS 24VDC PNP M12	1	8771440000

Type	Qty.	Order No.
JPTA100MS 24VDC PNP M12	1	8836630000

Note

Note

Note

Accessories

Note

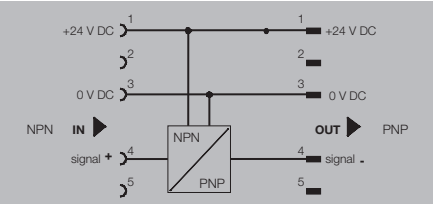
Note
Retaining clip JP CLIP M: 8778490000

Note
Retaining clip JP CLIP M: 8778490000

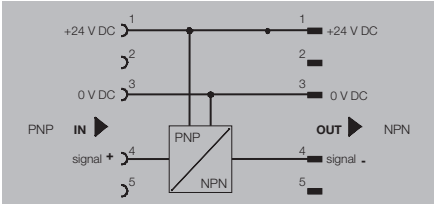
Signal inverter

Signal inverters convert PNP sensor signals to NPN signals and NPN signals back to PNP. This means that existing circuits do not require complex alteration and the existing inputs on the I/O cards can be put to best use. This is particularly well suited for the Asian and North American markets.

JPP NPN PNP 24 V DC



JPP PNP NPN 24 V DC



Technical data

Input
Sensor
Rated control voltage
Input current for sensor
Type of contact
Output
Solid-state type
Rated switching voltage
Rated switching current
Voltage drop at max. load
Insulation coordinates
Rated voltage
Impulse withstand voltage
Overvoltage category
Pollution degree
General data
Ambient temperature (operational)
Storage temperature
Wire connection method
Approvals

2-/ 3-Conductor Sensor NPN-type
18...24...30 V DC
<200 mA
NO contact
Solid state relay
18...30 V DC
400 mA
≤ 1 V
32 V
500 V
I
2
0 °C...60 °C
-20 °C...85 °C
M12 plug/socket, A-coded
CE; cULus; UKCA

2-/ 3-Conductor Sensor PNP-Type
18...24...30 V DC
<200 mA
NO contact
Solid state relay
18...30 V DC
400 mA
≤ 0.3 V
32 V
500 V
I
2
0 °C...60 °C
-20 °C...85 °C
M12 plug/socket, A-coded
CE; cULus; UKCA

Dimensions
Clamping range (nominal / min. / max.)
Length x width x height
Note

83 / 36 / 14.4

83 / 36 / 14.4

Ordering data

Type	Qty.	Order No.
JPP NPN PNP 24VDC	1	8852350000
Note		

Type	Qty.	Order No.
JPP PNP NPN 24VDC	1	8857030000
Note		

Type	Qty.	Order No.
JPP PNP NPN 24VDC	1	8857030000
Note		

Accessories

Note

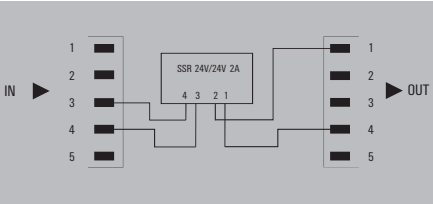
Retaining clip JP CLIP M: 8778490000

Retaining clip JP CLIP M: 8778490000

Galvanic signal separation

There are applications in which the voltage potential of the second system parts should not be connected. In these case, it makes sense to perform a galvanic signal separation. For this purpose, this JACKPAC® was developed with a built-in optocoupler.

JPO 24VDC 0.2A M12S



Technical data

Input	
Rated control voltage	18...24...30 V DC
Nominal control current	0.01 A DC
Output	
Rated switching voltage	3...33 V DC
Rated switching current	200 mA
Insulation coordinates	
Rated voltage	32 V
Protection degree	IP67
Overvoltage category	I
Pollution degree	2
General data	
Ambient temperature (operational)	-20 °C...60 °C
Storage temperature	-20 °C...60 °C
Type of connection	M12 plug / plug, A-coded
Approvals	CE; UKCA

18...24...30 V DC
0.01 A DC
3...33 V DC
200 mA
32 V
IP67
I
2
-20 °C...60 °C
-20 °C...60 °C
M12 plug / plug, A-coded
CE; UKCA

Dimensions	
Clamping range (nominal / min. / max.)	
Length x width x height	mm
83 / 36 / 14.4	
Note	
Length of connected cable smaller than 30 m	

83 / 36 / 14.4
Length of connected cable smaller than 30 m

Ordering data

Type	Qty.	Order No.
JPO 24VDC 0.2A M12S	1	2465830000
Note		

Type	Qty.	Order No.
JPO 24VDC 0.2A M12S	1	2465830000
Note		

Accessories

Note
Retaining clip JP CLIP M: 8778490000

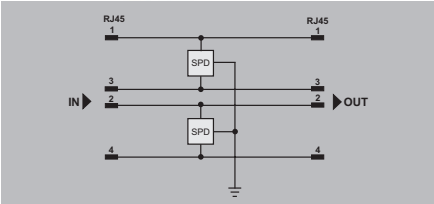
Retaining clip JP CLIP M: 8778490000

Surge protection

Surge protection protects equipment against surge voltages that can occur as a result of atmospheric discharges or storms. This type of protection, in the form of an adapter plug, is available in IP20 and IP67 versions and complies with the requirements of C 2 of IEC 61643-21.

JPOVP RJ45 Cat6 IP20

Ethernet Cat.6, Cable length 3 m



Technical data

Rated data IEC/EN	
Rated voltage (DC)	48 V
Rated current I _N	0.2 A
Rated voltage (AC)	34 V
Discharge I _{max} (8/20 μs) wire-wire/wire-PE/GND-PE	10 kA
Discharge current I _n (8/20 μs) wire-wire	5 kA
Response time	≤ 5 ns
Insulation coordinates	
Rated voltage (DC)	48 V
Protection degree	IP20
Overvoltage category	III
Pollution degree	2
General data	
Ambient temperature (operational)	-25 °C...60 °C
Storage temperature	-25 °C...70 °C
Type of connection	IP20, RJ45 plug-in connector
Approvals	CE, UKCA

Rated data IEC/EN	
Rated voltage (DC)	48 V
Rated current I _N	0.2 A
Rated voltage (AC)	34 V
Discharge I _{max} (8/20 μs) wire-wire/wire-PE/GND-PE	10 kA
Discharge current I _n (8/20 μs) wire-wire	5 kA
Response time	≤ 5 ns
Insulation coordinates	
Rated voltage (DC)	48 V
Protection degree	IP20
Overvoltage category	III
Pollution degree	2
General data	
Ambient temperature (operational)	-25 °C...60 °C
Storage temperature	-25 °C...70 °C
Type of connection	IP20, RJ45 plug-in connector
Approvals	CE, UKCA

Dimensions	
Clamping range (nominal / min. / max.)	
Length x width x height	mm
Note	

83 / 36 / 14.4
Each with 1.5 m cable

Ordering data

Type	Qty.	Order No.
JPOVP RJ45 CAT6 IP20	1	8805550000
Note		

Type	Qty.	Order No.
JPOVP RJ45 CAT6 IP20	1	8805550000
Note		

Accessories

Note

Retaining clip JP CLIP M 8778490000
--

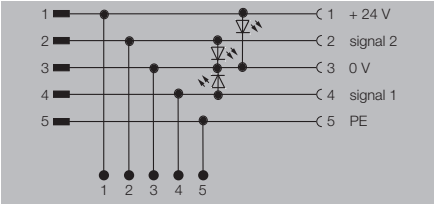
JACKPAC® test

Test adapter

The JACKPAC® test adapter now provides a simple way of intervening into an M12 network. It can be integrated at any point and enables quick and easy connection of a testing device via 5 PUSH IN connections. Status displays indicate the status of the two signal channels and the 24 VDC auxiliary voltage.

JP TEST

with status indication



Technical data

Input
Rated control voltage
Rated current DC
Status indicator
Output
Continuous current
Power
General data
Ambient temperature (operational)
Storage temperature
Wire connection method
Approvals

18...24...30 V DC
2.2 mA (LED)
Green LED
2 A
2.2 mA at 24 V
...
-25 °C...70 °C
M12 plug/socket, A-coded
CE; UKCA

Dimensions	
Clamping range (nominal / min. / max.)	
Length x width x height	mm
Note	

Ordering data

Type	Qty.	Order No.
JP TEST	1	8794120000

Note

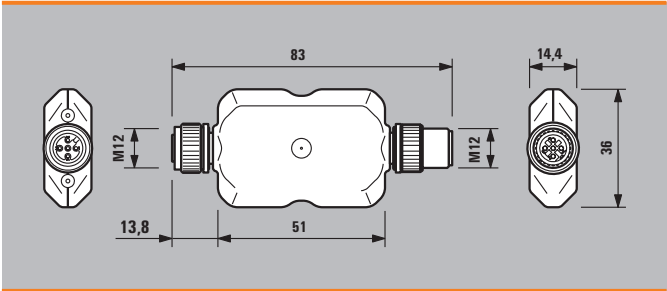
Accessories

Note

Retaining clip JP CLIP M: 8778490000

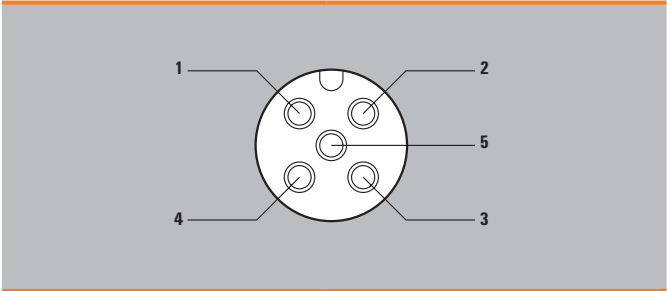
General data

Ingress protection class	IP67
Housing material	PBT, RAL 7032 (grey)
Flammability class	V0 to UL94
Screw socket	M12, CuZn, nickel plated, A-coded
Rated torque	0.8 ... 1 Nm



Contact assignment (socket)

Pole	Assignment
1	+24 V DC
2	Input / output 2
3	0 V DC
4	Input / output 1
5	PE / Earth



Accessories

Retaining clip



Type	Qty.	Order No.
Stainless steel	1	8778490000

Y-distributor



Type	Qty.	Order No.
5-pole	1	1783430000

Screwty® M12



Type	Qty.	Order No.
With torque	1	1900001000

Sensor cables



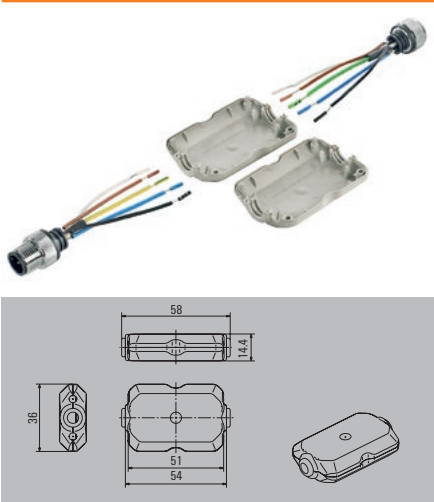
Type	Qty.	Order No.
4-pole, length 0.3 m	1	1906300030
4-pole, length 0.6 m	1	1906300050
4-pole, length 1.5 m	1	1906300150
5-pole, length 0.3 m	1	9457340030
5-pole, length 0.6 m	1	9457340060
5-pole, length 1.5 m	1	9457340150

Additional accessories can be found in the Sensor Actuator Interface catalogue.

Empty housing SAI JACKPAC® for custom built-in components

Empty housing SAI JACKPAC®
for custom built-in components

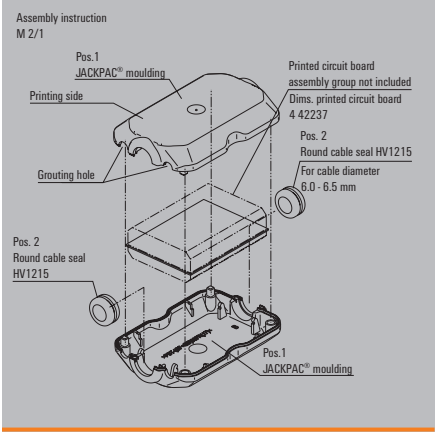
SAI JP



Technical data

General data	
Temperature range	-25 °C ... +70 °C
Connection system	M12 plug/socket, A-coded
Contact base material	AgSnO
Surface finish	Au

Dimensioned drawing SAI JP



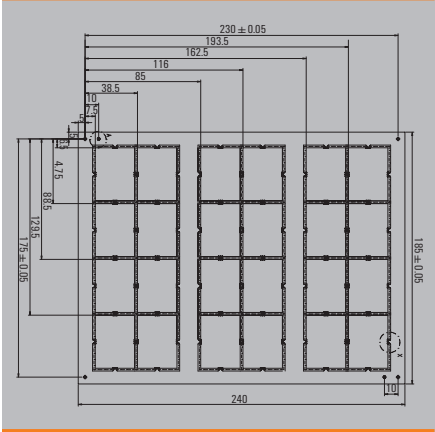
Dimensions	
Length x width x height	mm
	83 x 36 x 14.4
Note	Please use high-viscosity or fast-cure compound.

Ordering data

Housing with M12 connectors				
Contents	1 piece	SAI JP 4P LG	4	1 1915220000
	1 piece	SAI JP 5P LG	5	1 1918520000
	100 pieces	SAI JP 4P LG 100	4	1 8794090000
	100 pieces	SAI JP 5P LG 100	5	1 8794080000
Note	Housing without M12 connectors SAI JP FC SET 1933680000 1 Qty. = 100 pieces			

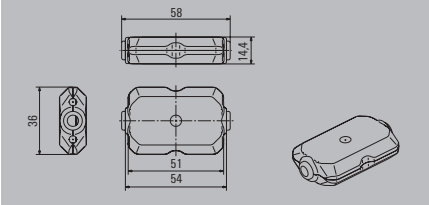
Accessories

Dimensioned drawing, PCBs



Empty housing SAI JACKPAC®
for custom built-in components

SAI JP



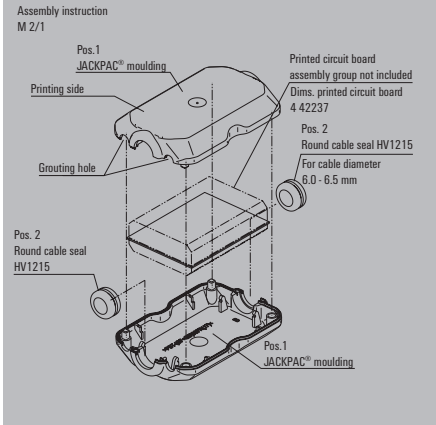
Technical data

General data

Temperature range
Connection system
Contact base material
Surface finish

-25 °C ... +70 °C
M12 plug/socket, A-coded
AgSnO
Au

Dimensioned drawing SAI JP



Dimensions

Length x width x height mm

83 x 36 x 14.4

Note

Please use high-viscosity or fast-cure compound.

Ordering data

Gehäuse Varianten

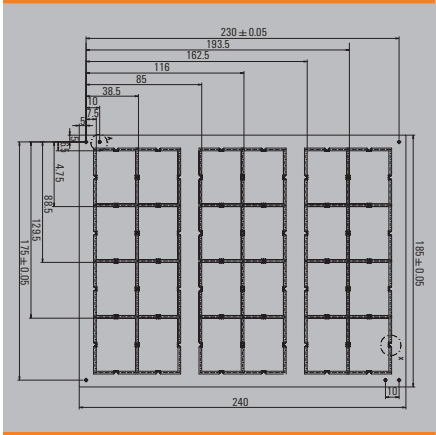
Without M12 plug connector with seal	100 pieces
Without M12 plug connector without seal	100 pieces
Mit/With M12 male connector, seal and retaining clip	100 pieces

Type	No. of poles	Qty.	Order No.
SAI JP FC SET 100		1	1933680000
SAI JP FC SET-WG 100		1	2773240000
SAI JP 4P LG K1	4	1	2819850000

Note

Accessories

Dimensioned drawing, PCBs



7/8" connectors

7/8" connectors	Introduction	J.2
	7/8" plug-in connectors	J.6
	7/8" built-in plug	J.8
	7/8" sensor cables	J.13

7/8" products

Connectors with threads measured in inches have been used for many years, mainly outside Europe. The 7/8" thread types are the main group found within this group of products. They are essentially used in bus systems like Fieldbus Foundation or DeviceNet. In recent years these connectors also have become popular as supply ports for I/O nodes, due to the low number of pins and their sturdy construction.

Weidmüller now offers this product range in the following versions:

- Customisable connectors
- Built-in connectors
- Moulded cables



7/8" - Freely configurable plug-in connectors



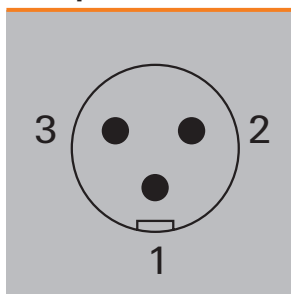
In some situations, it may be necessary to assemble cables yourself. This includes cases where the length of the cable cannot be predicted in advance, or if solutions for self-connection are required for servicing. Often, 7/8" plug connectors are used to transmit high power levels.

Advantages of 7/8" plug connectors:

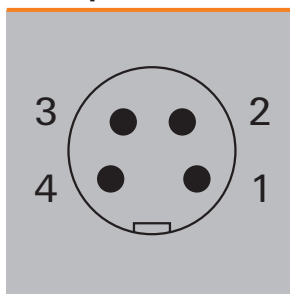
- Simple and safe wiring thanks to screw connection
- Different variants available for different cable diameters
- Gold-plated contact surfaces
- 3, 4 and 5-pole versions

Pin out

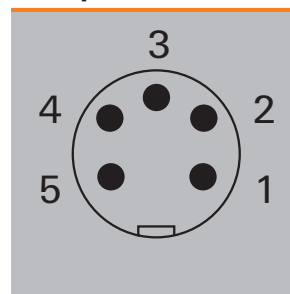
Male insert (mating side) 2+PE-pole



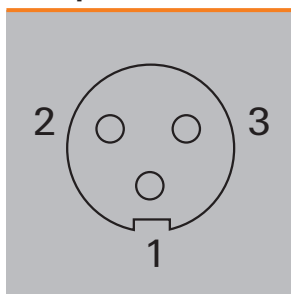
3 + PE-pole



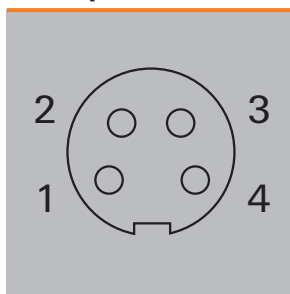
4+PE-pole



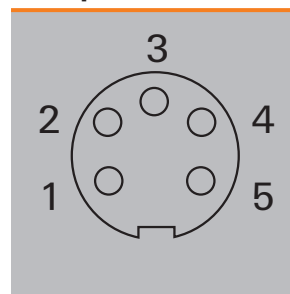
Female insert (mating side) 2+PE-pole



3 + PE-pole

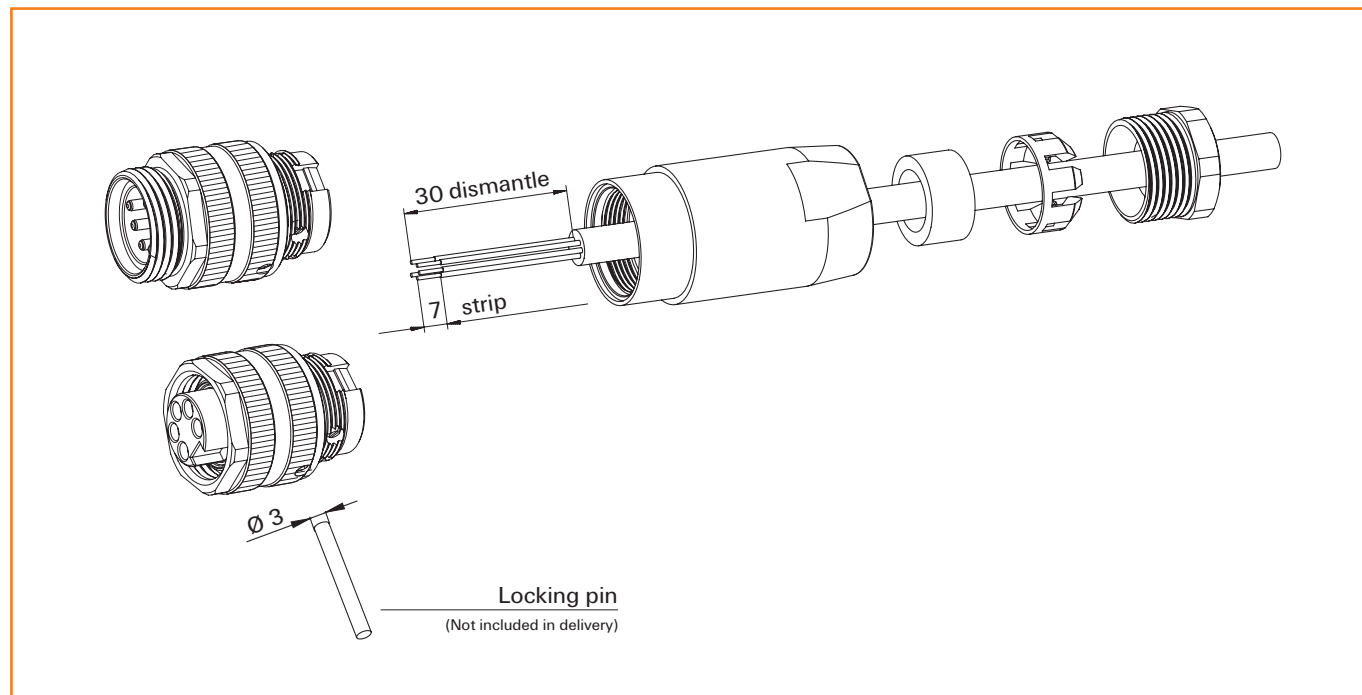


4+PE-pole



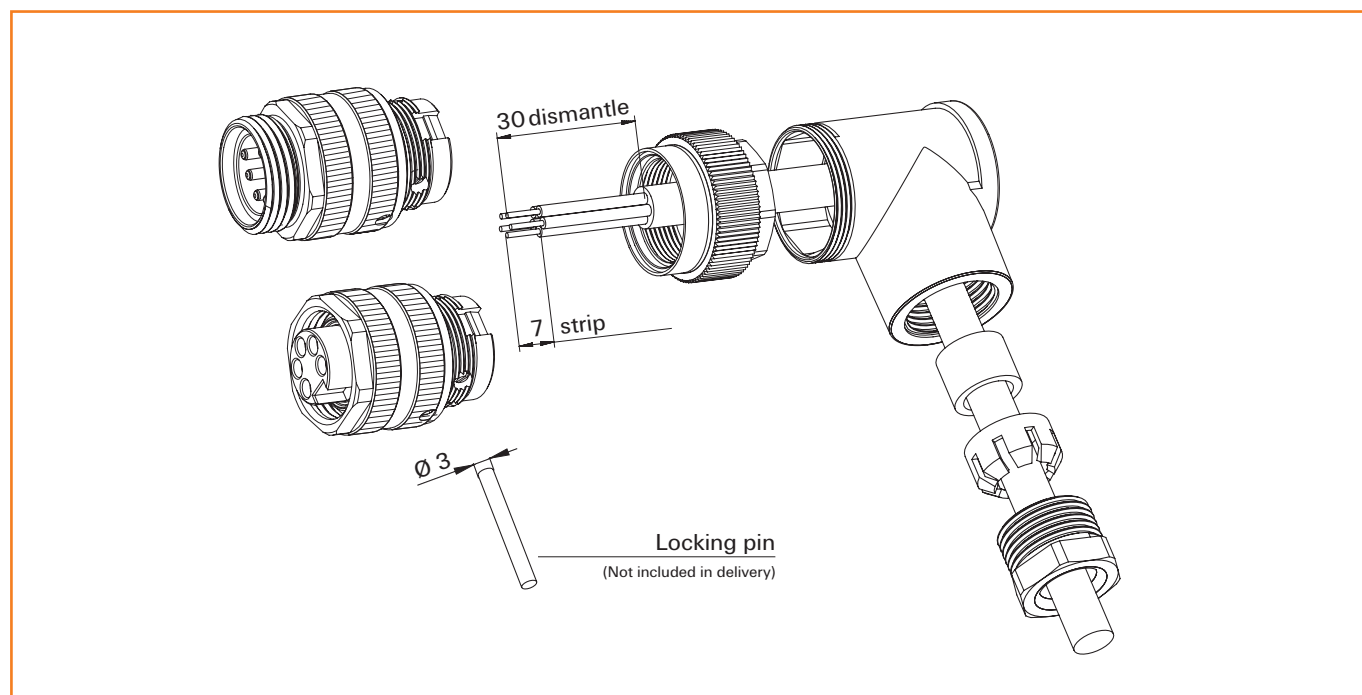
Customisable connector assembly instructions

Straight connector



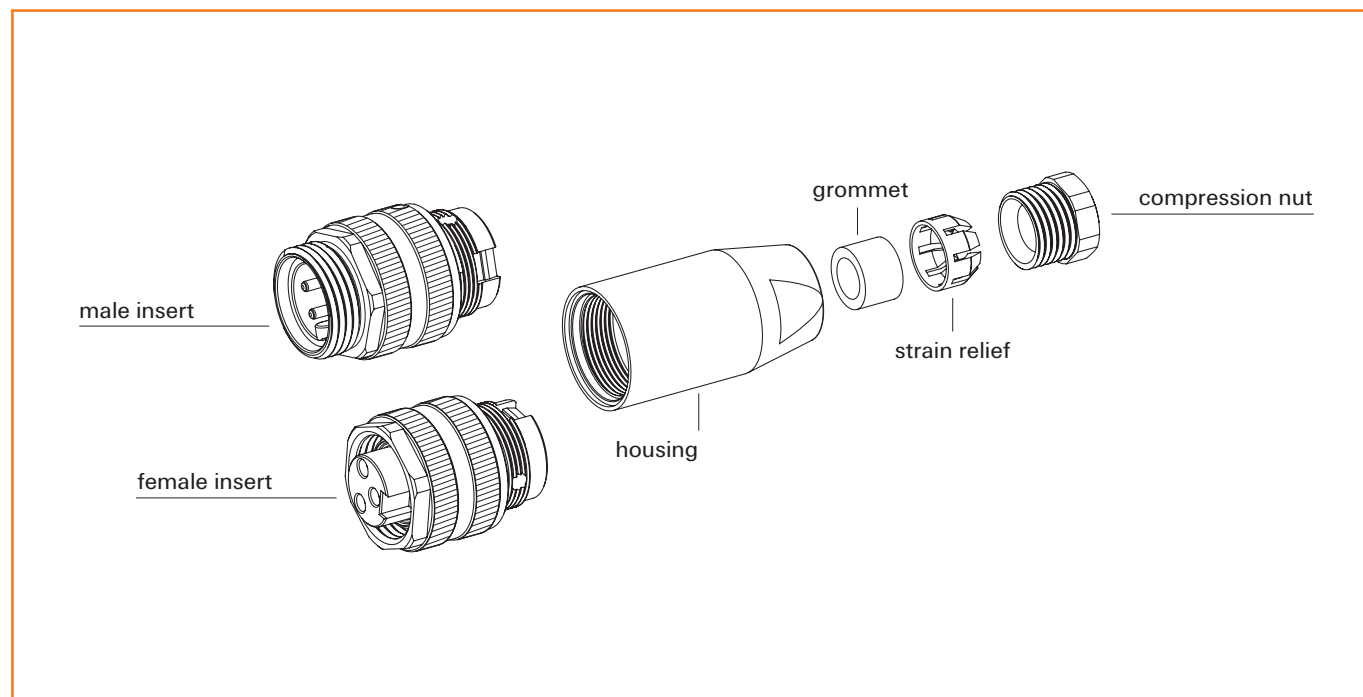
J

Angled connector

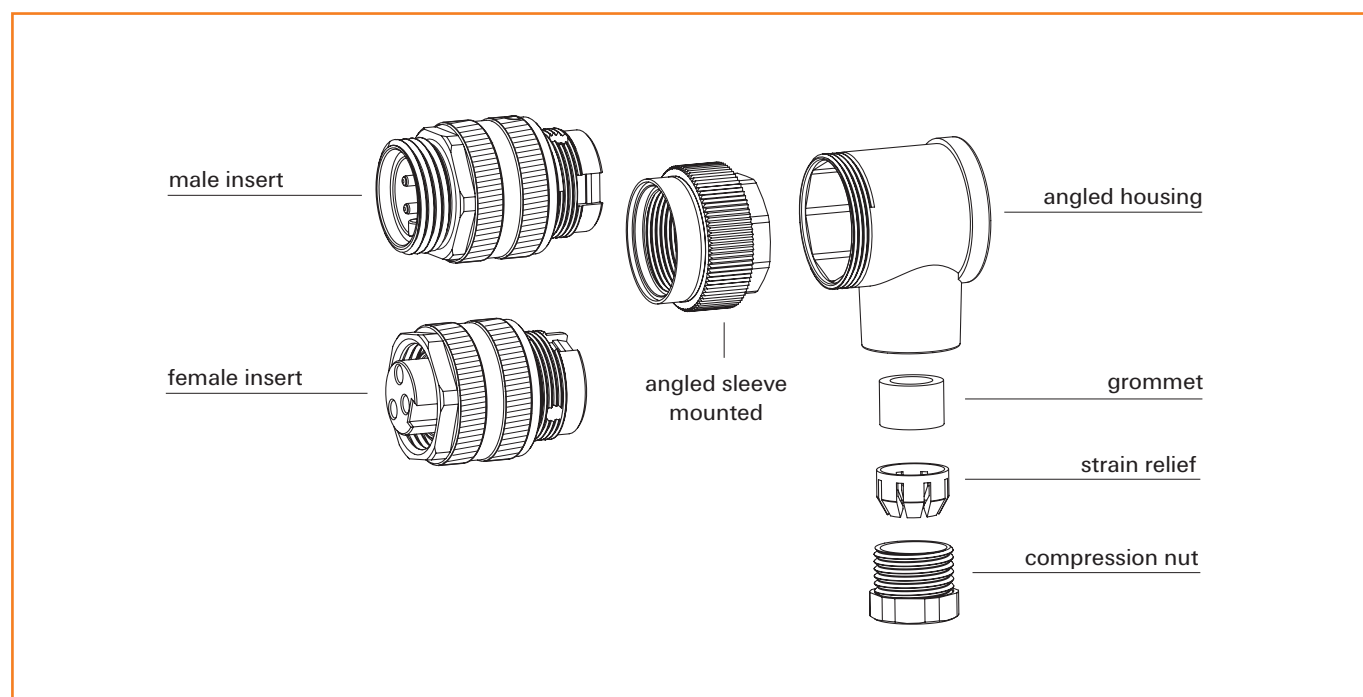


Individual component drawing of the customisable connector

Straight connector

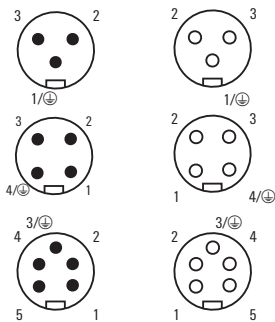


Angled connector



7/8" plug-in connectors

Screw connection 7/8", PG9
Cable diameter 6...8 mm



Plug Socket connector

Ordering data

Male	
	2-pole + PE, PG 9
	3-pole + PE, PG 9
	4-pole + PE, PG 9
Female	
	2-pole + PE, PG 9
	3-pole + PE, PG 9
	4-pole + PE, PG 9
Note	

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Approvals
Note

SAIS / SAIB

straight



SAISW / SAIBW

angled



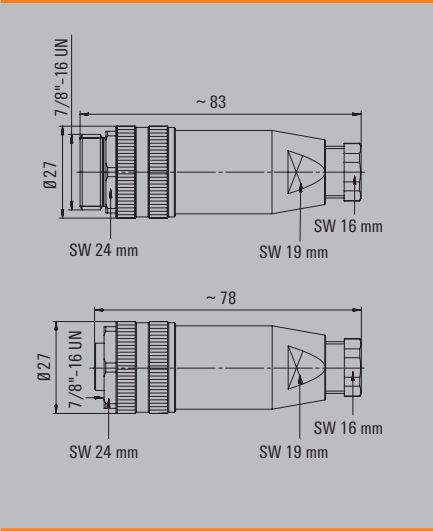
Type	Qty.	Order No.
SAIS-3/9-7/8	1	1291870000
SAIS-4/9-7/8	1	1808840000
SAIS-5/9-7/8	1	1301220000
SAIB-3/9-7/8	1	1291910000
SAIB-4/9-7/8	1	1812480000
SAIB-5/9-7/8	1	1292000000

Type	Qty.	Order No.
SAISW-3/9-7/8	1	1291890000
SAISW-4/9-7/8	1	1808830000
SAISW-5/9-7/8	1	1291980000
SAIBW-3/9-7/8	1	1291930000
SAIBW-4/9-7/8	1	1812470000
SAIBW-5/9-7/8	1	1292020000

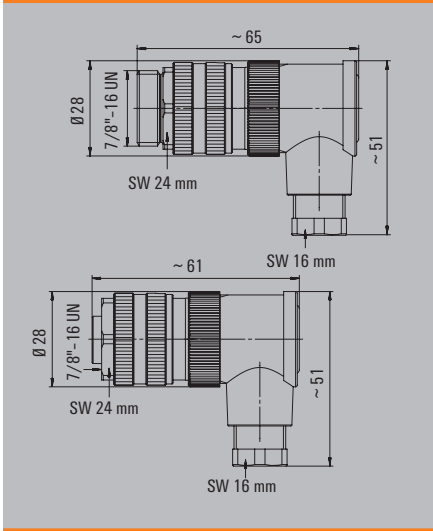
Screw connection
PBT
7/8"
6...8 mm
0.5...1.5 mm ²
9 A (4- and 5-pole), 12 A (3-pole)
300 V
-40 ... +85 °C
IP67
Gold-plated
CuZn
≥ 50
3
CE; cURus; UKCA

Screw connection
PBT
7/8"
6...8 mm
0.5...1.5 mm ²
9 A (4- and 5-pole), 12 A (3-pole)
300 V
-40 ... +85 °C
IP67
Gold-plated
CuZn
≥ 50
3
CE; cURus; UKCA

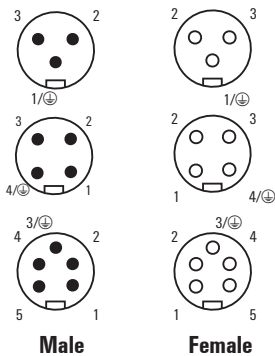
Dimensioned drawing



Dimensioned drawing



Screw connection 7/8", PG11
Cable diameter 8...10 mm



Ordering data

Male	
	2-pole + PE, PG 11
	3-pole + PE, PG 11
	4-pole + PE, PG 11
Female	
	2-pole + PE, PG 11
	3-pole + PE, PG 11
	4-pole + PE, PG 11
Note	

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Approvals
Note

SAIS / SAIB

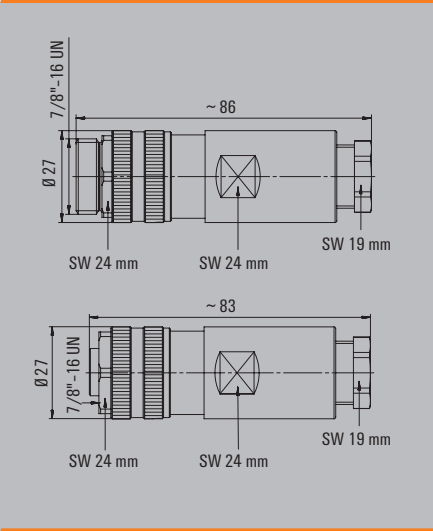
Straight



Type	Qty.	Order No.
SAIS-3/11-7/8	1	1291880000
SAIS-4/11-7/8	1	1291950000
SAIS-5/11-7/8	1	1291970000
SAIB-3/11-7/8	1	1291920000
SAIB-4/11-7/8	1	1292050000
SAIB-5/11-7/8	1	1292010000
Note		

Screw connection
PBT
7/8"
8...10 mm
0.5...1.5 mm²
9 A (4- and 5-pole), 12 A (3-pole)
300 V
-40 ... +85 °C
IP67
Gold-plated
CuZn
≥ 50
3
CE; cURus; UKCA
Note

Dimensioned drawing



SAISW / SAIBW

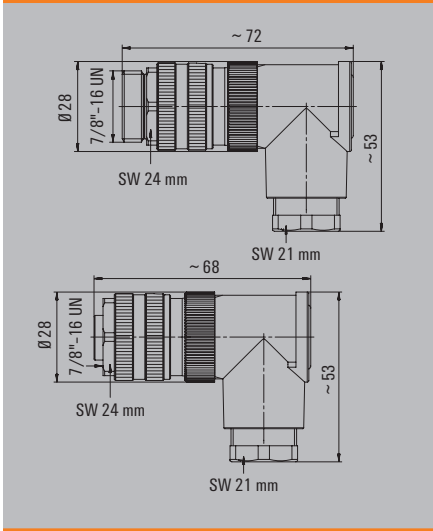
Angled



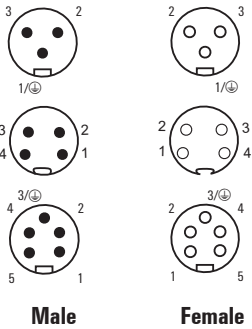
Type	Qty.	Order No.
SAISW-3/11-7/8	1	1291900000
SAISW-4/11-7/8	1	1292040000
SAISW-5/11-7/8	1	1291990000
SAIBW-3/11-7/8	1	1291940000
SAIBW-4/11-7/8	1	1292070000
SAIBW-5/11-7/8	1	1292030000
Note		

Screw connection
PBT
7/8"
8...10 mm
0.5...1.5 mm²
9 A (4- and 5-pole), 12 A (3-pole)
300 V
-40 ... +85 °C
IP67
Gold-plated
CuZn
≥ 50
3
CE; cURus; UKCA
Note

Dimensioned drawing



7/8" built-in plug



7/8" Back panel mounting

Mounting thread M26



Ordering data

Male	
2-pole + PE	
4-pole	
4-pole + PE	
Female	
2-pole + PE	
4-pole	
4-pole + PE	
Note	

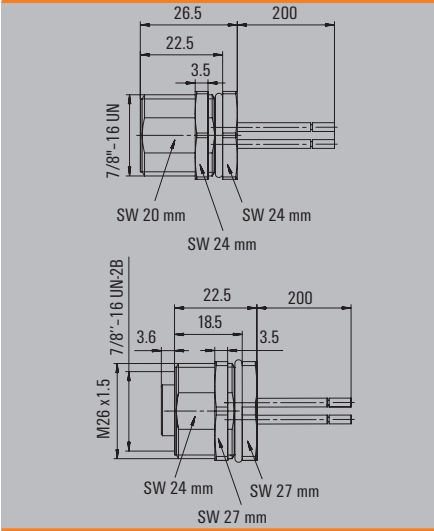
Type	Qty.	Order No.
SAIE-7/8S-3-0.2U-H	1	1292350000
SAIE-7/8S-4-0.2U-H	1	1292420000
SAIE-7/8S-5-0.2U-H	1	1292490000
SAIE-7/8B-3-0.2U-H	1	1292390000
SAIE-7/8B-4-0.2U-H	1	1292450000
SAIE-7/8B-5-0.2U-H	1	1292520000
Note		

Technical data

Housing main material	Zinc diecast, nickel-plated
Connection thread	7/8"
Core cross-section	0.75 mm ²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Mounting thread	M26 x 1.5
Approvals	cURus
Note	

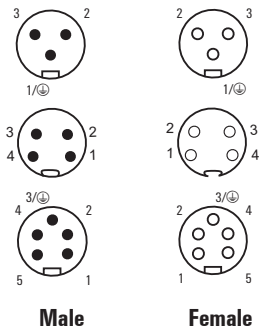
Zinc diecast, nickel-plated
7/8"
0.75 mm ²
8 A (4- and 5-pole), 10 A (3-pole)
300 V
-25...+85 °C
IP67, when screwed in
Gold-plated
CuZn
≥ 100
M26 x 1.5
cURus

Dimensioned drawing



7/8" Screw-in thread

Mounting thread PG11



Ordering data

Male	
2-pole + PE	
4-pole	
4-pole + PE	
Female	
2-pole + PE	
4-pole	
4-pole + PE	
Note	

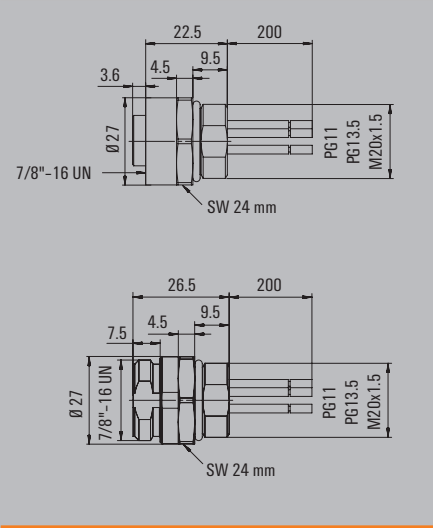
Type	Qty.	Order No.
SAIE-7/8S-3-0.2U-PG11	1	1292330000
SAIE-7/8S-4-0.2U-PG11	1	1292400000
SAIE-7/8S-5-0.2-PG11	1	1292470000
SAIE-7/8B-3-0.2U-PG11	1	1292370000
SAIE-7/8B-4-0.2U-PG11	1	1292430000
SAIE-7/8B-5-0.2U-PG11	1	1292500000
Note		

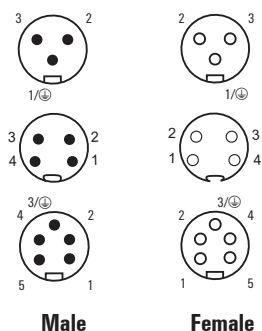
Technical data

Housing main material
Connection thread
Core cross-section
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Mounting thread
Approvals
Note

Zinc diecast, nickel-plated
7/8"
0.75 mm ²
8 A (4- and 5-pole), 10 A (3-pole)
300 V
-25...+85 °C
IP67, when screwed in
Gold-plated
CuZn
≥ 100
PG 11
cURus

Dimensioned drawing





7/8" Screw-in thread

Mounting thread PG 13.5



Ordering data

Male	2-pole + PE 4-pole 4-pole + PE
Female	2-pole + PE 4-pole 4-pole + PE
Note	

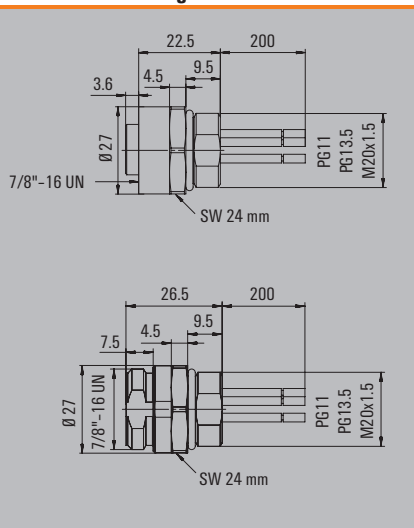
Type	Qty.	Order No.
SAIE-7/8S-3-0.2U-PG13.5	1	1292340000
SAIE-7/8S-4-0.2U-PG13.5	1	1292410000
SAIE-7/8S-5-0.2U-PG13.5	1	1292480000
SAIE-7/8B-3-0.2U-PG13.5	1	1292380000
SAIE-7/8B-4-0.2U-PG13.5	1	1292440000
SAIE-7/8B-5-0.2U-PG13.5	1	1292510000

Technical data

- Housing main material
- Connection thread
- Core cross-section
- Rated current
- Rated voltage
- Temperature range of housing
- Protection degree
- Contact surface
- Contact material
- Plugging cycles
- Mounting thread
- Approvals

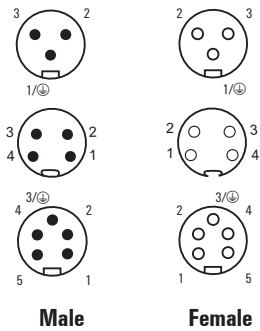
Zinc diecast, nickel-plated
7/8"
0.75 mm ²
8 A (4- and 5-pole), 10 A (3-pole)
300 V
-25...+85 °C
IP67, when screwed in
Gold-plated
CuZn
≥ 100
PG 13.5
cURus

Dimensioned drawing



7/8" Screw-in thread

Mounting thread M20



Ordering data

Male	
	2-pole + PE
	4-pole
	4-pole + PE
Female	
	2-pole + PE
	4-pole
Note	

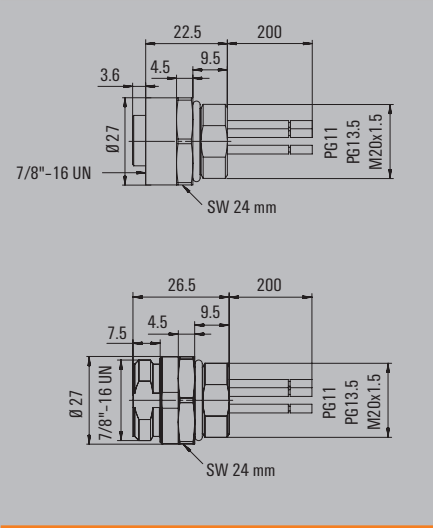
Type	Qty.	Order No.
SAIE-7/8S-3-0.2U-M20	1	1418040000
SAIE-7/8S-4-0.2U-M20	1	1418050000
SAIE-7/8-S-5-0.2U-M20	1	1471490000
SAIE-7/8-B-3-0.2U-M20	1	1471510000
SAIE-7/8-B-4-0.2U-M20	1	1471520000

Technical data

Housing main material
Connection thread
Core cross-section
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Mounting thread
Approvals
Note

Zinc diecast, nickel-plated
7/8"
0.75 mm²
8 A (4- and 5-pole), 10 A (3-pole)
300 V
-25...+85 °C
IP67, when screwed in
Gold-plated
CuZn
≥ 100
M 20
cURus

Dimensioned drawing

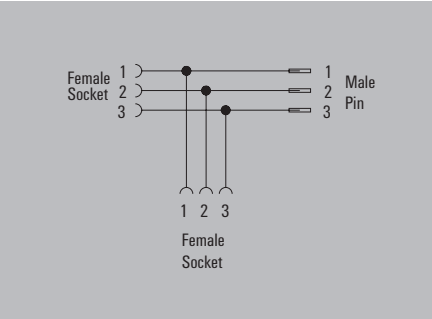


7/8" built-in plug

T distributor

7/8" T distributor

3-pole

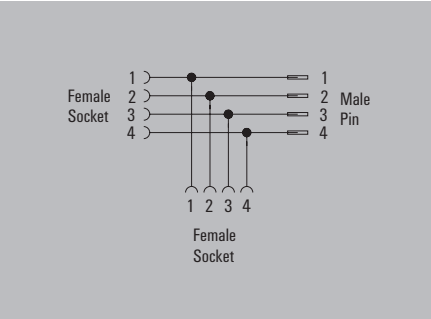


Ordering data

Type	Qty.	Order No.
SAI-Y-7/8 3P	1	1413920000

7/8" T distributor

4-pole

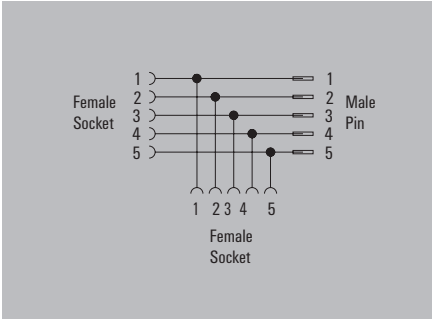


Ordering data

Type	Qty.	Order No.
SAI-Y-7/8 4P	1	1413930000

7/8" T distributor

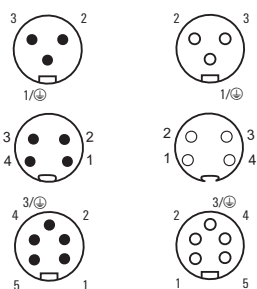
5-pole



Ordering data

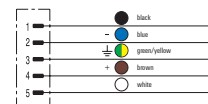
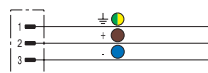
Type	Qty.	Order No.
SAI-Y-7/8 5P	1	1413940000

7/8" one end without connector



Male

Female



Ordering data

Male, straight	1.5 m
Male, angled	1.5 m
Female, straight	1.5 m
Female, angled	1.5 m
Note	

2-pole+PE

SAIL-7/8G-3-1.5U	1292080150
SAIL-7/8W-3-1.5U	1292090150
SAIL-7/8BG-3-1.5U	1292100150
SAIL-7/8BW-3-1.5U	1292110150
Cable outside diameter: 7.4 ± 0.2 mm	

4-pole

SAIL-7/8G-4-1.5U	1292120150
SAIL-7/8W-4-1.5U	1292130150
SAIL-7/8BG-4-1.5U	1292140150
SAIL-7/8BW-4-1.5U	1292150150
Cable outside diameter: 8.0 ± 0.2 mm	

4-pole+PE

SAIL-7/8G-5-1.5U	1292170150
SAIL-7/8W-5-1.5U	1292180150
SAIL-7/8BG-5-1.5U	1292190150
SAIL-7/8BW-5-1.5U	1292200150
Cable outside diameter: 8.7 ± 0.2 mm	

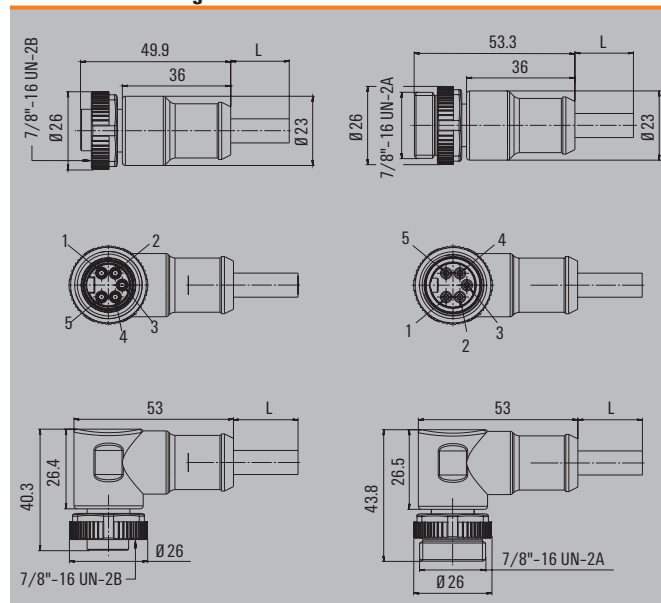
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current / Rated voltage	9 A (4- and 5-pole), 12 A (3-pole) / 300 V
Protection degree	IP68, when screwed in
Core cross-section	1.5 mm ²
Contact surface / Contact material	Au (Gold) / CuZn
Housing main material	PUR
Sheathing colour	black
Temperature range of housing	-40 ... +85 °C
Plugging cycles	≥ 100
Pollution severity	3
Approvals	cULus; UKCA

Dimensioned drawing



Torques and spanner sizes

Torques and distances across flats of the cable gland

The following values for strain relief apply to plug-in connectors with strain relief

Cable Ø	Min. cable pull strength	Recommended torque of the clamping screw
2 - 3	min. 20 N	0.3 - 0.4 Nm
3 - 4	min. 30 N	0.3 - 0.4 Nm
4 - 5	min. 40 N	0.8 - 1.0 Nm
5 - 6	min. 50 N	0.8 - 1.0 Nm
6 - 7	min. 60 N	0.8 - 1.0 Nm
7 - 8	min. 70 N	0.8 - 1.0 Nm
8 - 12	min. 80 N	1.0 - 1.4 Nm
12 - 14	min. 120 N	1.0 - 1.4 Nm
Note: Torque of the: 7/8" plug-in connector: 1.5 Nm (spanner size: 24) M 2.5 Threaded bolt: 0.4 Nm		

Torque applicable for the mounting in enclosures

Cable gland	Recommended tightening torque for built-in plugs
PG 11	6,26 Nm
PG 13,5	6,25 Nm
M20 x 1,5	12,00 Nm
back panel mounting	12,00 Nm
Note:	

M23 Connectors and cables

M23 Connectors and cables	Product Description: SAI M23 Connectors	K.2
	Contact assignment	K.7
	Technical data	K.8
	Overview	K.10
	M23 connector for signal transmission	K.12
	M23 connector for power transmission	K.18
	M23 protective caps	K.22
	Moulded M23 cables	K.23
	SAI distribution boxes M12 with M23	K.24
	Installation instructions - Signal connectors	K.26
	Installation instructions - Power connectors	K.31
	M23 connector	K.36



M23 plug connectors, cables and passive distribution boxes

M23 connectors are mainly used for connecting electrical drives and servo-motors into industrial automation applications. Thanks to very simple handling, they can be used to wire any application efficiently, saving time.

Our broad portfolio of freely configurable plug connectors, overmoulded cables and passive distribution boxes ensures we can offer the perfect solution for every application.

Advantages of our M23 products:

- Broad product portfolio
 - Freely configurable plug-in connectors
 - Overmoulded cables
 - Passive distribution boxes
 - Built-in connectors
- Easy handling of all products





The M23 built in connector

The M23 built in connector provides a custom fit solution for building directly into the device.



M23 connectors for crimping

M23 connectors are easy to handle and operate. This is supported by the type of crimping that is used.



Robust metal housing

The M23 connectors feature an extra robust design.



Solutions for power and signals

The extensive product line includes the key housing shapes, such as angled connectors, coupling connectors and device connectors.



M23 connector for signal transmission
Housings



M23 connector for signal transmission
Built in connector



M23 connector for power transmission
Housings



M23 connector for power transmission
Built-in connector



Moulded M23 cables



SAI distribution boxes

Product Description: SAI M23 Connectors

Technology and requirements

The M23 connectors are mainly used for integrating electrical drives and servo motors into industrial automation facilities. The M23 designation is based on the thread diameter of the connector, as shown in Figures 1 and 2. With their wide variety of inserts and housings, these connectors are equally suited for applications involving signal or power transmission. Applications set in harsh industrial environments place strict requirements on the connector. Much is demanded of the housing, the inner insert and the connector contact. Thermal loads, physical loads, and loads from the transmitted electrical power are commonplace. M23 connectors are capable of carrying a load of up to 250/630 V at 9/30 A.

The connectors must be resistant to the penetration of all particles and substances. They must also comply with the required class of IP protection. The material used for manufacture must be resistant to acid and alkaline solutions that may be used during cleaning or production processes. Also it must not be possible for residues to accumulate in the plug which could later contaminate the production flow. It must not be possible for the plug components to loosen due to vibration. In addition, the cable and connector must have EMC shielding for some applications. This keeps external interference from influencing the signals and it also prevents the transmitted signals in the cable from interfering with other cables or components. The standards and directives (such as the German or European standards) that are followed are basically only recommendations concerning the composition of the connector. A so-called "cold standard" exists for the M23 connectors.

Variants and designs

The variants can be generally classified according to their outer design, into either customisable types, or plastic moulded connectors with pre-connected cables. Both variants are available in male or female versions, and in straight or angled design. Different designs and inserts can be combined to fit the particular application so that an almost limitless variety of combinations is possible. The connector inserts are available in a variety of different pole counts and as either male or female versions. The pole counts also vary in that some contacts in the mating profile may have a larger cross-section than the others. Other types include the device connector variants which are used for contacting and connecting housings. These also come in a variety of designs. The metal alloy in use may differ depending on the particular type of application. For example, stainless steel is used for those variants that will be used in the food processing industry. Each connector is optionally available with EMC protection and a plastic surface.

Customisable connectors

Customisable connectors are almost all manufactured from metal alloys. Variants with plastic housings or fitting nuts are rare and used mostly for customer-specific solutions. Customisable connectors are made up of a housing, a plastic contact carrier, and the contacts themselves. The various housing types can be equipped with the corresponding contact carriers. The carriers differ in their number of poles and the arrangement of the poles. Different types of contacts may also be used within the contact carriers. The shape of the contacts is either male or female. There are also difference in the width, material, and connection system (such as soldered, crimped or screwed).

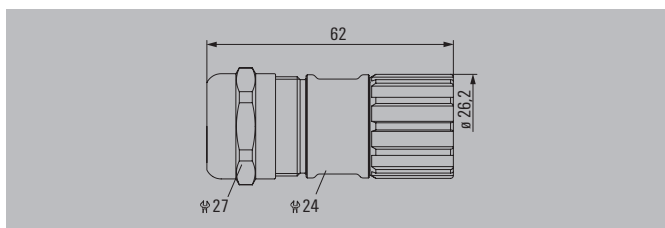


Figure 1: M23 cable connector

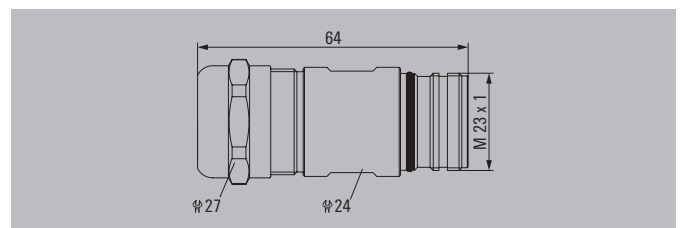


Figure 2: M23 coupling connector

This modular construction allows for a wide variety of combinations to fit any application type. Figure 3 shows the design and assembly of an M23 signal connector. Since the connector is usually put together in the field, the key requirement is that the connector is easy and reliable for the electrician to handle on-site. A good example of convenient

handling is the integrated EMC shielding. An improved shield connection results because the shielding can be connected in less steps and with fewer tools. The complete assembly process must be clear and concise, and should only take a few steps.

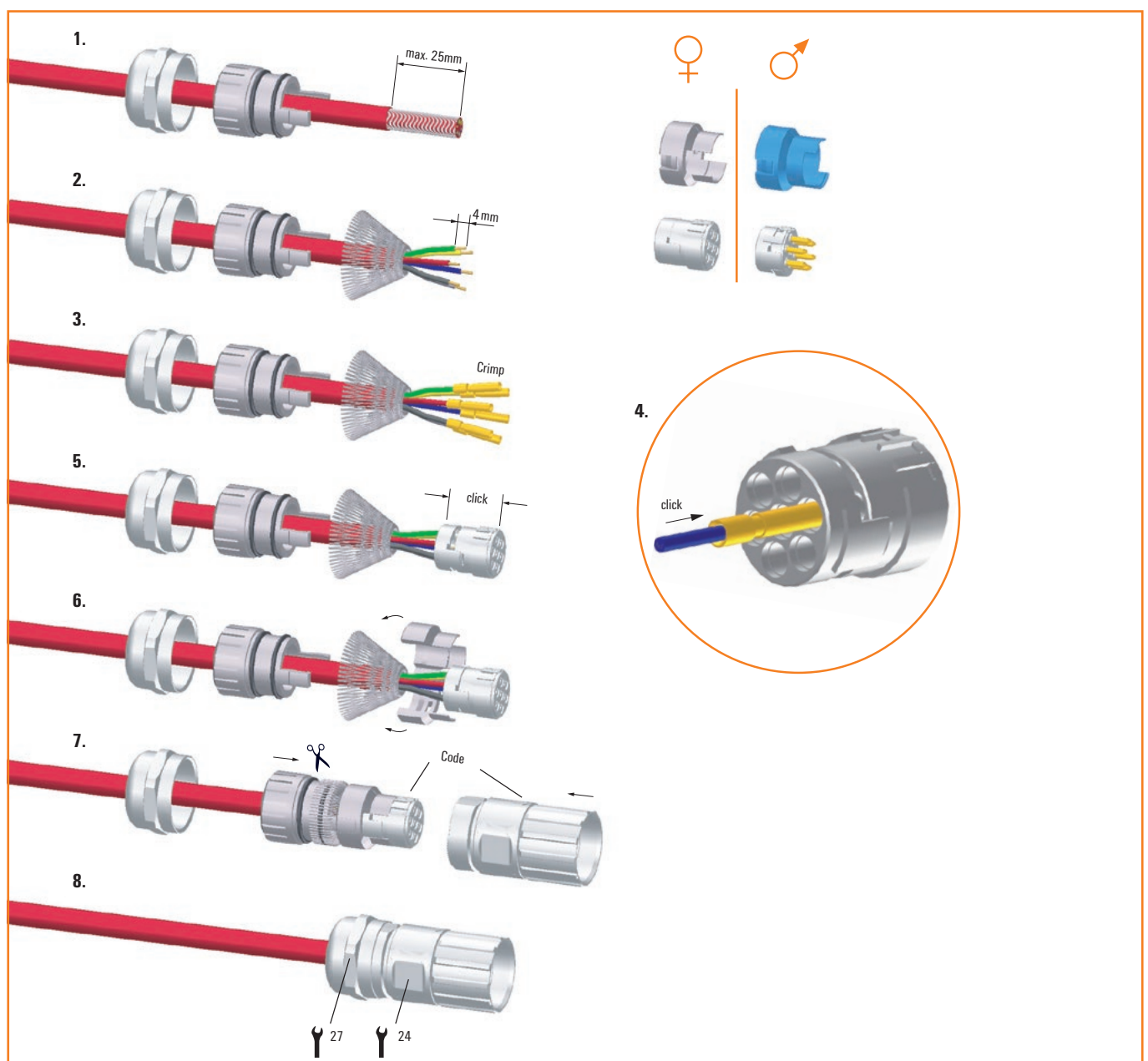


Figure 3: Design and assembly of an M23 connector

Plastic injection moulded connector with connected cable

Plastic injection moulded cables are cables that have already been fitted with connectors. First the cables are connected with the contacts and then these are mounted into the contact carrier. Next, plastic injection moulding is used to cover the cable and contact carrier with a plastic moulding. This ensures a highly stable and well sealed connector housing. The connector must be destroyed for it to be disconnected from its cable. The connector's outer form and material is put together by a plastic processing tool. The advantage of a moulded cable is that the connection between the cable and the connector has already been tested at the production factory. The electrician need



Plastic injection-moulded M23 connector

only adjust the length. Depending on the application, he may choose to use another connector on the open end or connect the individual cable wires directly (for example, to a terminal block). The advantages of this variant type includes the inexpensive assembly of large batches, the high degree of automation and minimal amount of material used. High reliability and an excellent seal are two additional advantages.

Connector usage and application

M23 connectors are mainly used for integrating within machine and facility construction applications. These applications require connections with a long life span and high reliability. The failure of a single connector could lead to the failure of the entire production line. It's important to avoid facility outages caused by a connector malfunction, so the machine and facility construction industry relies on connectors with the advantages listed above. Both signals and power must be transferred in such applications. The connector and the cable must be able to withstand harsh industrial conditions. Cables may be under stress from constant motion, in particular for applications involving robotics or dragline chains. Special cables with a specific maximum bending radius are used for such applications (for example, the bending radius may be 10d, i.e., ten times the cable diameter). When constructing a facility, a variety of

connection scenarios are possible based on the particular conditions or adaptations of existing facilities. The length or configuration of the cable must be adapted to fit these conditions. If space is constricted, for instance, it may be necessary to replace a straight connector with an angled one.

Cables can be equipped with both a moulded (extruded) connector and a customisable connector. This ensures proper functionality while providing the flexibility to adapt to changing conditions on location. Safe connections can thus be established with any possible connector combination or at any protective class required. This gives the facility planner the safety he needs. And the electrician on-site can set up the facility properly because he has sufficient

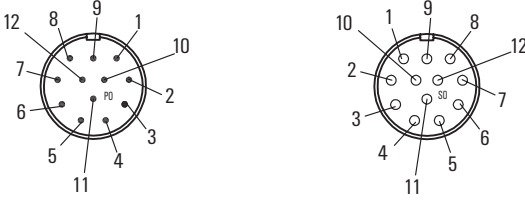
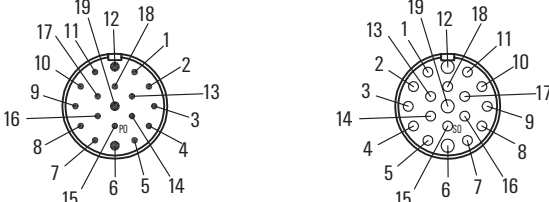


SAI distribution box with M23 connector

flexibility to adapt to uncertain conditions. For sensor systems, connectors with high pole counts are often used on SAI distribution boxes. Individual sensors are connected to the distribution box where the signals are then centralised. They are then transferred to the controller using a cable with an M23 connector. The most common use for transmitting power involves the connection of servo-motors in machines. M23 connectors are used for this purpose because of their sturdy and compact design and their high power-carrying capacities. Because of the size of the M23 connector, it can also be used in a hybrid version for transmitting both signals and power. The signal-carrying contacts are then shielded within the connector to ensure that the transmitted voltages do not interfere with the signals.

Contact assignment SAI M23

M23 12- and 19-pole, for SAI distribution boxes and cables

12-pole		Pole	Colour code	Plug-in station	Contact M12
		1	white	1	4
		2	green	2	4
		3	yellow	3	4
		4	grey	4	4
		5	pink	5	4
		6	red	6	4
		7	black	7	4
		8	violet	8	4
		9	blue (-)	1-8	3
		10	blue (-)	1-8	3
		11	brown (+)	1-8	1
		12	green-yellow (PE)	1-8	5
19-pole		Pole	Colour code	Plug-in station	Contact M12
		1	violet	8	4
		2	red	6	4
		3	grey	4	4
		4	red/blue	2	2
		5	green	2	4
		7	grey/pink	1	2
		8	white/green	3	2
		9	white/yellow	5	2
		10	white/grey	7	2
		11	black	7	4
		13	yellow/brown	6	2
		14	brown/green	4	2
		15	white	1	4
		16	yellow	3	4
		17	pink	5	4
		18	grey/brown	8	2
		6	blue (-)	1-8	3
		12	green-yellow (PE)	1-8	5
		19	brown (+)	1-8	1

Description code

Housing	
G	Inner thread
K	Outer thread
W	angled
S	Signal connectors
L	Power connectors
7/12	Cable passage
Inserts	
BE	Female insert
SE	Male insert
4/4	Number of contacts, here for 4 sensor and 4 power contacts
Contacts	
KBC	Female contact
Wire cross-section	
0.08/0.56	0.08 mm² - 0.56 mm²
0.25/1.0	0.25 mm² - 1.0 mm²
0.75/2.5	0.75 mm² - 2.5 mm²
Moulded M23 cables	
SAIS	Cable with male plug
SAIB	Cable with female plug
12p	12-pole
19p	19-pole
AN	angled
ST	straight
...M	Length in metres

Contact partitioning

Signal connectors			
Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
7-pole			7
9-pole	8		1
12-pole	12		
16-pole	16		
17-pole	17		
19-pole	16	3	
Power connectors			
Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
4+4-pole	4		4

Contacts for signal plugs cannot be used in inserts for power plugs and vice versa.

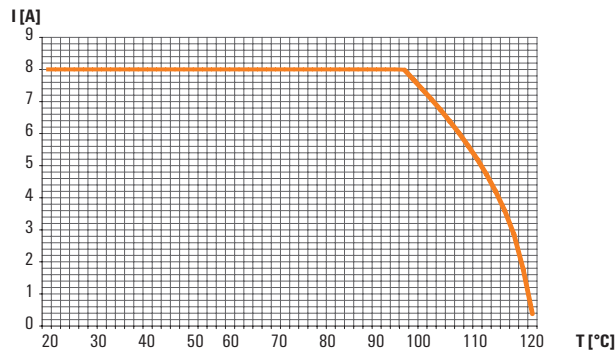
Signal connectors

Technical data

Mechanical data									
Housing		Copper-Zinc alloy Die Casting							
Housing surface		Nickel plated brass other surface upon request							
Inserts (for contacts)		Thermoplastic Polyamid PA 6 (Nylon 6/6), PBT / Fire protection class V-0							
Contacts		Copper-Zinc alloy							
Contact surface at point of contact		Nickel and gold plated (0.25 µm Au)							
Minimum mating cycles		> 1000							
Seals / O-Rings		Buna-N standard optional Viton® (Viton is a registered trademark of DuPont)							
Temperature range		-40 °C – 125 °C							
Type of contacts		Crimp, solder, dip-solder (PCB)							
Protection, Imperviousness		IP 67 / IP 69 K per EN 60 529 (connected)							
Cable diameter range		3 – 17 mm							
Electrical Data									
Number of positions		6	7	9		12	16	17	19
Number of contacts		6	7	8	1	12	16	17	16 3
Contact-Ø		mm	2	2	1 2	1	1	1	1 1.5
Nominal current		A	20	20	8 20	8	8	8	8 10
Nominal voltage at pollution degree 2		V~	630	630	500	500	400	400	320
Nominal voltage at pollution degree 3		V~	300	300	200	200	160	160	100
Test voltage		V~	2500	2500	2500	2500	1500	1500	1500
Insulation resistance		MΩ	> 10 ¹⁰	> 10 ¹⁰	> 10 ¹⁰	> 10 ¹⁰	> 10 ⁶	> 10 ⁶	> 10 ⁶
Max. contact resistance		mΩ	3	3	3	3	3	3	3

Derating curve

Straight Connectors male + female M 23, 12-pole,
wires 12 x AWG17



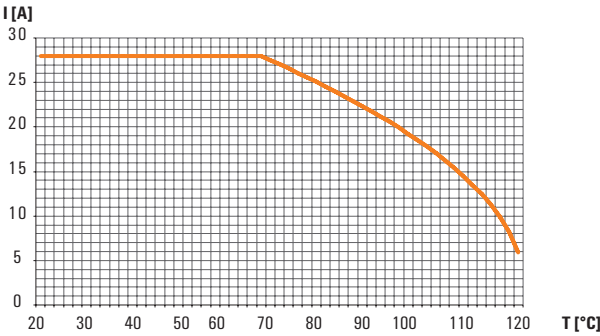
Power connectors

Technical data

Mechanical data			
Housing		Copper-Zinc alloy Die Casting	
Housing surface		Nickel plated brass other surface upon request	
Inserts (for contacts)		Thermoplastic Polyamid PA 6 (Nylon 6/6), PBT / Fire protection class V-0	
Contacts		Copper-Zinc alloy	
Contact surface at point of contact		Nickel and gold plated (0.25 µm Au)	
Minimum mating cycles		> 1000	
Seals / O-Rings		Buna-N standard optional Viton® (Viton is a registered trademark of DuPont)	
Temperature range		-40 °C - 125 °C	
Type of contacts		Crimp	
Protection, Imperviousness		IP 67 / IP 69 K per EN 60 529 (connected)	
Cable diameter range		7 - 17 mm	
Electrical Data			
Number of positions		5 + PE	4/4
Number of contacts		6	4 4
Contact-Ø	mm	2	1 2
Nominal current	A	28	8 28
Nominal voltage at pollution degree 2	V~	800	300 800
Nominal voltage at pollution degree 3	V~	600	300 600
Test voltage	V~	4000	2500 4000
Insulation resistance	MΩ	> 10 ¹³	> 10 ¹³
Max. contact resistance	mΩ	3	3

Derating curve

Straight connectors male + female M 23, 5 + PE,
wires 5 x AWG12

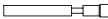


M23 connector for signal transmission

All customisable connectors can also be assembled together with shielded cables.

Housing	Contact inserts*	Contacts
Cable connector 	6-pole 	Crimp pin 1 mm rotated 0.08 – 0.56 mm ² 
Coupling connector 	7-pole 	Crimp pin 1 mm rotated 0.14 – 1.00 mm ² 
Angled connector 	9-pole 	Crimp pin 1 mm rotated 1.00 – 1.50 mm ² 
Angled connector (coupling) 	12-pole 	Crimp socket 1 mm rotated 0.08 – 0.56 mm ² 
Device connector (front panel) 	16-pole 	Crimp socket 1 mm rotated 0.14 – 1.00 mm ² 
Device connector with knurled nut 	17-pole 	Crimp socket 1 mm rotated 1.00 – 1.50 mm ² 
Device connector (single-hole mount) 	19-pole 	Crimp pin 2 mm rotated 0.14 – 0.56 mm ² 
Device connector (angled) 		Crimp socket 2 mm rotated 0.56 – 1.00 mm ² 
Device connector (back panel) 		Crimp pin 2 mm rotated 0.75 – 2.50 mm ² 
		Crimp socket 2 mm rotated 0.75 – 2.50 mm ² 
	* Solder and crimp inserts	

M23 connector for power transmission

Housing		Contact inserts*		Contacts	
Cable connector		6 x Male 2 mm		Crimp pin 1 mm turned 0.25 - 1.00 mm²	
Coupling connector		6 x Socket 2 mm		Crimp socket 1 mm turned 0.25 - 1.00 mm²	
Angled connector		4 x Male 1 mm 4 x Male 2 mm		Crimp pin 2 mm turned 0.75 - 2.50 mm²	
Angled connector (coupling)		4 x Socket 1 mm 4 x Socket 2 mm		Crimp pin 2 mm turned 2.50 - 4.00 mm²	
Device connector (front panel)				Crimp socket 2 mm turned 0.75 - 2.50 mm²	
Device connector with knurled nut				Crimp socket 2 mm turned 2.50 - 4.00 mm²	
Device connector (back panel)					
Device connector (back panel)					
Device connector (angled)					
		* Crimp inserts			

Moulded M23 cables

Housing
Cable connector
Coupling connector
Angled connector
Angled connector (coupling)

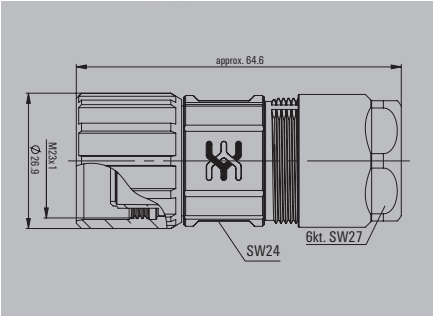


M23 connector for signal transmission

Housing

For cable diameters: 7 - 12 mm and 11 - 17 mm

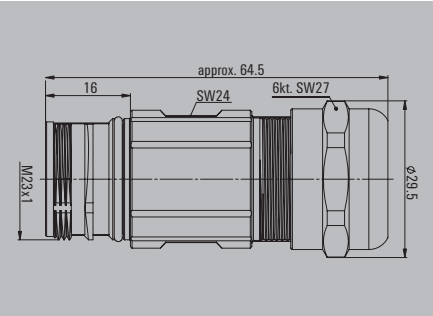
Cable plug-in connector



Ordering data

Type	Qty.	Order No.
SAI-M23-GS-11/17	1	1299390000
Inserts and contacts must be ordered separately		

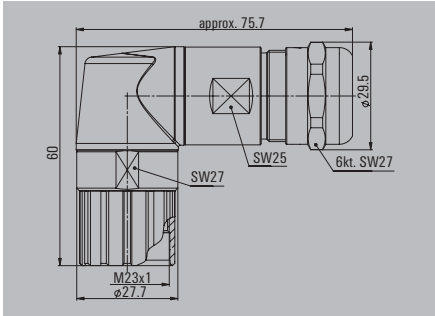
Coupling plug-in connector



Ordering data

Type	Qty.	Order No.
SAI-M23-KS-7/12	1	1169900000
Inserts and contacts must be ordered separately		

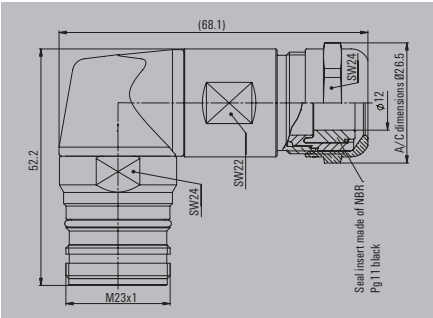
Angle plug-in connector



Ordering data

Type	Qty.	Order No.
SAI-M23-GSW-S-7/12	1	1169920000
Inserts and contacts must be ordered separately		

Angle plug-in connector coupling

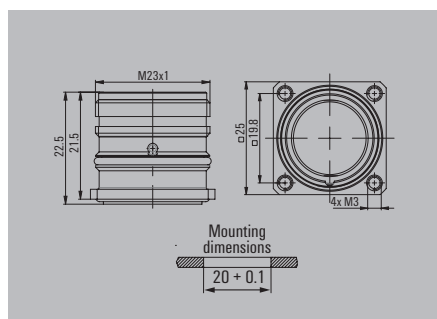


Ordering data

Type	Qty.	Order No.
SAIL-M23-KSW-7/12	1	1169930000
Inserts and contacts must be ordered separately		

Device connector housing

Device connector (front wall)

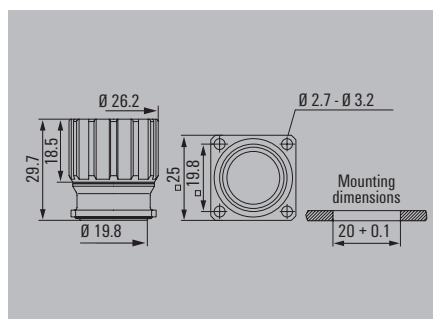


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-VW	1	1169940000

Inserts and contacts must be ordered separately

Device connector with knurled nut



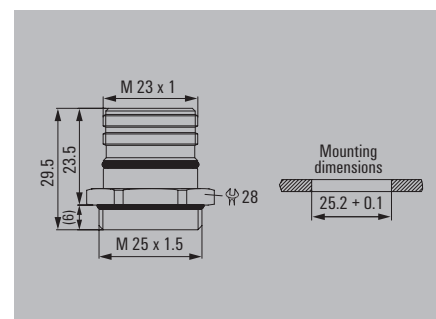
Ordering data

Type	Qty.	Order No.
SAIE-M23-S-RM	1	1169950000

Inserts and contacts must be ordered separately
Assembly tool: 1238870000

Device connector, single-hole mount

for male and female inserts

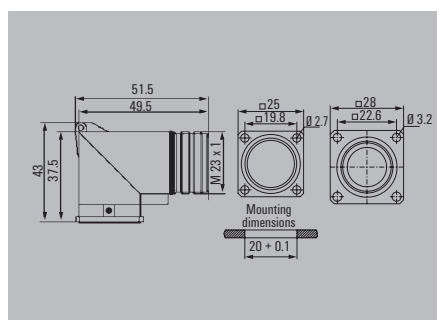


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-EM	1	1169970000

Inserts and contacts must be ordered separately

Device connector, angled

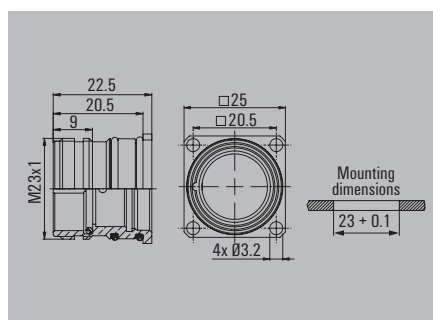


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-W	1	1169980000

Inserts and contacts must be ordered separately

Device connector, rear wall



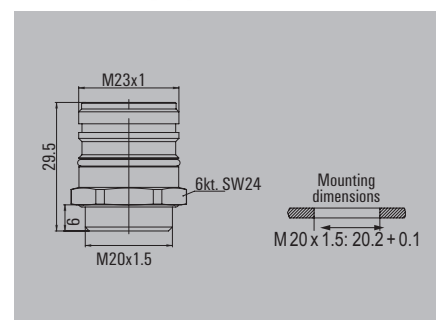
Ordering data

Type	Qty.	Order No.
SAIE-M23-S-HW	1	1169990000

Inserts and contacts must be ordered separately

Device connector, single-hole mounting

only for male inserts



Ordering data

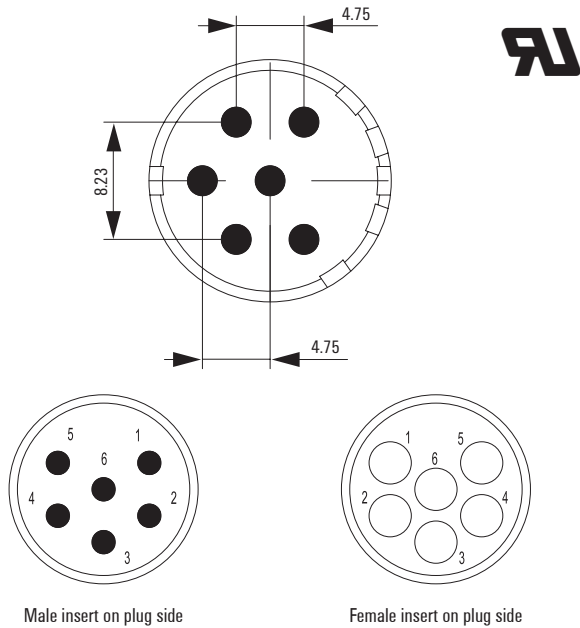
Type	Qty.	Order No.
SAIE-M23S-S-EM-M20	1	1373440000

Inserts and contacts must be ordered separately

M23 connector for signal transmission

Inserts

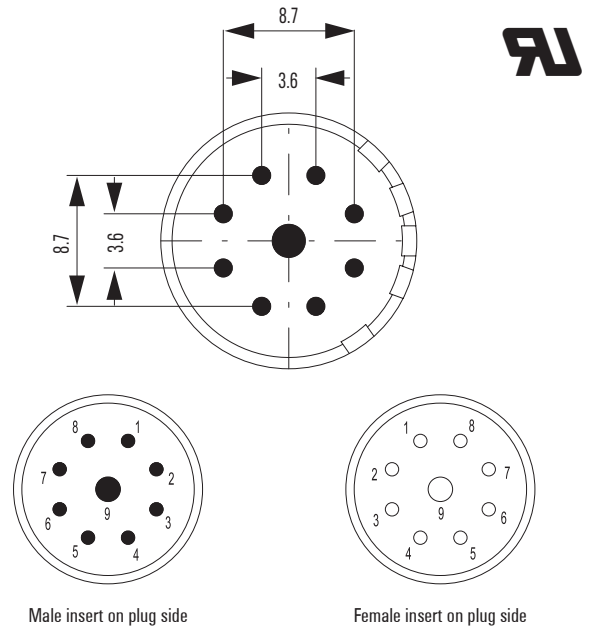
6-pole



Ordering data

	Type	Qty.	Order No.
Insert 6-pole male	SAI-M23-SE-6	1	1170000000
Insert 6-pole socket	SAI-M23-BE-6	1	1170020000
Contacts must be ordered separately.			

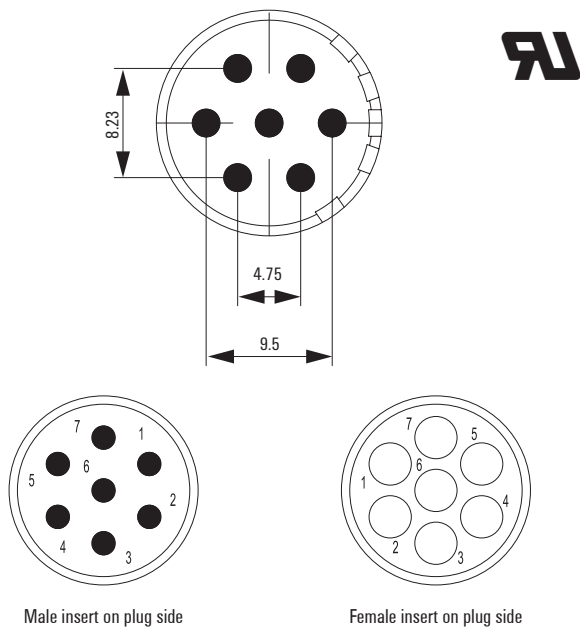
9-pole



Ordering data

	Type	Qty.	Order No.
Insert 9-pole male	SAI-M23-SE-9	1	1170050000
Insert 9-pole socket	SAI-M23-BE-9	1	1170060000
Contacts must be ordered separately.			

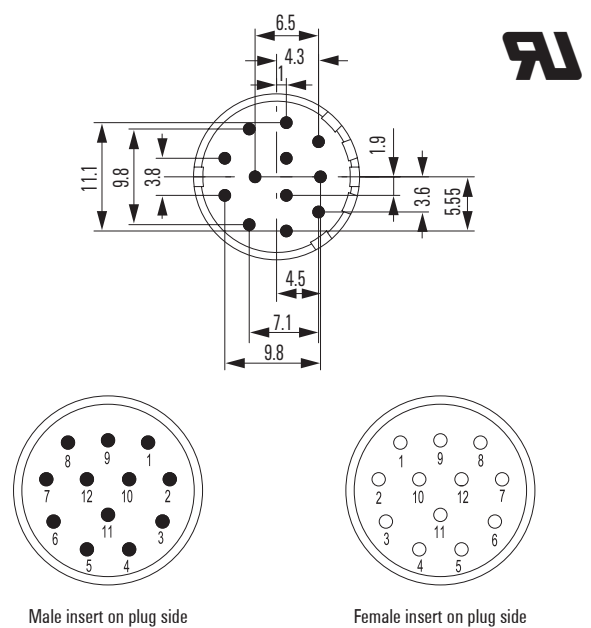
7-pole



Ordering data

	Type	Qty.	Order No.
Insert 7-pole male	SAI-M23-SE-7	1	1170030000
Insert 7-pole socket	SAI-M23-BE-7	1	1170040000
Contacts must be ordered separately.			

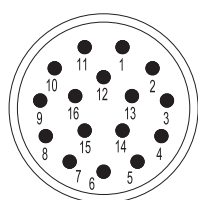
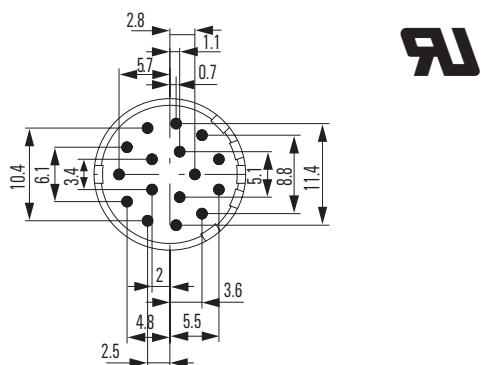
12-pole



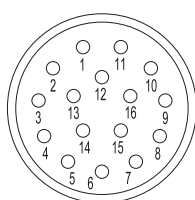
Ordering data

	Type	Qty.	Order No.
Insert 12-pole male	SAI-M23-SE-12	1	1170070000
Insert 12-pole socket	SAI-M23-BE-12	1	1995850000
Reverse flow socket	SAI-M23-BE-12-G	1	1296730000
Contacts must be ordered separately.			

16-pole



Male insert on plug side



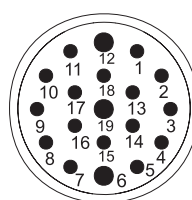
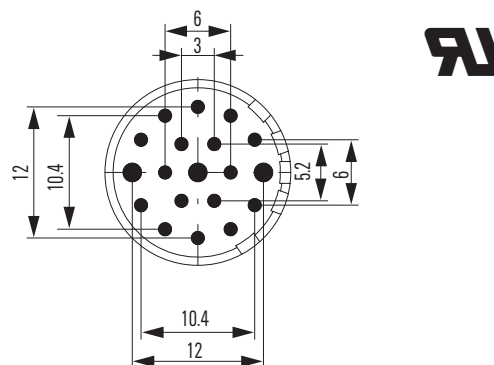
Female insert on plug side

Ordering data

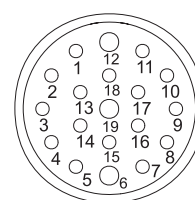
	Type	Qty.	Order No.
Insert 16-pole male	SAI-M23-SE-16	1	1170080000
Insert 16-pole socket	SAI-M23-BE-16	1	1170090000

Contacts must be ordered separately.

19-pole



Male insert on plug side



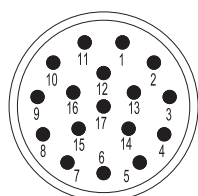
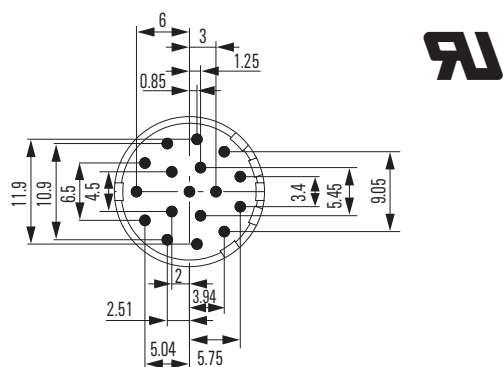
Female insert on plug side

Ordering data

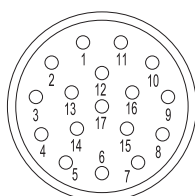
	Type	Qty.	Order No.
Insert 19-pole male	SAI-M23-SE-19	1	1170120000
Insert 19-pole socket	SAI-M23-BE-19	1	1170130000

Contacts must be ordered separately.

17-pole



Male insert on plug side



Female insert on plug side

Ordering data

	Type	Qty.	Order No.
Insert 17-pole male	SAI-M23-SE-17	1	1170100000
Insert 17-pole socket	SAI-M23-BE-17	1	1170110000

Contacts must be ordered separately.

Number of contacts required per application

Signal connectors			
Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
7-pole			7
9-pole	8		1
12-pole	12		
16-pole	16		
17-pole	17		
19-pole	16	3	

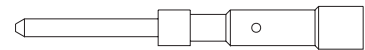
Contacts for signal connectors cannot be used in applications of power plug connectors, and vice versa.

M23 connector for signal transmission

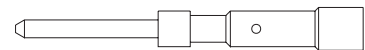
Contacts

Male 1 mm

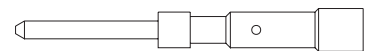
Core cross-section: 0.08 mm² to 0.50 mm²



Core cross-section: 0.14 mm² to 1.00 mm²

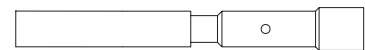


Core cross-section: 1.00 mm² to 1.50 mm²

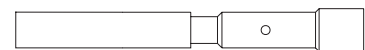


Female 1 mm

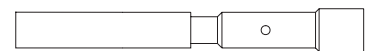
Core cross-section: 0.08 mm² to 0.50 mm²



Core cross-section: 0.34 mm² to 1.00 mm²



Core cross-section: 1.00 mm² to 1.50 mm²



with integrated SLS® technology

Ordering data

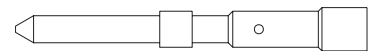
	Type	Qty.	Order No.
1.0 mm male (0.08-0.56)	SAI-M23-KSC-0.08/0.56	50	1170140000
1.0 mm male (0.14-1.00)	SAI-M23-KSC-0.14/1.00	50	1170150000
1.0 mm male (1.00-1.50)	SAI-M23-KSC-1.00-1.5	50	1170170000

Ordering data

	Type	Qty.	Order No.
1.0 mm socket (0.08-0.56)	SAI-M23-KBC-0.08/0.56	50	1995860000
1.0 mm socket (0.34-1.00)	SAI-M23-KBC-0.34/1.00	50	1170180000
1.0 mm socket (1.00-1.50)	SAI-M23-KBC-1.00-1.5	50	1170210000

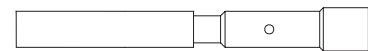
Male 1.5 mm

Core cross-section: 0.14 mm² to 1.00 mm²

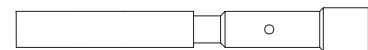


Female 1.5 mm

Core cross-section: 0.14 mm² to 0.50 mm²



Core cross-section: 0.50 mm² to 1.00 mm²



with integrated SLS® technology

Ordering data

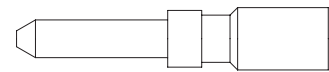
	Type	Qty.	Order No.
1.5 mm male (0.14-1.00)	SAI-M23-KSC-1.5-0.14-1	50	1170220000

Ordering data

	Type	Qty.	Order No.
1.5 mm socket (0.14-0.56)	SAI-M23-KBC-1.5-.14-.56	50	1170230000
1.5 mm socket (0.56-1.00)	SAI-M23-KBC-1.5-.56-1.0	50	1170240000

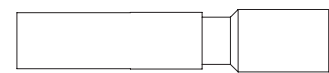
Male 2 mm

Core cross-section: 0.75 mm² to 2.00 mm²



Female 2 mm

Core cross-section: 0.75 mm² to 2.00 mm²



Ordering data

Type	Qty.	Order No.
2.0 mm male (0.75-2.00)	SAI-M23-KSC-2-0.75-2.50	501170250000

Ordering data

Type	Qty.	Order No.
2.0 mm socket (0.75-2.00)	SAI-M23-KBC-2-0.75-2.50	501170260000

Number of contacts required per application

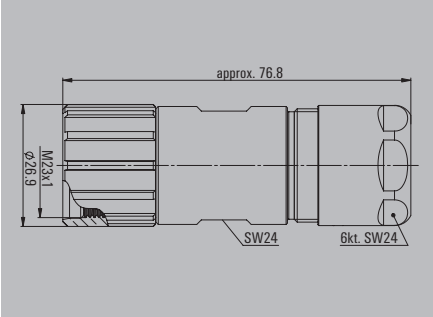
Signal connectors			
Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
7-pole			7
9-pole	8		1
12-pole	12		
16-pole	16		
17-pole	17		
19-pole	16	3	
Contacts for signal connectors cannot be used in applications of power plug connectors, and vice versa.			

M23 connector for power transmission

Housing

For cables with outer diameter: 7 - 12 mm

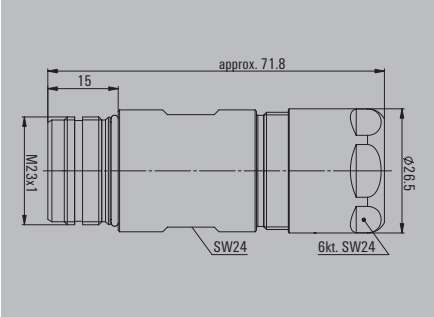
Cable plug-in connector



Ordering data

Type	Qty.	Order No.
SAI-M23-GS-L-7/12	1	1995800000
Inserts and contacts must be ordered separately		

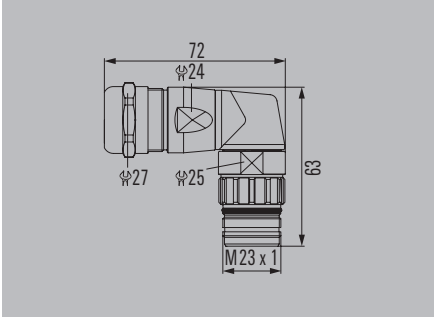
Coupling plug-in connector



Ordering data

Type	Qty.	Order No.
SAI-M23-KS-L-7/12	1	1170270000
Inserts and contacts must be ordered separately		

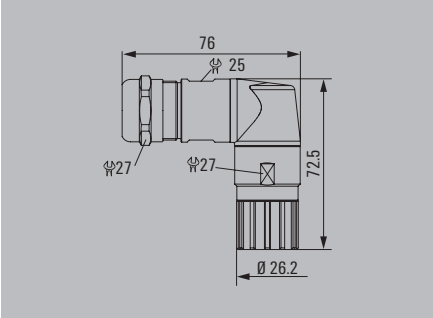
Angle plug-in connector



Ordering data

Type	Qty.	Order No.
SAI-M23-GSW-L-7/12	1	1170280000
Inserts and contacts must be ordered separately		

Angle plug-in connector coupling

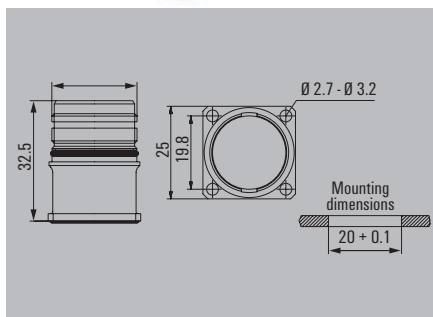


Ordering data

Type	Qty.	Order No.
SAI-M23-KSW-L-7/12	1	1170290000
Inserts and contacts must be ordered separately		

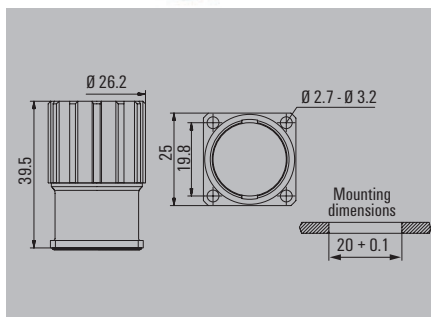
Device connector housing

With 3.2 mm fixing holes

Device connector (front wall)**Ordering data**

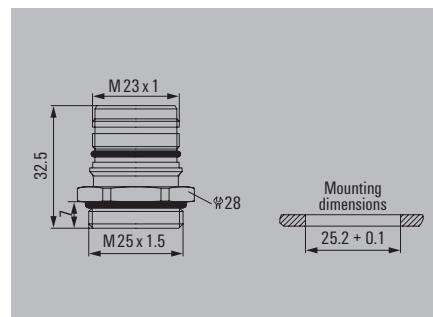
Type	Qty.	Order No.
SAIE-M23-L-VW	1	1170300000

Inserts and contacts must be ordered separately

Device connector with knurled nut**Ordering data**

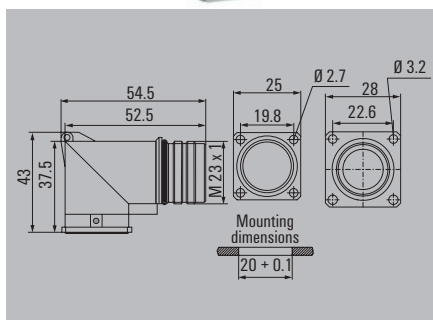
Type	Qty.	Order No.
SAIE-M23-L-RM	1	1170310000

Inserts and contacts must be ordered separately
Assembly tool: 1238870000

Device connector, single-hole mount**Ordering data**

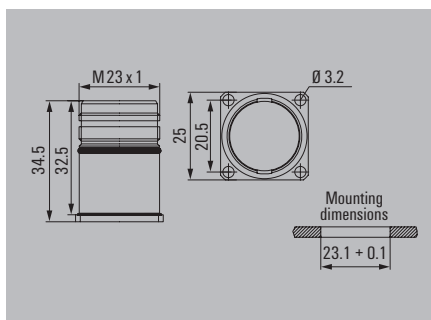
Type	Qty.	Order No.
SAIE-M23-L-EM	1	1170320000

Inserts and contacts must be ordered separately

Device connector, angled**Ordering data**

Type	Qty.	Order No.
SAIE-M23-L-W 25X25	1	1170330000

Inserts and contacts must be ordered separately

Device connector, rear wall**Ordering data**

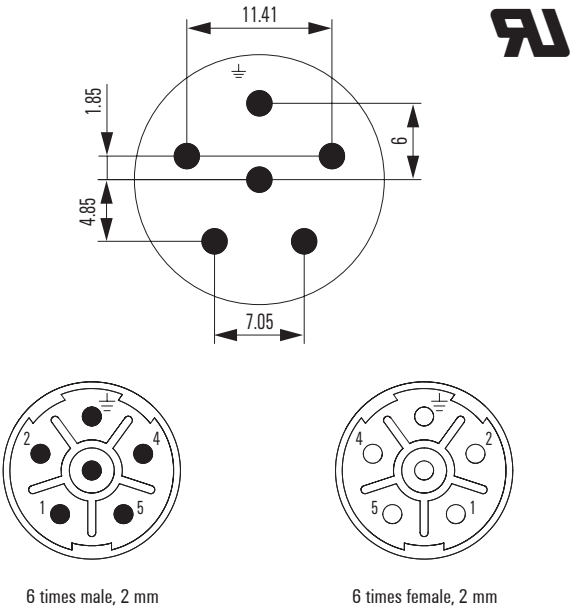
Type	Qty.	Order No.
SAIE-M23-L-HW	1	1170340000

Inserts and contacts must be ordered separately

M23 connector for power transmission

Inserts

5 + PE



Ordering data

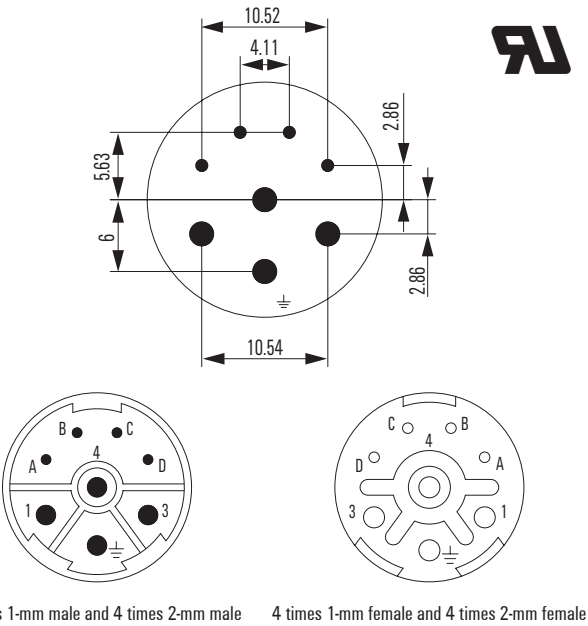
	Type	Qty.	Order No.
6 times male 2 mm	SAH-M23-SE-L-6	1	1170350000
6 times female, 2 mm	SAH-M23-BE-L-6	1	1170370000
Contacts must be ordered separately.			

Contact partitioning

Power connectors			
Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
4+4-pole	4		4

Contacts for signal plugs cannot be used in inserts for power plugs and vice versa.

4/4



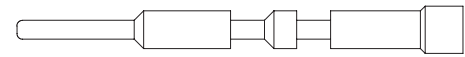
Ordering data

	Type	Qty.	Order No.
4 times 1-mm male and 4 times 2-mm male	SAH-M23-SE-L-4/4	1	1170380000
4 times 1-mm female and 4 times 2-mm female	SAH-M23-BE-L-4/4	1	1995810000
Contacts must be ordered separately.			

Contacts

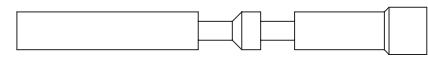
Male 1 mm

0.25 mm² to 1.00 mm²



Female 1 mm

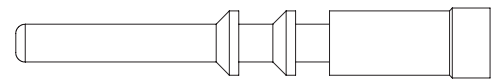
0.25 mm² to 1.00 mm²



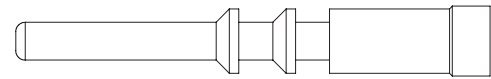
with integrated SLS® technology

Male 2 mm

0.75 mm² to 2.50 mm²

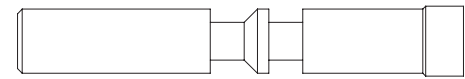


2.50 mm² to 4.00 mm²

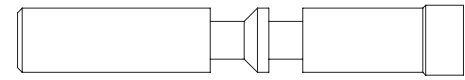


Female 2 mm

0.75 mm² to 2.50 mm²



2.50 mm² to 4.00 mm²



Ordering data

	Type	Qty.	Order No.
1 mm Male (0.25-1.00)	SAI-M23-KSC-0.25-1.0	50	1170390000

Ordering data

	Type	Qty.	Order No.
1 mm Socket (0.25-1.00)	SAI-M23-KBC-0.25-1.0	50	1995830000

Ordering data

	Type	Qty.	Order No.
2 mm Male (0.75-2.5)	SAI-M23-KSC-L-0.75-2.5	50	1170400000
2 mm Male (2.5-4.00)	SAI-M23-KSC-L-2.5-4.0	50	1170410000

Ordering data

	Type	Qty.	Order No.
2 mm Socket (0.75-2.5)	SAI-M23-KBC-L-0.75-2.5	50	1995820000
2 mm Socket (2.5-4.00)	SAI-M23-KBC-L-2.5-4.0	50	1170420000

Contact partitioning

Power connectors			
Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
4+4-pole	4		4

Contacts for signal plugs cannot be used in inserts for power plugs and vice versa.

M23 protective caps

M23 protective caps

M23 protective cap

Brass, for inner thread
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-M	1	1244790000

M23 protective cap

Brass, for inner thread
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-M-FS	1	1170810000

M23 protective cap

Plastic, for inner thread
IP20



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-M-P	25	1408280000

M23 protective cap

Brass, for external thread
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-F	1	1416410000

M23 protective cap

Brass, for external thread
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-F-FS	1	1417920000

M23 protective cap

Plastic, for external thread
IP20

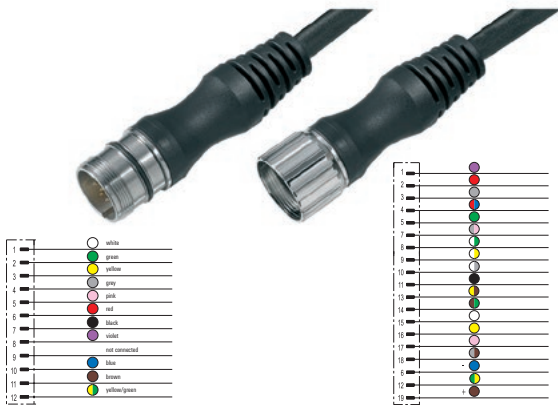
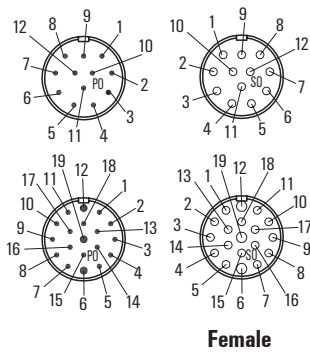


Ordering data

Type	Qty.	Order No.
SAI-M23-SK-F-P	25	1408270000



M23 cables



Ordering data

Male, straight	
with external thread	1 m
Male, angled	
with external thread	1 m
Female, straight	
with internal thread	1 m
Female, angled	
with internal thread	1 m
Note	

	12-pole
SAIS-M23-12P-ST-1,0M	1906280100
SAIS-M23-12P-AN-1,0M	1906290100
SAIB-M23-12P-ST-1,0M	1886440100
SAIB-M23-12P-AN-1,0M	1877440100
Other lengths on request	

	19-pole
SAIS-M23-19P-ST-1,0M	1818160100
SAIS-M23-19P-AN-1,0M	1818090100
SAIB-M23-19P-ST-1,0M	1818180100
SAIB-M23-19P-AN-1,0M	1818140100
Other lengths on request	

Standard cable lengths

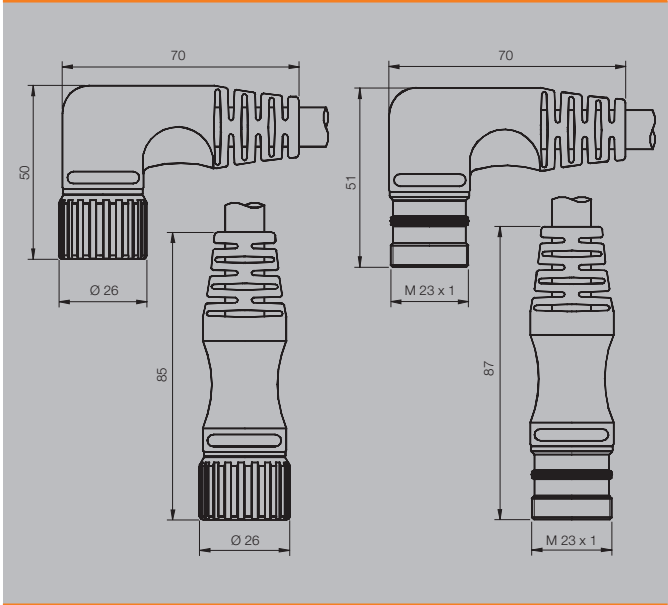
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Wire cross section	3 x 0.75 mm ² + 8 x 0.34 mm ²
Rated voltage	240 V (12-pole) / 120 V (19-pole)
Rated current	8 A
Temperature range of housing	-25...+80 °C
Contact surface	Gold-plated
Protection degree	IP67
AF size	
Tightening torque	M23: 2.5 Nm
Approvals	CE; cURus; UKCA

Chapter W includes additional technical specifications for the cable

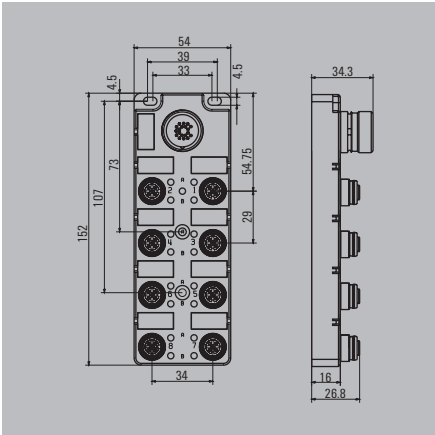
Dimensioned drawing



SAI distribution boxes M12 with M23

With M23 outlet

- PNP switching
- With LEDs



Ordering data

4-channel	
	M23 outlet, 12-pole
	M23 outlet, 19-pole
8-channel	
	M23 outlet, 12-pole
	M23 outlet, 19-pole
Note	

SAI-4/8-S

4-pole

Type	Qty.	Order No.
SAI-4-S 4P FC	1	1847960000
SAI-8-S 4P FC	1	1847920000
Other versions on request		

SAI-4/8-S

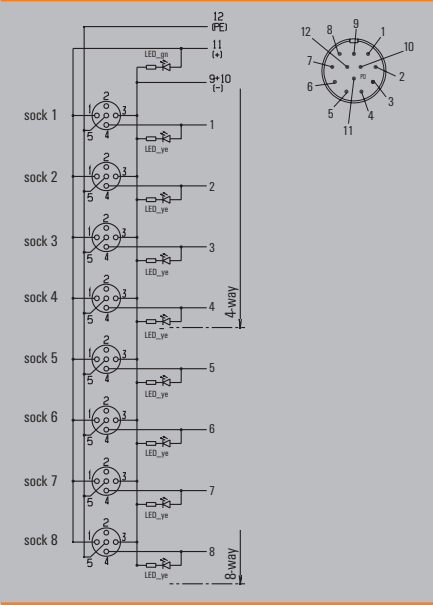
5-pole

Type	Qty.	Order No.
SAI-4-S 5P FC	1	1847970000
SAI-8-S 5P FC	1	1848040000
Other versions on request		

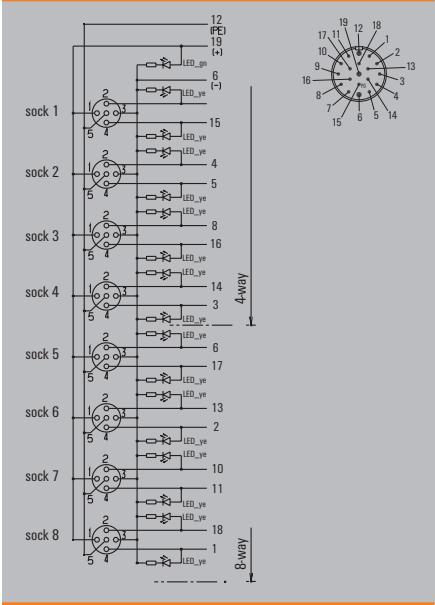
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram

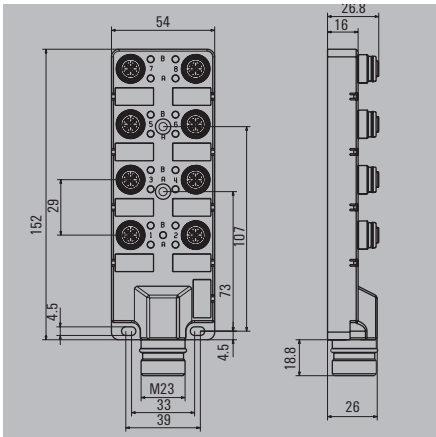


Wiring diagram



With M23 outlet on face end

- PNP switching
- With LEDs



Ordering data

8-channel	
	M23 outlet, 12-pole M23 outlet, 19-pole
Note	

SAI-4/8-SH

4-pole

Type	Qty.	Order No.
SAI-8-SH 4P FC	1	1859120000

SAI-4/8-SH

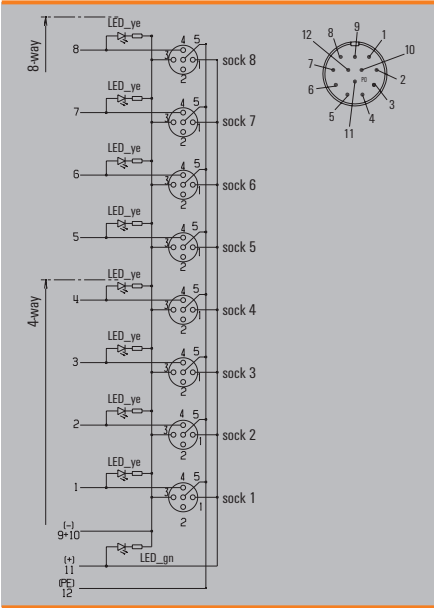
5-pole

Type	Qty.	Order No.
SAI-8-SH 5P FC	1	1859140000

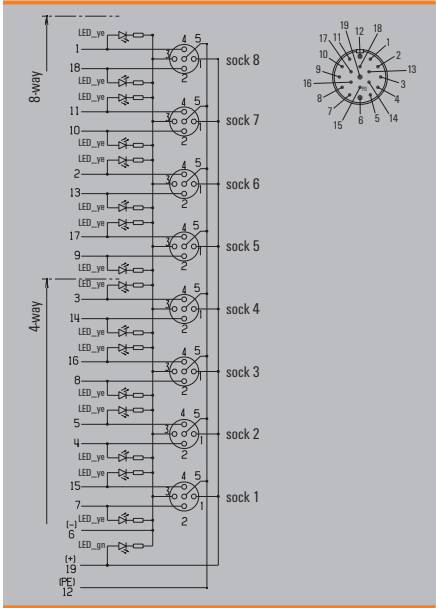
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

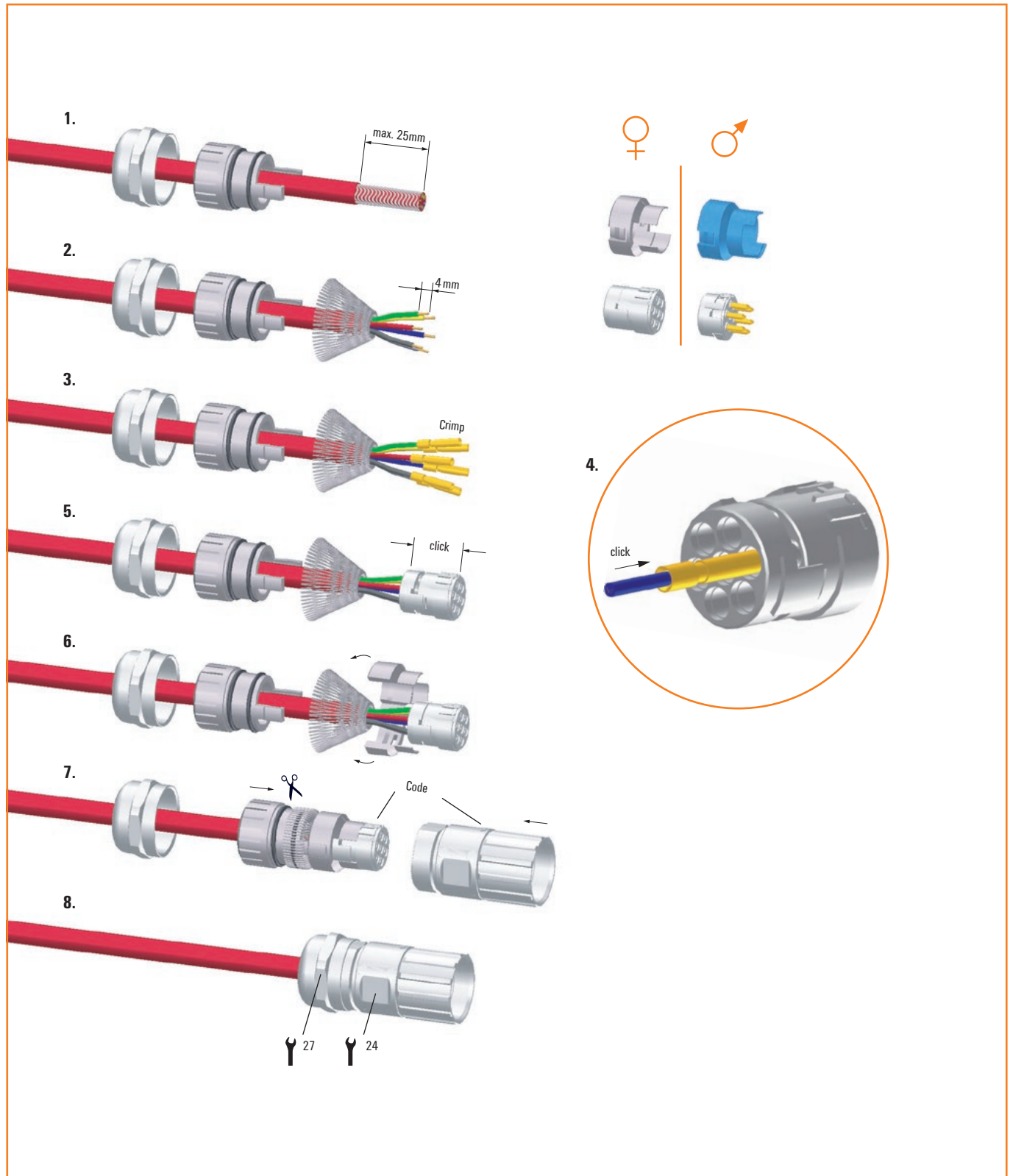
Wiring diagram



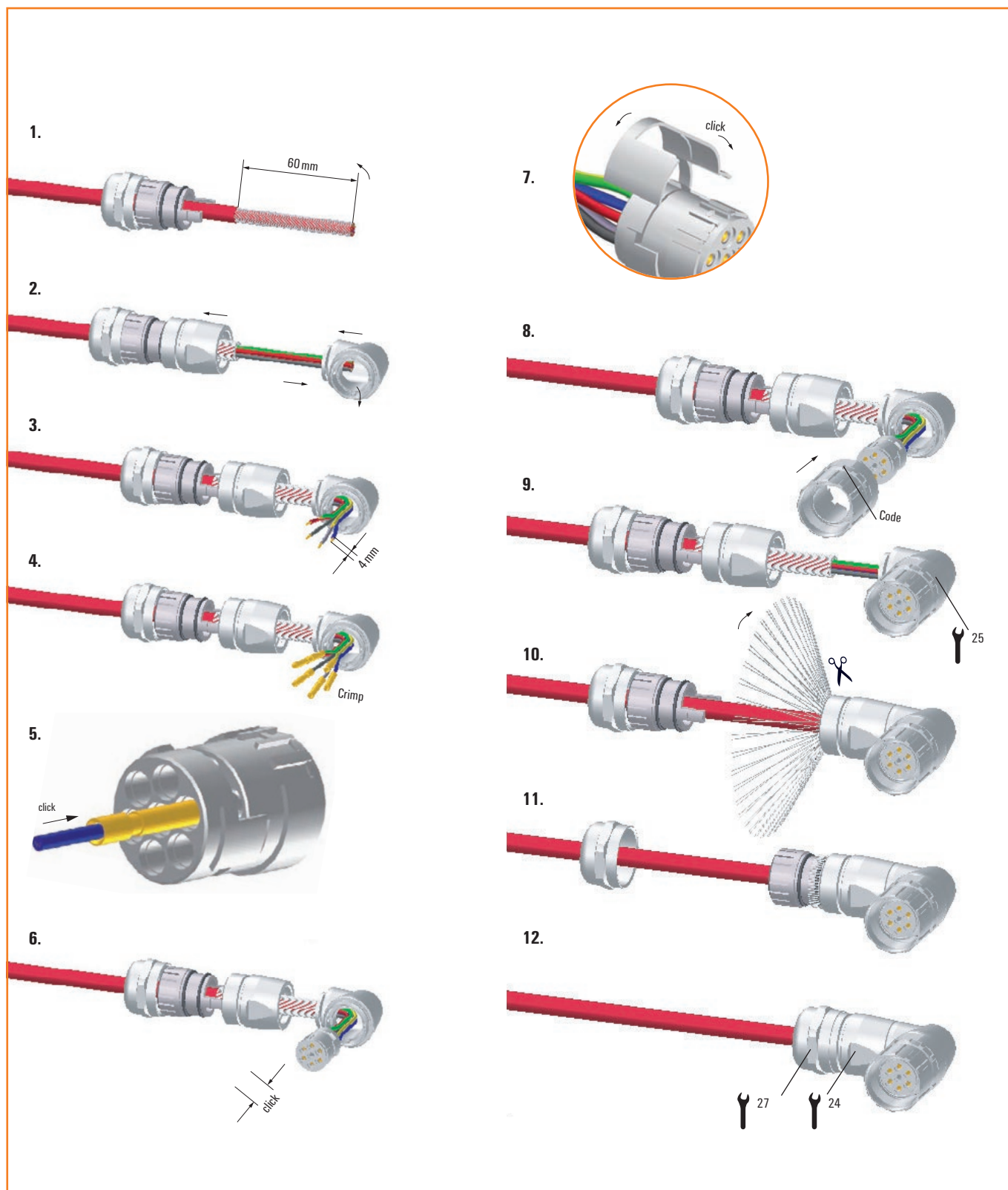
Wiring diagram



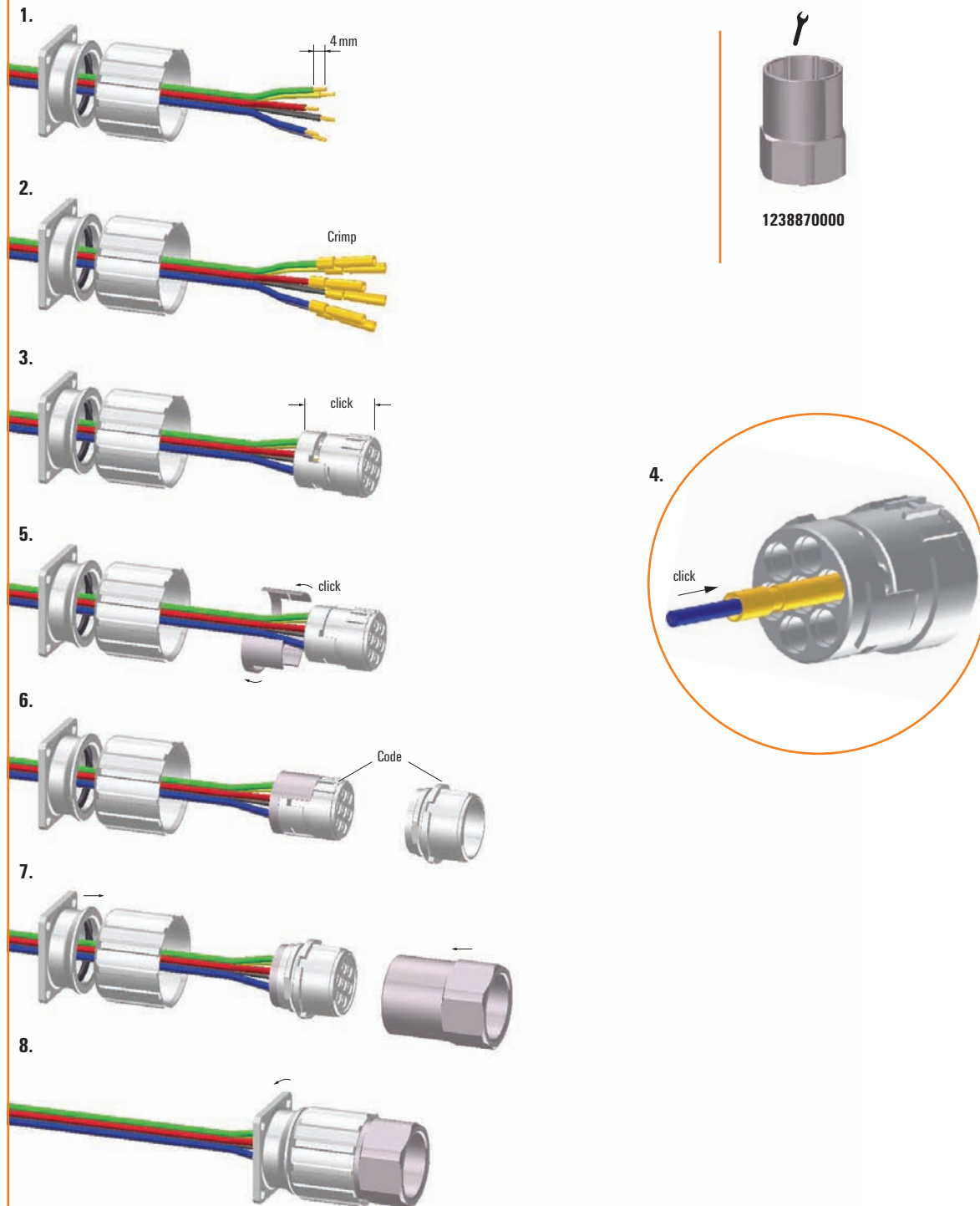
Cable connector



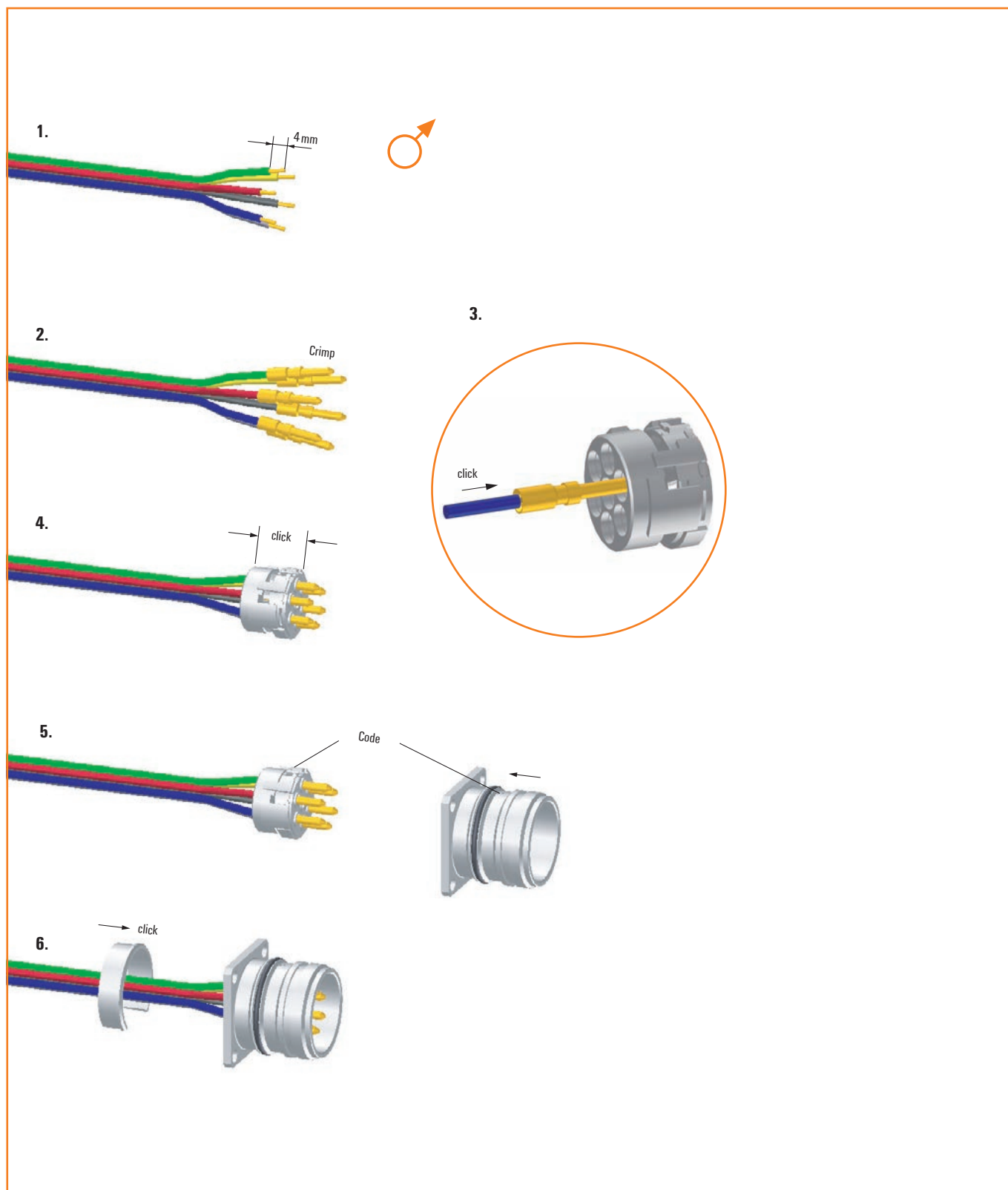
Angled connector



Device connector with knurled nut

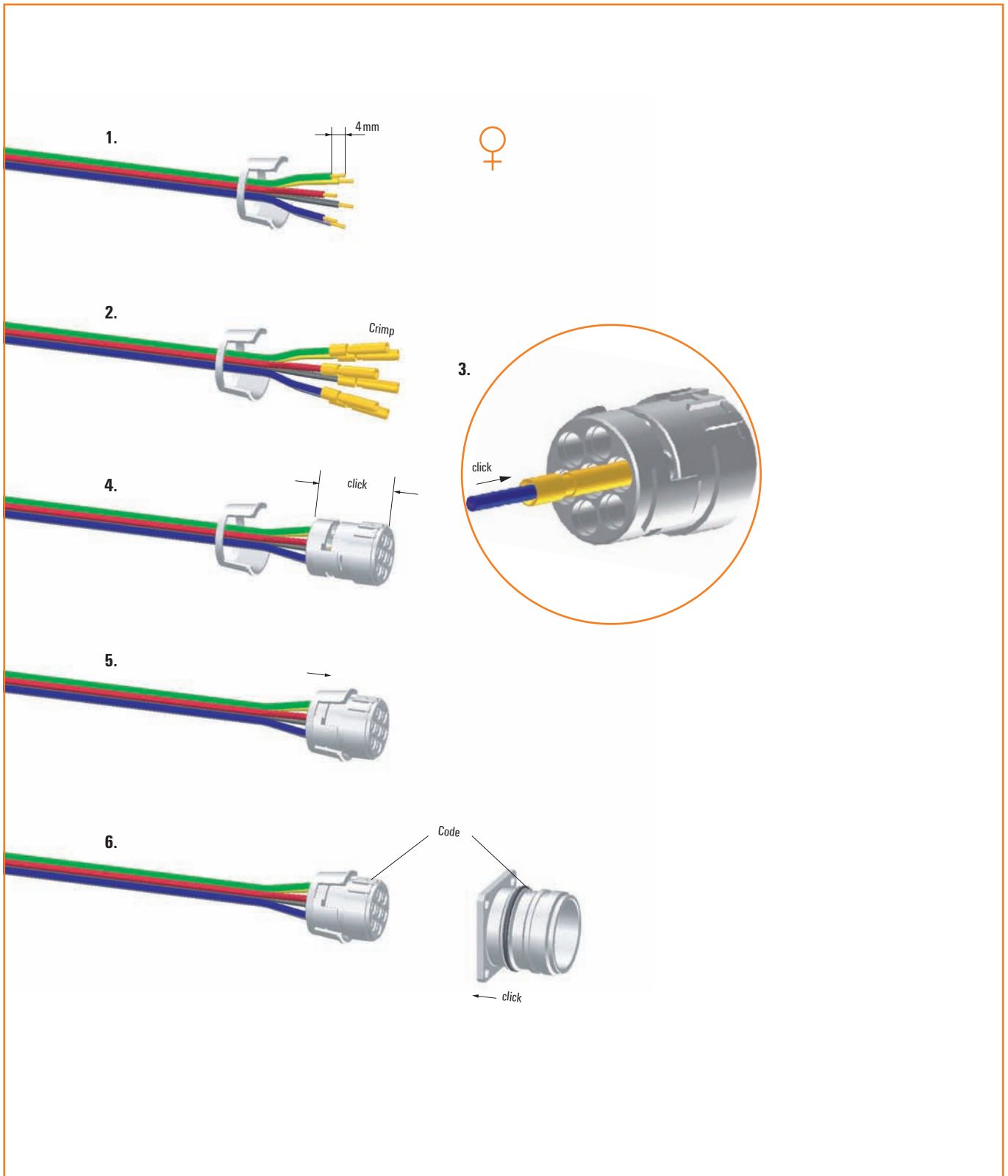


Device connector, male

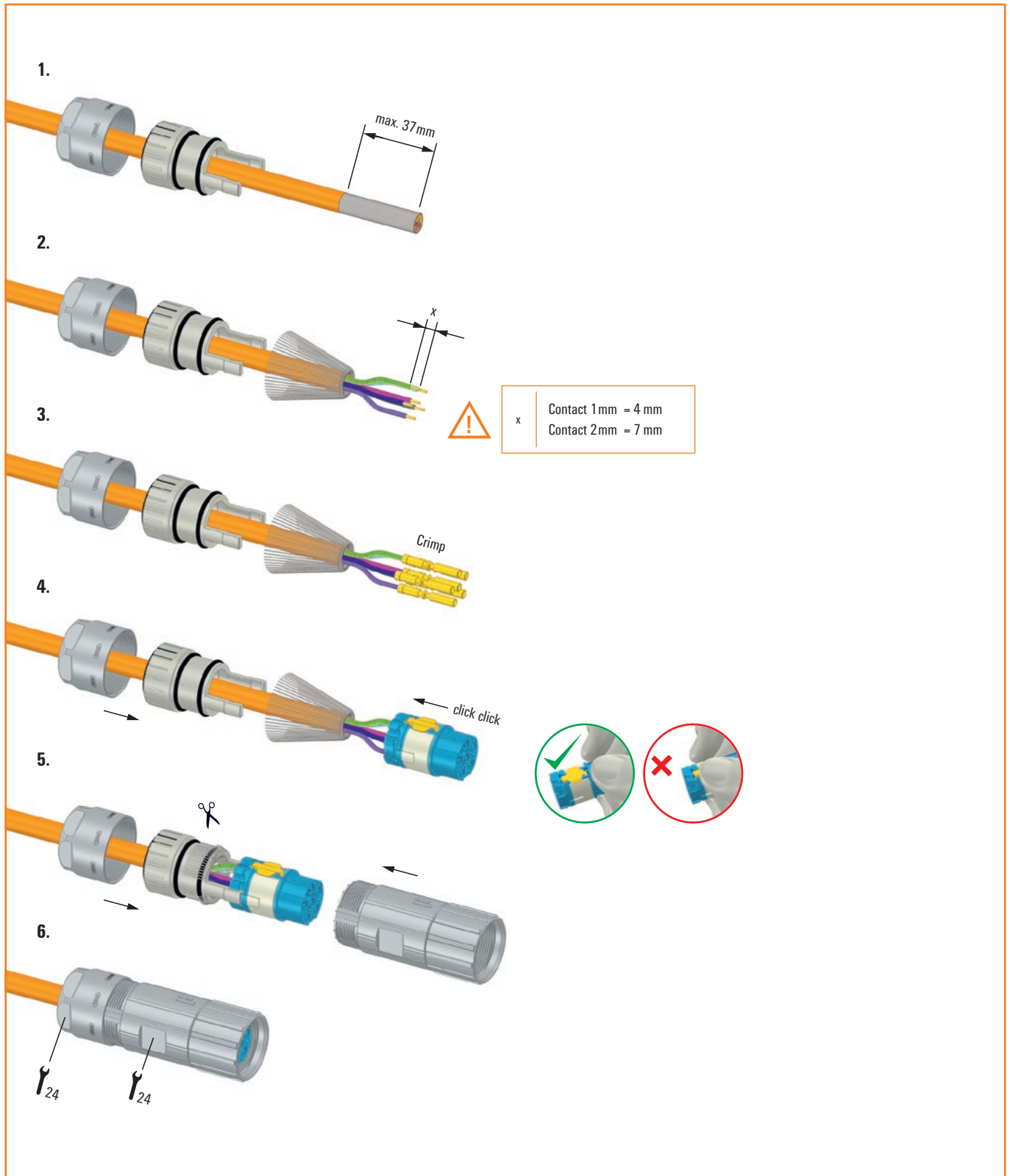


K

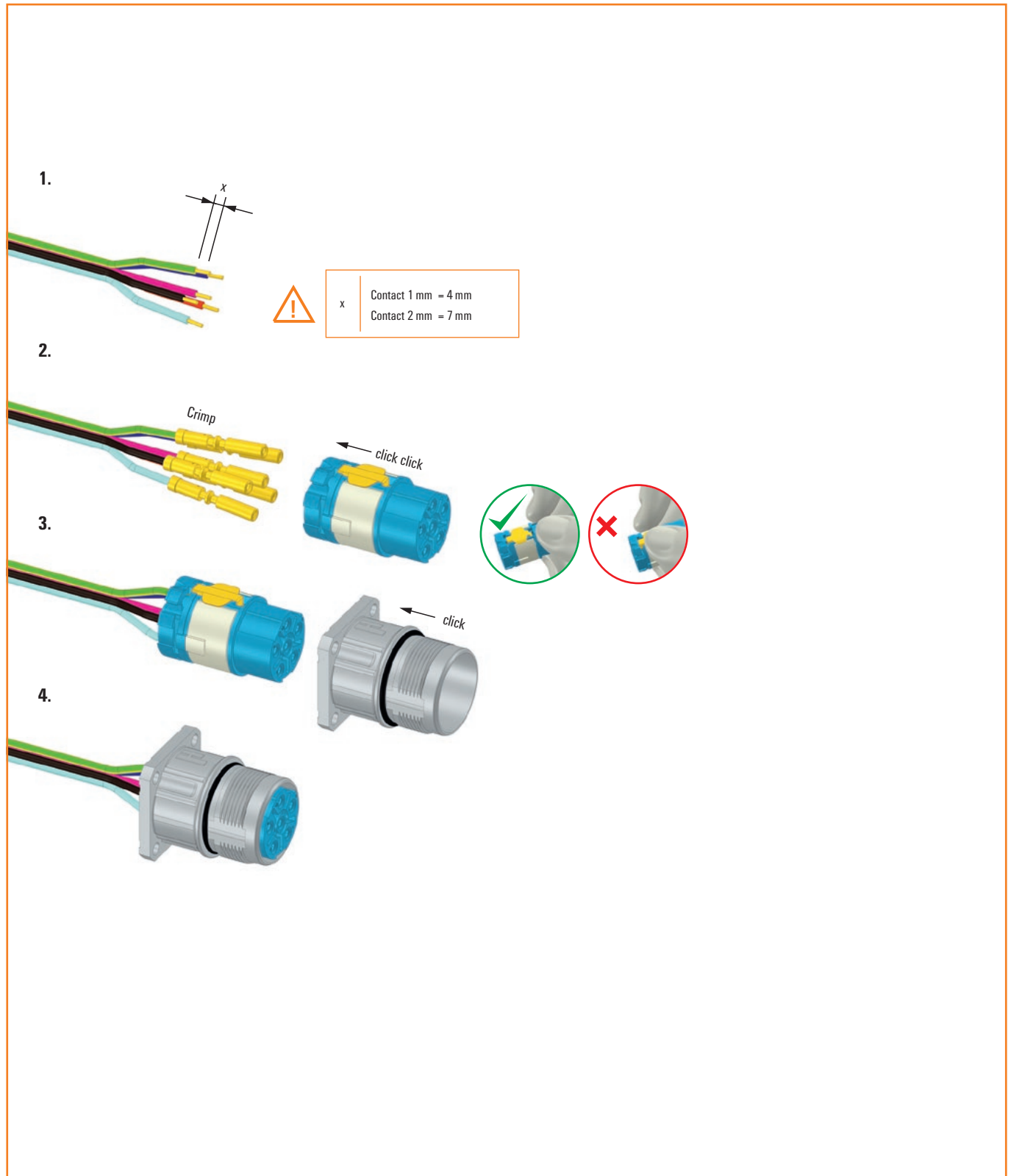
Device connector, female



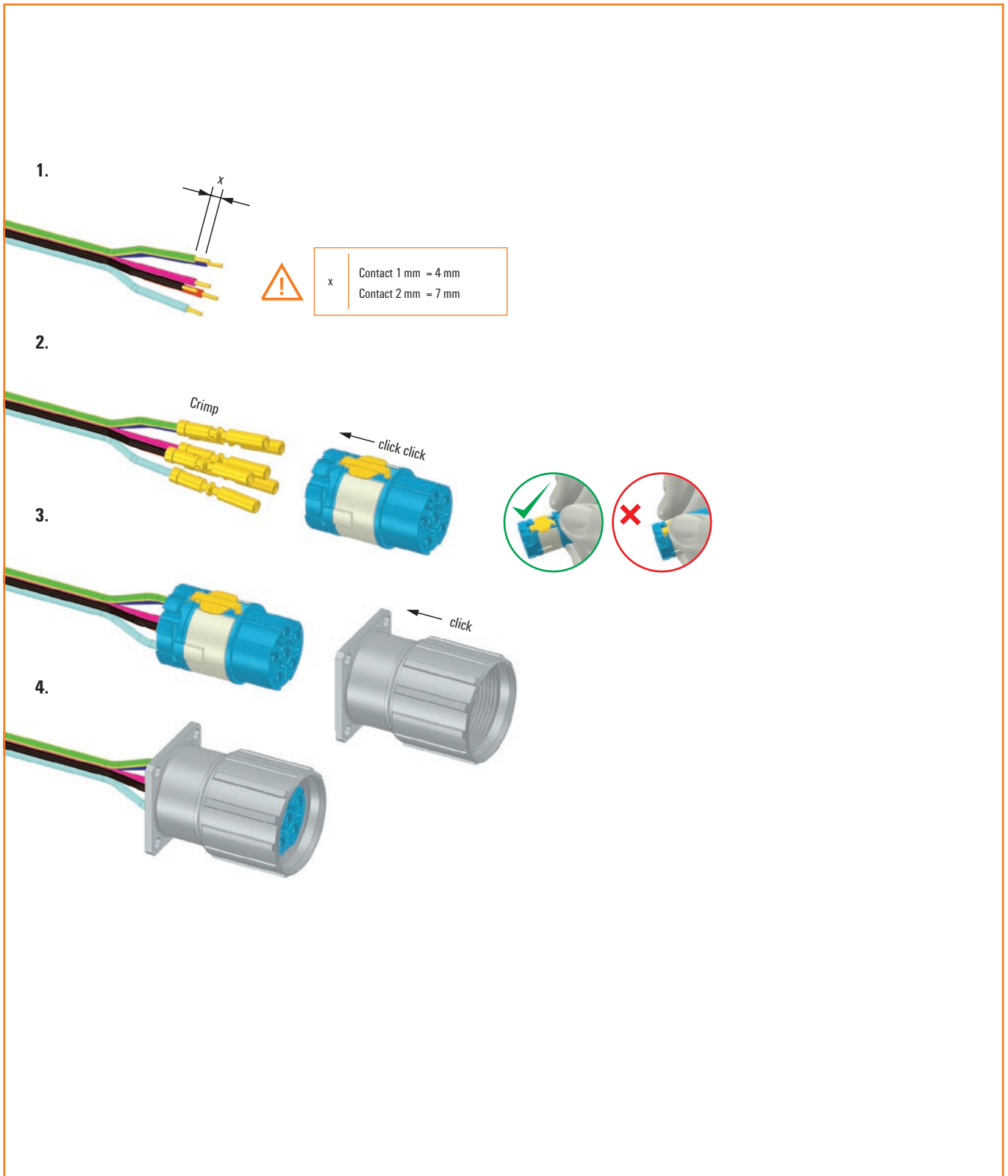
Cable connector



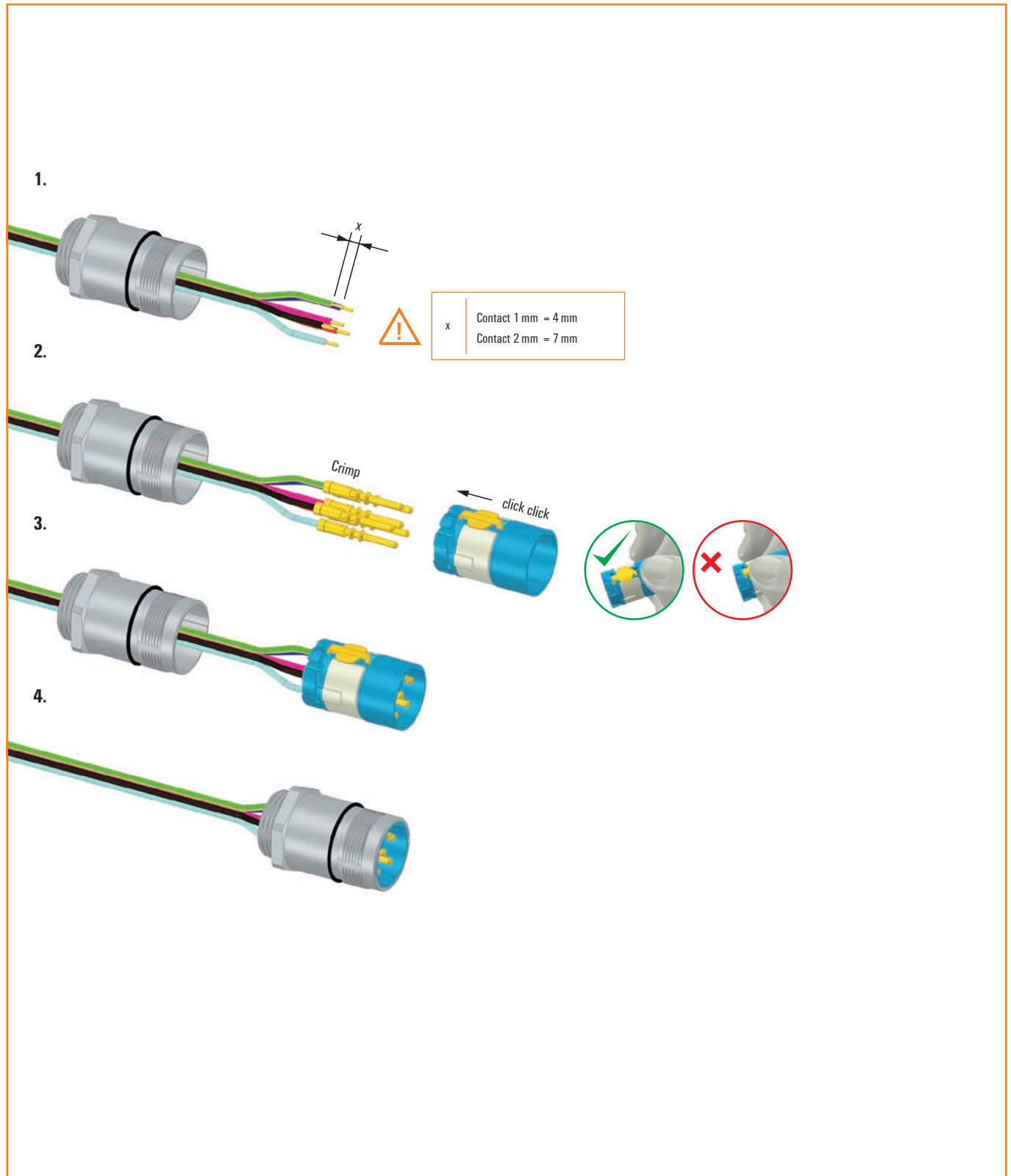
Device connector



Device connector



Device connector, single-hole mount



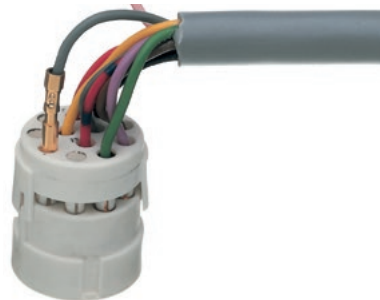
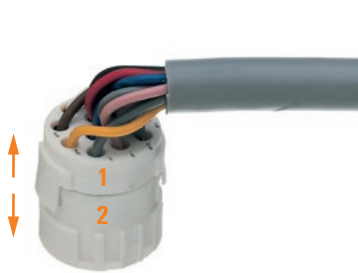
M23 contact – Disassembly

1.

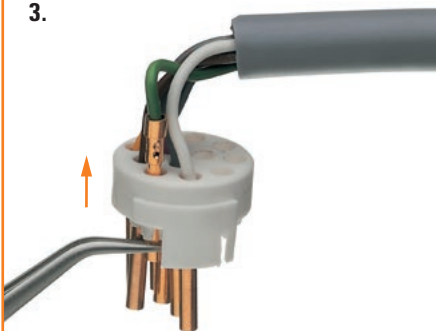


9046400000 - FRZ SG 200

2.



3.



M23 connector

Easy to assemble

- An integrated approach for all plug sizes
- A patented assembly module consisting of terminal insert and insulating body
- Assembly and shield connection combined into one step
- Simple, quick and safe assembly in the housing



Flexibility



Total modularity means flexibility. Male or female inserts can even be used with any of the housing types for the M23 power connectors.



The concise layout of this connector range and the reduced number of individual parts has clear benefits for the user – quicker assembly and easier installation.



The spacer sleeves are colour-coded for the male and female inserts.



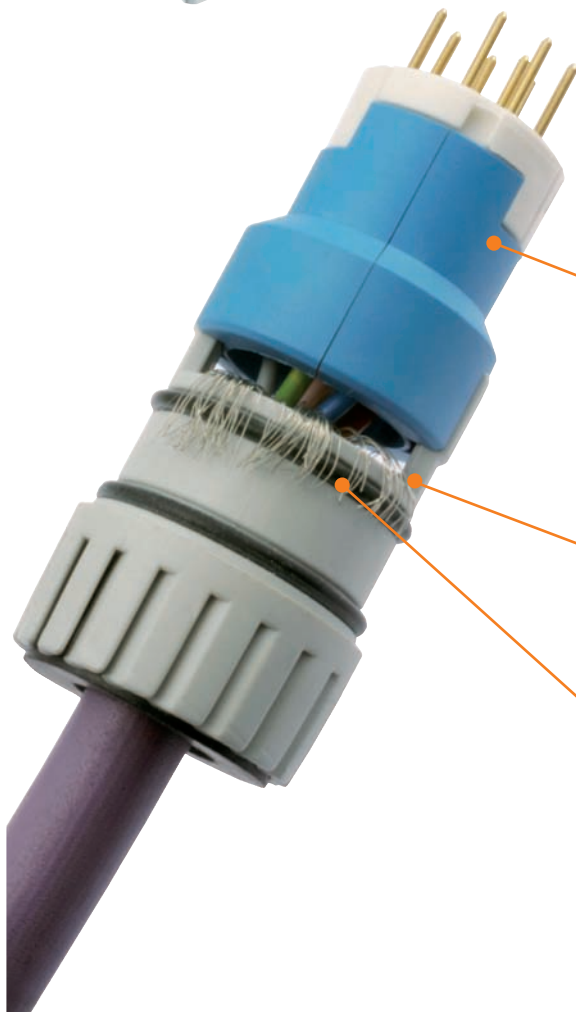
Assembly and shield connection are combined into one step.



The snap-on terminal insert protects the cable outlet from getting twisted.



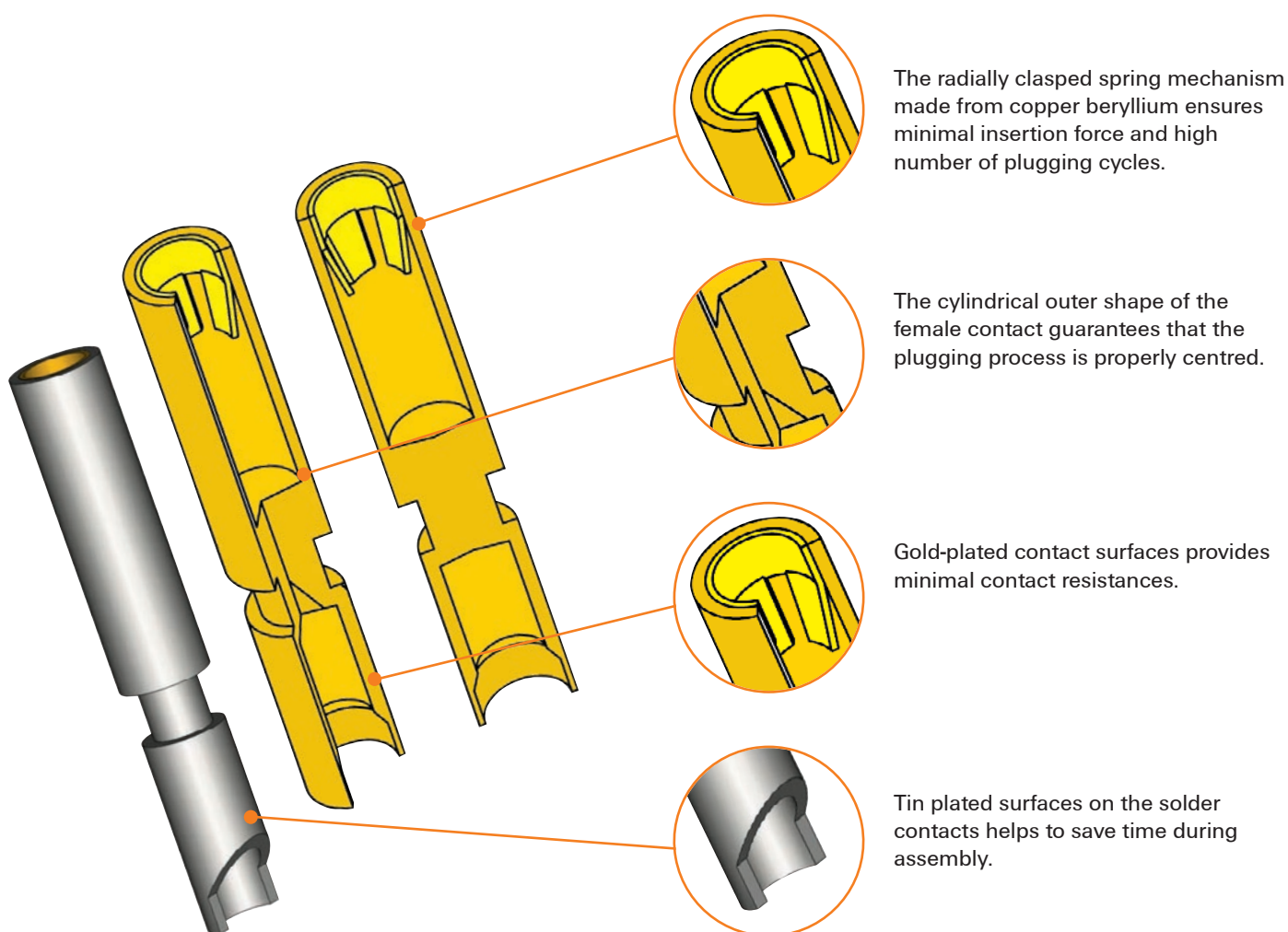
The variable shield connection ensures secure EMC protection for both light and heavy shielding braid.



Secure contact with SLS® technology

The new, premium-grade contact – the spring-loaded socket (SLS®) system

- Integrated spring takes the pin contact and clasps it radially
- Outstanding electrical characteristics with the most secure contact
- Quick assembly: solder contacts already tin-plated



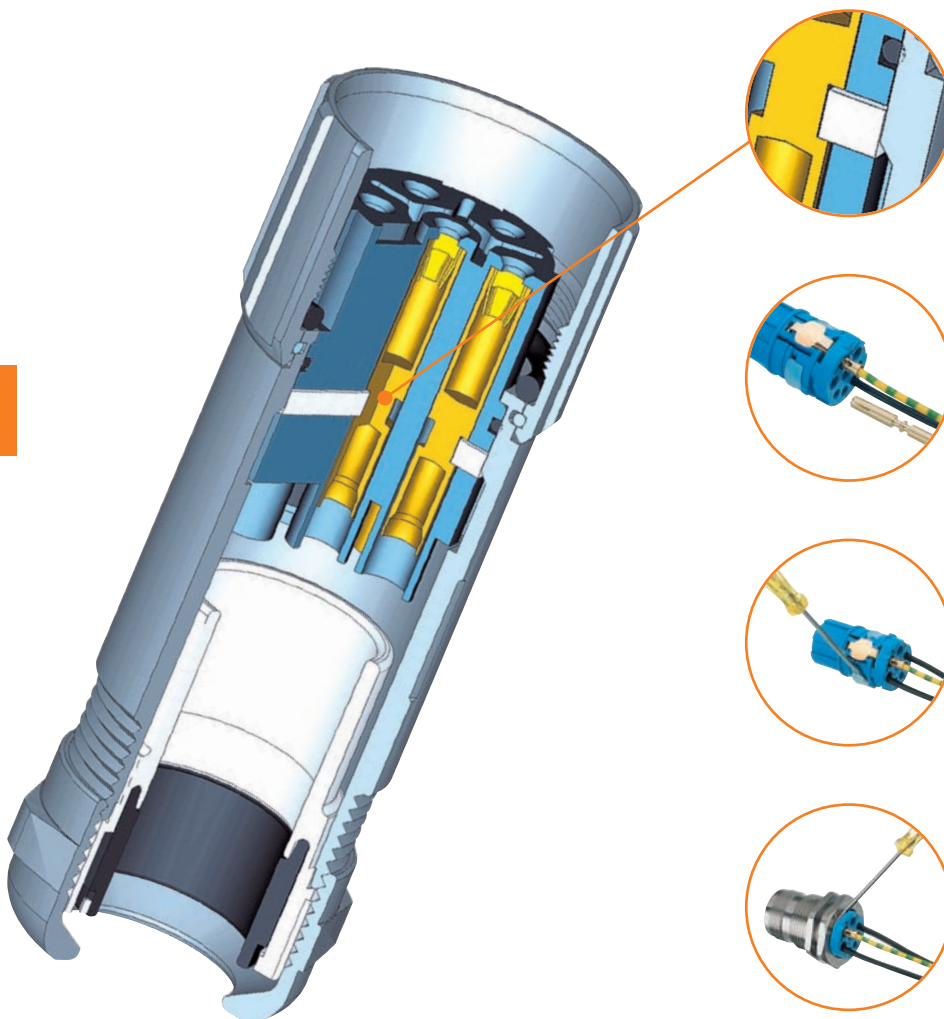
Euro-Lock system® for a secure mount

Euro-Lock system® – the patented interlock system

- The integrated support clip locks the contacts into the insulating body
- Contacts are easy to install and remove
- No special tool is required

High-quality cable gland

- Replaceable male or female inserts in each type of housing
- Integrated strain relief mechanism with patented HSK cable gland
- Internationally certified, with proven and established quality



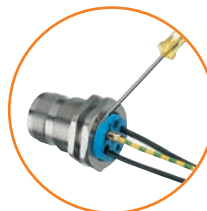
Secure contact interlock



Quick assembly



Simple removal of contacts



Complete installation and removal without any special tools

Data cables, data plug-in connectors and Remote I/O modules

Data cables, data plug-in connectors and Remote I/O modules	Introduction	L.2
	PROFIBUS-DP - cables	L.4
	PROFIBUS-DP - connectors	L.8
	PROFIBUS D-Sub - connectors	L.11
	Fieldbus distributor – Overview	L.16
	PROFIBUS-DP - FBCon T-distributor	L.18
	PROFIBUS-PA - cables	L.22
	PROFIBUS PA - connectors	L.27
	PROFIBUS-PA - FBCon T-distributor	L.30
	PROFIBUS-PA - FBCon T-distributor with protective function	L.36
	PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)	L.42
	CANopen & DeviceNet™ - cables	L.50
	CANopen & DeviceNet™ - connectors	L.54
	CAN-BUS D-Sub – connectors	L.55
	EtherCat - lines (M8)	L.61
	Ethernet cables	L.62
	Ethernet plug-in connectors	L.70
	Customisable plug-in connectors	L.72
	Ethernet plug-in connectors	L.75
	FOUNDATION Fieldbus - connector (7/8")	L.76
	Accessories for cable glands	L.77

Bus cables

Bus technology serves as the heart of automation technology. High-quality products are essential here if you hope to achieve long-term, smooth functionality.

Not only the slaves and controllers play a significant role; the connecting lines in use are also very important. Weidmüller offers a variety of bus lines for every protocol.

Advantages of our bus lines:

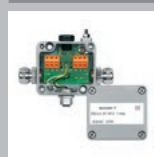
- Secure connection thanks to 100% testing
- 360° shielding
- Customer-specific variants with custom cable lengths, connecting plugs, markings or colours available

Supported protocols:

PROFINET, PROFIBUS DP, PROFIBUS PA, Ethernet, EtherCAT, Sub-Bus

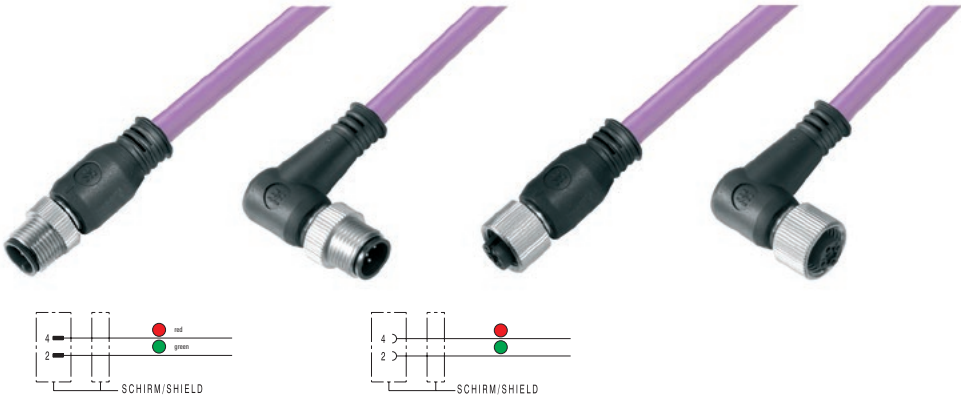
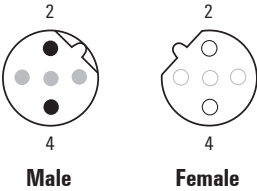


Bus cables: shown here in the standard colours:
blue (Profibus-PA Ex i), black (CANopen/DeviceNet or Profibus-PA), magenta (Profibus-DP) and green (Industrial Ethernet) together with the sensor cables

**Cables****M12 plug-in connector****D-Sub connector****FBCon T-distributor****L**

PROFIBUS-DP - cables

One end without connector
M12
B-coded



Ordering data		2-pole			
Male, straight					
PUR halogen-free	1.5 m	SAIL-M12G-PB-1.5D	1873300150		
Male, angled					
PUR halogen-free	1.5 m	SAIL-M12W-PB-1.5D	1061970150		
Female, straight					
PUR halogen-free	1.5 m	SAIL-M12BG-PB-1.5D	1873320150		
Female, angled					
PUR halogen-free	1.5 m	SAIL-M12BW-PB-1.5D	1062300150		
Note		Other versions on request			

Standard cable lengths

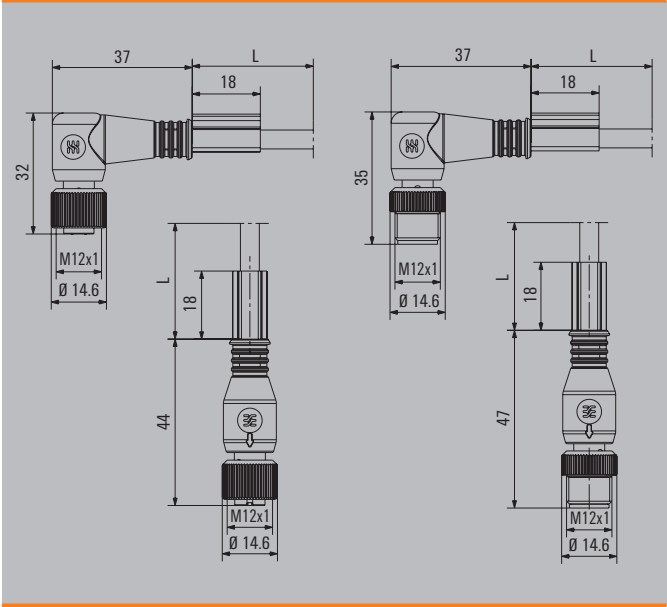
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	violet
Protection degree	IP67
Wire cross section	PUR: PUR 0.25 mm ² / PVC 0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Coding	B-coded

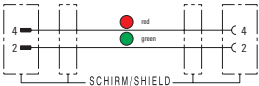
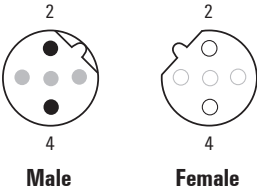
Chapter W includes additional technical specifications for the cable

Dimensioned drawing





PROFIBUS-DP cables
Connecting cables
M12 to M12
B-coded



Ordering data

Male, straight - Female, straight	
PUR halogen-free	1.5 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
Note	

2-pole	
SAIL-M12GM12G-PB-1.5D	1873310150
SAIL-M12GM12W-PB-1.5D	1062310150
SAIL-M12WM12W-PB-1.5D	1062330150
Other versions on request	

Standard cable lengths

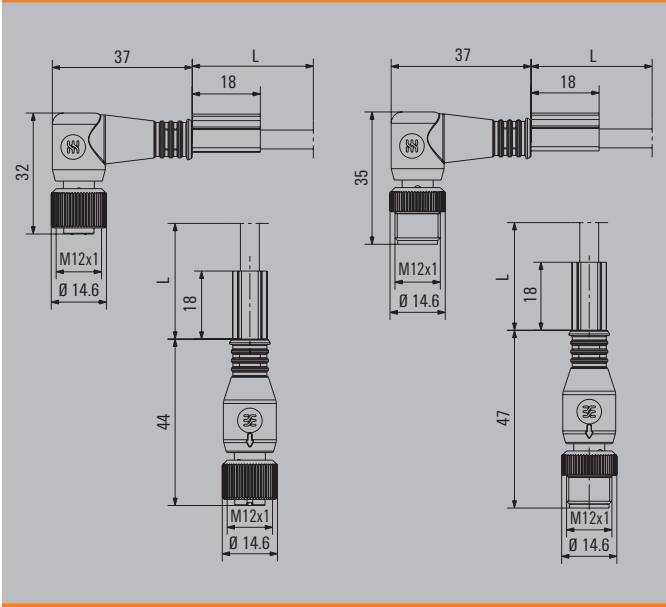
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	violet
Protection degree	IP67
Wire cross section	PUR: PUR 0.25 mm ² / PVC 0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Coding	B-coded

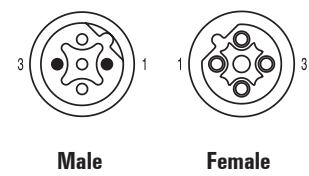
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



PROFIBUS-DP - cables

One end without connector
M12 back panel mounting
B-coded



Ordering data

2-pole	
0.5 m	
1.0 m	
2.0 m	
5.0 m	
Note	

Technical data

Type of connection
Housing main material
Connection thread
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Note

M12 built-in connector

Male, straight



Type	Qty.	Order No.
SAIE-M12S-PB-0.5U HW	1	1279490050
SAIE-M12S-PB-1.0U HW	1	1279490100
SAIE-M12S-PB-2.0U HW	1	1279490200
SAIE-M12S-PB-5.0U HW	1	1279490500
Note		

Pin
Zinc diecast, nickel-plated
M12
...0.25 mm ²
4 A
250 V
-20 ... +60 °C
IP68
Gold-plated
≥ 500
3
Note

M12 built-in connector

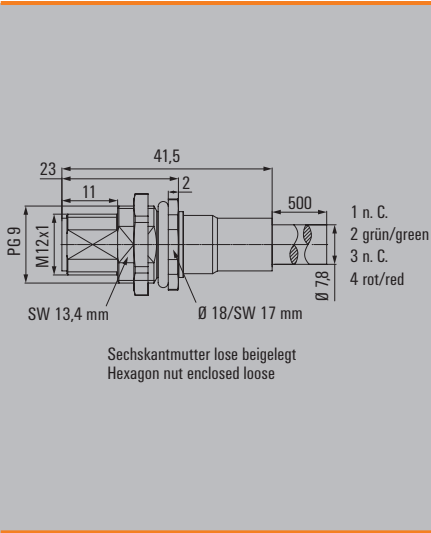
Female, straight



Type	Qty.	Order No.
SAIE-M12B-PB-0.5U HW	1	1279480050
SAIE-M12B-PB-1.0U HW	1	1279480100
SAIE-M12B-PB-2.0U HW	1	1279480200
SAIE-M12B-PB-5.0U HW	1	1279480500
Note		

Socket connector
Zinc diecast, nickel-plated
M12
...0.25 mm ²
4 A
250 V
-20 ... +60 °C
IP68
Gold-plated
≥ 500
3
Note

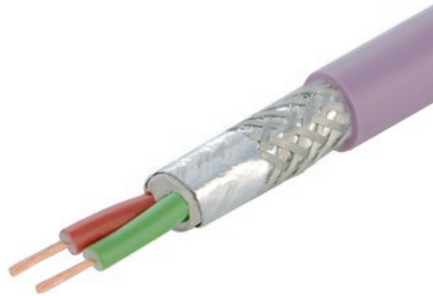
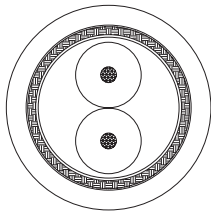
Dimensioned drawing



Dimensioned drawing



PROFIBUS-DP bulk lengths



Technical data

Assembly

Wire
Pair
Interior sheathing
Shield
Outer cladding

Electrical characteristics at 20 °C

Conductor resistance
Insulation resistance
Operational capacity
Characteristic impedance

Attenuation

Test voltage (50 Hz, 1 min.)

Mechanical and thermal characteristics

Temperature range
Min. permitted bending radius
Max. tensile load resistance
Suitable for dragline cable carriers
Halogen-free

Conductor: 19-wire strands copper shiny, AWG 24, 0.64 mm Ø nominal
Insulation: PE foam, 2.55 mm Ø nominal
2 wires according to 3.2.1 (red, green) laid as a pair, 5.1 mm Ø nominal
Coil-filling interior sheathing, 5.3 mm Ø nominal
a) Overlapping aluminium film, 6.1 mm Ø nominal
b) Braided tin-plated copper, coverage approx. 65%, 6.1 Ø nominal
TPE-U free from halogens, 8.0 +/- 0.4 mm

< 84.0 Ω/km
> 1 GΩ ● km
< 35 nF/km
9.6 Khz (RW) 300 Ω
38.4 Khz (RW) 185 +/- 20 Ω
3-20 Mhz 150 +/- 15 Ω
9.6 Khz 3 dB/km
38.4 Khz 5 dB/km
4 Mhz 26 dB/km
16 Mhz 55 dB/km
Wire/wire 0.5 kV _{eff}
Wire/shield 0.5 kV _{eff}

Stationary -40 °C to +70 °C
Moving -20 °C to +60 °C
Once 7.5 x d
Multiple 15 x d
Static 50 N/mm ²
Dynamic 20 N/mm ²
Yes
Yes

Note

Ordering data

Metre goods
Note

Type	Order No.
SAIH-PB-2X0.24-PUR	1232620000

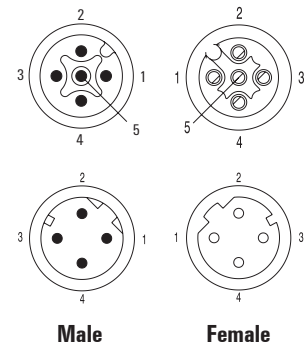
PROFIBUS-DP - connectors

M12 tension-clamp connection,
stainless steel with shield connection
B-coded



SAIS VA / SAIB VA

Straight



Ordering data

Male	5-pole. PG 9
Female	5-pole. PG 9
Note	

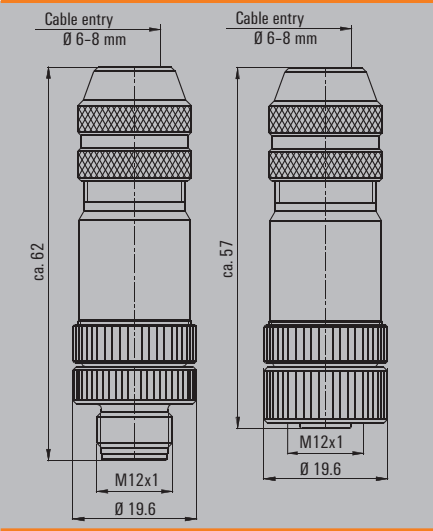
Type	Qty.	Order No.
SAISGZ-V-5B-6/8-M12	1	1920720000
SAIBGZ-V-5B-6/8-M12	1	1920730000

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Coding
Note

Tension-clamp connection
1.4404/316L
M12
6...8 mm (PG9)
0.14...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP69K
Gold-plated
B-coded

Dimensioned drawing



M12 screw connection
with shield connection
B-coded



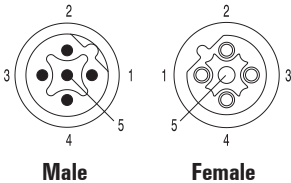
SAIS M / SAIB M

Straight



SAISW M / SAIBW M

Angled



Ordering data

Male	5-pole. PG 9
Female	5-pole. PG 9
Note	

Type	Qty.	Order No.
SAISM 5/8S M12 5P B-COD	1	1784790000
SAIBM 5/8S M12 5P B-COD	1	1784780000

Type	Qty.	Order No.
SAISW-M-5/8 M12 B-COD	1	1944570000
SAIBW-M-5/8 M12 B-COD	1	1944580000

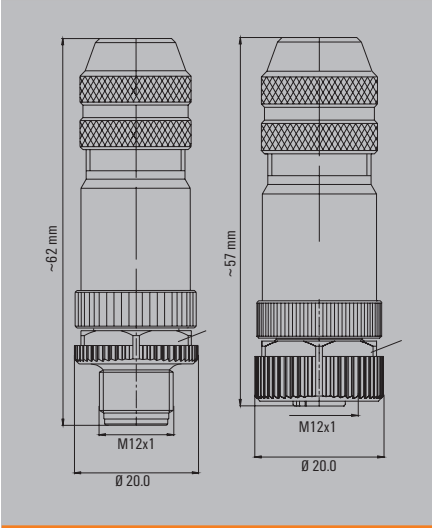
Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Coding
Note

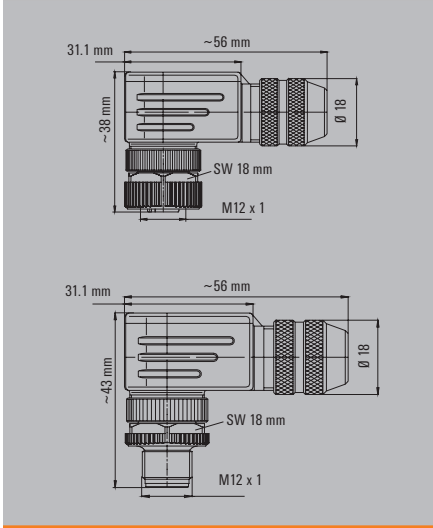
Screw connection
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
B-coded

Screw connection
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
B-coded

Dimensioned drawing



Dimensioned drawing



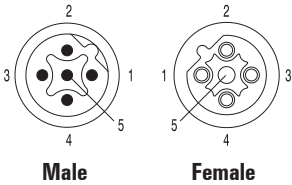
PROFIBUS-DP - connectors

Insulation displacement connection (IDC) M12 with shield connection
B-coded



SAIS IDC M / SAIB IDC M

Straight



Ordering data

Male	2-pole. PG 9
Female	2-pole. PG 9
Note	

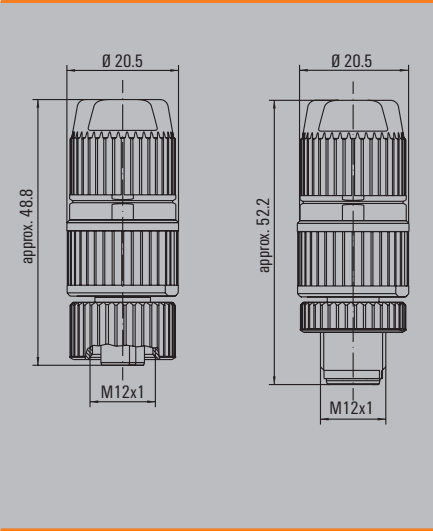
Type	Qty.	Order No.
SAISGI-M-2B-4.5/8.8-M12	1	1864730000
SAIBGI-M-2B-4.5/8.8-M12	1	1864740000
Profibus assignment: Pin 2 + 4		

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Coding
Note

Insulation displacement connection
CuZn
M12
4.5...8.8 mm
0.25...0.34 mm²
4 A
32 V
-25...+85 °C
IP67
tinned
B-coded

Dimensioned drawing



PROFIBUS D-Sub
M12 cable connection
90° exit angle

PB-DP D-Sub M12 TERM

With bus termination switch



PB-DP D-Sub M12 TERM PS

With bus termination switch and programming interface



Ordering data

Note

Type	Qty.	Order No.
PB-DP SUB-D M12 TERM	1	1140650000
Other versions on request		

Type	Qty.	Order No.
PB-DP SUB-D M12 TERM PS	1	1140640000
Other versions on request		

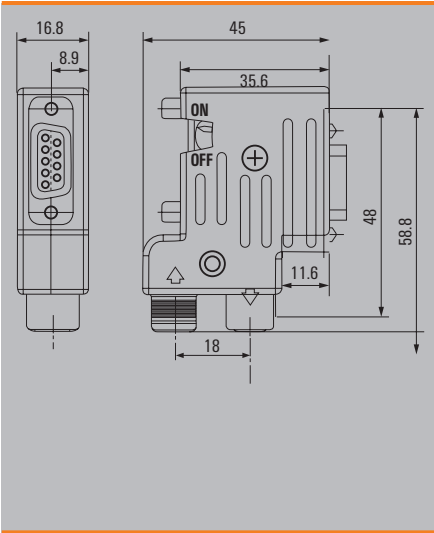
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

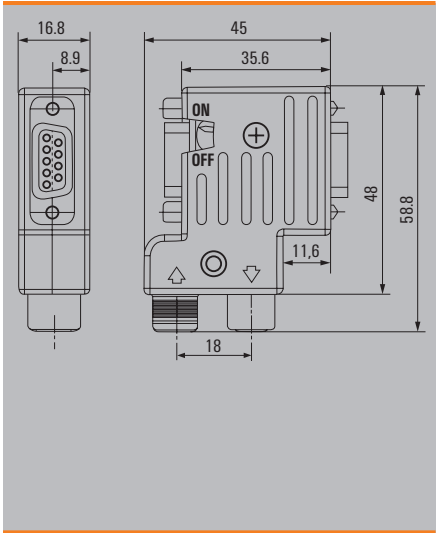
90°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
M12 B-coded male and female connector, pins 2 and 4 assigned
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

90°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
M12 B-coded male and female connector, pins 2 and 4 assigned
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

Dimensioned drawing



Dimensioned drawing



PROFIBUS D-Sub - connectors

PROFIBUS D-Sub
Tension clamp connection
35° exit angle

PB-DP D-Sub ZF35TERM

With bus termination switch



PB-DP D-Sub ZF35TERM PS

With bus termination switch and programming interface



Ordering data

Note

Type	Qty.	Order No.
PB-DP SUB-D ZF35TERM	1	1173220000
Other versions on request		

Type	Qty.	Order No.
PB-DP SUB-D ZF35TERM PS	1	1173240000
Other versions on request		

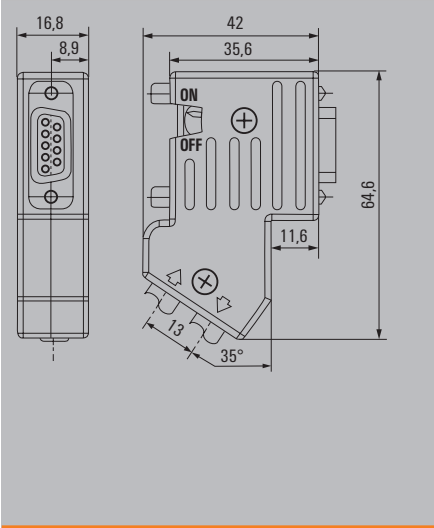
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

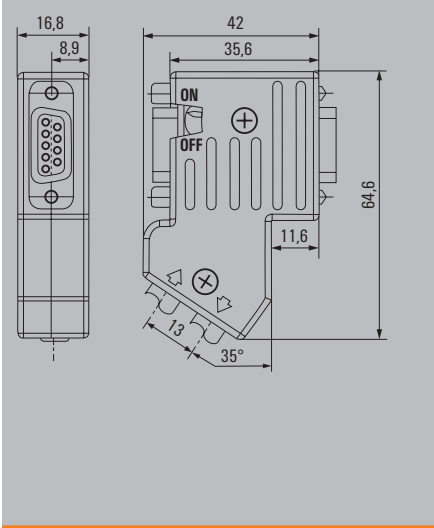
35°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
Tension clamp connection
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

35°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
Tension clamp connection
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

Dimensioned drawing



Dimensioned drawing



PROFIBUS D-Sub
Tension clamp connection
90° exit angle

PB-DP D-Sub ZF



PB-DP D-Sub ZF TERM

With bus termination switch



Ordering data

Note

Type	Qty.	Order No.
PB-DP SUB-D ZF	1	1161890000
Other versions on request		

Type	Qty.	Order No.
PB-DP SUB-D ZF TERM	1	1161870000
Other versions on request		

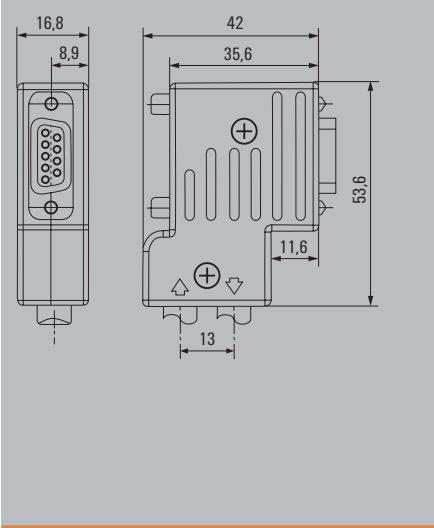
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

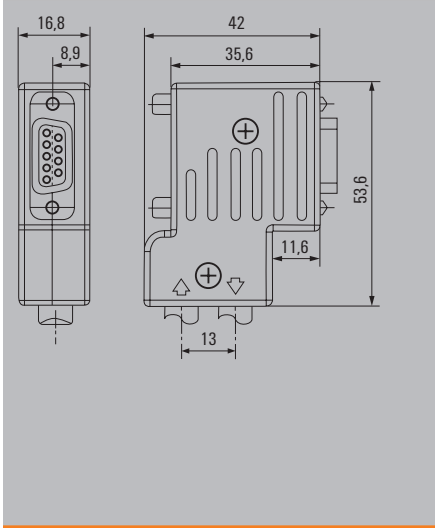
90°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
Tension clamp connection
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

90°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
Tension clamp connection
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

Dimensioned drawing



Dimensioned drawing



PROFIBUS D-Sub - connectors

PROFIBUS D-Sub
Tension clamp connection
90° exit angle

PB-DP D-Sub ZF TERM PS
With bus termination switch and programming interface



Ordering data

Note

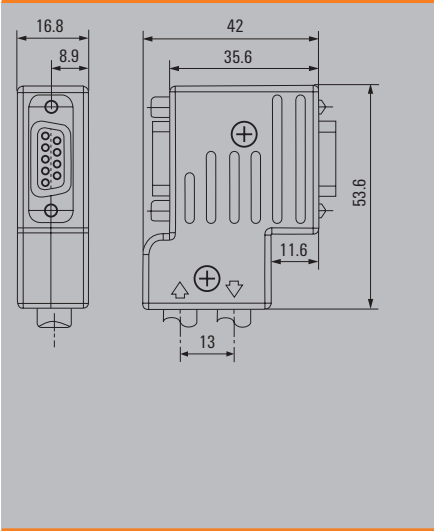
Type	Qty.	Order No.
PB-DP SUB-D ZF TERM PS	1	1161880000
Other versions on request		

Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

90°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
Tension clamp connection
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

Dimensioned drawing



PROFIBUS D-Sub
M12 cable connection
180° exit angle

PB-DP D-Sub M12 180

With bus termination switch



PB-DP D-Sub M12 180 OS



Ordering data

Note

Type	Qty.	Order No.
PB-DP SUB-D M12 180	1	1264180000
Other versions on request		

Type	Qty.	Order No.
PB-DP SUB-D M12 180 OS	1	1274250000
Other versions on request		

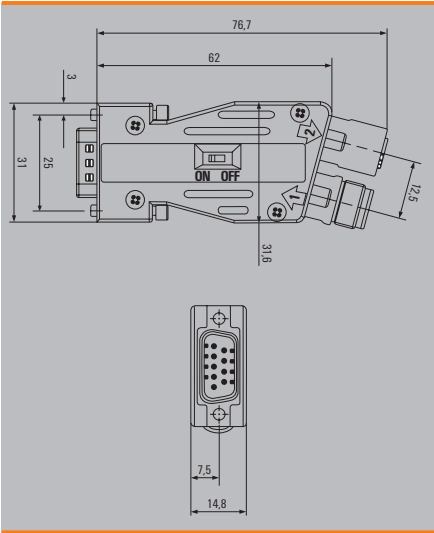
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

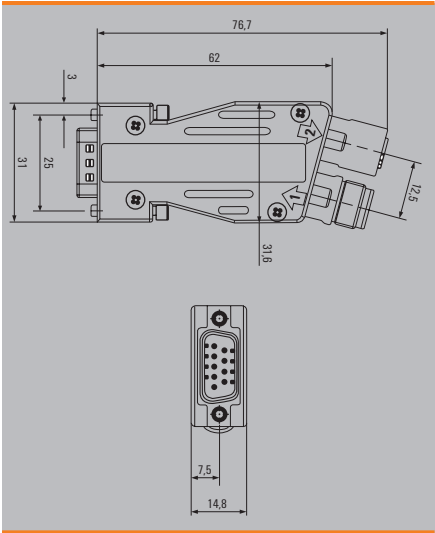
180°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
M12 B-coded male and female connector, pins 2 and 4 assigned
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

180°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
M12 B-coded male and female connector, pins 2 and 4 assigned
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

Dimensioned drawing



Dimensioned drawing



System description, fieldbus distributor

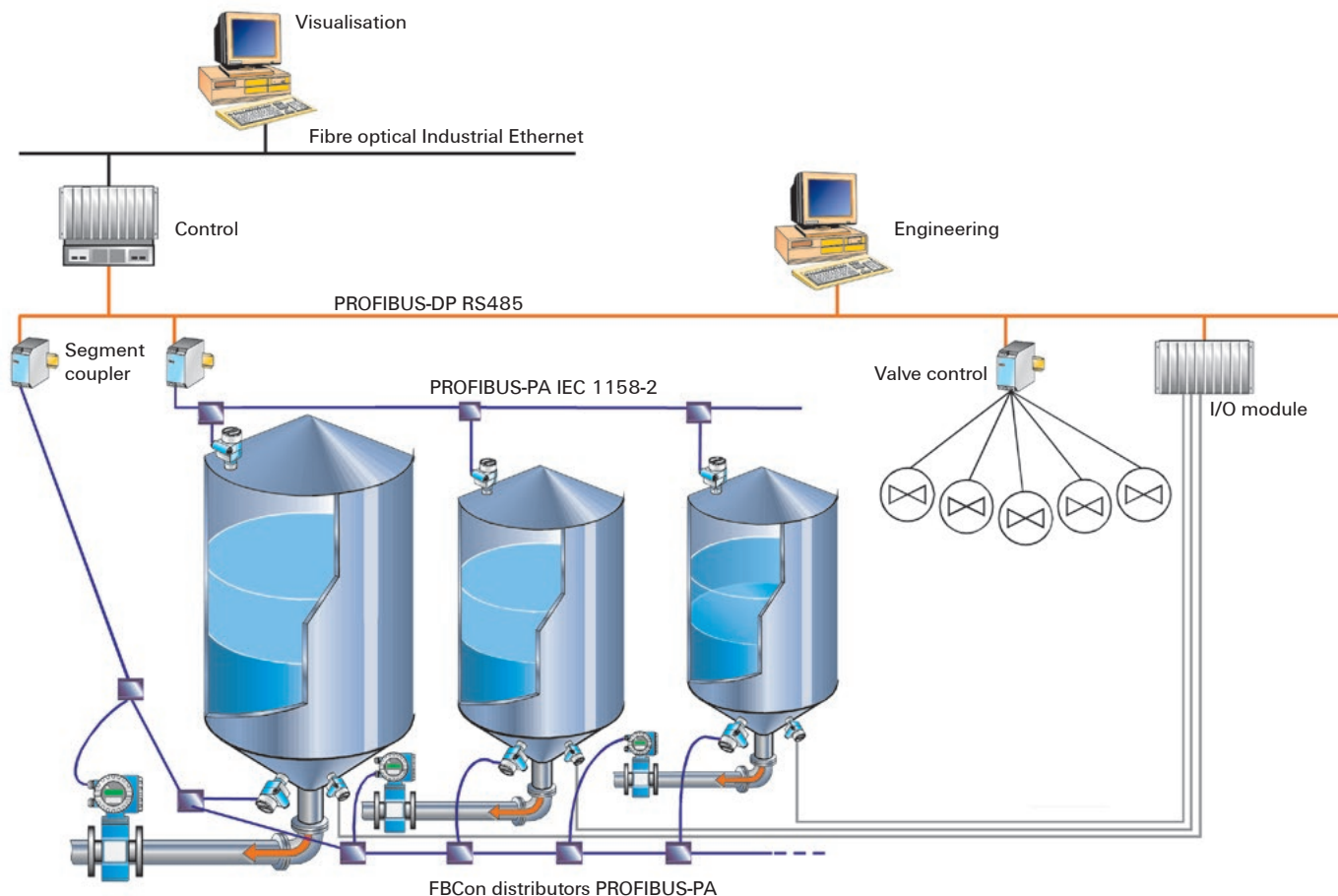
FBCon fieldbus distributors are available in industrial and Ex(ia) versions. They are used for coupling 1-8 field devices or sensors.

The connection is made via a spur. The spur is connected by an M12 plug in connector or directly via an EMC cable gland. The communication and device powering is handled by a common 2-core wire.

The distributors offer the following features irrespective of the version:

- Tension clamp connection technology
- Surge protection for the main line
- Current limiter for each stub line
- EMC cable gland
- M12 plug in connectors
- External earth stud
- Interruption-free bus operation
- Industrial specification
- Bus termination integrated (non EX)
- T ATEX version
- Pressure equalising element
- IP 66 Ingress protection class
- Stainless steel versions
- PROFIBUS-PA compatible

Typical PROFIBUS system layout

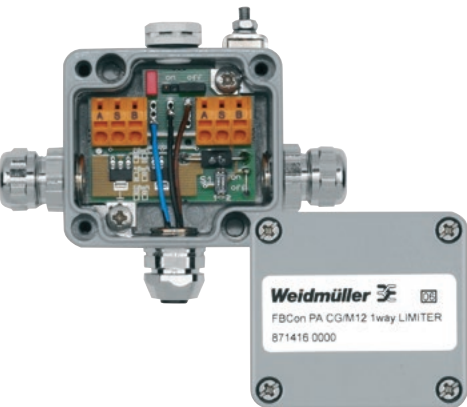


Product coding

The FBCon family of distributors includes various forms. The product name indicates the respective features as follows:

FBCon	Field Bus Connection
PA	Profibus PA / Foundation Fieldbus
DP	Profibus DP / Modbus RS485
SS	Stainless Steel
CG	Stainless steel cable gland on stainless steel housing. On standard aluminium housings, the cable gland is nickel-plated brass.
PCG	Plastic Cable Gland
CG/M12	M12 plug-in connector for the stub cables and cable gland for the trunk cable
1way	Number of outgoing stub lines
Limiter	Current limiter: protects the PROFIBUS-PA network in the event of an overload in the stub line
EX	Approved for potentially explosive areas
ATEX	For explosive atmospheres

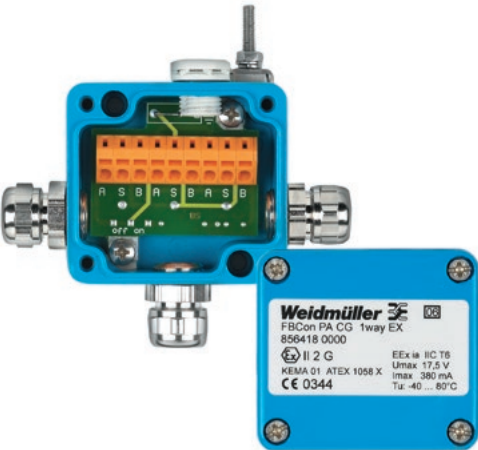
Note: FBCon products with aluminium housings and/or M12 connections are not recommended for use in extremely saline environments.



FBCon PA CG/M12 1way Limiter



FBCon SS PCG 1way

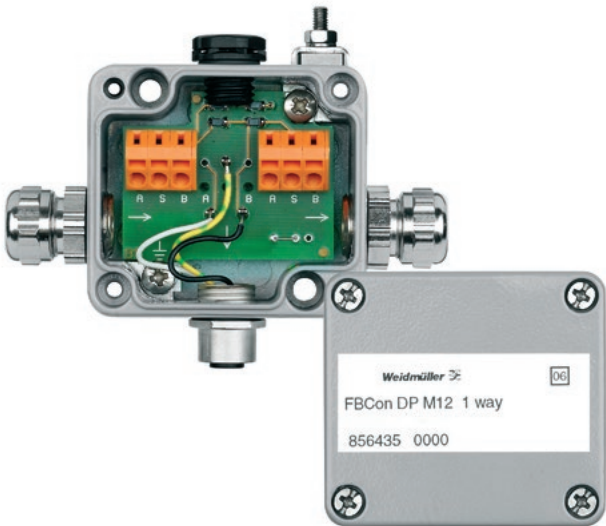


FBCon PA CG 1way Ex

Distributors for Profibus DP / Modbus RS485

Distributors for Profibus DP / Modbus RS485

For Profibus DP and Modbus RS485, the FBCon standard T distributors and terminating resistors each connect one field device or one remote I/O to the bus cable. The length of the spur cable depends on the transmission rate and should be as short as possible. An individual spur line must not exceed a length of 0.3 m. The total of all spur lengths for transmission rates up to 1.5 MBaud may not exceed max. 6.6 m. The trunk cable passes through an EMC cable gland into an aluminium or stainless steel enclosure where it is connected to a tension clamp terminal. The spur line to the device is connected using a B-coded M12 socket or an EMC cable gland. Terminating resistors must be wired onto the start and end of the PROFIBUS-DP network. The Terminator modules can take care of this task. The electrically isolated 24 V DC power supply for the bus terminator is routed into the cable gland on the right side. The housing features a pressure-compensation mechanism that counters the effects of climatic fluctuations. The guidelines issued by the PROFIBUS user organisation must be observed.



PROFIBUS-DP

Technical data

Operating temperature	-25 °C to 70 °C (Term 24V) / -40 °C to 85 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (AL - SI 12)
Finish	Painted RAL 7001
PROFIBUS-DP connection	Tension clamp terminals 0.5 - 1.5 mm ²
Cable entry	Cable gland M16
Cable gland clamping range	5.5 - 9.5 mm
Contact surface	M12 plug/socket CuZnAu
Transmission rate	Max. 1.5 MBaud
Power supply bus connection	Bus terminator 24 VDC +/-10 % or 5 V
Trunk cable via cable gland	

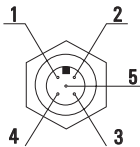
Installation advice

Torques	
M16 cable gland at enclosure	6.0 Nm
Union nut, M16 cable gland	4.0 Nm
Enclosure cover	1.8 - 2.0 N
External earthing cable	1.8 - 2.0 Nm
Adaptor/stud cable	0.5 Nm

Pin assignment

Pin no.	Connection	Wire colour
Pin 1	unassigned	
Pin 2	RxDx/TxD-N / A-wire	green
Pin 3	unassigned	
Pin 4	RxDx/TxD-N / B-wire	red
Pin 5	shield	
Cable gland	shield	

Socket B-coded



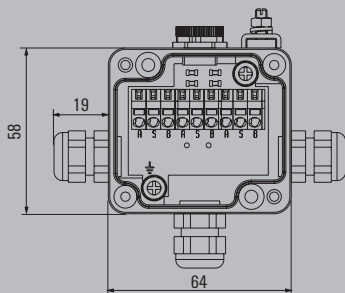
1-channel distributor



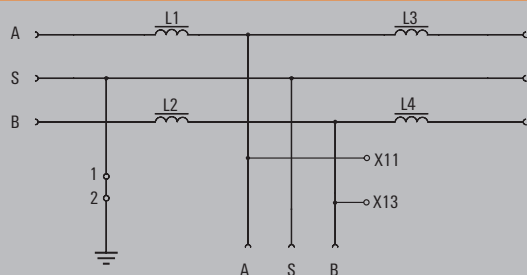
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon DP CG 1WAY	branch line CG	1	8564340000
Stainless steel housing			
FBCon SS DP PCG 1WAY	all connections PCG	1	8714260000

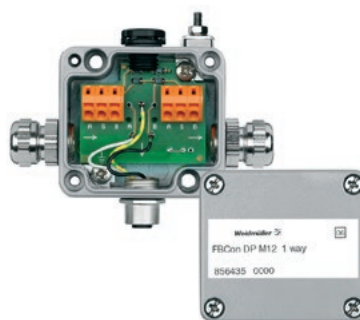
Dimensioned drawing



Wiring diagram



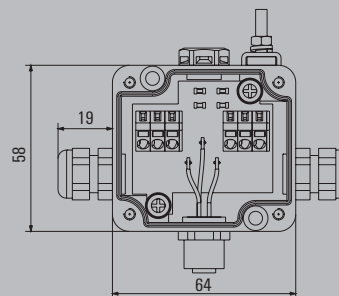
1-channel distributor



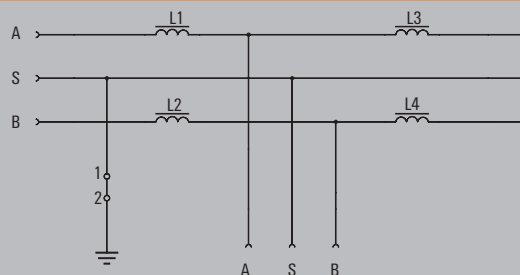
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon DP M12 1WAY	branch line M12	1	8564350000

Dimensioned drawing



Wiring diagram



PROFIBUS-DP - FBCon T-distributor

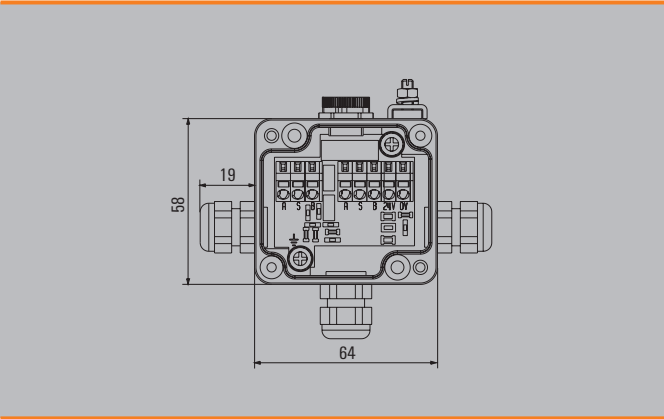
Terminator



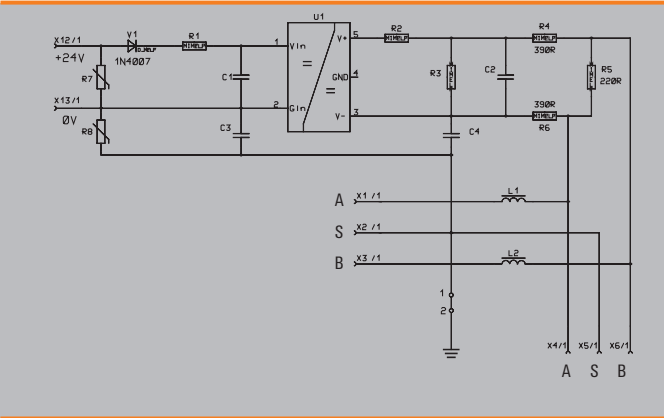
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon DP CG TERM 24V	branch line CG	1	8564290000
Stainless steel housing			
FBCon SS DP PCG TERM 24V	all connections PCG	1	8714240000

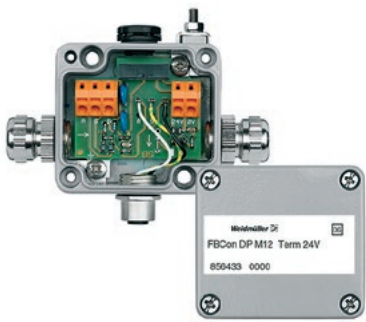
Dimensioned drawing



Wiring diagram



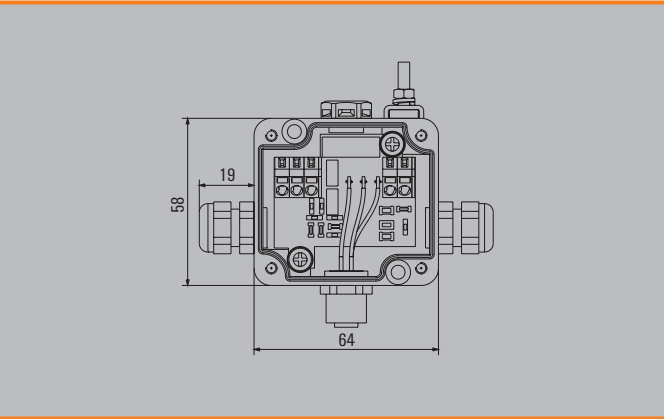
Terminator



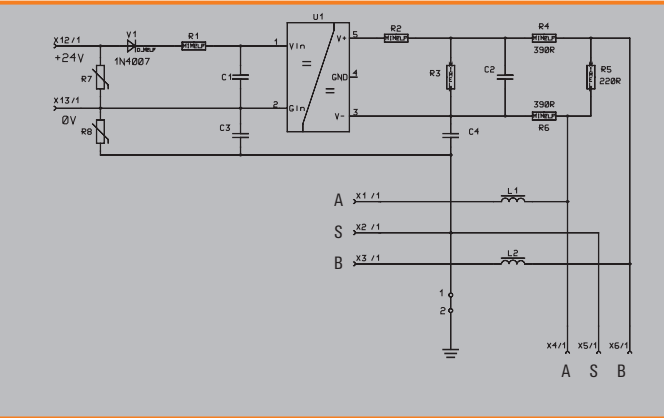
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon DP M12 TERM 24V	branch line M12	1	8564330000
FBCon DP M12 TERM 5V	branch line M12	1	8564320000

Dimensioned drawing



Wiring diagram



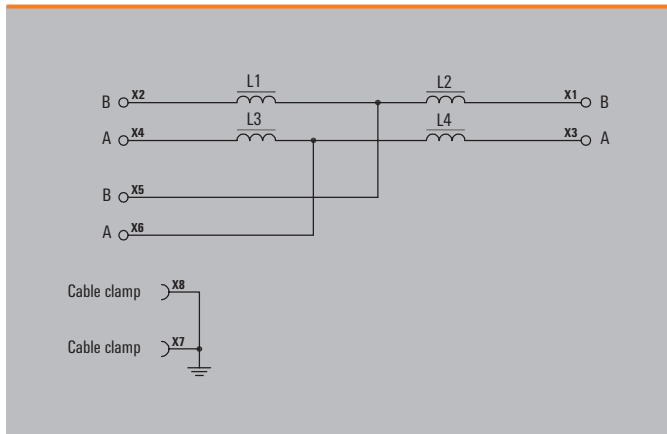
PROFIBUS-DP IP 20 T-distributor



The distributor for PROFIBUS-DP enables the user to connect it conveniently in the electrical cabinet. It can be mounted on TS 32/35 rails and used to connect standardised PROFIBUS-DP lines. Spur cables can also be connected. Please note that spur cables should be kept as short as possible. Part No. 8788580000 has a 9-pin D-Sub socket for connecting analysis/programming devices.

- T-piece functions
- Good shield contact
- Ample space for connecting the bus cable
- TS 32/35 terminal rail mounting
- Standardised D-Sub connection for PROFIBUS-DP

RS PB-DP T



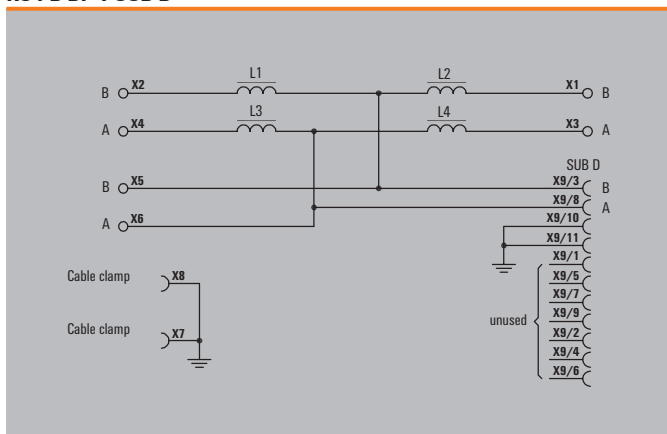
Technical data

Data transmission rate		max. 1.5 Mbps (with max. 6.6 m spur line) max. 12 Mbps (no spur lines)
Operating temperature	°C	0 ... 55
Storage temperature	°C	-25 ... +60
Ingress protection class		IP 20
Dimensions (LxWxH)	mm	70 x 45 x 42
Plug-in connector		D-sub 9-pin
Cable diameter	mm	4.5 ... 8
Single conductor cross-section	mm²	0.5 ... 2.5
Type of connection		screw
Note		

Ordering data

Type	Qty.	Order No.
RS PB-DP T	1	8800040000
RS PB-DP T SUB-D	1	8788580000

RS PB-DP T SUB-D





The PROFIBUS-PA is an open fieldbus standard (EN 50170, IEC 61158-2, DIN 19245). It was specifically designed for the requirements of process engineering, such as remote powering and intrinsic safety. The PROFIBUS-PA enables operation of several PA sensors and actuators on one bus line.

The devices are powered using twin cable technology, and the transmission of process data is digital.

Integration in the PROFIBUS-DP network is done by means of a segment coupler.

Specific advantages of PROFIBUS-PA:

- Low wiring costs
- Minimal planning costs for the process control system
- Remote interrogation or programming of the field device
- Further development and support by the PROFIBUS User Organisation

Whether for servicing or system modification, the PROFIBUS-PA FB connectors from Weidmüller enable connection or replacement of field devices without interrupting the bus system.

An extensive range of accessories, such as pre-assembled cables are also available.





PROFIBUS-PA cables



PROFIBUS-PA connectors

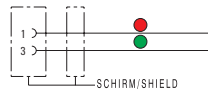
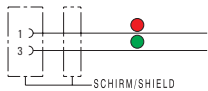
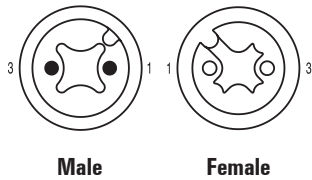


Profibus PA distributors

L

PROFIBUS-PA - cables

One end without connector
M12
A-coded



Ordering data		blue		black			
Male, straight							
PVC	1.0 m	FBCEX PA M12 M 1M	1785150100	FBC PA M12 M 1M	1785120100		
Male, angled							
PVC	1.0 m	FBCEX PA M12 MA 1M	1076580100	FBC PA M12 MA 1M	1076540100		
Female, straight							
PVC	1.0 m	FBCEX PA M12 FM 1M	1785140100	FBC PA M12 FM 1M	1785110100		
Female, angled							
PVC	1.0 m	FBCEX PA M12 FMA 1M	1076520100	FBC PA M12 FMA 1M	1076530100		
Note							

Standard cable lengths

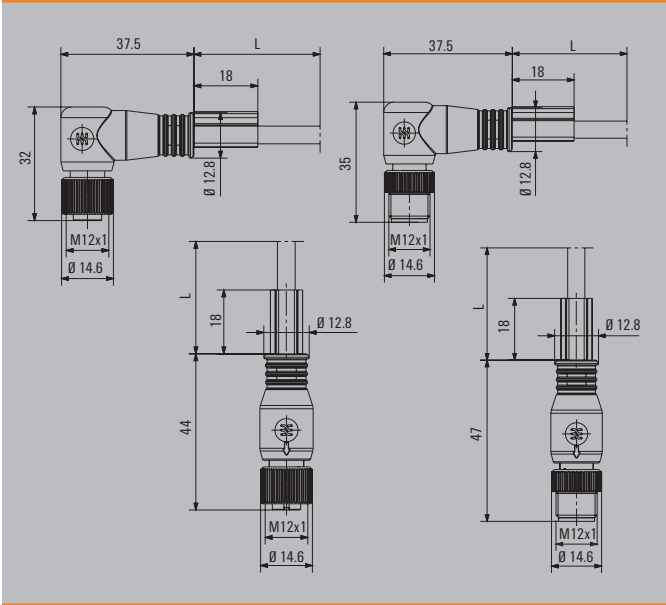
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.0 m	xxxxxx0100
	2.0 m	xxxxxx0200
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

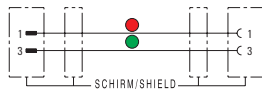
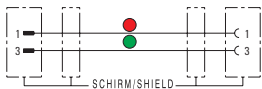
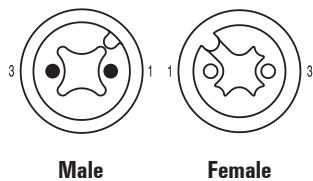
Cladding colour	black, blue
Protection degree	IP67
Core cross-section	1 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Coding	A-coded

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



PROFIBUS-PA cables
Connecting line



Ordering data		blue		black			
Male, straight - Female, straight							
PVC	1.0 m	FBCEX PA M12 M-FM 1M	1785130100	FBC PA M12 M-FM 1M	1785100100		
Male, straight - Female, angled							
PVC	1.0 m	FBCEX PA M12 M-FMA 1M	1075390100	FBC PA M12 M-FMA 1M	1075620100		
Male, angled - Female, angled							
PVC	1.0 m	FBCEX PA M12 MA-FMA 1M	1075410100	FBC PA M12 MA-FMA 1M	1076550100		
Male, angled - female, straight							
PVC	1.0 m	FBCEX PA M12 MA-FM 1M	1075450100	FBC PA M12 MA-FM 1M	1075460100		
Note							

Standard cable lengths

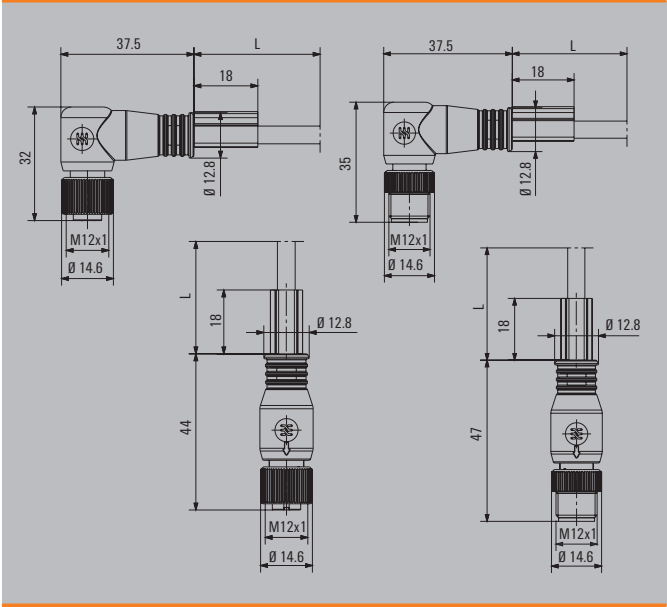
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.0 m	xxxxxx0100
	2.0 m	xxxxxx0200
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Cladding colour	black, blue
Protection degree	IP67
Core cross-section	1 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Coding	A-coded

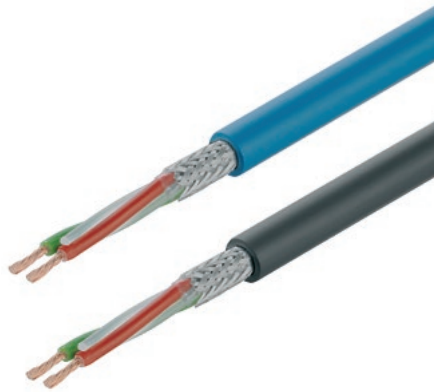
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



PROFIBUS-PA - cables

PROFIBUS-PA bulk lengths



Technical data

PROFIBUS-PA bulk lengths

Application

General characteristics

Assembly

Conductor

Insulating sleeve

Stranding

Wrapping

Shield

Outer cladding

Electrical characteristics at 20 °C

Wire resistance (loop)

Insulation resistance

Working capacity at 800 Hz

Inductance at 800 Hz

Characteristic impedance

at 31.25 kHz

at ≥ 1 MHz

Wave attenuation

at 39 kHz

at 100 kHz

at 1 MHz

Signal dispersion speed

Coupling resistance at < 30 MHz

Operating voltage (not for three-phase use)

Test voltage

Wire/wire

Wire/shield

Mechanical and thermal characteristics

Min. bending radius stationary installed / during installation

Temperature range during installation

Temperature range stationary installed

Flammability

- Fieldbus cable for PROFIBUS-PA field networks in accordance with IEC 1158-2
- The cable is suitable for installation in both dry and humid spaces.

When used with the black, UV-resistant cladding, it can also be installed outdoors.

None of the materials used for the cables during production are detrimental to paint adhesion (**they are LBS-free**).

LBS = Materials detrimental to paint adhesion

Copper wire, without insulation, 1.0 mm², finely stranded

Foam skin (O2YS), wire Ø approx. 2.55 mm

Wire colours: red and green

2 wires with 2 drain wires approx. 1.0 mm Ø stranded

1 layer insulation foil

Braiding made from tin-plated copper wire,

Coverage 85 % ± 5

PVC, blue RAL 5015 or black

Outer diameter: 8.0 mm ± 0.4

max. 44 Ω/km

min. 5 GΩ x km

nom. 52 nF/km

approx. 0.4 mH/km

100 Ω ± 20 %

nom. 80 Ω

max. 0.3 dB/100 m

nom. 0.35 dB/100 m

nom. 1.2 dB/100 m

nom. 79 %

max. 250 mΩm/m

Peak value 100 V

U_{eff.} 1500 V

U_{eff.} 1500 V

65 mm

-5 °C to +60 °C

-30 °C to +80 °C

Flame retardant in accordance with VDE 0482, part 265-2-1 / IEC 60 332-1

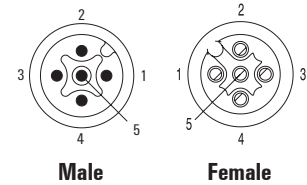
Note

Ordering data

Note

Type	Order No.
SAIH-PB-PA-2X1.0-PVC-BL	1232630000
SAIH-PB-PA-2X1.0-PVC-SW	1232640000

M12 screw connection
with shield connection
A-coded



Ordering data

Male	
	4-pole. PG 9
	5-pole. PG 9
Female	
	4-pole. PG 9
	5-pole. PG 7
	5-pole. PG 9
Note	

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

SAIS M / SAIB M

Straight



Type	Qty.	Order No.
SAISGS-M-4A-6/8-M12	1	9455640000
SAISGS-M-5A-6/8-M12	1	1784740000
SAIBGS-M-4A-6/8-M12	1	8426220000
SAIBGS-M-5A-4/6-M12	1	1191020000
SAIBGS-M-5A-6/8-M12	1	1784750000
Other versions on request		

Screw connection
CuZn
M12
4...6 mm (PG7)/ 6...8 mm (PG9)
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Gold-plated

SAISW M / SAIBW M

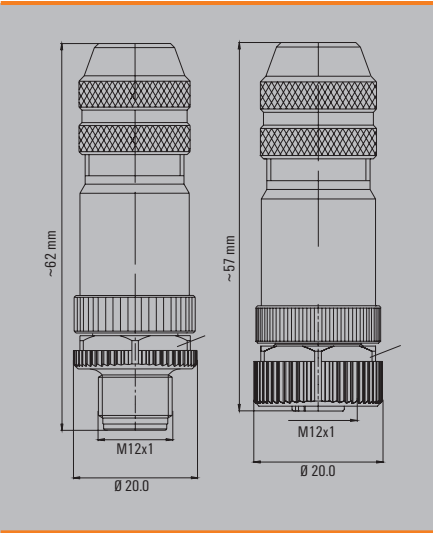
Angled



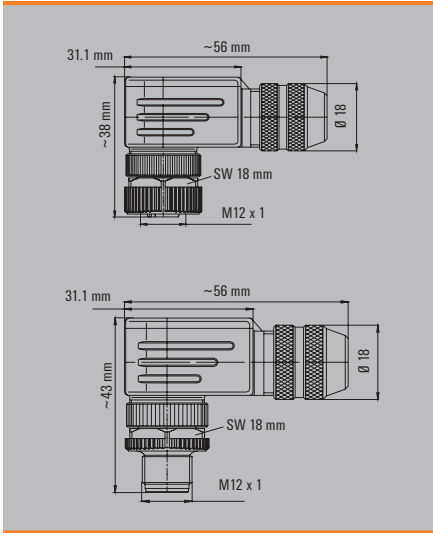
Type	Qty.	Order No.
SAISWS-M-4A-6/8-M12	1	1803930000
SAISWS-M-5A-6/8-M12	1	1803940000
SAIBWS-M-4A-6/8-M12	1	1803910000
SAIBWS-M-5A-6/8-M12	1	1803920000
Other versions on request		

Screw connection
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Gold-plated

Dimensioned drawing



Dimensioned drawing



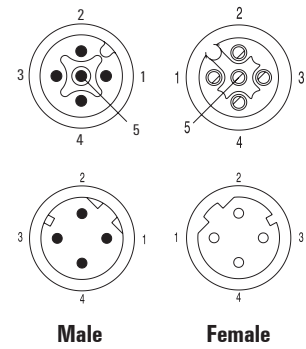
PROFIBUS PA - connectors

M12 tension-clamp connection,
stainless steel with shield connection
A-coded



SAIS VA / SAIB VA

Straight



Ordering data

Male	A-coded, 5-pole, PG 9
Female	A-coded, 5-pole, PG 9
Note	

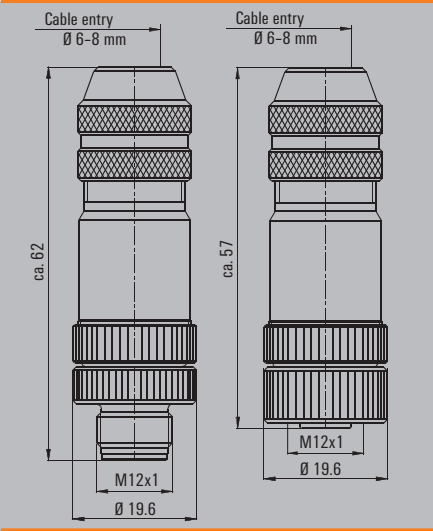
Type	Qty.	Order No.
SAISGZ-V-5A-6/8-M12	1	1920700000
SAIBGZ-V-5A-6/8-M12	1	1920710000

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

Tension-clamp connection
1.4404/316L
M12
6...8 mm (PG9)
0.14...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP69K
Gold-plated

Dimensioned drawing



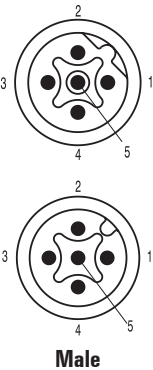
Built-in connectors, stainless steel

Front panel installation, PG9 mounting thread



Built-in connectors, Nickel-plated brass

Front panel installation, can be freely positioned, PG13.5 / M20 mounting thread



Technical data

No. of poles
Version
Temperature range
Housing material
Connection thread
Plug thread
Strand cross-section
Housing class of protection to DIN 40050 IEC 529
Strand length (fitted with wire-end ferrules)
Nominal current per contact
Rated voltage
Contact surface
Type of connection
Flammability class to UL-94
Nominal voltage to VDE standard 0110/ISO Group C
Resistance to creepage
Contact resistance to IEC 512 Part 2
Insulation resistance to IEC 512 Part 2

4
pin
-40 °C ... 85 °C
stainless steel (VA)
PG 9
M12
0.34 mm ²
IP 67
200 mm
4 A
250 V
gold-plated
screw

4/5
pin
-40 °C ... 85 °C
Cu Zn nickel surface
PG 13.5 / M 20
M12
0.34 mm ²
IP 67
150/300 mm
4 A
125 V 5-pole/250 V 4-pole
CuZnAu
screw
V-2
125 V ~ 150 V =
KC 600
≤ 8 mΩ
≥ 10 ¹² Ω

Hinweis

Ordering data

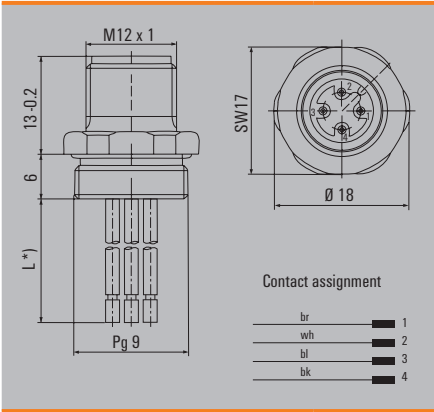
A-Coded, PG9, Strand length: 200 mm
A-Coded, PG13,5, Strand length: 150 mm
A-Coded, PG13,5, Strand length: 300 mm
A-Coded, M20, Strand length: 150 mm
A-Coded, M20, Strand length: 300 mm
B-Coded, M20, Strand length: 300 mm
Adapter PG9 / M20

Note

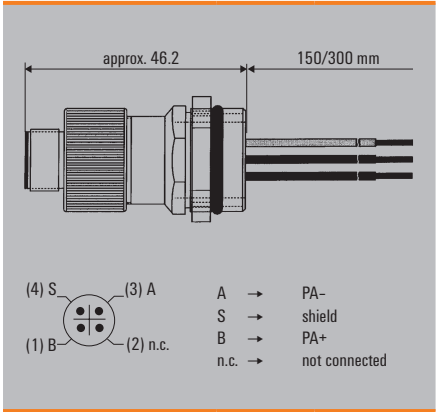
Type	Qty.	Order No.
SAIE-M12S-4-0.2U-AEH-VA	1	1861220001
SAIE-EW-M20/PG9-SW24-VA	1	1950270000

Type	Qty.	Order No.
POS-4P M12 PG13,5 150mm	1	9455650000
POS-4P M12 PG13,5 300 mm	1	8425910000
POS-4P M12 M20 150mm	1	8425930000
POS-4P M12 M20 300mm	1	8425940000
POS-5P M12/M20 300MM	1	1795500000

Dimensioned drawing



Dimensioned drawing



Fitting information

	Torque settings
Set screw	1.8 - 2.0 Nm
Knurled ring	hand-tight
Lock-nut	6.25 Nm
If the device is exposed to vibration, we recommend using a stub cable to isolate the device from the vibration.	

FBCon distributors for the industrial market



PROFIBUS-PA T-connector

- for industrial applications
- standard

The **PROFIBUS-PA** installation products are increasingly used in the:

- food and beverage industry
- process industries and
- chemical industry

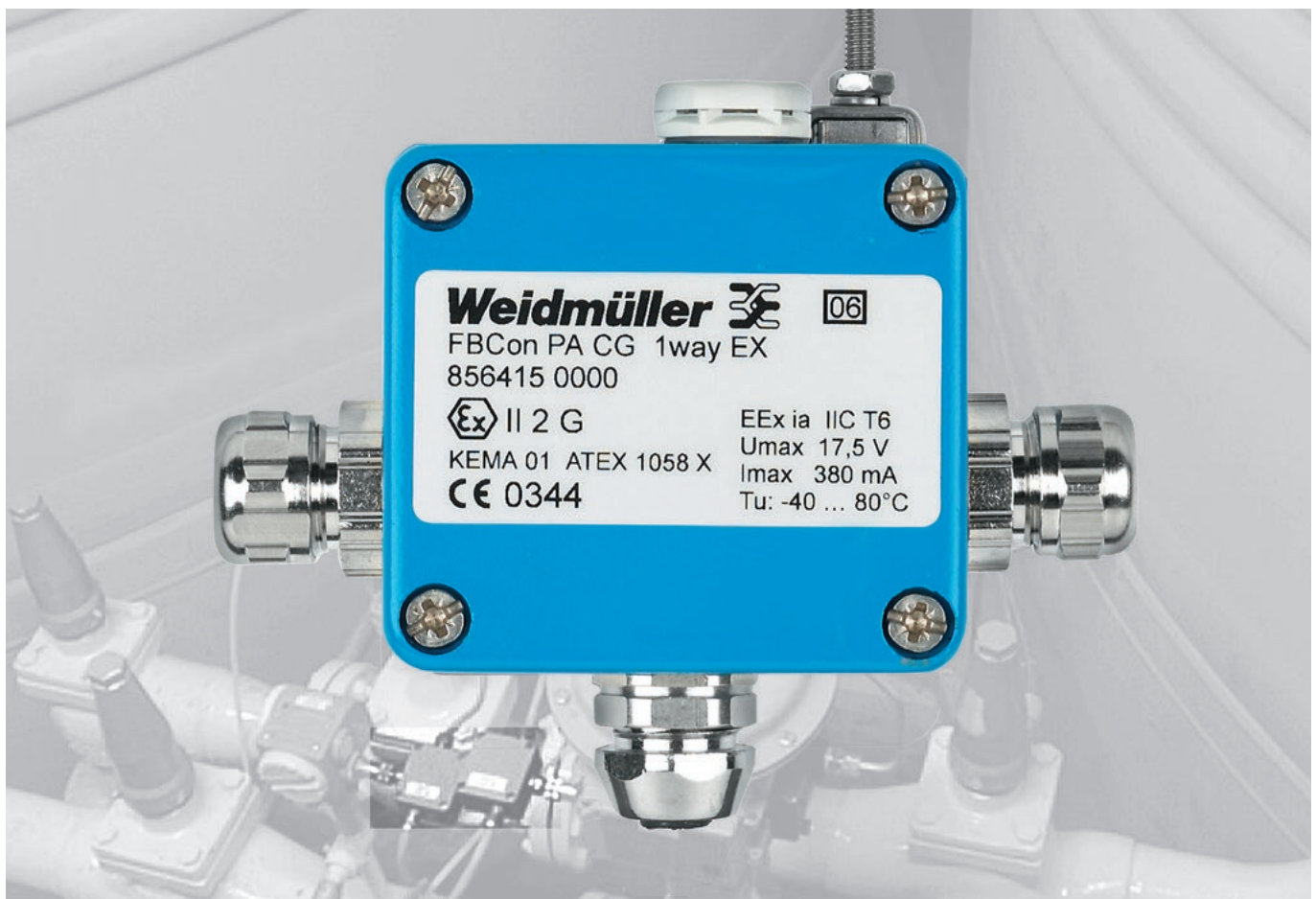
The product range offers a wide choice of customer solutions for use in harsh conditions. This includes standard and EX versions of single and multi-way design with M12 plug-in connection or cable glands. Weidmüller offers a solution for almost every application. If you cannot find your solution here, please contact the branch / sales office responsible for you.

PROFIBUS-PA T-connector standard

- 1, 2, 4, 8-way with EMC cable gland
- Industrial + EX / ATEX
- Optional surge protection

The **PROFIBUS-PA T-connector** is intended for direct coupling of measuring devices, sensors, actuators, etc.

- IP 66 Ingress protection class
- Modular design
- Uninterruptible bus operation for service situations
- Simple handling
- Low installation costs
- External earth stud
- Pressure equalising element
- EMC cable gland



FBCon Fieldbus distributor

PROFIBUS-PA Fieldbus distributor: robust and well-tested

FBCon fieldbus distributors are available in industrial and Ex(ia) versions. They are used for coupling 1-8 field devices or sensors. The connection is made via a spur. The spur is connected by an M12 plug-in connector or directly via an EMC cable gland.

The communication and device powering is handled by a common 2-core wire.

The PROFIBUS-PA distributors normally feature a switchable terminating resistor. For the Ex zone, the terminating resistor is made with a separate box. Current limiting variants help to ensure that the facility can operate smoothly.

Weidmüller offers a comprehensive line of accessories including pre-assembled PROFIBUS-PA cables in the standard lengths, and plug in connectors for a wide variety of applications.

- Fieldbus distributor for PROFIBUS-PA and PROFIBUS-DP
- Standard distributor for use in the safe zone
- Aluminium housing for connecting from 1 to 8 field devices
- Stainless steel distributor for applications in the food processing industry, for connecting from 1 to 8 field devices
- Intrinsically safe (ia) Ex version in aluminium housing for connecting from 1 to 8 field devices
- EMC cable gland for a secure contact with the shielding

Technical data for PROFIBUS-PA standard distributors

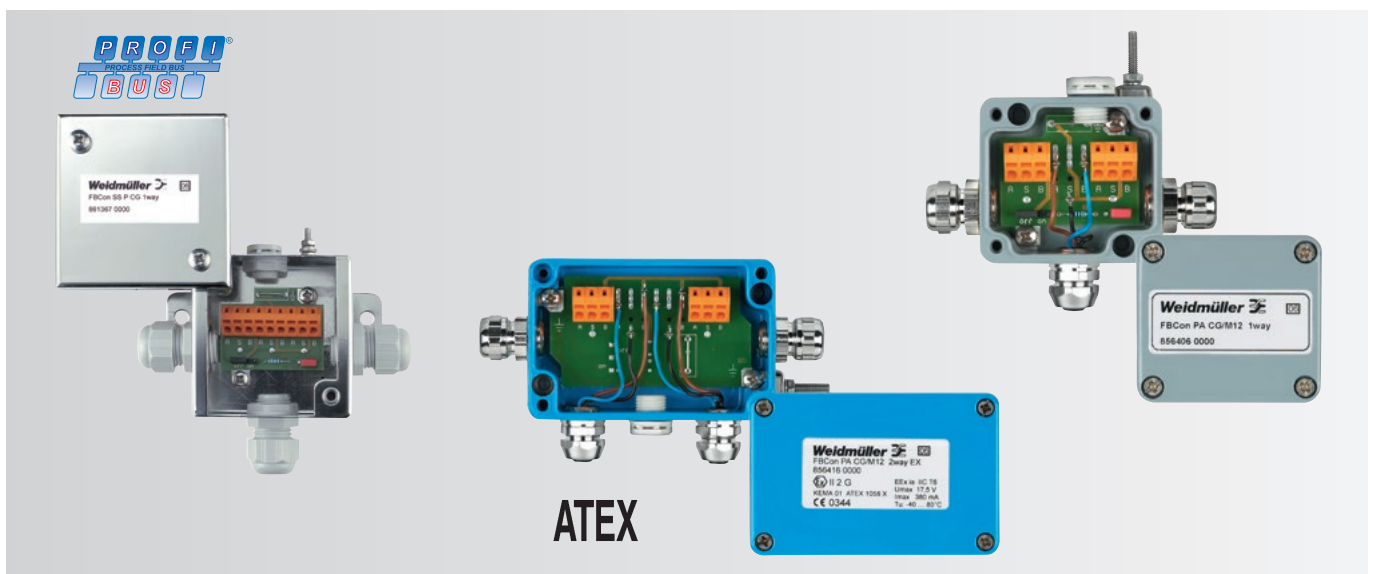
Temperature range	
Operating temperature	from -40 °C to 85 °C
Ingress protection class	IP 66
Housing material	High-quality aluminium alloy (AL-Si 12)
Surface	Stove-enamelled RAL 7001
PROFIBUS-PA connection	Tension clamp connection 0.5 - 1.5 mm ²
Cable entry	Cable gland M16
Clamping range	5.5 - 9.5 mm
Measuring device connector M12 x 14-pin	Contacts MS, surface CUZnAu
Note	

Handling information

Torques	
M16 gland to housing	6.25 Nm
M16 union nut on cable gland	4.5 Nm
Housing cover	1.8 - 2.0 Nm
External earth stud	1.8 - 2.0 Nm

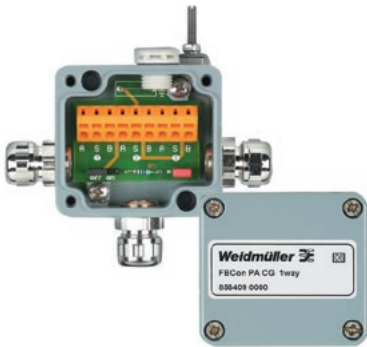
Note:

We do not recommend to use PBCon products in strong saline environments.



PROFIBUS-PA - FBCon T-distributor

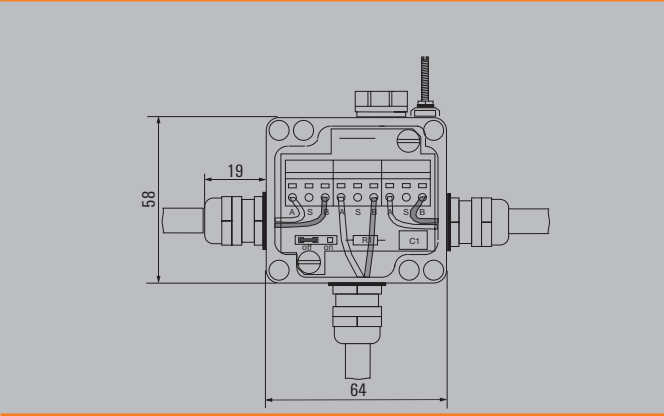
1-channel distributor



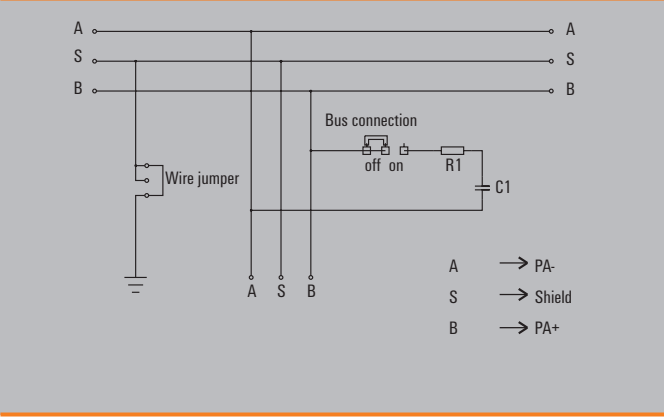
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 1WAY	branch line CG	1	8564090000
Stainless steel housing			
FBCon SS CG 1WAY	branch line CG	1	8703430000
FBCon SS PCG 1WAY	all connections PCG	1	8613670000

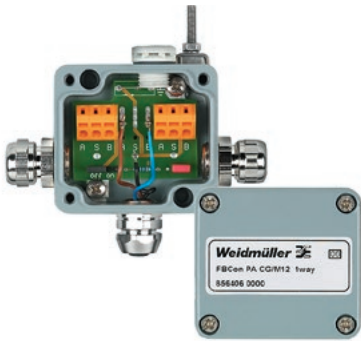
Dimensioned drawing



Wiring diagram



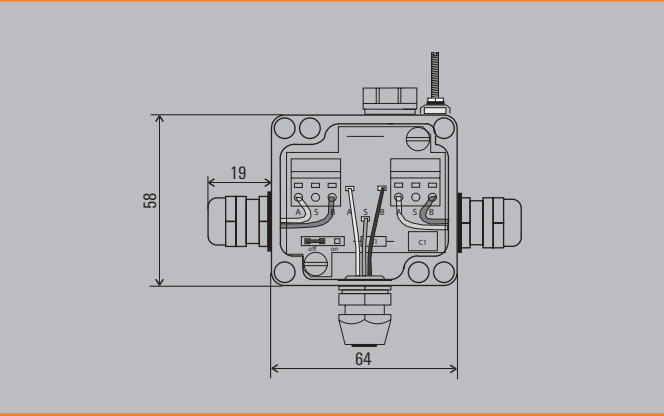
1-channel distributor



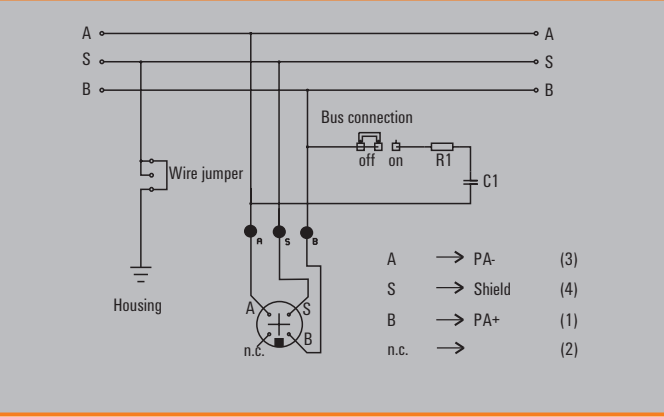
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 1WAY	branch line M12	1	8564060000

Dimensioned drawing



Wiring diagram



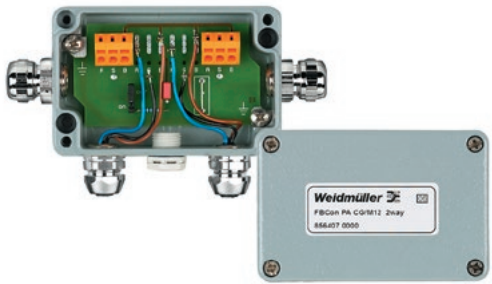
2-channel distributor



Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG 2WAY	branch line CG	1	8564100000

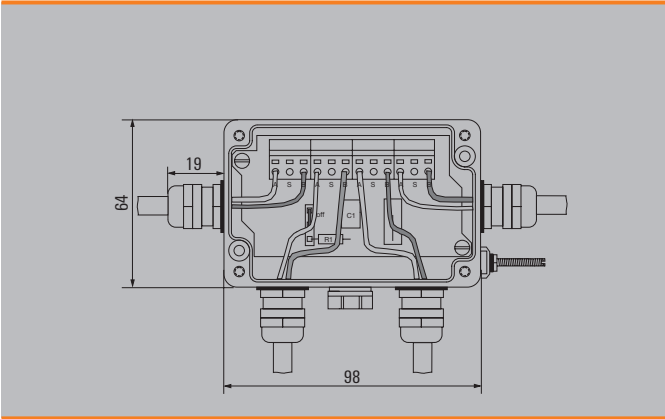
2-channel distributor



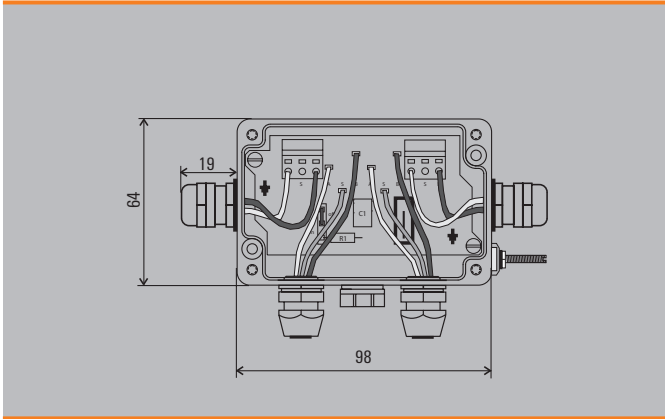
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG/M12 2WAY	branch line M12	1	8564070000

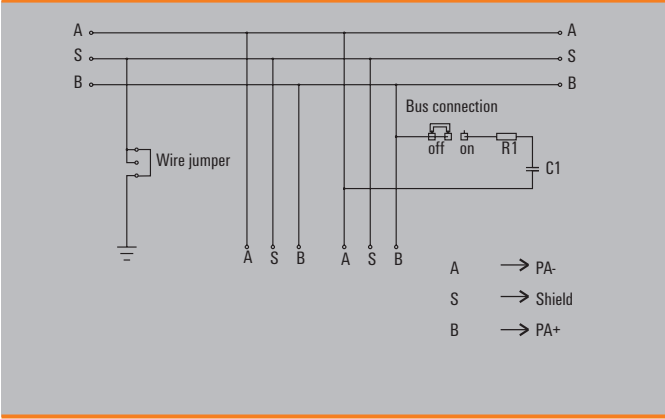
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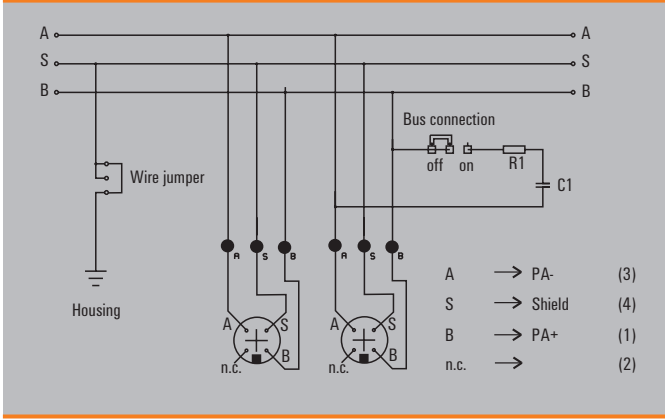
Dimensioned drawing



Wiring diagram

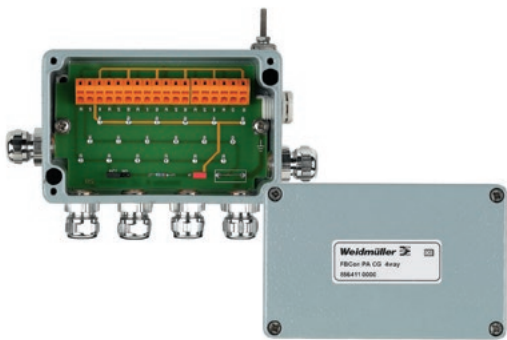


Wiring diagram



PROFIBUS-PA - FBCon T-distributor

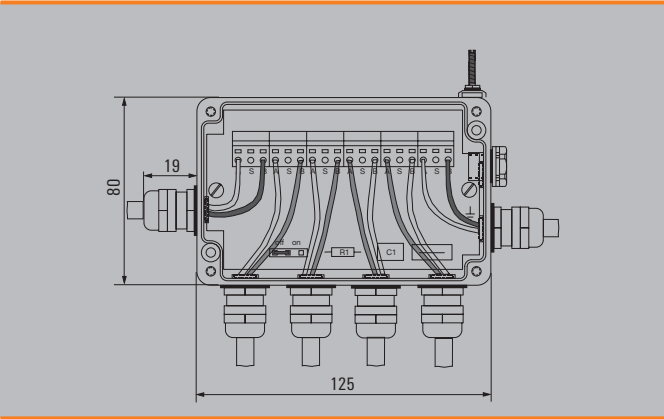
4-channel distributor



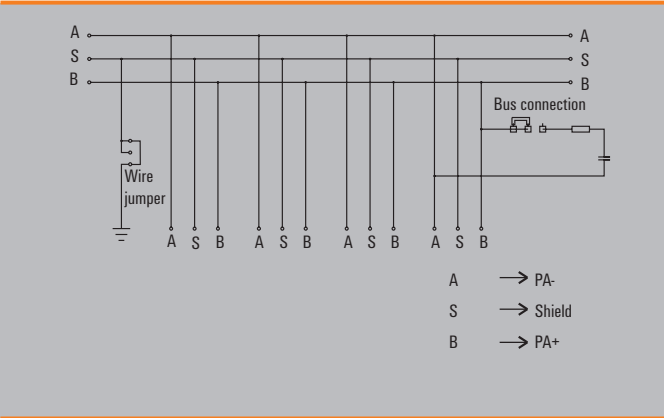
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 4WAY	branch line CG	1	8564110000
Stainless steel housing			
FBCon SS CG 4WAY	branch line CG	1	8703450000
FBCon SS PCG 4WAY	all connections PCG	1	8613680000

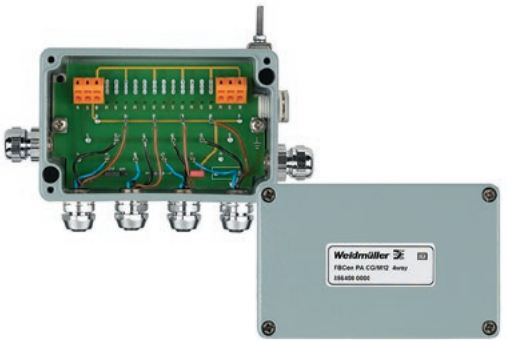
Dimensioned drawing



Wiring diagram



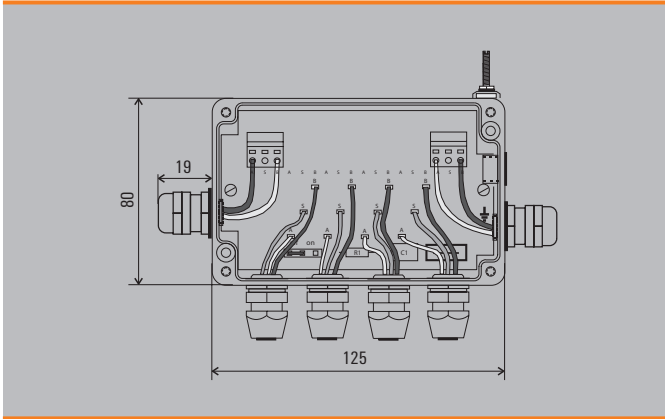
4-channel distributor



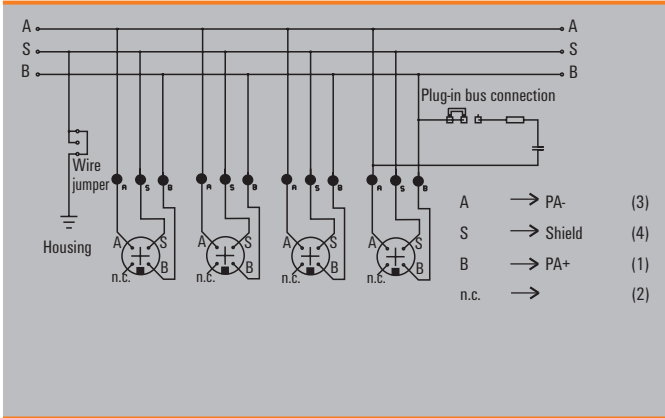
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 4WAY	branch line M12	1	8564080000

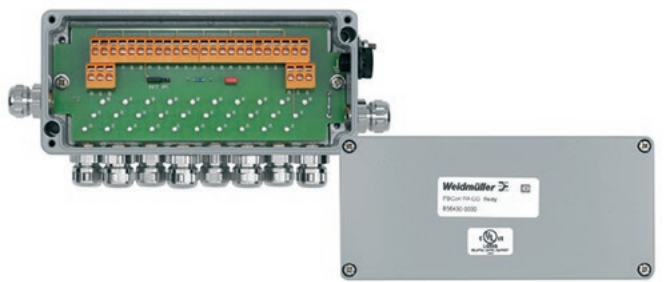
Dimensioned drawing



Wiring diagram



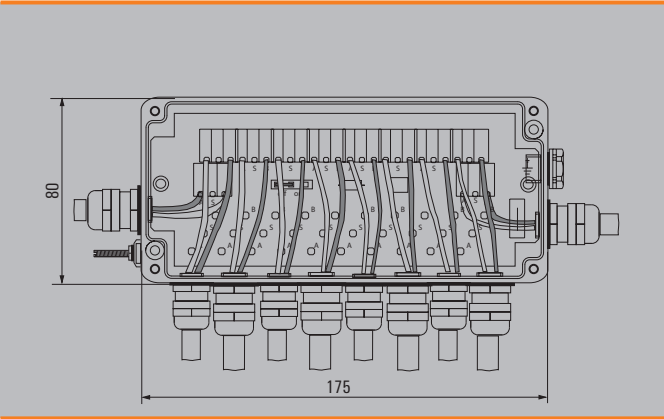
8-channel distributor



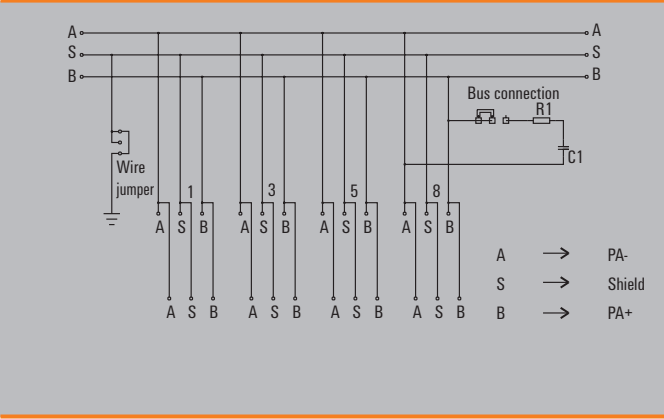
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 8WAY	branch line CG	1	8564300000
Stainless steel housing			
FBCon SS CG 8WAY	branch line CG	1	8703470000

Dimensioned drawing



Wiring diagram



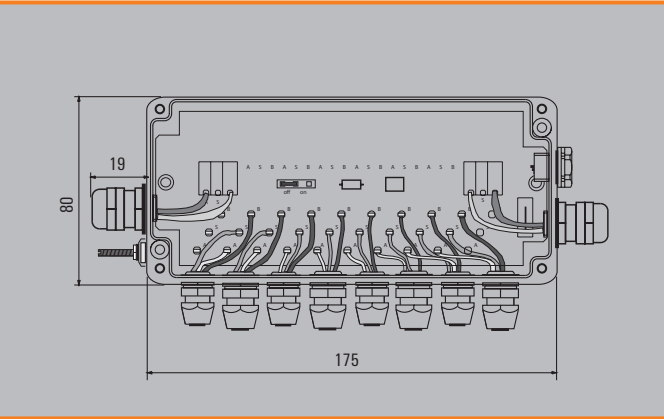
8-channel distributor



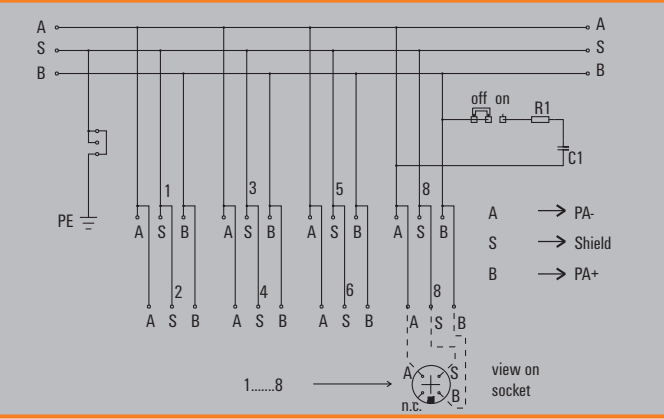
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 8WAY	branch line M12	1	8564310000

Dimensioned drawing

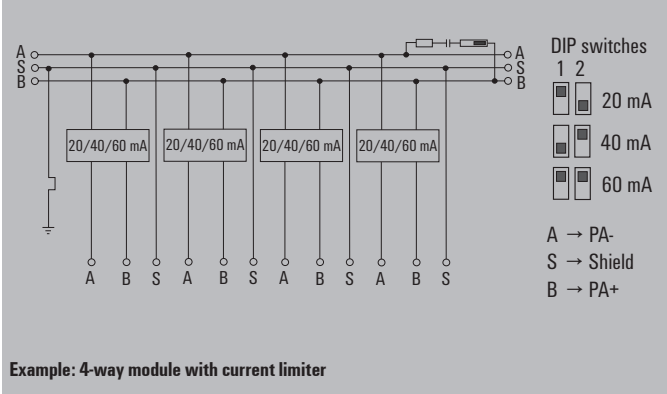
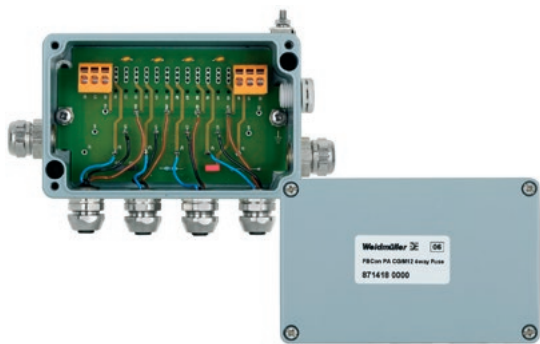


Wiring diagram



PROFIBUS-PA - FBCon T-distributor with protective function

Distributor for Profibus PA/Foundation Fieldbus



For standard industry applications (not explosive risk zones), PROFIBUS PA fieldbus distributors and segment protectors („limiters“) are available as 1-way, 2-way, 4-way and 8-way distributors.

FBCon segment protectors are designed to protect connected field devices against surge voltages and short circuits. Suppressor diodes are used as voltage-limiting protective elements. The integrated current limiting protects the segment against short circuits at a stub cable.

EMC cable glands, the IP66 protection class and a wide operating temperature range reliably protect your connections in harsh environments.

Limiter
Technical data

Operating temperature	−40 °C to 55 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (AL – SI 12)
Finish	Painted RAL 7001
PROFIBUS-PA connection	Tension clamp terminals 0.5 – 1.5 mm²
Cable entry	Cable gland M16
Branch	M12 socket (4-pin)
Cable gland clamping range	5.5 – 9.5 mm
Short-circuit protection per station	20, 40, 60 mA settings
PROFIBUS-PA bus terminator	Via jumper

Installation advice

Torques	
Screw terminals	0.4 Nm
M16 cable gland at enclosure	6.0 Nm
Union nut M16 cable gland	4.0 Nm
Enclosure cover	1.8 – 2.0 Nm
External earthing cable	1.8 – 2.0 Nm

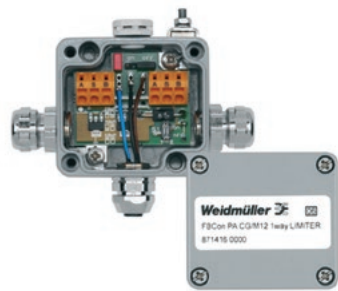
1-channel distributor (limiter)



Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG 1WAY LIMITER	branch line CG	1	8714200000
Stainless steel housing			
FBCON SS PCG 1WAY LIMITER	all connections PCG	1	8726110000

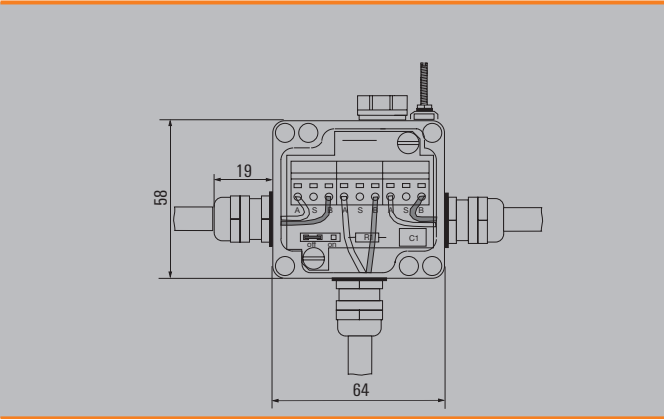
1-channel distributor (limiter)



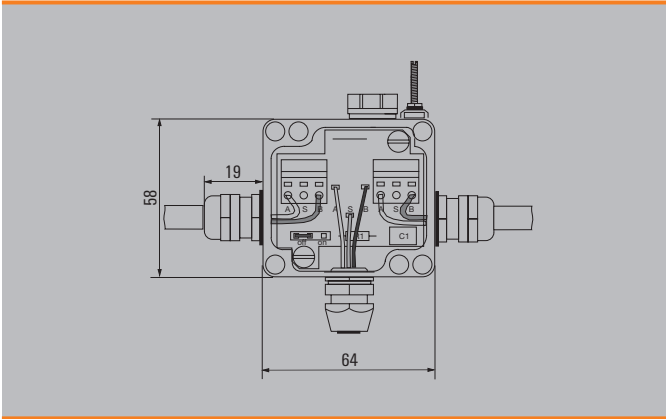
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG/M12 1WAY LIMITER	branch line M12	1	8714160000

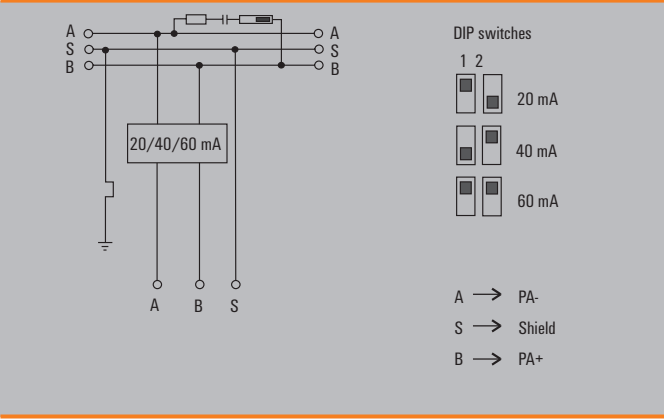
Dimensioned drawing



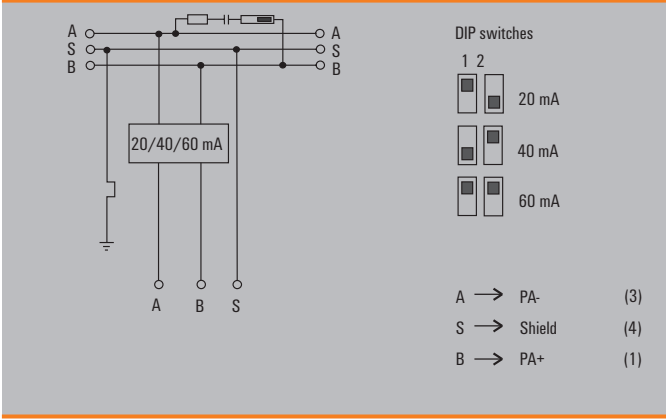
Dimensioned drawing



Wiring diagram



Wiring diagram



PROFIBUS-PA - FBCon T-distributor with protective function

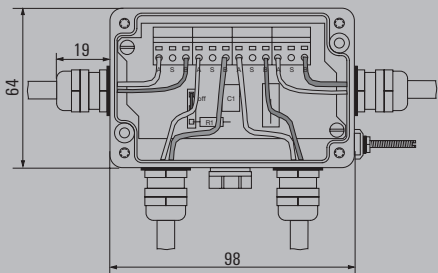
2-channel distributor (limiter)



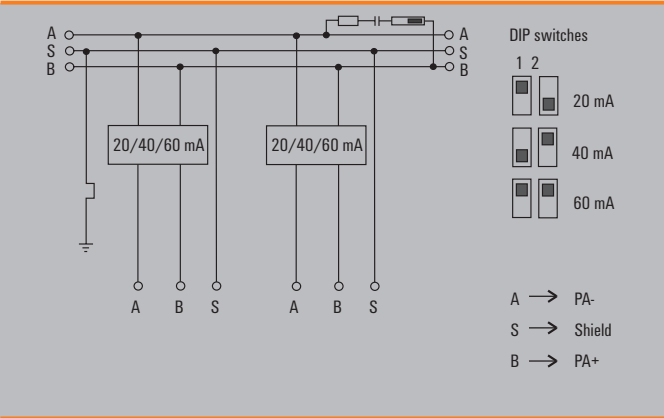
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 2WAY LIMITER	branch line CG	1	8714210000

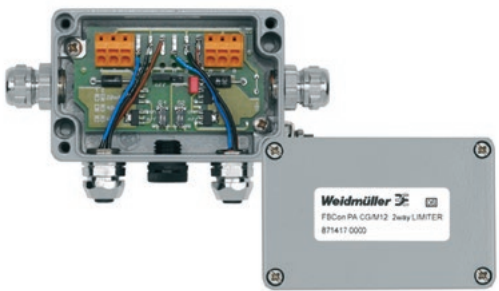
Dimensioned drawing



Wiring diagram



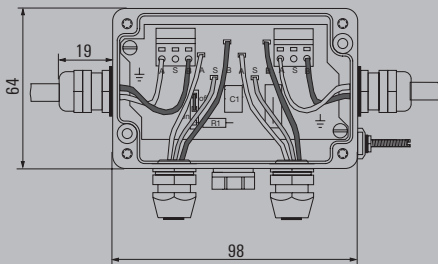
2-channel distributor (limiter)



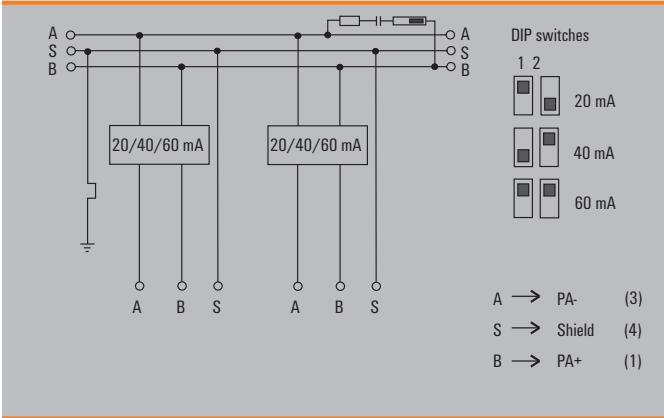
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 2WAY LIMITER	branch line M12	1	8714170000

Dimensioned drawing



Wiring diagram



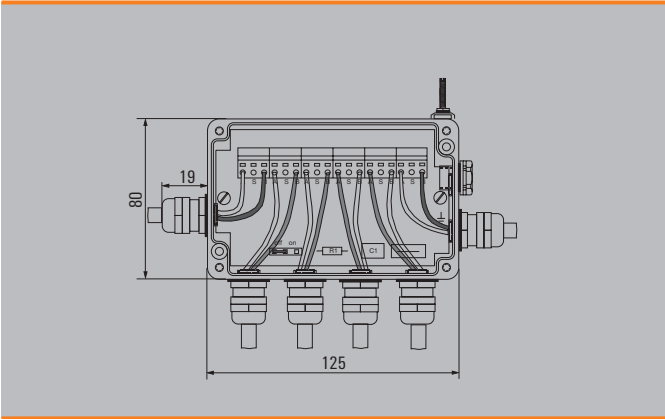
4-channel distributor (limiter)



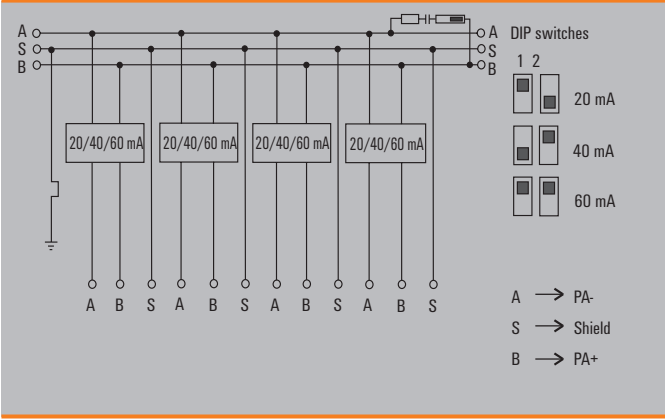
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 4WAY LIMITER	branch line CG	1	8714220000
Stainless steel housing			
FBCon SS PCG 4WAY LIMITER	all connections PCG	1	8715260000

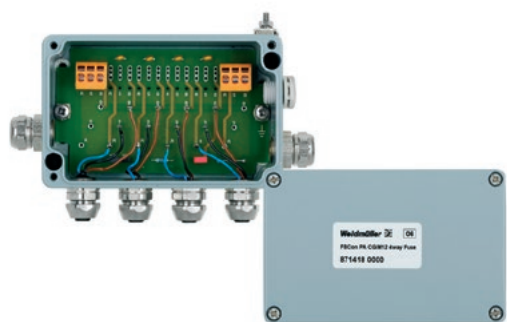
Dimensioned drawing



Wiring diagram



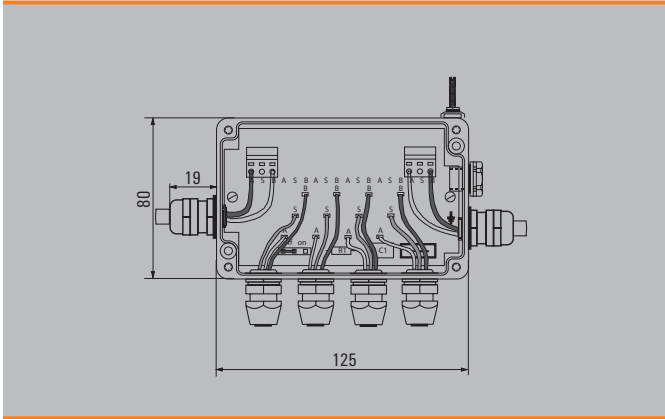
4-channel distributor (limiter)



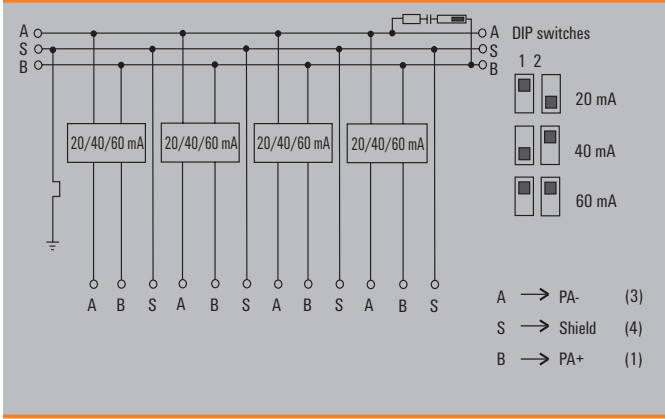
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 4WAY LIMITER	branch line M12	1	8714180000

Dimensioned drawing



Wiring diagram



PROFIBUS-PA - FBCon T-distributor with protective function

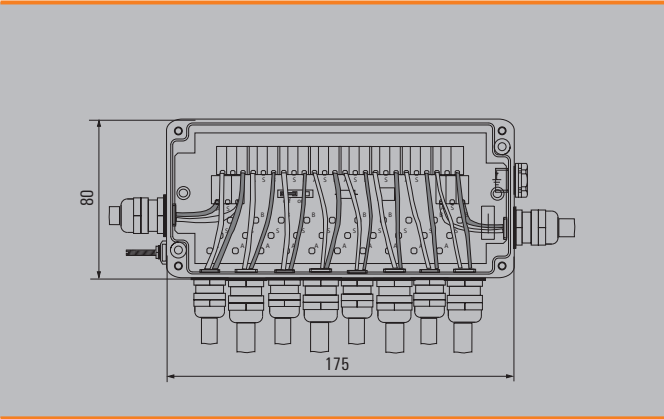
8-channel distributor (limiter)



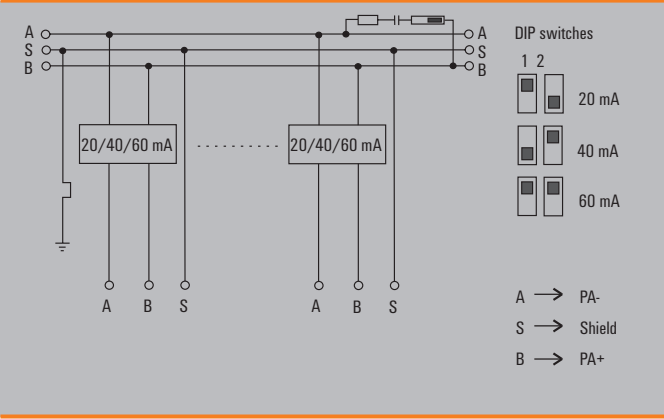
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 8WAY LIMITER	branch line CG	1	8714230000
Stainless steel housing			
FBCon SS PCG 8WAY LIMITER	all connections PCG	1	8726160000

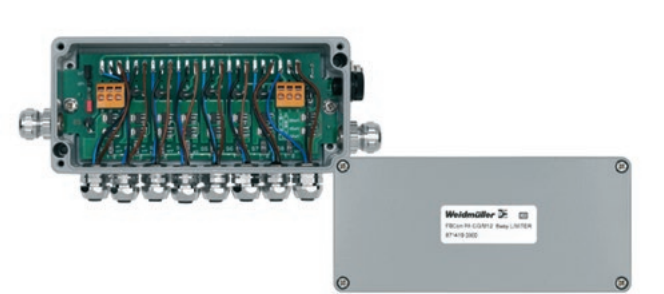
Dimensioned drawing



Wiring diagram



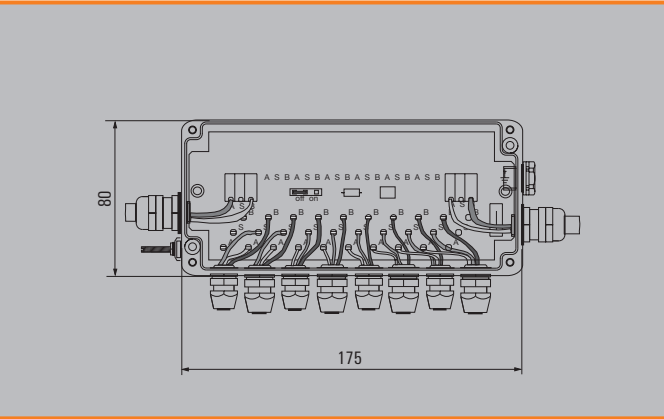
8-channel distributor (limiter)



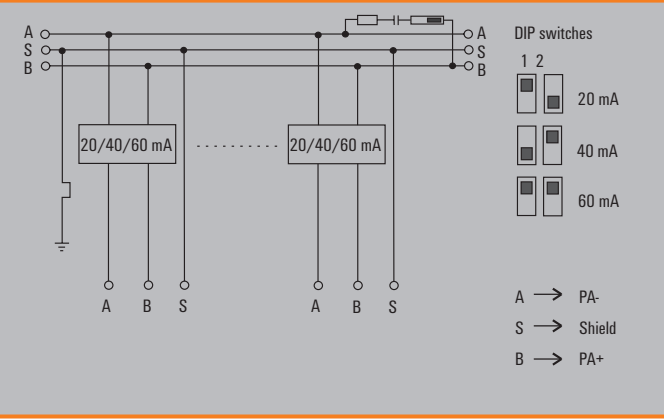
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 8WAY LIMITER	branch line M12	1	8714190000

Dimensioned drawing



Wiring diagram



Distributor for Profibus PA in explosive risk zones

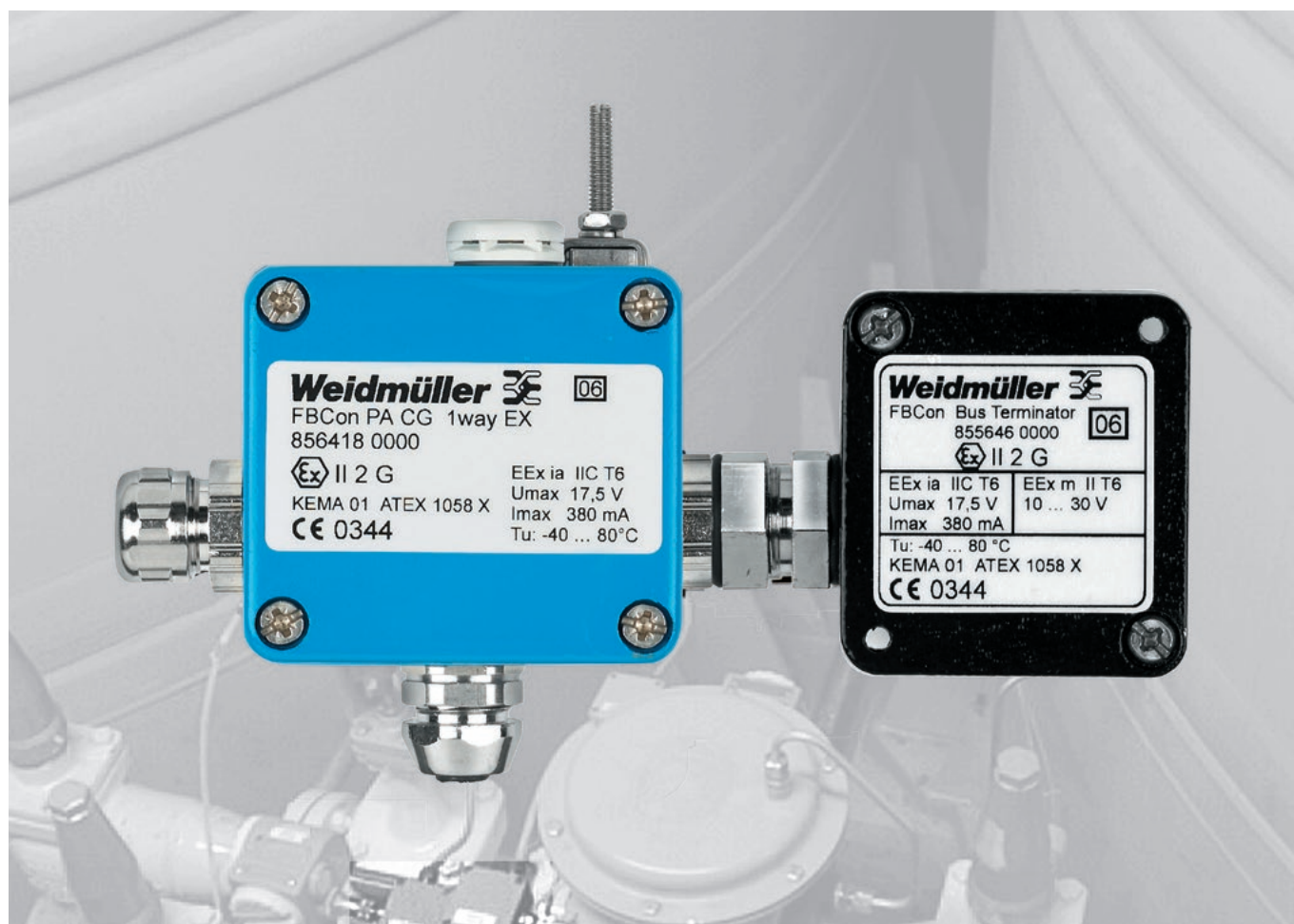


For applications in explosive risk zones, PROFIBUS PA Ex fieldbus distributors are available as 1-way, 2-way, 4-way and 8-way distributors.

EMC cable glands, the IP66 protection class and a wide operating temperature range reliably protect your connections in harsh environments.

Functionality

- Approval for intrinsically safe use ATEX approval
- EMC cable glands for main and stub cables
- M12 plug for stub cables
- External earth stud
- Pressure-equalising element
- IP66 protection class
- Versions in aluminium
- Profibus-PA-compatible



Approvals

CERTIFICATE
EC-Type Examination

(1) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(2) EC-Type Examination Certificate Number: KEMA 01ATEX1058 Issue Number: 3

(3) Equipment: Bus Terminator Module Type FBCon bus and Bus Distribution Module Type FBCon...

(4) Manufacturer: Weidmüller Interface GmbH & Co.

(5) Address: Klingenbergstraße 16, 32758 Detmold, Germany

(6) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(7) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report number 2077712.

(8) Compliance with the Essential Health and Safety Requirements has been attested by conformity with:

EN 60076-0 : 2012 EN 61076-11 : 2012

(9) If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(10) This EC-Type Examination Certificate relates only to the design, construction and tests of the finished equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(11) The marking of the equipment shall include the following:

 II 2 G Ex ia IIC T6 Gb
II 2 D Ex ia IIIC T85°C Db

This certificate is issued on 17 December 2013 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

Certification Manager

Page 1/3

Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.

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T +31 88 66 83000 | F +31 88 66 83100 | www.dekra-certification.com | Registered: Arnhem 02685336

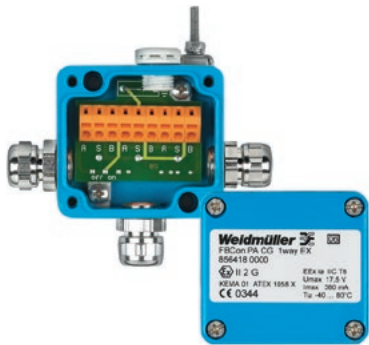


Note:

FBCon products with aluminium housings and/or M12 connections are not recommended for use in extremely saline environments.

PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)

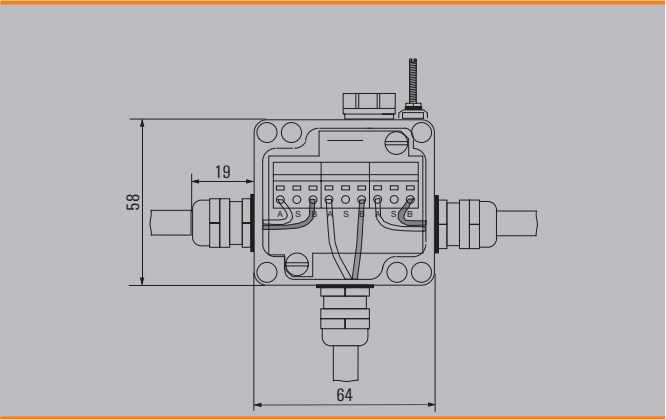
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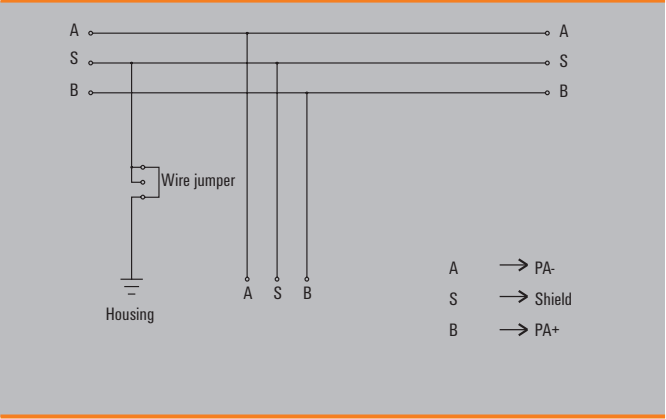
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG 1WAY EX	branch line CG	1	8564180000

Dimensioned drawing



Wiring diagram



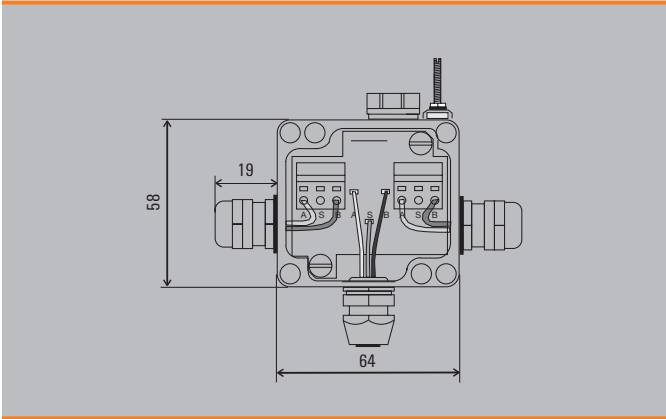
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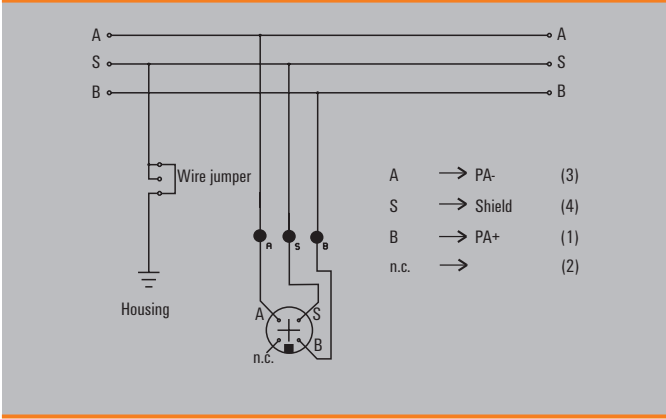
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG/M12 1WAY EX	branch line M12	1	8564150000

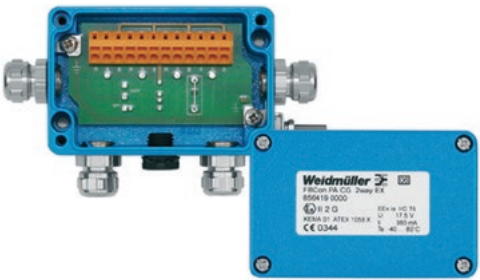
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Wiring diagram



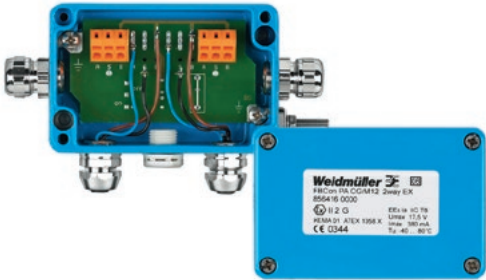
2-channel distributor Ex



Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 2WAY EX	branch line CG	1	8564190000

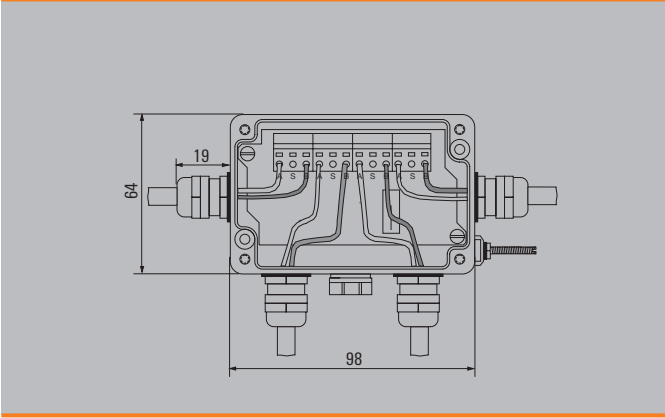
2-channel distributor Ex



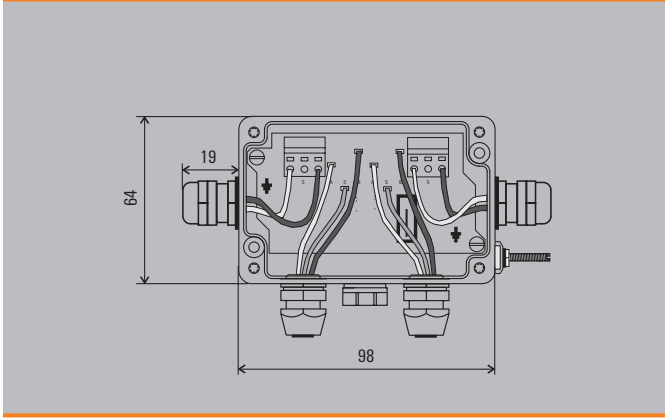
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 2WAY EX	branch line M12	1	8564160000

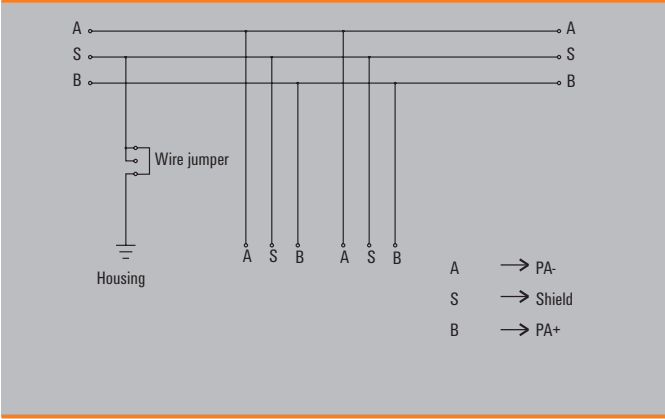
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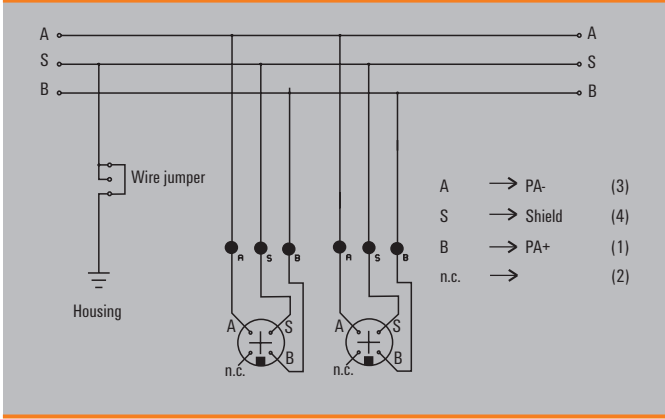
Dimensioned drawing



Wiring diagram

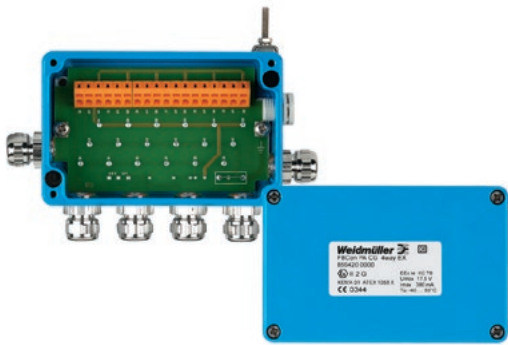


Wiring diagram



PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)

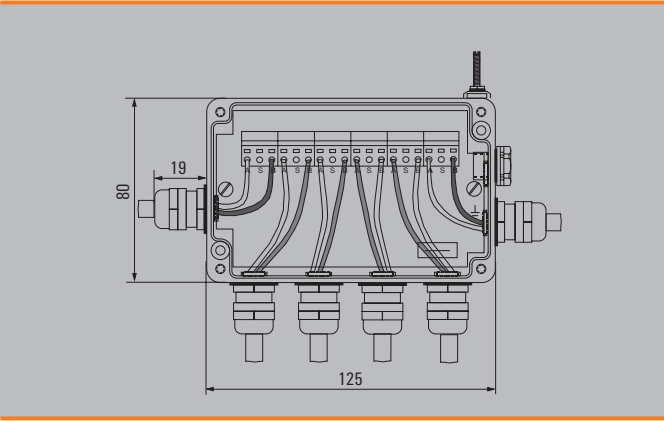
4-channel distributor Ex



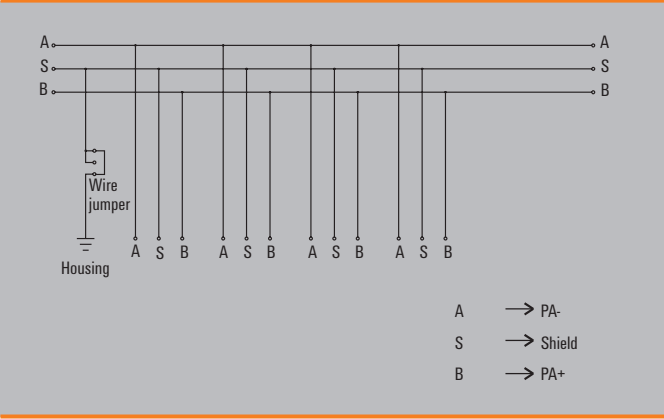
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG 4WAY EX	branch line CG	1	8564200000

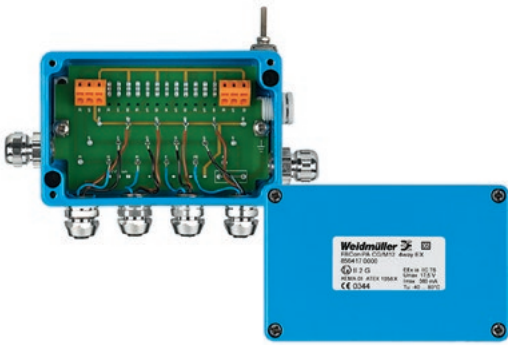
Dimensioned drawing



Wiring diagram



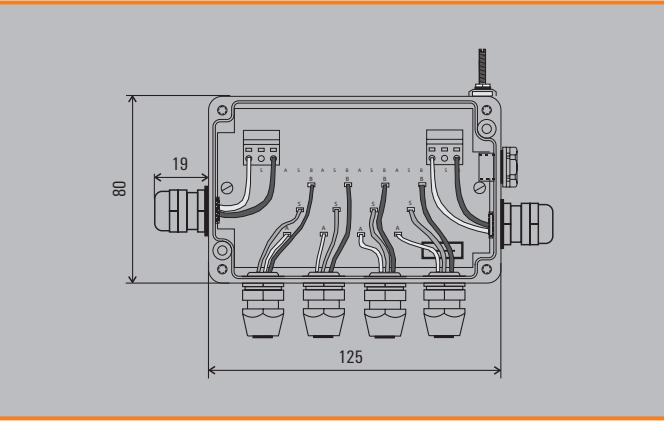
4-channel distributor Ex



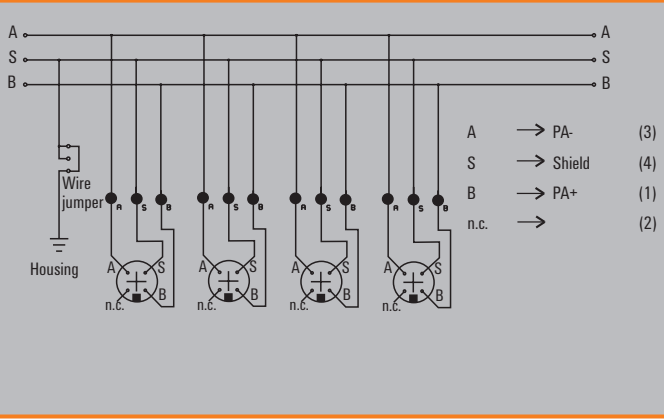
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG/M12 4WAY EX	branch line M12	1	8564170000

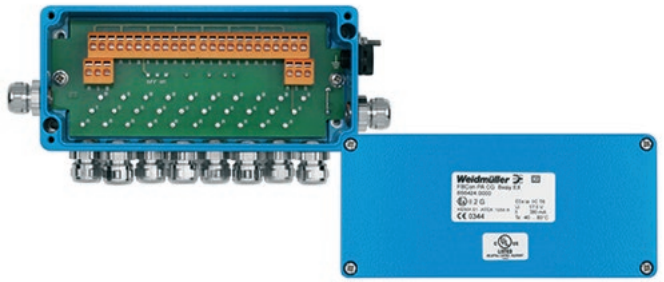
Dimensioned drawing



Wiring diagram



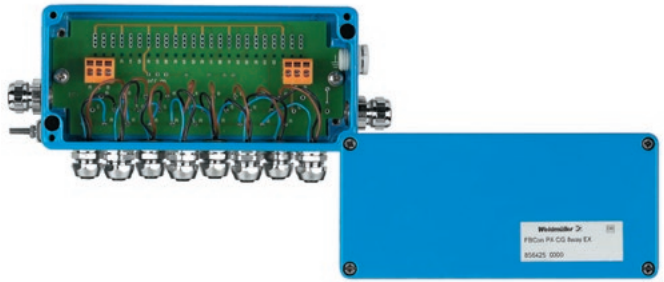
8-channel distributor Ex



Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG 8WAY EX	branch line CG	1	8564240000

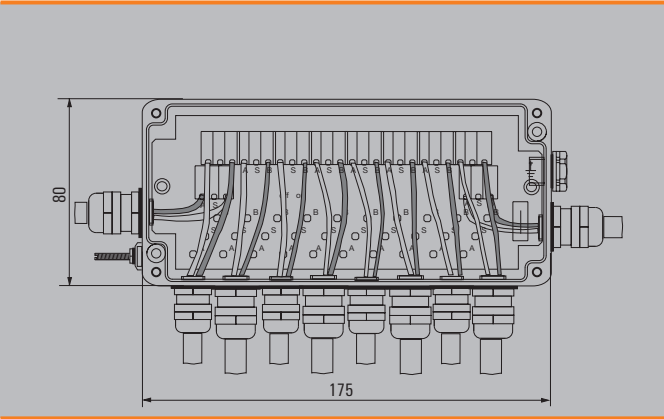
8-channel distributor Ex



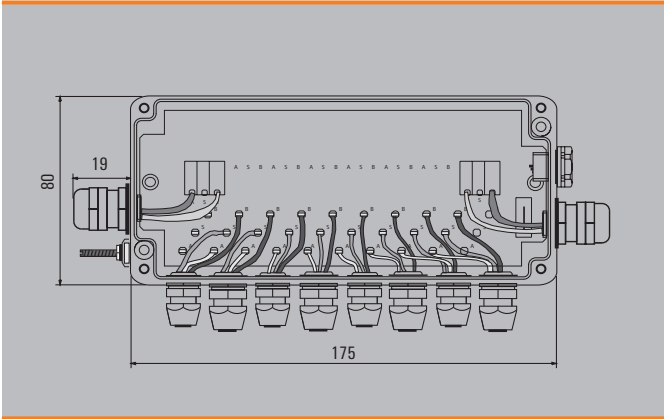
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG/M12 8WAY EX	branch line M12	1	8564250000

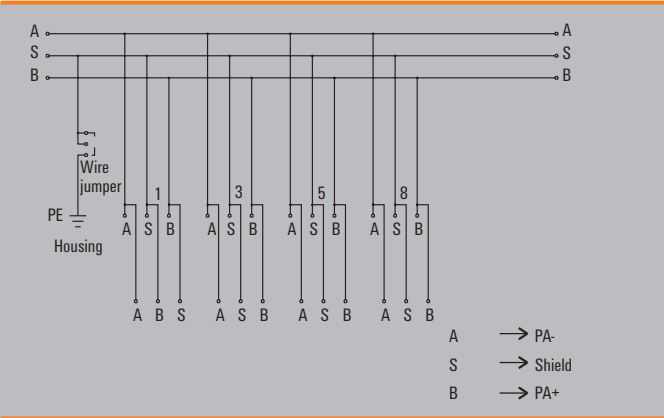
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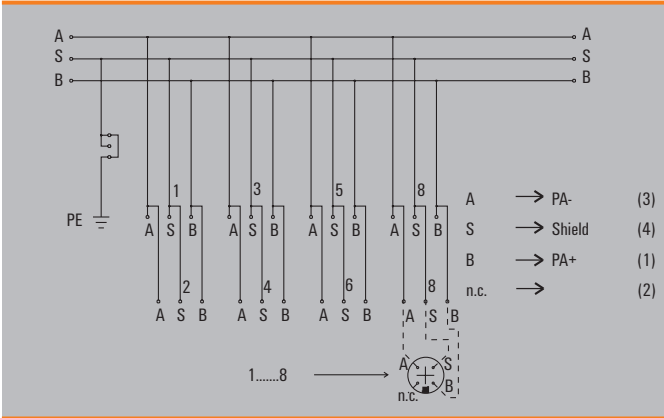
Dimensioned drawing



Wiring diagram

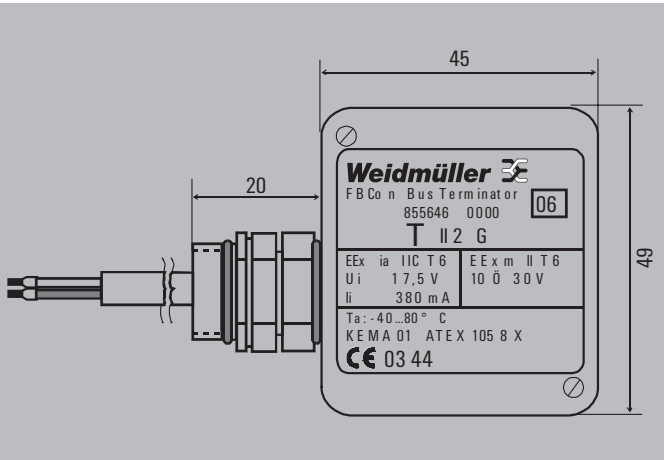
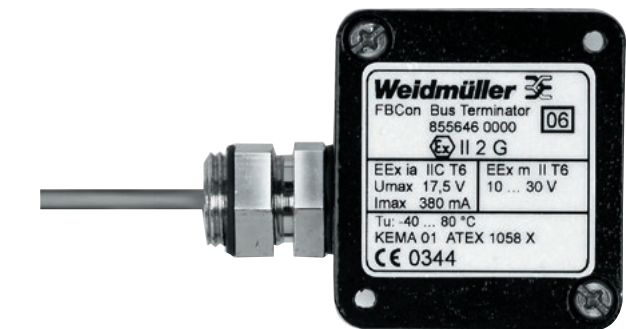


Wiring diagram



PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)

FBCon bus terminator without earth connection



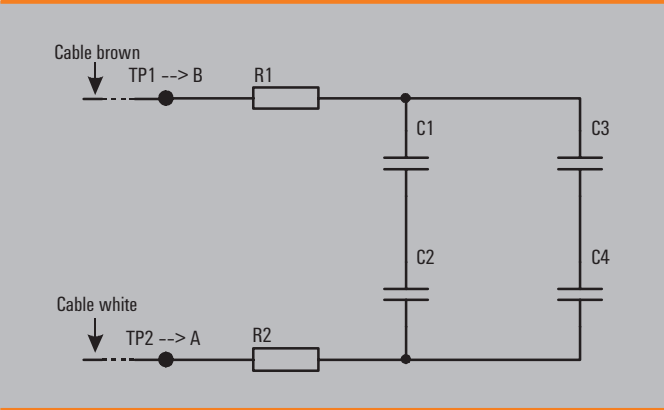
Technical data

Operating temperature	-40 °C to 80 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (Al - Si 12)
Finish	Black powder-coated
Connection lead	2 x 0.14 mm ²
Cable entry	Bus adapter M16

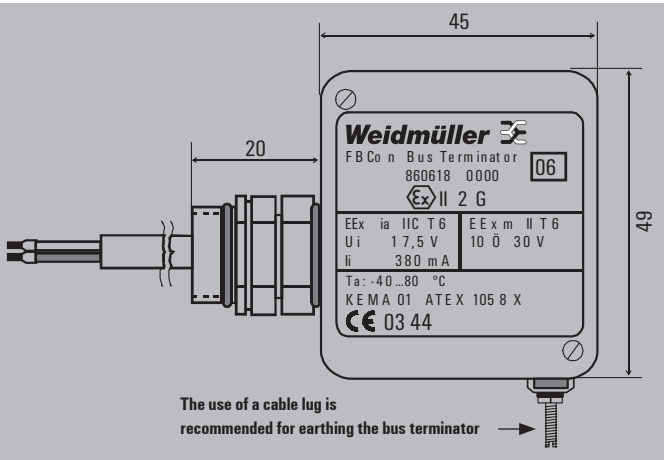
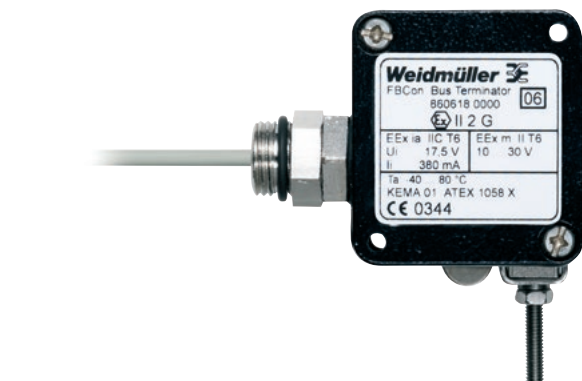
Ordering data

Type	Qty.	Order No.
FBCon Bus Terminator EEx with locking clip, without earth connection	1	8556460000
FBCon Bus Terminator EEx without locking clip, without earth connection	1	8606190000

Wiring diagram



FBCon Bus Terminator with earth connection



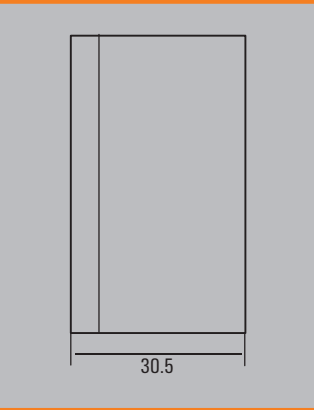
Technical data

Operating temperature	-40 °C to 80 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (Al - Si 12)
Finish	Black powder-coated
Connection lead	2 x 0.14 mm ²
Cable entry	Bus adapter M16

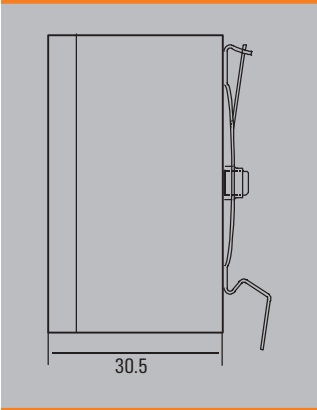
Ordering data

Type	Qty.	Order No.
FBCon Bus Terminator EEx with locking clip, withearth connection	1	8606180000
FBCon Bus Terminator EEx without locking clip, with earth connection	1	8606200000

Housing cover without clip-on foot



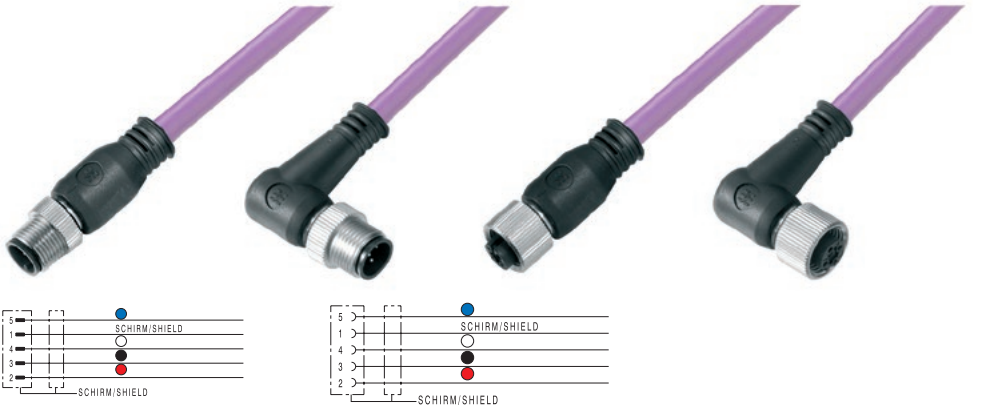
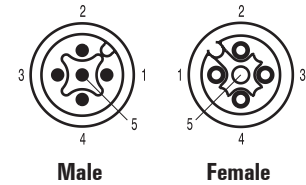
Housing cover with clip-on foot





CANopen & DeviceNet™ cables

One end without connector
M12
A-coded



Ordering data		Male	5-pole	Female	5-pole
Straight					
PUR/TPE	1.5 m	SAIL-M12G-CD-1.5A	1964700150	SAIL-M12BG-CD-1.5A	1964690150
PVC/PVC	1.5 m	SAIL-M12G-CD-1.5B	1060110150	SAIL-M12BG-CD-1.5B	1060120150
Angled					
PUR/TPE	1.5 m	SAIL-M12W-CD-1.5A	1062220150	SAIL-M12BW-CD-1.5A	1061980150
PVC/PVC	1.5 m	SAIL-M12W-CD-1.5B	1062170150	SAIL-M12BW-CD-1.5B	1062180150
Note		Other versions on request		Other versions on request	

Standard cable lengths

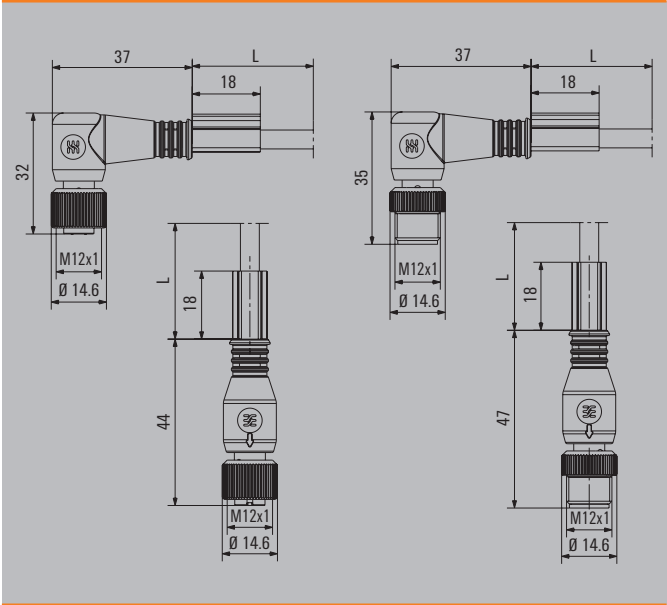
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

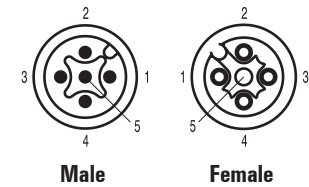
Sheathing colour	violet
Protection degree	IP67
Wire cross section	2 x 0.34 mm ² + 2 x 0.22 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Coding	A-coded

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Connecting cables
M12 to M12
A-coded



Ordering data

Male, straight - Female, straight	
PUR/TPE	1.5 m
PVC/PVC	1.5 m
Male, straight - Female, angled	
PUR/TPE	1.5 m
PVC/PVC	1.5 m
Male, angled - Female, angled	
PUR/TPE	1.5 m
PVC/PVC	1.5 m
Note	

5-pole	
SAIL-M12GM12G-CD-1.5A	1964710150
SAIL-M12GM12G-CD-1.5B	1060130150
SAIL-M12GM12W-CD-1.5A	1061990150
SAIL-M12GM12W-CD-1.5B	1062190150
SAIL-M12WM12W-CD-1.5A	1062150150
SAIL-M12WM12W-CD-1.5B	1062210150
Other versions on request	

Standard cable lengths

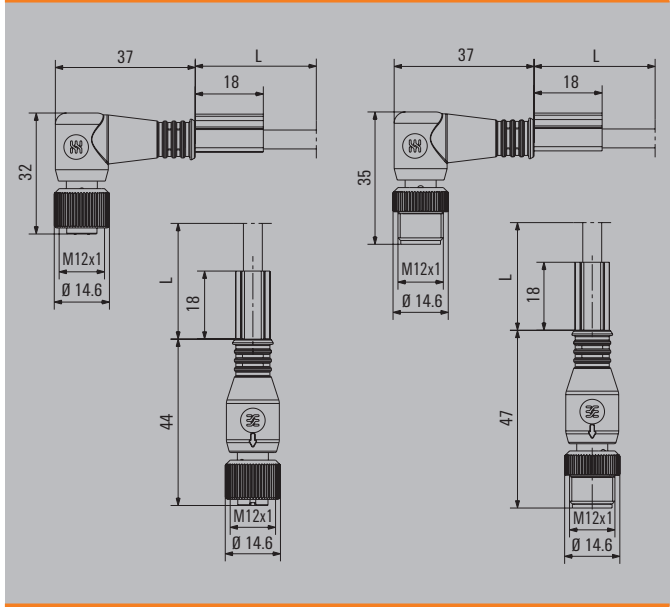
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	violet
Protection degree	IP67
Wire cross section	2 x 0.34 mm ² + 2 x 0.22 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Coding	A-coded

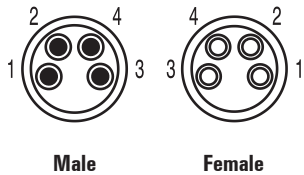
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



CANopen & DeviceNet™ - cables

The four-pole Standard M8 sensor cables are especially well suited for the Universal Pro system. With their diameter of 0.34 mm², these cables allow a system to be expanded up to 50 meters. The 360° shielding guarantees that signal transmission is error-free.



Technical data

Cable construction	
No. of poles	4
Sheathing colour	grey
Material	PUR/PUR
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Nominal voltage	30 V
Rated current	4 A
Protection class	IP 67
Ambient temperature, min.	-30 °C
Ambient temperature, max.	90 °C
Note	

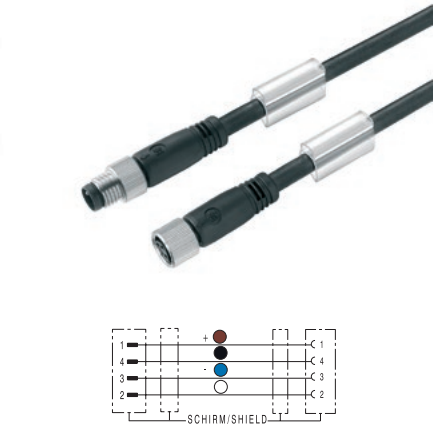
Ordering data

Male, straight - female, straight	
	0.3 m
	1.0 m
	1.5 m
	3.0 m
	5.0 m
	10.0 m
	15.0 m
	20.0 m
Female, straight - open end	
	1.5 m
	3.0 m
	5.0 m
	10.0 m
Note	

Ordering data – Terminating resistor

Note	

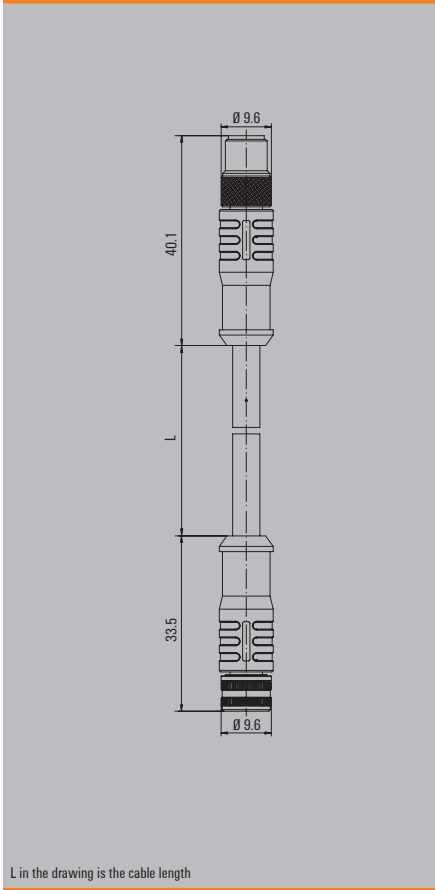
Universal Pro cables



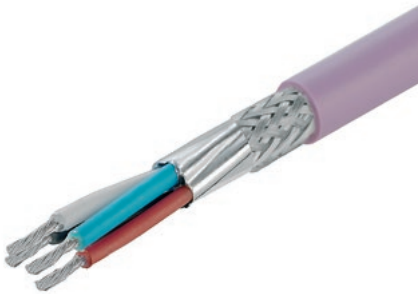
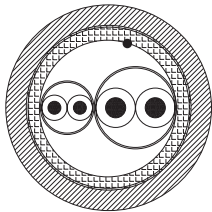
Terminating resistor



Dimensioned drawing



CAN / DeviceNet™ bulk lengths



Technical data

Component A (1x2x0.34) ST

Conductor
Insulation
Assembly

Tin-plated copper 0.34 mm ² (19 wires) according to UL 1581 Tab 20.1
Polyolefine mixture according to UL Style 80 °C 30 V colour code: 2 conductor red/black
Diameter: 1.6 ±0.1 mm
Two twisted conductors + aluminium-polyester band (Ai exterior)

Element B (1x2x0.22) ST

Conductor
Insulation
Assembly
Complete assembly
Drain wire
Shield
Band
Outer cladding
Marking

Tin-plated copper 0.22 mm ² (19 wires) according to UL 1581 Tab 20.1
Polyethylene foam skin
Colour code: 2 conductors white/blue
Diameter: approx. 2.0 mm
Two twisted conductors + aluminium-polyester band (Ai exterior)
Element A + Element B drilled
Tin-plated copper 0.34 mm ² (19 wires) according to UL 1581 Tab 20.1
Tin-plated copper braiding, coverage 85 ± 5 %
Fibre band
Polyurethane mixture according to UL Style 80 °C 30 V
Colour code: black RAL 9005
Not required

General characteristics

Nom. impedance 0.3-20 MHz
Nominal power rating 800 Hz
Operating voltage
Test voltage
Conductor resistance
Min. bending radius
Temperature range
Reference
Attenuation (max.) (pair 0.22 mm ²)
Max. speed
Max. acceleration
Copper weight
Total weight

(pair 2 x 0.22 mm ²) - 120 ±10 % Ω
(pair 2 x 0.22 mm ²) - 39 pF/mt
Low-voltage computer cable
1000 V
Conductor A: max. 55 Ω/km at 20 °C
Conductor B: max. 90 Ω/km at 20 °C
5 x D (during installation)
10 x D (during operations)
-40 °C...+80 °C (during installation)
-10 °C ... +80 °C (during operations)
UL 1581
0.5 MHz ... 1.64 bd/100 mt
1.0 MHz ... 2.30 db/100 mt
180 mt/min
5 mt/s ²
33.6 kg/km (approx.)
79 kg/km (approx.)

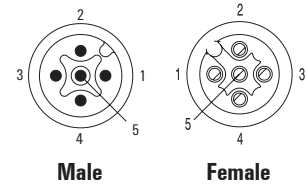
Note

Ordering data

4-pole
Note

Type	Order No.
SAIH-CD-2x0.34/2x0.22-PURs	1058630000

M12 screw connection
with shield connection
A-coded



Ordering data

Male	5-pole. PG 9
Female	5-pole. PG 9
Note	

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

SAIS M / SAIB M

Straight



Type	Qty.	Order No.
SAISGS-M-5A-6/8-M12	1	1784740000
SAIBGS-M-5A-6/8-M12	1	1784750000
Other versions on request		

Screw connection
CuZn
M12
6...8 mm
0.14...0.75 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated

SAISW M / SAIBW M

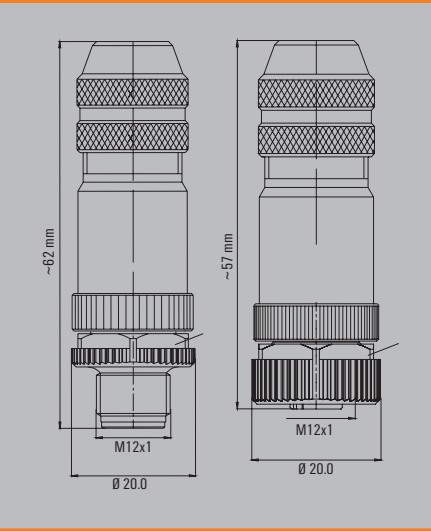
Angled



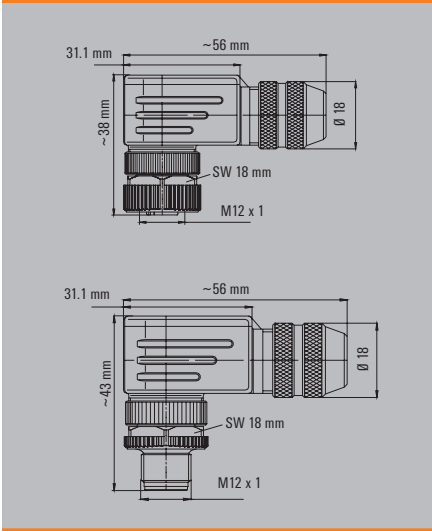
Type	Qty.	Order No.
SAISWS-M-5A-6/8-M12	1	1803940000
SAIBWS-M-5A-6/8-M12	1	1803920000
Other versions on request		

Screw connection
CuZn
M12
6...8 mm
0.14...0.75 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated

Dimensioned drawing



Dimensioned drawing



CAN-BUS D-Sub
M12 cable connection
90° exit angle

CAN D-Sub M12 TERM

With bus termination switch



CAN D-Sub M12 TERM PS

With bus termination switch and programming interface



Ordering data

Note

Type	Qty.	Order No.
CAN SUB-D M12 TERM	1	1555270000
Other versions on request		

Type	Qty.	Order No.
CAN SUB-D M12 TERM PS	1	1555280000
Other versions on request		

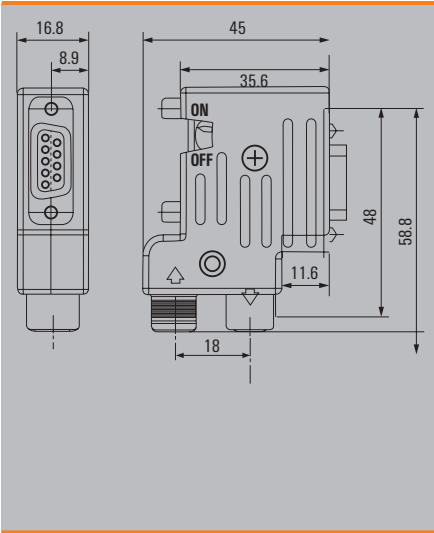
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

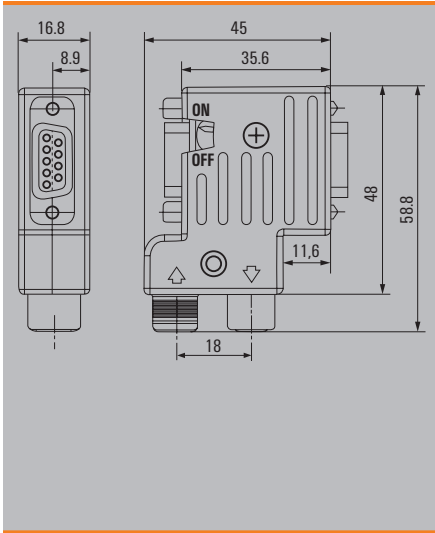
90°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
M12 A-coded, pin + socket
D-Sub 9-pole, Socket
IP30
≥ 200
-20...+70 ° C
UNC4-40

90°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
M12 A-coded, pin + socket
D-Sub 9-pole, Socket
IP30
≥ 200
-20...+70 ° C
UNC4-40

Dimensioned drawing



Dimensioned drawing



CAN-BUS D-Sub - connectors

CAN-BUS D-Sub
Screw connection
35° exit angle

CAN D-Sub SK35 TERM

With bus termination switch



CAN D-Sub SK35 TERM PS

With bus termination switch and programming interface



Ordering data

Note

Type	Qty.	Order No.
CAN SUB-D SK35 TERM	1	1550600000
Other versions on request		

Type	Qty.	Order No.
CAN SUB-D SK35 TERM PS	1	1550610000
Other versions on request		

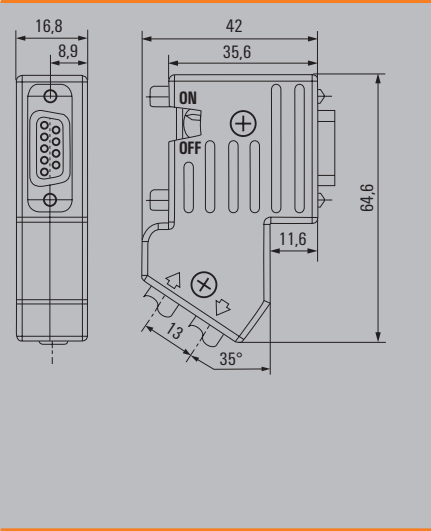
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

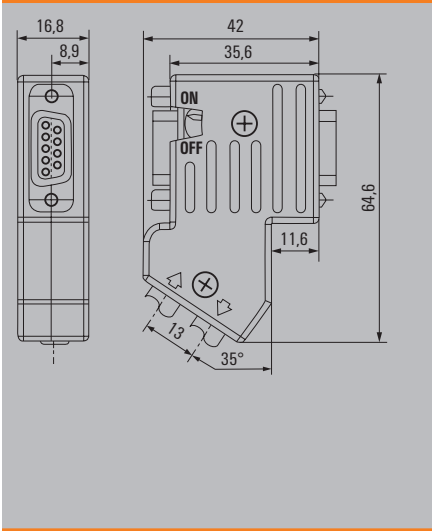
35°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
Screw connection
D-Sub 9-pole, Socket
IP30
≥ 200
-20...+70 ° C
UNC4-40

35°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
Screw connection
D-Sub 9-pole, Socket
IP30
≥ 200
-20...+70 ° C
UNC4-40

Dimensioned drawing



Dimensioned drawing



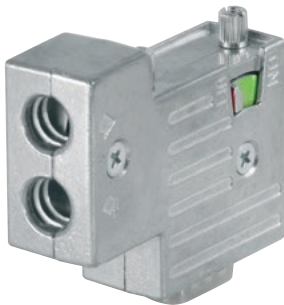
CAN-BUS D-Sub
Screw connection
90° exit angle

CAN D-Sub SK



CAN D-Sub SK TERM

With bus termination switch



Ordering data

Note

Type	Qty.	Order No.
CAN SUB-D SK	1	1555300000
Other versions on request		

Type	Qty.	Order No.
CAN SUB-D SK TERM	1	1550580000
Other versions on request		

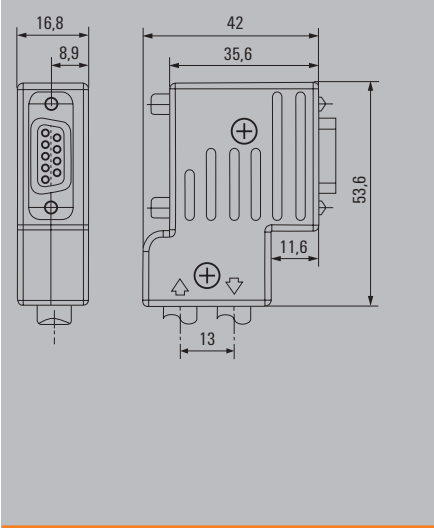
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

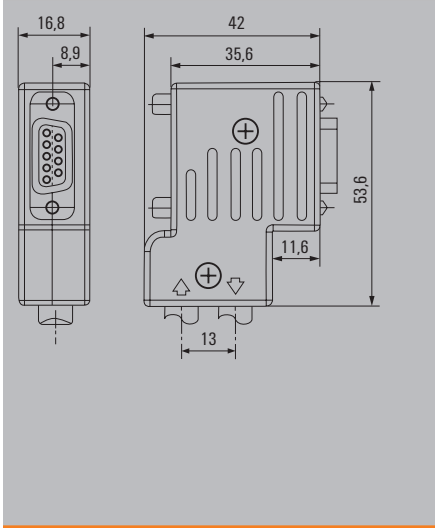
90°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
Screw connection
D-Sub 9-pole, Socket
IP30
≥ 200
-20...+70 ° C
UNC4-40

90°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
Screw connection
D-Sub 9-pole, Socket
IP30
≥ 200
-20...+70 ° C
UNC4-40

Dimensioned drawing



Dimensioned drawing



CAN-BUS D-Sub - connectors

CAN-BUS D-Sub
M12 cable connection
180° exit angle

CAN D-Sub M12 180 TERM

With bus termination switch



Ordering data

Note

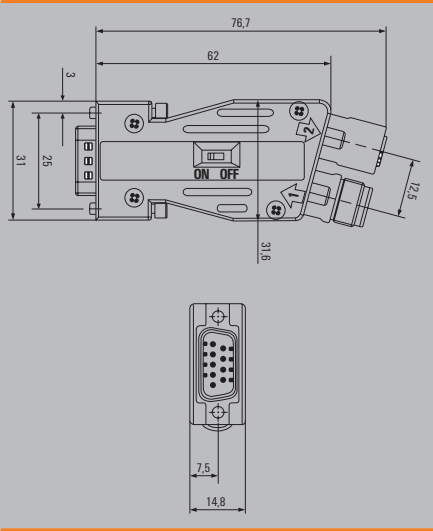
Type	Qty.	Order No.
CAN SUB-D M12 180 TERM	1	1555290000
Other versions on request		

Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

180°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
M12 A-coded, pin + socket
D-Sub 9-pole, Socket
IP30
≥ 200
-20...+70 ° C
UNC4-40

Dimensioned drawing



CAN-BUS D-Sub
Screw connection
90° exit angle

CAN D-Sub SK TERM PS

With bus termination switch and programming interface



Ordering data

Note

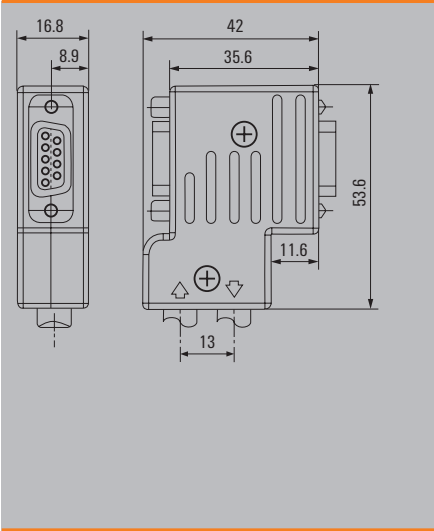
Type	Qty.	Order No.
CAN SUB-D SK TERM PS	1	1550590000
Other versions on request		

Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

90°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
Screw connection
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

Dimensioned drawing



CAN-BUS D-Sub - connectors

Universal D-Sub plug, 9-pole
M12 screw connection
35° exit angle
1:1 wired

SAI-D-Sub 9 SK35



Ordering data

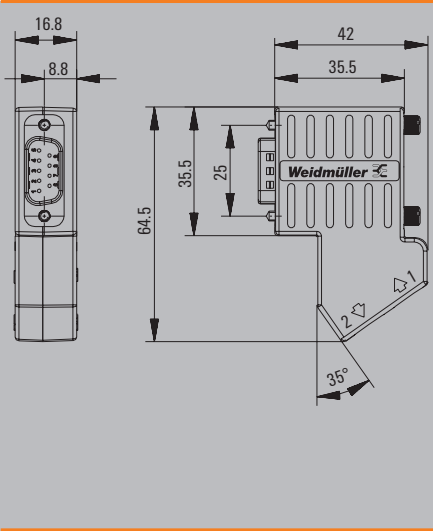
Note

Technical data

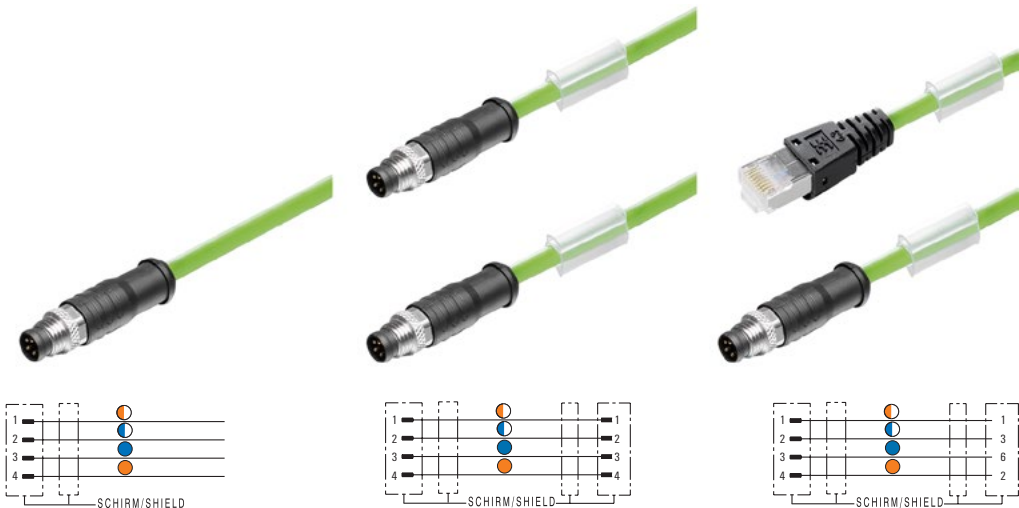
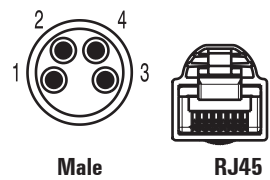
Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

Type	Qty.	Order No.
SAI-SUB-D 9 SK35	1	1551080000
Other versions on request		
35°		
Max. 75% at +25°C, non-condensing		
ZnAl		
Screw connection		
D-Sub 9-pole, Pin		
IP30		
≥ 200		
-20...+70 ° C		
UNC4-40		

Dimensioned drawing



One end without connector
Connecting cable
M8 and RJ45



Ordering data		M8 Male-Open Ended	4-pole	M8 Male-Male	4-pole	M8 Male-RJ45	4-pole
	0.1 m			SAIL-M8GM8SG-4S0.1UIE	1160930010		
	0.3 m	SAIL-M8G-4S0.3UIE	1160820030	SAIL-M8GM8SG-4S0.3UIE	1160930030		
	0.5 m	SAIL-M8G-4S0.5UIE	1160820050	SAIL-M8GM8SG-4S0.5UIE	1160930050	SAIL-M8GRJ45-4S0.5UIE	1201210050
	1.0 m	SAIL-M8G-4S1.0UIE	1160820100	SAIL-M8GM8SG-4S1.0UIE	1160930100		
	2.0 m	SAIL-M8G-4S2.0UIE	1160820200	SAIL-M8GM8SG-4S2.0UIE	1160930200	SAIL-M8GRJ45-4S2.0UIE	1201210200
	3.0 m	SAIL-M8G-4S3.0UIE	1160820300	SAIL-M8GM8SG-4S3.0UIE	1160930300		
	4.0 m	SAIL-M8G-4S4.0UIE	1160820400	SAIL-M8GM8SG-4S4.0UIE	1160930400		
	5.0 m	SAIL-M8G-4S5.0UIE	1160820500	SAIL-M8GM8SG-4S5.0UIE	1160930500	SAIL-M8GRJ45-4S5.0UIE	1201210500
	7.5 m	SAIL-M8G-4S7.5UIE	1160820750	SAIL-M8GM8SG-4S7.5UIE	1160930750	SAIL-M8GRJ45-4S7.5UIE	1201210750
	10.0 m	SAIL-M8G-4S10UIE	1160821000	SAIL-M8GM8SG-4S10UIE	1160931000	SAIL-M8GRJ45-4S10UIE	1201211000
	15.0 m	SAIL-M8G-4S15UIE	1160821500	SAIL-M8GM8SG-4S15UIE	1160931500	SAIL-M8GRJ45-4S15UIE	1201211500
	20.0 m	SAIL-M8G-4S20UIE	1160822000	SAIL-M8GM8SG-4S20UIE	1160932000	SAIL-M8GRJ45-4S20UIE	1201212000
	30.0 m			SAIL-M8GM8SG-4S30UIE	1160933000	SAIL-M8GRJ45-4S30UIE	1201213000
	40.0 m			SAIL-M8GM8SG-4S40UIE	1160934000	SAIL-M8GRJ45-4S40UIE	1201214000
	50.0 m			SAIL-M8GM8SG-4S50UIE	1160935000		
Note							

Standard cable lengths

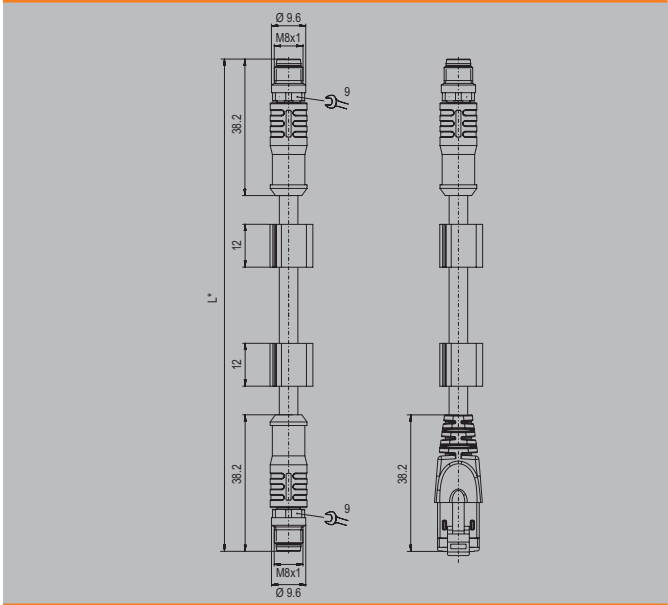
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Protection degree	IP67
Contact surface	Gold-plated
Sheathing colour	green
Temperature range of housing	-25...+80 °C
Core cross-section	0.15 mm²
Shielded	Yes
Number of poles	4
Sheath material	PUR
Coding	none

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Ethernet cables

Assembled cable -
dragline cable M12

- Cat. 5
- PUR
- D-coded
- PROFINET type C

M12 / M12

Plug / Plug



M12 / M12

Plug / Socket



Technical data

Product type
Category
Shielding
Version connector left / Version connector right
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation cross-section
Min. bending radius, repetitive
Min. bending radius, once only
Bending cycles
Speed
Acceleration
Pulling force
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to spread of flame
Resistance to oils

Note

Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 straight pin / M12 D-code - IP 67 straight pin
4*AWG 22/7 - 0.32 mm²
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 x cable diameter
5 x cable diameter
3 Mio
180 m/min
4 m/s²
≤ 150 N
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60332-1
in accordance with IEC 60811-2-1

Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 straight socket / M12 D-code - IP 67 straight pin
4*AWG 22/7 - 0.32 mm²
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 x cable diameter
5 x cable diameter
3 Mio
180 m/min
4 m/s²
≤ 150 N
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60332-1
in accordance with IEC 60811-2-1

Ordering data

0.5 m
1.5 m
3.0 m
5.0 m
10.0 m

Note

Type	Qty.	Order No.
IE-C5DD4UG0005MCSMCS-E	1	1025950005
IE-C5DD4UG0015MCSMCS-E	1	1025950015
IE-C5DD4UG0030MCSMCS-E	1	1025950030
IE-C5DD4UG0050MCSMCS-E	1	1025950050
IE-C5DD4UG0100MCSMCS-E	1	1025950100

Type	Qty.	Order No.
IE-C5DD4UG0015MSSMCS-E	1	1059330015
IE-C5DD4UG0030MSSMCS-E	1	1059330030
IE-C5DD4UG0050MSSMCS-E	1	1059330050
IE-C5DD4UG0100MSSMCS-E	1	1059330100

Accessories

Marking tags	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm
Tools	Tool set
	Tool set with torque function
	Mounting tool
	Screwty-M12

Type	Qty.	Order No.
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
SCREWTY SET	1	1910000000
SCREWTY SET -DM	1	1920000000
SCREWTY-M12-DM	1	1900001000
SCREWTY- M12	1	1900000000

Type	Qty.	Order No.
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
SCREWTY SET	1	1910000000
SCREWTY SET -DM	1	1920000000
SCREWTY-M12-DM	1	1900001000
SCREWTY- M12	1	1900000000

Note

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Assembled cable - dragline cable M12

- Cat. 5
- PUR
- D-coded
- PROFINET type C

M12 / open

Plug / -



M12 / RJ45

Plug / Plug



Technical data

Product type
Category
Shielding
Version connector left / Version connector right
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation cross-section
Min. bending radius, repetitive
Min. bending radius, once only
Bending cycles
Speed
Acceleration
Pulling force
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to spread of flame
Resistance to oils

Note

Ordering data

1.0 m
1.5 m
3.0 m
5.0 m
10.0 m

Note

Accessories

Tools
Sheathing strippers, For UTP and STP data cables
Sheathing strippers, For coaxial and round data cables
Tool set
Tool set with torque function
Mounting tool
Screwty-M12
Marking tags
Insertion label, yellow, 12 mm
Insertion label, yellow, 18 mm
Dust protection cap
Protective cap

Note

	M12
yellow	1
white	2
orange	3
blue	4

	M12
RJ45	1
yellow	1
white	2
orange	3
blue	4

Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 straight pin / Open
4*AWG 22/7 - 0.32 mm ²
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 x cable diameter
5 x cable diameter
3 Mio
180 m/min
4 m/s ²
≤ 150 N
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60332-1
in accordance with IEC 60811-2-1

Type	Qty.	Order No.
IE-C5DD4UG0015MCSXXX-X	1	1025940015
IE-C5DD4UG0030MCSXXX-X	1	1025940030
IE-C5DD4UG0050MCSXXX-X	1	1025940050
IE-C5DD4UG0100MCSXXX-X	1	1025940100

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
SCREWTY SET	1	1910000000
SCREWTY SET-DM	1	1920000000
SCREWTY-M12-DM	1	1900001000
SCREWTY-M12	1	1900000000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

Note

Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 straight pin / RJ45 IP 20
4*AWG 22/7 - 0.32 mm ²
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 x cable diameter
5 x cable diameter
3 Mio
180 m/min
4 m/s ²
≤ 150 N
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60332-1
in accordance with IEC 60811-2-1

Type	Qty.	Order No.
IE-C5DD4UG0010MCSA70-E	1	1044470010
IE-C5DD4UG0015MCSA70-E	1	1044470015
IE-C5DD4UG0030MCSA70-E	1	1044470030
IE-C5DD4UG0050MCSA70-E	1	1044470050
IE-C5DD4UG0100MCSA70-E	1	1044470100

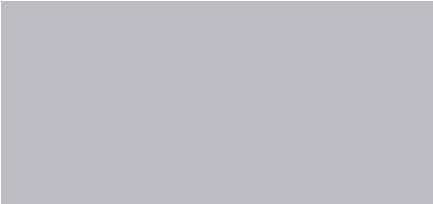
Type	Qty.	Order No.
SCREWTY SET	1	1910000000
SCREWTY SET-DM	1	1920000000
SCREWTY-M12-DM	1	1900001000
SCREWTY-M12	1	1900000000
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
IE-PP-RJ45	10	2552580000

Note

Ethernet cables

Assembled cable -
M12 dragline cable, angled

- Cat. 5
- PUR
- D-coded
- PROFINET type C



Technical data

Product type
Category
Shielding
Version connector left / Version connector right

Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation cross-section
Min. bending radius, repetitive
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to oils
Fire safety for railway vehicles

Note

Ordering data

Cat. 5 PROFINET. PUR. M12 straight-M12 angled	
	1.5 m
	3.0 m
	5.0 m
	10.0 m
Cat. 5 PROFINET. PUR. M12 angled-M12 angled	
	1.5 m
	3.0 m
	5.0 m
	10.0 m
Cat. 5. PUR. M12 angled-open	
	1.5 m
	3.0 m
	5.0 m
	10.0 m

Note

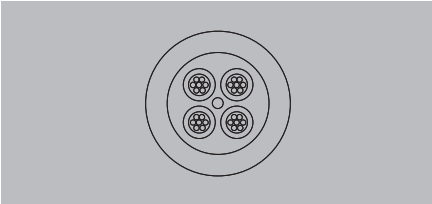
Accessories

Marking tags	
	Insertion label, yellow. 12 mm
	Insertion label, yellow. 18 mm
	Transparent sleeves. 12-mm length
	Transparent sleeves. 18-mm length

Note

M12 / M12

Plug / Plug



Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 straight pin / M12 D-code - IP 67 angled pin

4*AWG 22/7 - 0.32 mm²
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 x cable diameter
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60811-2-1

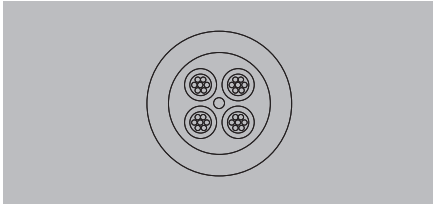
Type	Qty.	Order No.
IE-C5DD4UG0015MCSMCA-E	1	1059770015
IE-C5DD4UG0030MCSMCA-E	1	1059770030
IE-C5DD4UG0050MCSMCA-E	1	1059770050
IE-C5DD4UG0100MCSMCA-E	1	1059770100

Type	Qty.	Order No.
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Note

M12 / M12

Plug / Plug



Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 angled pin / M12 D-code - IP 67 angled pin

4*AWG 22/7 - 0.32 mm²
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 x cable diameter
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60811-2-1

Type	Qty.	Order No.

IE-C5DD4UG0015MCAMCA-E	1	1059890015
IE-C5DD4UG0030MCAMCA-E	1	1059890030
IE-C5DD4UG0050MCAMCA-E	1	1059890050
IE-C5DD4UG0100MCAMCA-E	1	1059890100

Type	Qty.	Order No.
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Note

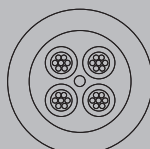
Assembled cable -

M12 dragline cable, angled

- Cat. 5
- PUR
- D-coded
- PROFINET type C

M12 / open

Plug / -



Technical data

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 D-code - IP 67 angled pin / Open
Cross-section	4*AWG 22/7 - 0.32 mm²
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation cross-section	1.5 mm
Min. bending radius, repetitive	7.5 x cable diameter
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with IEC 60811-2-1
Fire safety for railway vehicles	

Note

Ordering data

Cat. 5 PROFINET. PUR. M12 straight-M12 angled	
1.5 m	
3.0 m	
5.0 m	
10.0 m	
Cat. 5 PROFINET. PUR. M12 angled-M12 angled	
1.5 m	
3.0 m	
5.0 m	
10.0 m	
Cat. 5. PUR. M12 angled-open	
1.5 m	IE-C5DD4UG0015MCAXXX-X
3.0 m	IE-C5DD4UG0030MCAXXX-X
5.0 m	IE-C5DD4UG0050MCAXXX-X
10.0 m	IE-C5DD4UG0100MCAXXX-X
Note	

Note

Accessories

Marking tags		Type	Qty.	Order No.
	Insertion label, yellow, 12 mm	TM-I 12 MC NE GE	320	1718411687
	Insertion label, yellow, 18 mm	TM-I 18 MC NE GE	320	1718431687
	Transparent sleeves, 12-mm length	TM 4/12 HF/HB	500	1719840000
	Transparent sleeves, 18-mm length	TM 4/18 HF/HB	500	1719850000

Note

Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

M12 / M12

Plug / Plug



M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

Technical data

Product type	
Category	
Shielding	
Version connector left / Version connector right	

- Cross-section
- Sheath diameter, max.
- Material sheath
- Sheathing colour
- Insulation cross-section
- Min. bending radius, repetitive
- Ambient temperature (operational)
- Installation temperature
- Storage temperature
- Abrasion resistance
- Halogen
- Resistance to oils
- Fire safety for railway vehicles

Note

Ordering data

	1.5 m
	3.0 m
	5.0 m
	10.0 m

Note

Accessories

Tools	Sheathing strippers, For UTP and STP data cables Sheathing strippers, For coaxial and round data cables
Marking tags	Insertion label, yellow, 12 mm Insertion label, yellow, 18 mm

Note

M12 / M12

Plug / Socket



M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

System cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 straight socket / M12 D-code - IP 67 straight pin

2*2*AWG 22/7 - 2*2*0.36 mm²
7.55 mm
Radox GKW S
black
1.95 mm
6 "diameter
-40 °C...90 °C
-25 °C...90 °C
-40 °C...90 °C
very good
halogen-free, according to IEC 60754-2
in accordance with EN 50306-3
According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Type	Qty.	Order No.
IE-C5DB4RE0015MSSMCS-E	1	1059340015
IE-C5DB4RE0030MSSMCS-E	1	1059340030
IE-C5DB4RE00050MSSMCS-E	1	1059340050
IE-C5DB4RE0100MSSMCS-E	1	1059340100

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

M12 / open

Plug / -



	M12
yellow	1
white	2
orange	3
blue	4

Technical data

Product type
Category
Shielding
Version connector left / Version connector right

Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation cross-section
Min. bending radius, repetitive
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to oils
Fire safety for railway vehicles

System cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 straight pin / Open

2*2*AWG 22/7 - 2*2*0.36 mm²
7.55 mm
Radox GKW S
black
1.95 mm
6 *diameter
-40 °C...90 °C
-25 °C...90 °C
-40 °C...90 °C
very good
halogen-free, according to IEC 60754-2
in accordance with EN 50306-3
According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Note**Ordering data**

	1.5 m
	3.0 m
	5.0 m
	10.0 m

Note

Type	Qty.	Order No.
IE-C5DB4RE0015MCSXXX-X	1	1010840015
IE-C5DB4RE0030MCSXXX-X	1	1010840030
IE-C5DB4RE0050MCSXXX-X	1	1010840050
IE-C5DB4RE0100MCSXXX-X	1	1010840100

Accessories

Tools
Sheathing strippers, For UTP and STP data cables
Sheathing strippers, For coaxial and round data cables

Marking tags
Insertion label, yellow, 12 mm
Insertion label, yellow, 18 mm

Type	Qty.	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687

Note

Ethernet cables

Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

M12 / M12

Plug / Plug



M12 / M12

Plug / Plug



Technical data

Product type
Category
Shielding
Version connector left / Version connector right

Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation cross-section
Min. bending radius, repetitive
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to oils
Fire safety for railway vehicles

Note

Ordering data

1.5 m
3.0 m
5.0 m
10.0 m

Note

Accessories

Marking tags
Insertion label, yellow, 12 mm
Insertion label, yellow, 18 mm
Transparent sleeves, 12-mm length
Transparent sleeves, 18-mm length

Note

M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

System cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 straight pin / M12 D-code - IP 67 angled pin

2*2*AWG 22/7 - 2*2*0.36 mm²
7.55 mm
Radox GKW S
black
1.95 mm
6 *diameter
-40 °C...90 °C
-25 °C...90 °C
-40 °C...90 °C
very good
halogen-free, according to IEC 60754-2
in accordance with EN 50306-3
According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Type	Qty.	Order No.
IE-C5DB4RE0015MCSMCA-E	1	1059940015
IE-C5DB4RE0030MCSMCA-E	1	1059940030
IE-C5DB4RE0050MCSMCA-E	1	1059940050
IE-C5DB4RE0100MCSMCA-E	1	1059940100

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Note

M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

System cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 angled pin / M12 D-code - IP 67 angled pin

2*2*AWG 22/7 - 2*2*0.36 mm²
7.55 mm
Radox GKW S
black
1.95 mm
6 *diameter
-40 °C...90 °C
-25 °C...90 °C
-40 °C...90 °C
very good
halogen-free, according to IEC 60754-2
in accordance with EN 50306-3
According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Type	Qty.	Order No.
IE-C5DB4RE0015MCAMCA-E	1	1059970015
IE-C5DB4RE0030MCAMCA-E	1	1059970030
IE-C5DB4RE0050MCAMCA-E	1	1059970050
IE-C5DB4RE0100MCAMCA-E	1	1059970100

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

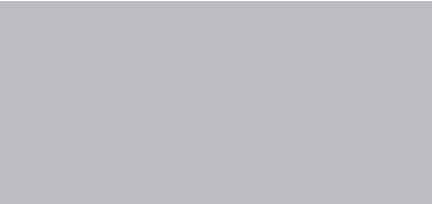
Note

Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

M12 / open

Plug / -



	M12
yellow	1
white	2
orange	3
blue	4

Technical data

Product type
Category
Shielding
Version connector left / Version connector right

Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation cross-section
Min. bending radius, repetitive
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to oils
Fire safety for railway vehicles

System cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 angled pin / Open

2*2*AWG 22/7 - 2*2*0.36 mm²
7.55 mm
Radox GKW S
black, SF/UTP
1.95 mm
6 *diameter
-40 °C...90 °C
-25 °C...90 °C
-40 °C...90 °C
very good
halogen-free, according to IEC 60754-2
in accordance with EN 50306-3
According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Note

Ordering data

1.5 m
3.0 m
5.0 m
10.0 m

Note

Type	Qty.	Order No.
IE-C5DB4RE0015MCAXXX-X	1	1059900015
IE-C5DB4RE0030MCAXXX-X	1	1059900030
IE-C5DB4RE0050MCAXXX-X	1	1059900050
IE-C5DB4RE0100MCAXXX-X	1	1059900100

Accessories

Marking tags
Insertion label, yellow, 12 mm
Insertion label, yellow, 18 mm
Transparent sleeves, 12-mm length
Transparent sleeves, 18-mm length

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Note

Ethernet plug-in connectors

M12 screw connection
with shield connection
D-coded

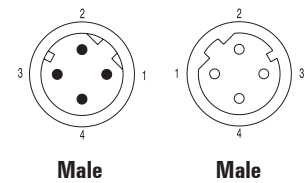


SAIS M / SAIB M

Straight

SAISW M

Angled



Ordering data

Male	4-pole. PG 9
Female	4-pole. PG 9
Note	

Type	Qty.	Order No.
SAISGS-M-4D-6/8-M12	1	1892120000
SAIBGS-M-4D-6/8-M12	1	1892130000

Type	Qty.	Order No.
SAISWS-M-4D-6/8-M12	1	1160550000

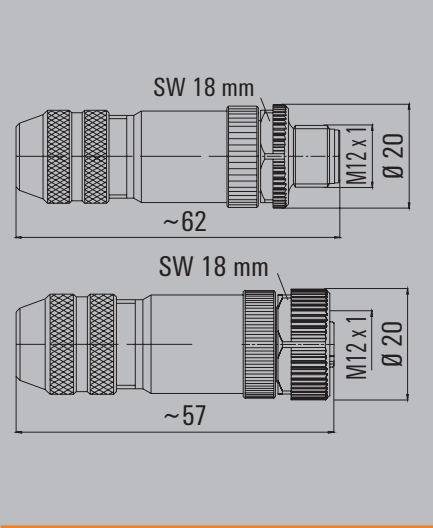
Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

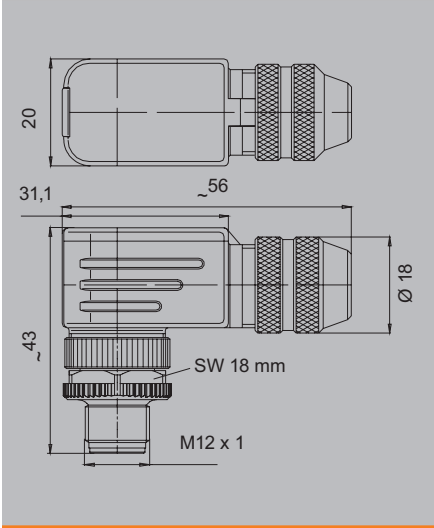
Screw connection
CuZn
M12
6...8 mm
0.14...0.75 mm²
4 A
250 V
-40 ... +85 °C
IP67
Gold-plated

Screw connection
CuZn
M12
6...8 mm
0.14...0.75 mm²
4 A
250 V
-40 ... +85 °C
IP67
Gold-plated

Dimensioned drawing



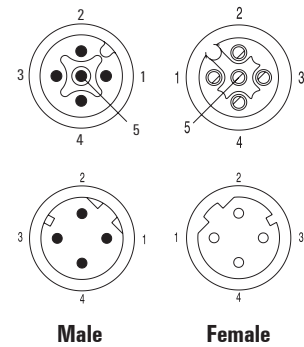
Dimensioned drawing



M12 tension-clamp connection,
stainless steel with shield connection
D-coded



SAIS VA



Ordering data

Male
D-coded, 4-pole, PG 9
Note

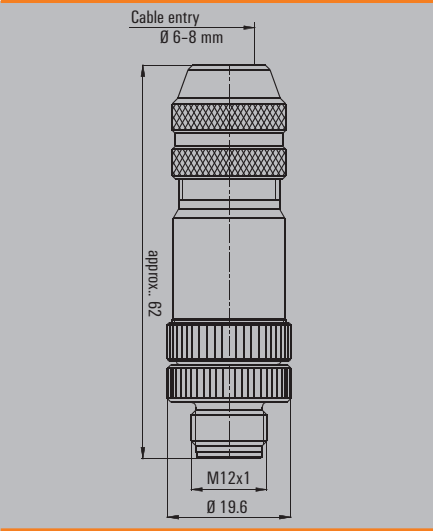
Type	Qty.	Order No.
SAISGZ-V-4D-6/8-M12	1	1920700001

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

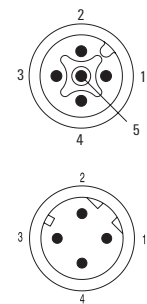
Tension-clamp connection
1.4404/316L
M12
6...8 mm (PG9)
4 A
250 V
-40 ... +85 °C
IP69K
Gold-plated

Dimensioned drawing



Customisable plug-in connectors

M12 crimp connection with shield connection
D-coded



Male

Ordering data

Male	
	4-pole, straight
	4-pole, angled
Note	

Technical data

Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

SAIS C / SAISW C

Type	Qty.	Order No.
SAISGC-M-4D-5/8-M12-CF	1	1467840000
SAISWC-M-4D-5/8-M12-CF	1	1467850000

Crimp contacts must be ordered separately.

Crimp connection
CuZn
M12
5...8 mm
0.34...0.5 mm²
4 A
250 V
-40 ... +85 ° C
IP67
Gold-plated

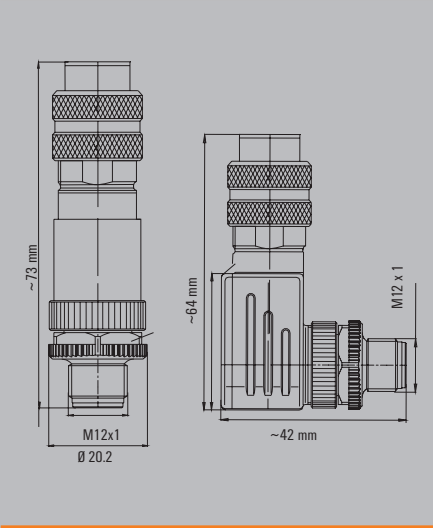
SAI-M12

Crimpkontakt

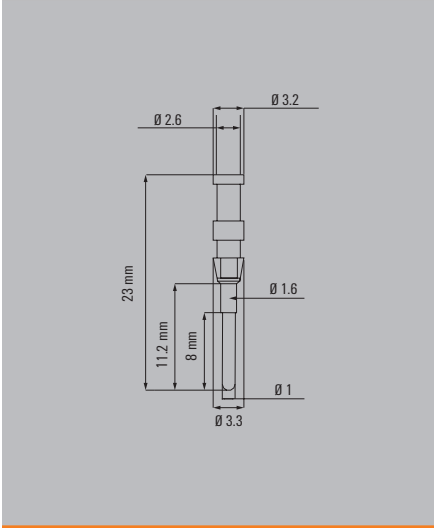
Type	Qty.	Order No.
SAI-M12-KSC-0.34/0.5	100	1468860000

Crimp connection
4 A
250 V
Gold-plated

Dimensioned drawing



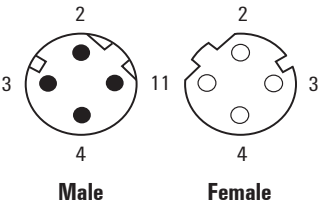
Dimensioned drawing



M12 crimp connection
D-coded



SAISC



Ordering data

Ethernet cables	
male	SAISGC-M-4D-6.4/6.8-M12-CF
female	SAIBGC-M-4D-6.4/6.8-M12-CF
male	SAISGC-M-4D-7.1/7.5-M12-CF
female	SAIBGC-M-4D-7.1/7.5-M12-CF
male	SAISGC-M-4D-8.1/8.5-M12-CF
female	SAIBGC-M-4D-8.1/8.5-M12-CF
PROFINET cables	
male	SAISGC-M-4D-6.3/6.7-M12-CF
female	SAIBGC-M-4D-6.3/6.7-M12-CF
Note	

Technical data

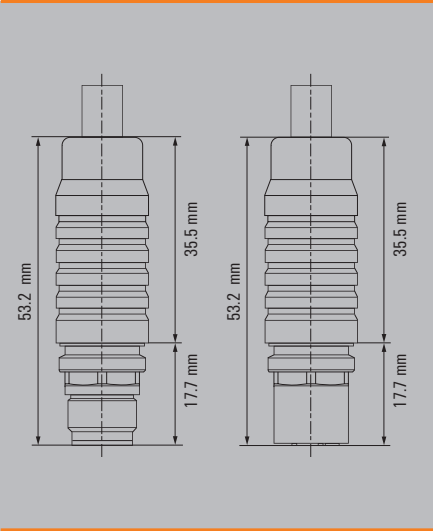
Cable glands
Coding
Protection degree
Number of poles
Rated voltage
Rated current
Category
Connection cross-section min. / max.
Temperature range of housing
Plugging cycles
Note

Type	Qty.	Order No.
SAISGC-M-4D-6.4/6.8-M12-CF	1	1380560000
SAIBGC-M-4D-6.4/6.8-M12-CF	1	1380570000
SAISGC-M-4D-7.1/7.5-M12-CF	1	1380540000
SAIBGC-M-4D-7.1/7.5-M12-CF	1	1380550000
SAISGC-M-4D-8.1/8.5-M12-CF	1	1380580000
SAIBGC-M-4D-8.1/8.5-M12-CF	1	1380590000
SAISGC-M-4D-6.3/6.7-M12-CF	1	1380610000
SAIBGC-M-4D-6.3/6.7-M12-CF	1	1380620000

D-coded
IP67
4
50 V
4 A
0.34...0.5 mm ²
-40 ... +85 °C
≥ 200
Crimping tool: SAI-TMCSK - 1381690000; Locator: SAI-TMC-PD - 1381700000

Female	Pin	Coding	Cable type	HUBER + SUHNER
Order No.	Order No.			Order No.
1380550000	1380540000	D-coded	Radox Railcat Databus CAT5 7.3 mm	12568935
1380570000	1380560000	D-coded	Radox Railcat CAT5 4 x AWG22 XC 6.6 mm	12584038
1380590000	1380580000	D-coded	Radox Railcat CAT5 4 x 0.5 mm ² XCS 8.3 mm	12585489
1380620000	1380610000	D-coded	PROFINET 2 x 2 x AWG22 6.5 mm	

Dimensioned drawing

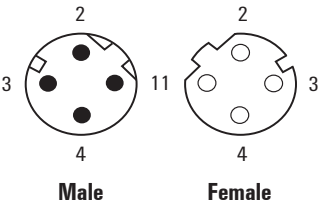


Customisable plug-in connectors

M12 crimp connection
Panel feed-through
D-coded



SAIBC



Ordering data

Ethernet cables	
	female
	female
	female
PROFINET cables	
	female
Note	

Technical data

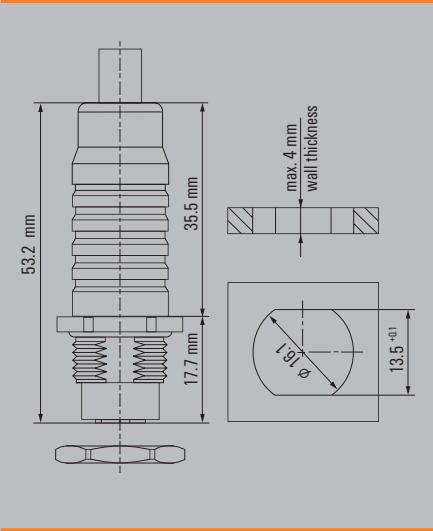
Cable glands
Coding
Protection degree
Number of poles
Rated voltage
Rated current
Category
Connection cross-section min. / max.
Temperature range of housing
Plugging cycles
Note

Type	Qty.	Order No.
SAIBC-WDF-D-RR-6.6-C5	1	1380640000
SAIBC-WDF-D-RR-7.3-C5	1	1380630000
SAIBC-WDF-D-RR-8.3-C5	1	1380650000
SAIBC-WDF-D-PN-6.5-C5	1	1380670000

M 16
D-coded
IP67
4
50 V
4 A
-40 ... +85 ° C
≥ 200
Crimping tool: SAI-TMCSK - 1381690000; Locator: SAI-TMC-PD - 1381700000

Female	Coding	Cable type	HUBER + SUHNER Order No.
1380630000	D-coded	Radox Railcat Databus CAT5 7.3 mm	12568935
1380640000	D-coded	Radox Railcat CAT5 4 x AWG22 XC 6.6 mm	12584038
1380650000	D-coded	Radox Railcat CAT5 4 x 0.5 mm² XCS 8.3 mm	12585489
1380670000	D-coded	PROFINET 2 x 2 x AWG22 6.5 mm ± 0.2 mm	

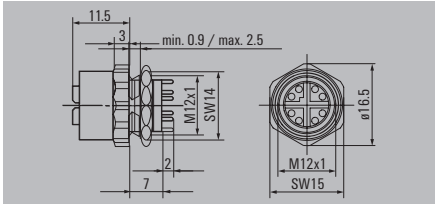
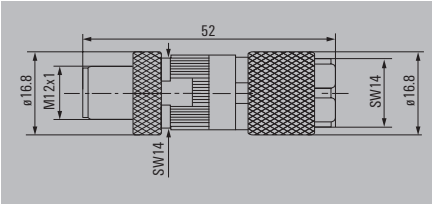
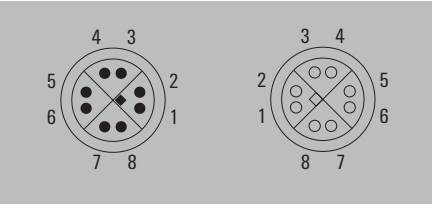
Dimensioned drawing



M12 connector / PCB socket
M12 X-type cat. 6A

Plug

PCB socket



Technical data

Category
Protection degree
Connection 1
Housing main material
Contact holder materials
Connection thread
Contact material / Contact surface
Ambient temperature (operational)
Connector standard
Current-carrying capacity at 50 °C
Rated voltage
Insulation strength
Plugging cycles
Configuration
Shielding
Connection diameter, flexible, min. / max.
Wire cross-section, finely stranded, min. (AWG)
Connection diameter, solid, min. / max.
Wire cross-section, solid, min. (AWG)
Insulation cross-section, max.
Sheath diameter, min. / Sheath diameter, max.

Note

Cat.6A / Class EA (ISO/IEC 11801 2010)
IP67 plugged
M12 / IDC
Zinc diecast
PA
M12
Brass / Gold-plated
Ambient temperature (operational)-40 / 85 °C
IEC 61076-2-109
48 V
100 MΩ
≥ 100
360° all-round enclosure
0.48 / 0.76 mm
AWG 26/7 / AWG 22/7
0.41 / 0.64 mm
AWG 26/1 / AWG 22/1
1.6 mm
5 / 9.7 mm

Cat.6A / Class EA (ISO/IEC 11801 2010)
IP67, when screwed in
M12 / Solder connection
CuZn
M12
Cu-alloy / Gold over nickel
Ambient temperature (operational)-40 / 85 °C
IEC 61076-2-109
48 V
100 MΩ
≥ 100
Reflow compatible
360° all-round enclosure

Ordering data

Plugs
2-part version
pre-assembled

Note

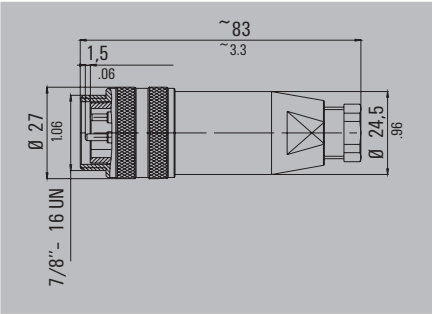
Type	Qty.	Order No.
IE-PS-M12X-P-FH	10	1324020000

Type	Qty.	Order No.
IE-PCB2-M12X-S-180	10	1393080000
IE-PCB-M12X-S-180	10	1324010000

FOUNDATION Fieldbus - connector (7/8")

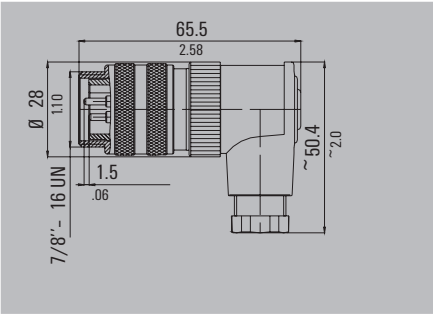
Plug-in connector FBCon 7/8"

Plug-in connector straight (plug)



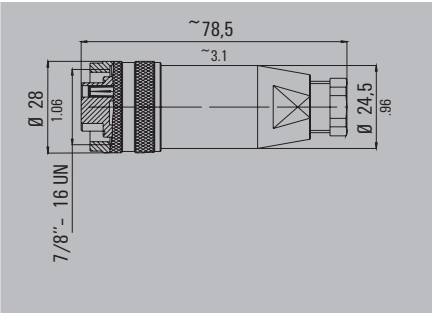
Ordering data		4-pole
Type	Qty.	Order No.
SAIS-4/9-7/8"	1	1808840000

Plug-in connector 90° (plug)



Ordering data		4-pole
Type	Qty.	Order No.
SAISW-4/9-7/8"	1	1808830000

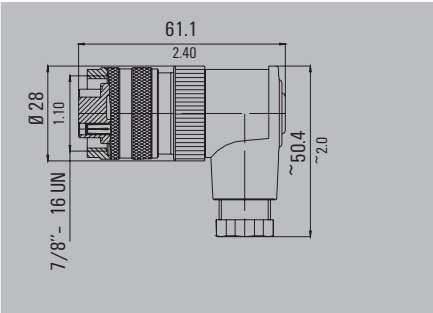
Plug-in connector straight (socket)



Ordering data		4-pole
Type	Qty.	Order No.
SAIB-4/9-7/8"	1	1812480000

Note: refer also to chapter 7/8"

Plug-in connector 90° (socket)



Ordering data		4-pole
Type	Qty.	Order No.
SAIBW-4/9-7/8"	1	1812470000

Technical data

No. of poles	4
Lock	Screw 7/8 " UNF
Cable gland	PG 9
Connection	Screw
Connection cross-section	max. 1,5 mm²
Connection cross-section	16 AWG
Enclosure protection class	IP 67
Mechanical service life	> 500 plugging cycles
Upper limit temperature	+ 85 °C
Lower limit temperature	- 40 °C

Electrical data

Rated voltage	250 V
Rated surge voltage	4000 V
Polution severity	3
Surge category	II
Insulation material group	III
Test surge voltage	4800 V
Rated current	9 A (40°)
Volume resistivity	≤ 5 mΩ
Insulation resistance	> 10 ¹¹ Ω

Materials

Contact pins	CuZn	(brass)
Contact surface	Au	(gold)
Socket body	PUR/PA	(UL 94 HB)
Enclosure cable plug	PBT	(UL 94 V-0)
Threaded ring	Anodised aluminium	

Accessories for fieldbus distributors

For technical data, consult Catalogue 5 – Cable boxes and feedthroughs

Cable glands – plastic – IP68

VG M16-1/K68



Ordering data

Type	Qty.	Order No.
VG M16-1/K68	50	1909860000
Long-thread version on request, halogen-free without sealing ring.		

Cable glands – brass – IP68

VG M16-1/MS68



Ordering data

Type	Qty.	Order No.
VG M16-1/MS68	50	1909910000
Long-thread version on request VDE for metric version		

Cable glands – brass – 1/EMV

VG M16 - MS 1/EMV



Ordering data

Type	Qty.	Order No.
VG M16 - MS 1/EMV	50	1909500000
Further versions on request		

Sealing rings – 9005

GWDR M16-NP



Ordering data

Type	Qty.	Order No.
GWDR M16-NP	50	1736230000
Further versions on request.		

Blanking plugs – brass

VP M16-MS65



Ordering data

Type	Qty.	Order No.
VP M16-MS65	100	1777730000
Other versions available on request. The blanking plugs must be tightened "hand-tight" with the screwdriver.		

Blanking plugs – plastic – EEx e

VP M16-EXE SW



Ordering data

Type	Qty.	Order No.
VP M16-EXE SW	100	1737070000
Installation specifications and tightening torques can be found in the installation instructions.		

Compensating elements – plastic – DAE



Ordering data

Type	Qty.	Order No.
DAE M12 PA SHORT UL	10	2729520000
Light grey version - RAL 7035 - on request.		

Tools and markers

Tools and markers	Introduction	M.2
	Screwty®	M.4
	Cutting tools	M.7
	Sheathing and insulation stripping tools	M.8
	Stripping and cutting tools	M.9
	Crimping tools	M.12
	Marking systems	M.16



SAI tools

The Screwty® is a state-of-the-art tool that features a unique, patented retention method. The adjustable torque ensures that the connectors have actually been sealed tightly. The Screwty® attachment for M23 is also very important because the sealing method for the M8 and M12 connectors are comparable to the M23.

The fact that the Screwty® attachment slips back is a major advantage of this system. This means that it does not have to be re-applied, as would be the case when using an open

ended wrench. There is also no risk that the screw can loosen when you turn the tool the wrong way since the Screwty® is only capable of exerting force in one direction.

It is also possible to put other tool attachments on the 1/4"-drive. This allows the use of torque spanner wrenches or torque screwdrivers. This is also available without torque for those who cannot fit a torque tool into their budgets.

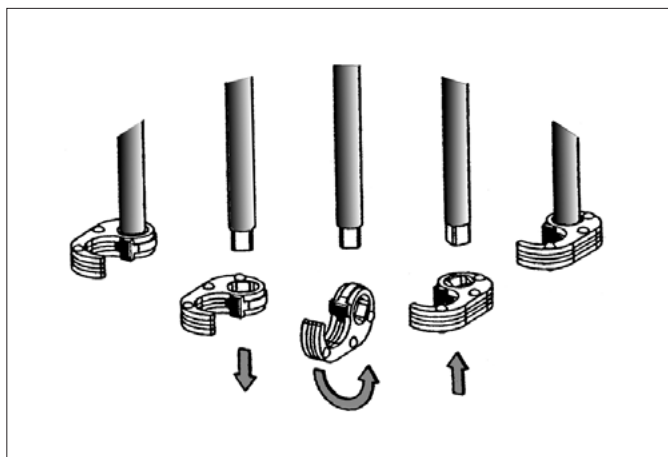


The Screwty® can also be used to screw on M23 connectors.



The tool does not have to be re-applied. During the follow-up it simply slips back.

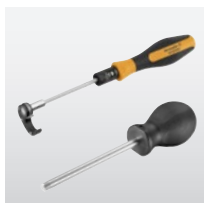
M



You can change the function from closed to open by simply turning it around.



The Screwty® can also be purchased as a set with other suitable attachments.



Screwty®

- With optional torque function
- Easier work
- For M8, M12 and M23



Cutting tools

- Cutting shape for various cable sizes
- Cutting without deformation of the conductor



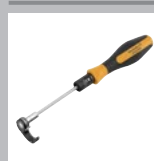
Sheathing and insulation stripping tools

- No need to adjust cutting depth
- No damage to inner conductors



Stripping and cutting tool

- Special, self adjusting stripping blades do not damage the conductor



Screwty® Bolting tools



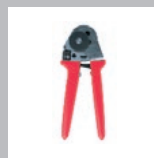
Cutting tools



Sheathing and insulation stripping tools



Stripping and cutting tools



SAI M23 crimping tool



Marking systems

Screwty® for M8/M12/M23

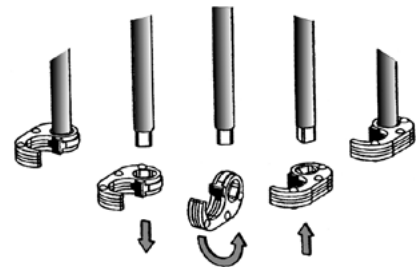


- The Torque Screwty®**
- Easier work
 - Screw on circular plug, safety sealed

The perfect tool for all situations

Screwty® is the ideal, universal tool for tightening and releasing cable glands on all common sensor and actuator cables. The Screwty® can also reach those round plugs normally considered inaccessible! No great force is required, simply turn the tool to tighten or release the plug in connector as required. The Screwty® also fits the majority (more than 90 %) of the cables and plug-in connectors of other suppliers and is therefore a unique tool that is useful worldwide. The Screwty® consists of a handle with a conventional 1/4" fitting. This means it can be used for all sizes: for M12 and M8 round plugs, and the M12F and M8F types, as well as for plugs and sockets on custom cables. The Screwty® is suitable for the following round plugs:

Size	M8	M8F	M12	M12F	M23
	10 ±0.3 mm	11.9 ±0.3 mm	14.5 ±0.3 mm	19.8 ±0.3 mm	26.2 ±0.3 mm
Thread	M8x1	M8x1	M12x1	M12x1	M23x1



Simply turn the ratchet to tighten or loosen the cable gland.

An adjustable torque fitting is also available for the Screwty®, for guaranteeing extra reliability during installation. The torque can be infinitely adjusted between 0.5 and 1.7 Nm. This accurate setting enables all round plugs to be tightened precisely with a pre-set torque.

Weidmüller specifies the following torques for its round plugs:

Size	M8	M8F	M12	M12F	M23
Torque	0.5-0.6 Nm	0.5-0.6 Nm	0.8-1.2 Nm	0.8-1.2 Nm	2-2.5 Nm
Thread	M8x1	M8x1	M12x1	M12x1	M23x1

The Screwty® can also be fitted with other blades to create a torque screwdriver. You can find these blades in our catalogue "Tools".

M



Use of an M12 Screwty®

1. Position Screwty®,
2. tighten connector,
3. finished!



Use of an M23 Screwty®

Screwty® standard



Ordering data

Type	Use	Qty.	Order No.
Screwty® M12	moulded M12 lines	1	1900000000
Screwty® M8	moulded M8 lines	1	1900010000
Screwty® M12 F	M12 plugs for custom assembly	1	1900020000
Screwty® M8 F	M8 plugs for custom assembly	1	1900030000

Screwty® attachments



Screwty® M8 attachment



Screwty® M8 F attachment



Screwty® M12 attachment



Screwty® M12 F attachment



Screwty® M23 attachment

Ordering data

Type	Qty.	Order No.
Screwty® M12 KO o. SD	1	1900100000
Screwty® M8 KO o. SD	1	1900110000
Screwty® M12F KO o. SD	1	1900120000
Screwty® M8F KO o. SD	1	1900130000
Screwty® M23	1	1981560000

Legend:

F	for custom assemblies
DM	torque
KO o. SD	ratchet only (attachment)
Screwty®	screwdriver
Screwty® DM	torque screwdriver, interchangeable blade
WK	interchangeable blade
LS	power plug

Screwty® with torque fitting

Setting aid for Screwty® with torque fitting (included)



Ordering data

Type	Use	Qty.	Order No.
Screwty®-M12-DM	moulded M12 lines with torque requirement	1	1900001000
Screwty®-M8-DM	moulded M8 lines with torque requirement	1	1900011000
Screwty®-M12 F-DM	M12 plugs, custom assembly with torque requirement	1	1900021000
Screwty®-M8 F-DM	M8 plugs, custom assembly with torque requirement	1	1900031000

Fitting

Type	Content
Screwty®-M12-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M12 attachment
Screwty®-M8-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M18 attachment
Screwty®-M12 F-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M12 F attachment
Screwty®-M8 F-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M18 F attachment

Screwty® Set



Ordering data

Type	Qty.	Order No.
Screwty® Set	1	1910000000
Fitting	Content	
Screwty® Set	1x Screwty® standard handle + 1 M12, M8, M12 F, M8 F attachments	

Screwty® interchangeable handle/interchangeable bit / Hexagonal



Ordering data

Type	Qty.	Order No.
1/4" handle	1	4294820000
WK-1/4" (Screwty®)	1	1862200000
SCREWTY SW9	1	1254630000
SCREWTY SW10	1	1254640000
SCREWTY SW12	1	2598970000
SCREWTY SW13	1	1254650000
SCREWTY SW15	1	1290830000
SCREWTY SW17	1	1254660000
SCREWTY SW18	1	1254670000
SCREWTY SW19	1	1254680000

Screwty® Set-DM



Ordering data

Type	Qty.	Order No.
Screwty® Set-DM	1	1920000000
Fitting	Content	
Screwty® Set-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 each of Screwty® M12, M8, M12 F, M8 F attachments	

SAI-Screwty® Box



- ## Accessories

Ordering data

Type	Order No.
SAI-SCREWTY BOX	1939180000

- ## Accessories

Ordering data

Type	Order No.
SAI-SCREWTY TOOL BOX	1939170000

Cutting tools

- The cutting blade design for different cable sizes increases the quality of the cuts for smaller cross-sections
- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!
- Cutting without deformation of the conductor
- Do not cut live conductors
- Individually tested protective insulation, 1000V, VDE and GS tested in accordance with EN/IEC 60900
- Optimised handle ergonomics
- Minimal hand force required



Technical data

Max. cutting performance, copper cable acc. to EN 60228
Copper cable - solid, max.
Copper cable - stranded, max.
Copper cable - flexible, max.
Max. cutting performance, aluminium cable acc. to EN 60228
Stranded aluminium cable, max (mm²)
Stranded aluminium cable, max. diameter
Tool data
Depth / Width / Height
Weight
Note

Ordering data

Version
Note

KT 8



- 8 mm
- 16 mm²
- 16 mm²
- 16 mm²

Suggested cross-section range /
Empfohlener Querschnittsbereich



KT8
50 mm² / 1 AWG
35 mm² / 2 AWG
25 mm² / 4 AWG
35 mm² / 2 AWG
9 mm
30 / 185 / 65.5 mm
180 g
Tool closed

Type	Qty.	Order No.
KT 8	1	9002650000

KT 12



- 12 mm
- 16 mm²
- 25 mm²
- 35 mm²

Suggested cross-section range /
Empfohlener Querschnittsbereich



KT12
95 mm² / 3/0 AWG
70 mm² / 2/0 AWG
50 mm² / 1 AWG
70 mm² / 2/0 AWG
11 mm
30 / 225 / 63.5 mm
300 g
Tool closed

Type	Qty.	Order No.
KT 12	1	9002660000

Sheathing and insulation stripping tools

Special sheathing and insulation stripping tools

- Quick and accurate stripping
- No need to adjust cutting depth
- No damage to inner conductors

Stripper 6-16



Stripper 6-16
The Stripper 6-16 insulation stripping tool is for removing the outer sheath of sensor cables. No damage to inner wires can occur because the blades have a specially ground surface. Adjusting the tool to different cross-sections is unnecessary. The visual scale of 15 to 20 mm enables quick and precise stripping of outer insulation.

AM 12

For UTP and STP data cables



- Cutting of UTP and STP data cables and other flexible copper cables with a diameter of up to 4 mm² (~AWG11)
- Stripping of the outer insulation of UTP and STP data cables and other round cables with Ø approx. 0.5 ... 12.5 mm
- No damage to the shielding or conductor due to adjustable stripping blade
- Length end stop for repeated cutting and stripping lengths

Technical data

Max. stripping performance
Cable type
Conductor diameter
Cut depth
Cutting performance
UTP und STP data cables, max. diameter
Copper cable - flexible, max.
Tool data
Width
Height
Weight
Note

Stripper 6-16
suitable for PVC and PUR cables
165 mm
120 g

AM 12
UTP and STP data cables
0.5...12.5 mm
adjustable
8 mm
4 mm²
97 mm
46 mm
36 g

Ordering data

Version
Note

Type	Qty.	Order No.
STRIPPER 6-16 RED-LINE	1	9203110000

Type	Qty.	Order No.
AM 12	1	9030060000

Accessories

Note

Type	Qty.	Order No.

Type	Qty.	Order No.
Sheathing stripper		

Stripping and cutting tools

- For flexible and solid conductors
- Double-insulated cables in two process steps without special adjustment
- Automatic opening of clamping jaws after stripping
- No play in self-adjusting cutting unit
- Long service life
- No splaying of individual conductors
- Optimised ergonomic design
- Stripping length adjustable via end stop
- Adjustable to diverse insulation thicknesses
- Removable handle shells
- Fold-out cutting protection
- Personalised marking with ESG device marker
- Selectable two-stage partial stripping

stripax®

0.08...10 mm²



- Stripping: PVC-insulated flexible and solid conductors from 0.08...10 mm² (~AWG 28...7)
- Cutting: PVC-insulated flexible conductors, ranging from 0.08...6 mm² (~AWG 28...10)
- Processing of multi-conductors. Several thin flat ribbon cables can even be processed in one operation
- No damage to the conductors thanks to special, self-adjusting stripping blades



stripax® 16

6...16 mm²



- Stripping: PVC-insulated flexible and solid conductors from 6...16 mm² (~AWG 10... 6)
- Cutting: PVC insulated flexible and solid conductors up to 6 mm² (AWG 10)
- No damage to the conductor thanks to specially shaped blade



Technical data

Max. stripping performance
Cable type
Wire cross-section, min. / max.
Stripping length, max.
Cutting performance
Conductor cross-section (cutting capacity)
Tool data
Width
Height
Weight
Note

Ordering data

Version
Note

Accessories

	Spare stripping blade
	Spare clamping jaw
Note	

STRIPAX
Flexible and solid conductors with PVC insulation
0.08...10 mm ²
25 mm
6 mm ²
190 mm
99 mm
225 g

Type	Qty.	Order No.
STRIPAX	1	9005000000
STRIPAX ZERT	1	9017330000

Type	Qty.	Order No.
ERME 10 ² SPX 4	1	1119030000
ERTE KLBC SPX 10	1	2571480000

STRIPAX 16
Flexible and solid conductors with PVC insulation
6...16 mm ²
25 mm
6 mm ²
190 mm
99 mm
175 g

Type	Qty.	Order No.
STRIPAX 16	1	9005610000
STRIPAX 16 ZERT	1	9918180000

Type	Qty.	Order No.
ERME 16 ² SPX 4	1	1119040000
ERTE KLBC SPX 16	1	2571490000

Stripping and cutting tools

multi-stripax®

Multifunctional stripping tool for use on a multitude of conductor insulation forms and configurations – even those not covered by the standard

multi-stripax® the troubleshooter

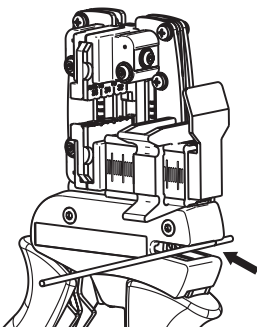
- Interchangeable stripping units
- Proper stripping of any conductor round, flat or special profiles, thanks to the specially shaped stripping blades
- Incorporates cutting function for up to 2.5 mm² solid and 6 mm² fine
- Fatigue free operation thanks to ergonomic design
- No damage to conductor or remaining insulation
- Best stripping results for industrial applications
- Stripping results reproduced accurately time and time again
- A long lasting, reliable tool thanks to its robust design
- Plus, the customary Weidmüller repair service

Special stripping units – the answer to diverse stripping tasks

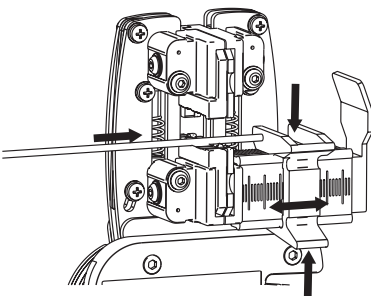
The multi-stripax® tool, distinguished by its robust design was developed, following customer feedback, to handle all the stripping tasks they have met with in practice. Thanks to the interchangeable stripping units, a special solution can be found for every challenge in the marketplace.

The specially shaped stripping blades guarantee perfect stripping results. The guide plates ensure the correct positioning of the wire and therefore prevent damage to the remaining wire. The clamping jaws hold the conductor with just the right force during the stripping operation and are matched to the specific situation at hand. The flexibility of the multi-stripax® to affect the result of the stripping operations depending on the different variables it encounters makes it a universal troubleshooter.

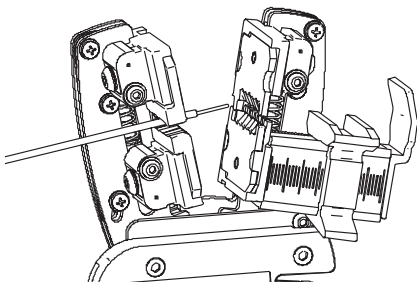
Cutting



Positioning



Stripping



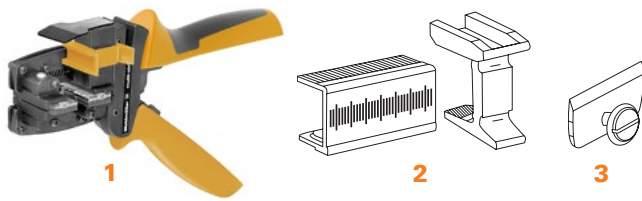
multi-stripax®



Technical data

Cable type	PVC, Teflon, PTE, PUR, silicone, halogen free
Conductor cross-section, min.	2 mm
Conductor cross-section, max.	no limit (in several steps)
max. cutting capacity, fine-strand	6 mm²
max. cutting capacity, solid	2,5 mm²
max. cutting capacity, ribbon	10,2 x 4 mm
Depth/Width/Height	250 / 85 / 40 mm
Weight	250 g
Note	

multi-stripax® incl. stripping unit



- High quality stripping for industrial applications
- Specially shaped stripping blades enable stripping of special types of insulation and conductor configurations
- Adjustable stop for setting stripping lengths from 2.3 to 30 mm
- Highly flexible thanks to interchangeable stripping units
- Stripping results reproduced accurately time and time again
- No damage to the conductor or insulation
- A long lasting, reliable tool thanks to its robust design
- Integral cutting function for max. 2.5 mm² solid or 6 mm² flexible cables

Ordering data

Illustration	Type	Qty.	Order No.	Features
1	multi-stripax® 6-16	1	9202210000	PVC-insulated cables; Cable cross-section 6 up to 16 mm²; max. stripping lengths depends on cable design / cable type 1. station solid, stranded and flexible 6 mm² 2. station solid, stranded and flexible 10 mm² 3. station solid, stranded and flexible 16 mm² double stranded (flexible) Cutting function up to 6 mm²
1	multi-stripax® ASI	1	9202250000	ASI Bus cables 2 x 1.5 mm² flexible for PTE, PUR and EPDM insulated cables Stripping of outer insulation and inner cable Cutting function up to 6 mm²
1	multi-stripax® GKW LW	1	9205760000	Railway cable Radox GKW LW; Cable cross-section 1.0; 1.5 and 2.5 mm² max. stripping lengths depends on cable design / cable type Cutting function up to 6 mm²
2	ERAN multi-stripax®	1	9203100000	Length stop
3	ERME multi-stripax®	1	9203070000	Cutting knife
Note				

Stripping units for multi-stripax®

Stripping unit consists of:

Clamping jaws

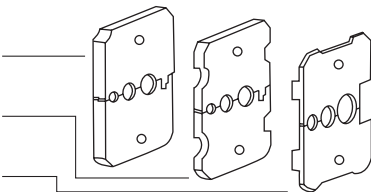
Short symbol KLBC SPX SP

Insulation stripping tool

Short symbol AIME SPX SP

Guide plate

Short symbol FUEPL SPX SP



- Highly flexible thanks to interchangeable stripping units
- High quality stripping for industrial applications
- Specially shaped stripping blades enable stripping of special types of insulation and conductor configurations

e = solid
m = stranded
f = finely stranded

Ordering data

Type	Qty.	Order No.	Features
AIE multi-stripax® 6-16	1	9202260000	PVC insulated cables; Cable cross section 6 up to 16 mm²; max. stripping lengths depends on cable design / cable type 1. station solid, stranded and flexible 6 mm² 2. station solid, stranded and flexible 10 mm² 3. station solid, stranded and flexible 16 mm² double stranded (flexible)
AIE multi-stripax® ASI	1	9202300000	ASI Bus cables 2 x 1.5 mm² flexible for PTE, PUR and EPDM insulated cables Stripping of outer insulation and inner cable
AIE multi-stripax® GKW LW	1	9205770000	Railway cable Radox GKW LW; Cable cross section 1.0; 1.5 and 2.5 mm² max. stripping lengths depends on cable design / cable type

Crimping tools

Crimping tool for M12 cable connector

SAI-TMCD C



Ordering data

Hand crimping tool
Note

Type	Qty.	Order No.
SAI-TMCD C	1	1381710000

Accessories

Crimping die for hand crimping tools
For crimp flange PROFINET (D-code), ø 6.5 mm
For crimp flange Ethernet (D-code), cable RAILCAT ø 6.6 mm
For crimp flange Ethernet (D-code), cable RAILCAT ø 7.3 mm
For crimp flange Ethernet (D-code), cable RAILCAT ø 8.3 mm
DUO crimping die for hand crimping tools
For M12 contact and crimping sleeve PROFINET (D-code), Cable PROFINET ø 6.5 mm
Note

Type	Qty.	Order No.
SAI-CEH075	1	1381760000
SAI-CEH080	1	1381730000
SAI-CEH090	1	1381740000
SAI-CEH095	1	1381750000
SAI-CEH-M12D-KCR075	1	1381770000

Crimping tool for turned contacts
(M12 cable connector)

M12 MIL hand crimping tools (TMCGK)

For crimping turned contacts AWG 12 - AWG 26



Positioner for M12 MIL hand crimping tools

PROFINET (D-code) with the TMCGK



Ordering data

Type	Qty.	Order No.
SAI-TMCGK	1	1381670000

Ordering data

Type	Qty.	Order No.
SAI-TMC - P4	1	1381680000

Mounting tool for M12 cable connector

Mounting tool for Industrial Ethernet cable shielded bushing



M12 MIL hand crimping tools (TMCSK)

For crimping turned contacts AWG 20 - AWG 32



Positioner for M12 MIL hand crimping tools

PROFINET (D-code) with the TMCSK



Ordering data

Type	Qty.	Order No.
SAI-MDC12AL1	1	2726210000

Ordering data

Type	Qty.	Order No.
SAI-TMCSK	1	1381690000

Ordering data

Type	Qty.	Order No.
SAI-TMC - PD	1	1381700000

Crimping tools

This tool is suitable for M23 signal connectors and power connectors.



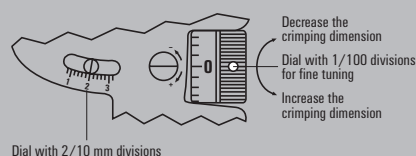
Adjusting the crimping dimensions

The adjustment mechanism is used to set the crimping depth of the crimping mandrel as described below.

The adjusting dial is used to prepare the infed; the dial can be turned clockwise (for decreasing the dimension) or counter-clockwise (for increasing the dimension).

Adjustment precision

- 1 division mark on the dial v 1/100 mm adjustment
- 1 complete revolution of the dial v 0.2 mm adjustment read from scale
- 5 revolutions of the dial v 1 mm adjustment read from scale



Verifying the crimping dimension

The four-mandrel crimping tool is pre-set at the factory. The actual crimping size should still be checked periodically. It should be checked using the plug gauge (Ø 2.0 mm) that is included with the crimping tool as described below. Use the dial on the stationary tool shank to set the size to 2.0 mm on the scale. Set to the zero-point tick mark on the dial and close the tool. (Refer to the diagram showing the crimping size adjustment.) At this setting, it should be possible to move the 2.00-mm-Ø plug gauge without any play or extra room. If this is not possible, then the size deviation (+/-) can be determined using the dial's fine-adjustment mechanism. If this size check reveals that the tool is not within the tolerance range specified by the manufacturer of the contacts, then you should contact the manufacture of the tool for further inspection.

Servicing and maintenance

Before you start to use the hand crimping tool, it must be clean and in proper working condition. Crimp residue or fragments must be removed from the crimping jaws and locator. The joints should be regularly lubricated using machine oil to protect them from dirt. Make sure that all bolts are secured with locking rings.

SAI M23 crimping tool 1

Technical data

Crimp contact	Wire cross-section (mm²)	Crimping mandrel adjustment	Locator position	Order No.
Crimp male, 1 mm	0.08	0.78	11	1170140000
	0.14	0.81		
	0.25	0.83		
	0.34	0.88		
	0.56	0.97		
Crimp male, 1 mm	0.75	0.75	11	1170170000
	1.00	1.00		
	1.50	1.50		
Crimp female, 1 mm	0.75	0.75	12	1170210000
	1.00	1.00		
	1.50	1.50		
Crimp male, signal 1 mm	0.14	0.75	11	1170150000
	0.25	0.82		
	0.34	0.90		
	0.50	1.00		
	0.75	1.08		
Crimp female, signal 1 mm (0.08-0.56 mm²)	1.00	1.20	12	1995860000
	0.14	0.75		
	0.25	0.80		
	0.35	0.87		
	0.50	0.97		
Crimp female, signal 1 mm (0.34-1.00 mm²)	0.50	0.95	12	1170180000
	0.75	4.00		
	1.00	1.05		
Crimp male, signal 1.5 mm	0.14	0.75	3	1170220000
	0.25	0.82		
	0.35	0.90		
	0.50	0.96		
	0.75	1.03		
Crimp female, signal 1.5 mm	1.00	1.00	4	1170230000
	0.14	0.75		
	0.25	0.80		
	0.35	0.87		
	0.50	0.97		
Crimp female, signal 1.5 mm (0.34-1.00 mm²)	0.50	0.95	4	1170240000
	0.75	1.00		
	1.00	1.05		
Crimp male, signal 2 mm	0.75	1.30	5	1170250000
	1.00	1.40		
	1.50	1.55		
	2.50	1.75		
Crimp female, signal 2 mm	0.75	1.30	6	1170260000
	1.00	1.40		
	1.50	1.55		
	2.50	1.75		
Crimp male, power 1 mm	0.14	0.75	1	1170390000
	0.25	0.80		
	0.35	0.85		
	0.50	1.03		
	0.75	1.08		
Crimp female, power 1 mm	1.00	1.13	2	1995830000
	0.14	0.75		
	0.25	0.80		
	0.35	0.85		
	0.50	0.89		
Crimp male, power 2 mm	0.75	0.95	7	1170400000
	1.00	1.02		
	0.75	1.20		
	1.00	1.40		
	1.50	1.55		
Crimp male, power 2 mm	2.50	1.70	7	1170410000
	2.50	1.47		
	4.00	1.60		
Crimp female, power 2 mm	0.75	1.20	8	1995820000
	1.00	1.40		
	1.50	1.55		
	2.50	1.70		
Crimp female, power 2 mm	2.50	1.47	8	1170420000
	4.00	1.60		

Ordering data

Type	Order No.
SAI M23 CRIMPING TOOL 1	1203840000

This tool is only suitable for M23 signal connectors.

Operation mode

The following table specifies the locator positions and the crimping dimensions for various crimping contacts. The contact is inserted through the tool into the locator; this ensures the proper crimping position. The inserted contact is secured by closing gently (approximately to first snap-close level). Now the cable can be easily inserted and it is not possible for the contact to fall out. The tool must be pressed together until it reaches the end stop position in order to function properly. It is then able to open automatically which brings the crimping process to a close in the intended manner.

SAI M23 crimping tool 2



Adjusting the crimping dimensions

The adjustment mechanism is used to set the crimping depth of the crimping mandrel as described below.

The adjusting dial is used to prepare the infeed; the dial can be turned clockwise (for decreasing the dimension) or counter-clockwise (for increasing the dimension).

Adjustment precision

- 1 division mark on the dial v 1/100 mm adjustment
- 1 complete revolution of the dial v 0.2 mm adjustment read from scale
- 5 revolutions of the dial v 1 mm adjustment read from scale

Dial with 2/10 mm divisions

Verifying the crimping dimension

The four-mandrel crimping tool is pre-set at the factory. The actual crimping size should still be checked periodically. It should be checked using the plug gauge (Ø 1.0 mm) that is included with the crimping tool as described below. Use the dial on the stationary tool shank to set the size to 1.0 mm on the scale. Set to the zero-point tick mark on the dial and close the tool. (Refer to the diagram showing the crimping size adjustment.) At this setting, it should be possible to move the 1.00-mm-Ø plug gauge without any play or extra room. If this is not possible, then the size deviation (+/-) can be determined using the dial's fine-adjustment mechanism. If this size check reveals that the tool is not within the tolerance range specified by the manufacturer of the contacts, then you should contact the manufacture of the tool for further inspection.

Servicing and maintenance

Before you start to use the hand crimping tool, it must be clean and in proper working condition. Crimp residue or fragments must be removed from the crimping jaws and locator. The joints should be regularly lubricated using machine oil to protect them from dirt. Make sure that all bolts are secured with locking rings.

Crimp contact	Wire cross-section (mm²)	Crimping mandrel adjustment	Locator position	Order No.
Crimp male 1 mm	0.08	0.72	1	1170140000
	0.14	0.78		
	0.25	0.82		
	0.34	0.86		
	0.56	0.90		
Crimp male 1 mm	0.75	0.80	1	1170170000
	1.00	0.86		
	1.50	0.95		
Crimp female 1 mm	0.75	0.80	2	1170210000
	1.00	0.86		
	1.50	0.95		
Crimp male 1 mm	0.14	0.86	1	1170150000
	0.25	0.90		
	0.34	0.95		
	0.56	0.98		
	0.75	1.03		
Crimp female 1 mm (0.08-0.56 mm²)	1.00	1.08	2	1995860000
	0.08	0.75		
	0.14	0.78		
	0.25	0.82		
	0.34	0.86		
Crimp female 1 mm (0.34-1.00 mm²)	0.56	0.90	2	1170180000
	0.34	0.77		
	0.56	0.82		
	0.75	0.88		
Crimp male 1.5 mm	1.00	0.95	3	1170220000
	0.14	0.65		
	0.25	0.68		
	0.34	0.72		
	0.56	0.81		
Crimp female 1.5 mm (0.14-0.75 mm²)	0.75	0.95	2	1170230000
	1.00	1.07		
	0.14	0.70		
	0.25	0.73		
	0.34	0.77		
Crimp female 1.5 mm (0.34-1.00 mm²)	0.56	0.85	2	1170240000
	0.75	1.05		
	1.00	1.13		
	0.34	0.88		
Crimp male 2.0 mm	0.56	0.95	4	1170250000
	0.75	1.20		
	1.00	1.35		
	1.50	1.45		
Crimp female 2.0 mm	2.50	1.60	5	1170260000
	0.75	1.25		
	1.00	1.35		
	1.50	1.45		
	2.50	1.60		

Ordering data

Type	Order No.
SAI M23 CRIMPING TOOL 2	1203960000

SFC – SlimFix Clip MultiCard

A convenient clip system for wires and cables

Highly durable markers with extra security

The halogen-free SlimFix Clips are made from sturdy polyamide 66 and combine two advantages in one product. Their unique clip closure means they can be fitted at every stage in the installation as easily as an open marker while still offering you the application-based security of a closed marker.

The markers are designed for wire and cable diameters from 1.5 to 7.0 mm, have labelling surfaces up to 30 mm long to give you enough space for extensive character strings which are easily legible and can be printed onto the differently coloured markers using the PrintJet CONNECT printer.

SlimFix Clip SFC – the benefits to you

- Compact: secure and quick fitting without additional tools
- Informative: large labelling surface for long character strings
- Strong combinations: different colours and sizes
- Individual: can be printed using PrintJet CONNECT



PrintJet CONNECT



The SFC is fitted quickly and simply using its clip closure system – no need for additional tools.



Optimal cross-sectional range in all sizes: SFC-type markers in 5 sizes for wire diameters from 1.5 to 7.0 mm.



Technical data

Material	Polyamide 66, halogen-free
UL 94 flammability rating	V2
Temperature range	-40 °C to 100 °C

Ordering data

Colour	International colour code colours, not contained in the range, are available on request.
Special printing	Specify special printing and colours per using the M-Print® PRO software.
Printing	Black or colour
Possible printing systems	PrintJet CONNECT, PrintJet ADVANCED, MCP Plus 2, MCP Basic 2
Minimum order quantity	1 pack = 5 cards

Selection table

Type	Wire, ext. ø	Wire cross-section
SFC 0	1.5 - 2.5 mm	0.5 - 1.0 mm ²
SFC 1	2.0 - 3.5 mm	0.75 - 2.5 mm ²
SFC 2	3.0 - 5.0 mm	2.5 - 4.0 mm ²
SFC 2.5	4.0 - 6.0 mm	4.0 - 10 mm ²
SFC 3	3.5 - 7.0 mm	4.0 - 10 mm ²

SlimFix SFC

Technical data

Material	Temperature range	Fire class acc. to UL 94	Halogen
Polyamide 66	-40 °C...100 °C	V-2	No

Ordering data

Type	Labelling field	Height	Qty.	white Order No.	yellow Order No.	blue Order No.	red Order No.	CSP Order No.
SFC 0/12	12 x 4.1 mm	12 mm	200	1813130000	1813160000	1813170000	1813150000	1813180000
SFC 0/21	21 x 4.1 mm	21 mm	200	1813190000	1813210000	1813220000	1813200000	1813230000
SFC 0/30	30 x 4.1 mm	30 mm	150	1813240000	1813260000	1813270000	1813250000	1813280000
SFC 1/12	12 x 4.1 mm	12 mm	200	1747320001	1747320004	1747320002	1747320003	1752720000
SFC 1/21	21 x 4.1 mm	21 mm	200	1779080001	1779080004	1779080002	1779080003	1779090000
SFC 1/30	30 x 4.1 mm	30 mm	150	1805760000	1805730000	1805720000	1805740000	1805750000
SFC 2/12	12 x 5.8 mm	12 mm	120	1758320001	1758320004	1758320002	1758320003	1763480000
SFC 2/21	21 x 5.8 mm	21 mm	120	1805810000	1805780000	1805770000	1805790000	1805800000
SFC 2/30	30 x 5.8 mm	30 mm	90	1805870000	1805830000	1805820000	1805850000	1805860000
SFC 2.5/12	12 x 5.8 mm	12 mm	120	1062000000	1062010000	1062030000	1062020000	1062040000
SFC 2.5/21	21 x 5.8 mm	21 mm	120	1062050000	1062070000	1062090000	1062080000	1062110000
SFC 3/12	12 x 5 mm	12 mm	80	1025220000	1025230000	1025250000	1025240000	1025550000
SFC 3/21	21 x 5 mm	21 mm	80	1025260000	1025270000	1025300000	1025290000	1025560000
SFC 3/30	30 x 5 mm	30 mm	60	1025310000	1025320000	1025340000	1025330000	1025570000
Note	CSP: Please send M-Print PRO file							



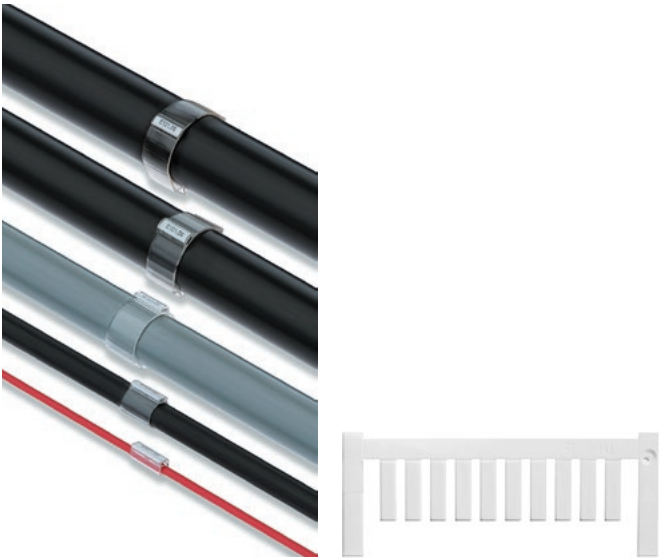
Marker tags for sensor cables

Sleeves for marking sensor cables

Unique marking and identification of sensor/actuator cables can be achieved with a marker tag. Each cable has a sleeve that accepts a marker tag TM-H 18. Cables open at one end have one sleeve, connecting cables have two marker sleeves. The TM-H 18 is available in various colours.

Ordering data

Type	Colour	Order No.
Sleeve		
TM 203/18 V0	transparent	1798480000
TM 4/18 HF/HB	transparent	1719850000
Marker		
TM-H 18 NEUTRAL WS	white	1718431044
TM-H 18 NEUTRAL GE	yellow	1718431687
TM-H 18 MC SDR	SDR	1718440000
SDR: Please send M-Print PRO file		



Marker tags for distribution boxes

Marker tags can be affixed to distribution boxes to ensure unique identification. For marking our standard M12 products, ESG 9/20 tags are used. M8 distribution boxes can be labelled with WS 10/5 and DEK 5 markers. For labelling metal distribution boxes, self-adhesive ESG 9/17 must be used.

In the case of the SAI Active family, we differentiate between SAI Active Universal and SAI Active Line. For labelling of Active Universal, we offer ESG 8/13.5/43.3 SAI AU. For labelling of Active Line, the ESG 9/6 is used.

All of these markers are available in MultiCard format and can therefore also be printed using our innovative PrintJet PRO marking solutions.

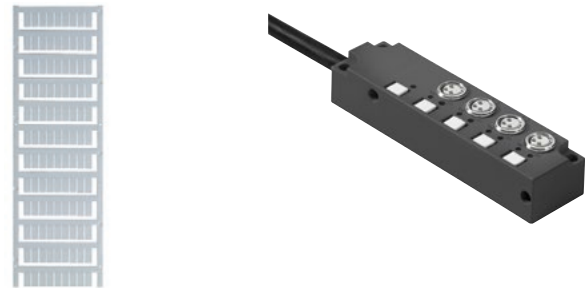
DEK for marking of M8 distribution boxes



DEK – Blank

Type	Colour	Width/Length	Qty.	Order No.
MFF 10/6 MC NE WS	white	6 mm/10 mm	600	1856780000

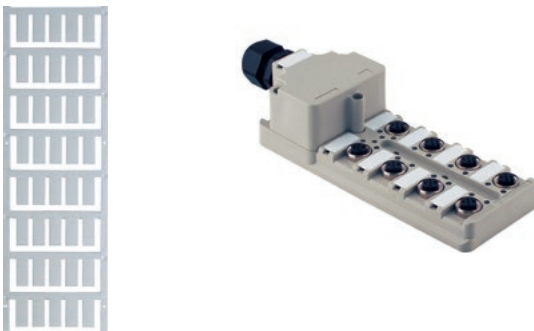
WS for marking of M8 distribution boxes



WS – Blank

Type	Colour	Width/Length	Qty.	Order No.
MFF 10/6 MC NE WS	white	6 mm/10 mm	600	1856780000

ESG for marking of M12 distribution boxes



Ordering data

Type for SAI Active Line	Colour	Width/Length	Qty.	Order No.
ESG 9/20 MC NEUTRAL WS	white	20 mm/9 mm	200	1609940000
ESG 9/20 MC SDR	white	20 mm/9 mm	40	1609950000
SDR: Please send M-Print PRO file				

ESG for marking of M12 Universal distribution boxes



Ordering data

Type for SAI Active Universal	Colour	Width/Length	Qty.	Order No.
ESG 8/13.5/43.3 SAI AU	transparent	13.5 mm/43.3 mm/8 mm	5	1912130000
ESG 8/13.5/43.3 SAI SDR	transparent	13.5 mm/43.3 mm/8 mm	1	1038860000
SDR: Please send M-Print PRO file				

PrintJet CONNECT

The networked high-performance printer for efficient and high-quality markings

Your direct connection to the optimal marking process

The PrintJet CONNECT is the consistent further development of our tried-and-tested PrintJet series. Focusing on the modern needs of industry and panel building, it combines maximum process and cost efficiency with intelligent networking and complete data consistency. For example, you can use existing data directly in the marking process – for working more efficiently and with a minimal error rate. The PrintJet CONNECT is part of the Weidmüller marking system consisting of software, markers and printers. It has an extremely durable industrial print head and has been specially optimised for fast working speed and high throughput.

Your advantages at a glance:

- Perfect printing results every time
- Fast handling of large volumes
- High level of automation thanks to magazine capacity of 50 MultiCards
- Durable and robust markers thanks to thermal fixing
- User-friendly operation thanks to intuitive touch display
- Flexible connection possibilities
- Simple function monitoring on the device

Technical data

	Description	
Intended use	Printing Weidmüller MultiCards and MetalliCards	
Technology	Inkjet procedure with integrated thermal fixing unit	
Feed	Automatic magazine for max. 30 MultiCards	
	Individual feed for MetalliCards and MultiCards	
Removal	Automatic dispenser magazine for up to 50 MultiCards	
Fuses	10 ATH 240/120 V	
Application site	Office conditions	
Ambient temperature	10 °C – 35 °C	
	0 °F – 95 °F	
Dimensions	Length including output rail:	approx. 1.133 mm (44,60")
	Length not including output rail:	approx. 930 mm (36,60")
	Width:	590 mm (23,20")
	Height:	454 mm (17,90")
Weight	63 kg with packaging	
	38 kg without packaging	
Ink system	Colour system – black, cyan, magenta, yellow	
Included in delivery	• PrintJet CONNECT	• one MultiCard DEK 5/5
	• Mains cable	• DVD with M-Print® PRO software
	• LAN cable	• Quick start guide
	• USB cable	• Operating manual
	• WIFI stick	• Ink set PJ CON INK SET
		• 2 PrintJet cleaner cloths
	The ink cartridges are not installed in the printer.	



The new 7" touch colour display with a multitude of new functions ensures optimal operation.



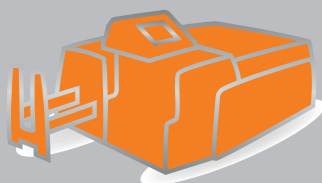
Whether LAN, WLAN or USB: the PrintJet CONNECT offers a wide connectivity spectrum.



High magazine capacity for loading and dispensing of up to 50 MultiCards.

Ink-jet printer

PrintJet CONNECT



Technical data

EAN	4064675016922
Depth	930 mm
Width	590 mm
Height	454 mm
Net weight	46000 GRM
Printing method	Ink jet technology
Printer driver / Operating system	Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11
Printing speed	Depends on printing quality
Print resolution, max.	1200 DPI
Marker type	Multicard, MetalliCard
Interface	USB, LAN, Wi-Fi
Fueling system	Ink cartridge, CMYK
Voltage supply	230 V AC / 16 A, 115 V AC / 20 A
Software	M-Print® PRO
Note	

Ordering data

Type	Qty.	Order No.
PRINTJET CONNECT	1	2715590000
Note		

Accessories

PrintJet CONNECT		Type	Qty.	Order No.
	Software	M-PRINT PRO	1	1905490000
	Ink set	PJ CON INK SET	1	2715600000
	Cyan ink	PJ CON INK C	1	2715610000
	Magenta ink	PJ CON INK M	1	2715620000
	Yellow ink	PJ CON INK Y	1	2715630000
	Black ink	PJ CON INK K	1	2715640000
	Fluid set	PJ CON FLUID SET	1	2715650000
	Ink collecting tray	PJ CON WASTE PAD	1	2715660000
	Textile cover	PJ ADV TEXTILE COVER	1	2592960000
	WiFi Stick	PJ CON WIFI STICK	1	2715680000
	PrintJet Cleaning cloth	PRINTJET CLEANER	1	2449710000
	PrintJet Cleaner 25 ml	PRINTJET CLEANER 25ML	1	2912780000
PrintJet ADVANCED		Type	Qty.	Order No.
	Ink collecting tray	PJ ADV TNAW	1	1338710000
	Cyan ink	PJ ADV TNTK INK C	1	1338680000
	Magenta ink	PJ ADV TNTK INK M	1	1338670000
	Yellow ink	PJ ADV TNTK INK Y	1	1338650000
	Black ink	PJ ADV TNTK INK K	1	1338690000
	Ink set	PJ ADV TNTK INK SET	1	1338720000
Note				

Thermal transfer printer THM MultiMark

The compact all-rounder



THM MultiMark

The only printer you will need for your marking tasks

The THM MultiMark is a compact and modularly constructed thermal transfer printer that makes full use of its many advantages and high number of potential uses. The integrated cutting and perforation option enables continuous materials to be cut to any length – making your work considerably easier when it comes to cutting and assigning the respective labels. The printer edits markers and labels from the MultiMark family as well as continuous materials, textile and polyester labels, heat shrink sleeves and PLC labels.

Snap-on terminal markers are printed using a separate print contact pressure roller, which can be changed in just 30 seconds.

Another plus: the device is very easy to operate thanks to an intuitive touch display and clear status indicators – in 22 languages. The compact design and low weight of 3.5 kg also ensures that the THM MultiMark really can be used anywhere, e.g. as a mobile printer for your on-site jobs.



All-rounder THM MultiMark: the printer handles marking jobs that would otherwise need to be done by several different devices.

Technical data

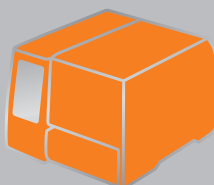
	Description
Intended use	Printing Weidmüller MultiMark, DEK, WS and MF strip marker, shrink tubes, label on rolls
Technology	Thermal transfer
Feed	Manuall mounting
Application site	Office conditions
Ambient temperature	5 °C to 40 °C
Included in delivery	- THM MultiMark - Power cable (Typ E+F/ UK/ USA) - Ink ribbon RIBBON MM-TB 25/360 SW - Ink ribbon RIBBON MM 110/360 SW - Cardboard core - Pressure roller THM MMP ROLLER TB - Pressure roller THM MMP ROLLER 115 - USB cable - Operating manual - DVD with M-Print® PRO software

Your benefits with THM MultiMark

- A printer for all jobs
- Ideal for small and medium print volumes
- Virtually maintenance-free thanks to thermal transfer technology
- Excellent readability (resolution: 300 dpi)
- Flexibility provided by modular perforation and cutting unit
- The contact pressure roller can be changed in 30 seconds
- High output, from 250 Dekafix markers/min.

Thermal transfer printer

THM MultiMark



Technical data

EAN	4050118626377
Depth	253 mm
Width	253 mm
Height	320 mm
Net weight	5800 GRM
Printing method	Thermotransfer
Printing speed	max. 150 mm/s
Marker type	MultiMark, Shrink-fit sleeves, Label reel
Interface	USB 2.0, Ethernet
Voltage supply	100...240 V AC
Software	M-Print® PRO
Note	

Ordering data

Type	Qty.	Order No.
THM MULTIMARK	1	2599430000
Note		

Accessories

Cutting blade		Type	Qty.	Order No.
		THM MMP CUTTER	1	1331600000
		THM MMP PERFORATOR	1	1416330000
Printer ribbons				
	Terminal block markers	RIBBON MM-TB 25/360 SW	1	2005090000
	Label, wide, black	RIBBON MM 110/360 SW	1	2005070000
	Label, narrow, black	RIBBON MM 76/360 SW	1	2005080000
	Label, narrow, white	RIBBON MM 84/300 WS	1	2005040000
	Shrink sleeve, endless	RIBBON HSS HF EL 40/300	1	1426210000
	Shrink sleeve, assembled	RIBBON MM-HS 60/300 SW	1	2448880000
Printer roller				
	Weidmüller DEK, WS	THM MMP ROLLER TB	1	2438500000
	MultiFit Phoenix	THM MMP ROLLER MF	1	2518600000
	MultiFit Wago	THM MMP ROLLER MF-W	1	2519150000
	Labels, shrink sleeves	THM MMP ROLLER 115	1	1357420000
	Weidmüller SFM3	THM MMP ROLLER SFM 3	1	2719270000
Miscellaneous accessories				
	Reel holder	THM MMP EXT.RH	1	1302920000
	Case	THM MMP CASE	1	2457760000
Note				

Service and support

Service and support	Service connects – worldwide	V.2
	Engineering services and customised products	V.3
	easyConnect – Your Industrial Service Platform	V.4
	Support Center	V.6
	Additional support services	V.7
	Weidmüller Configurator: intuitive, uncomplicated & fast digital engineering	V.8
	Your digital ordering options at Weidmüller	V.10

Our expertise for your requirements

Service connects – worldwide



Automation technology functions are becoming more complex in a globally-oriented world facing ambitious targets in terms of energy efficiency and smart production. We are your equal partners for the best connections in Industrial Connectivity.

Our personal support answers all questions reliably and expertly. During planning, installation or operation our service and support offer is your best companion.

In short: Weidmüller's global service combines our expertise with your requirements.

V



Your way to our service
www.weidmueller.com/service

Engineering services and customised products

Automation engineering and connectivity consulting belongs to our services as well as assembly of engineered products. We also support the process from the idea to the product with our Weidmüller Configurator and the Configure-to-Order process.



Consulting and engineering

The challenge for you is reducing costs and increasing efficiency. This requires intelligent, individual solutions. Whether it is modified products, pre-fitted mounting rails or complete small cabinets – our application centres provide a highly qualified custom-made engineering and production service.



Connectivity Consulting

Increase your competitiveness - supported by our experts. Our drive is to optimise your competitiveness. That's why our team of experts supports you in significantly increasing your efficiency in electrical machine design and control cabinet construction. With proven products and services from the Weidmüller portfolio – and with the experience gained from over 300 projects worldwide.



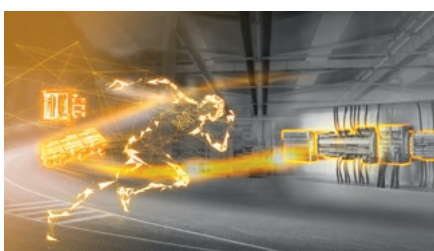
Assembled terminal rails - Flexibly designed to suit your requirements

Your processes in panel building have to be fast, flexible and productive. This is the only way you can cut your costs and increase efficiency. Depending on the application in question, you will have different requirements with respect to the engineering service, delivery speed and flexibility to be provided.



Modified and assembled enclosures - Competitive advantages included

To compete internationally, your plants need to satisfy high standards of safety, quality and performance. The smart combination of consultation, application expertise and industry know-how is our key to finding a custom-fit solution for your application. Reduce costs and increase efficiency.



Fast Delivery Service - Your ideas deserve a quick realisation

Obtain offers 24/7 and within minutes, including directly orderable article numbers with our Fast Delivery Service. The Weidmüller Configurator (WMC) for planning and configuration is key for consistent processes. Dispatch your orders in 5 days. Assemble individual terminal strips and enclosures from batch size 1!

Your ticket to the world of digital service

easyConnect – Your Industrial Service Platform



Our cloud-based platform is your ticket to the world of digital services from Weidmüller, and the intuitive and future-proof tool for your way to the Industrial IoT. Realise your use cases easily, consistently and without any relevant prior knowledge, thanks to the perfect interaction of platform, devices and diverse software services.

As an open, modular and perfectly integrable system, the platform is your enabler for a wide range of use cases. Increase your efficiency and unleash your full innovation potential with easyConnect.



Interested in using easyConnect?

Learn how to get started with easyConnect step-by-step.

www.weidmueller.com/easyconnect

Why should you use easyConnect?

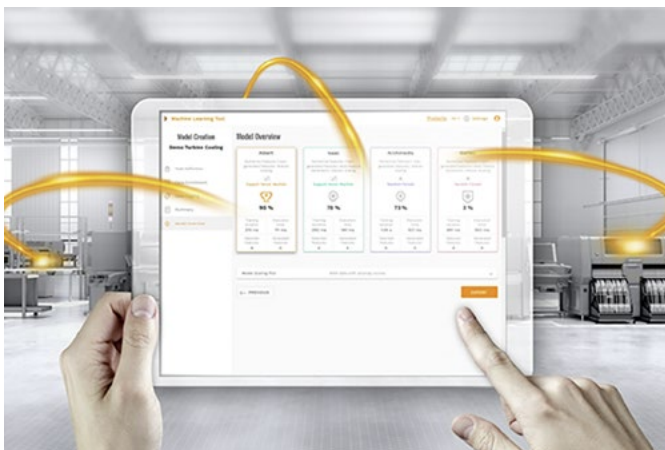
- You want to enter your digital transformation step-by-step?
- You want to make the step into Industrial IOT, but have no or little IT expertise?
- You want to use your digital data for smart & scalable services?
- You want to offer digital services (such as customised dashboard) to your customers?
- You want to improve your service offering and efficiency, e.g. through remote access?
- You feel Weidmüller's digital services are interesting, but you have „your cloud“ already?



Weidmüller comes up with the solution: easyConnect, the new digitalisation platform. It bundles Weidmüller's digital services at one place in the cloud and connects them with various Weidmüller devices.

With easyConnect you start digitalising your application step-by-step without ballast in a secure way.

The following services are initially available on easyConnect:



Device management

Adding and managing cloud-connected devices is typically the first step in any Industrial IoT use case.

Asset management

The asset management service is a modelling tool that allows users to model their assets and processes and link them to relevant time series data.

Remote access (u-link)

u-link guarantees a quick and secure access to machines and plants while also allowing for efficient management.

Data visualisation

easyConnect data visualisation services enable users to view, monitor and display live and historical data.

AutoML

With Weidmüller Industrial AutoML, you can optimize operations, increase product quality and develop new business models by benefiting from advanced analytics.

Expand the possibilities of our products

Our Support Center provides you with comprehensive, clear and personal assistance



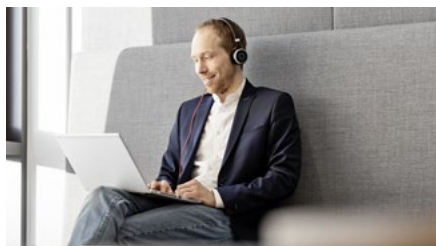
Receive fast and intuitive support to get the most out of our products in your application. In our new Support Center you can search or navigate to the many application notes, product information, video tutorials or software downloads of our products.

- **Everything at a glance** – One central support hub, where all relevant information is available
- **Powerful search** – Provides filter functions for various types of information and products
- **Different views and navigations** – Content provided in views product information, engineering support or software downloads
- **More than 170,000 downloads** – Application notes, video tutorials, templates and examples, user documentation, engineering data, ...
- **Personal contact** – Direct access to your personal technical contact in your country



Explore the world of our new Support Center
support.weidmueller.com

Additional support services



Training and Webinars

Stay tuned in a world that is accelerating. In our entertaining interactive webinars, we offer you the opportunity to learn about new products and technology topics and to interact with our experts.



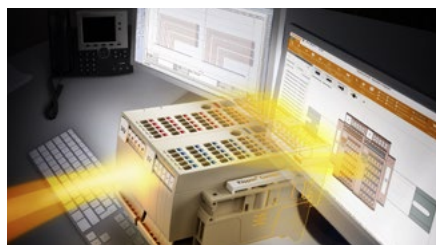
Repairs and replacement parts

We offer repair and components for our Workplace Solutions as well as assistance for other Weidmüller products. Find out how our experts can help you with your repair request.



Security advisory board

Our Product Security Incident Response Team (PSIRT) continuously informs you about possible security-related vulnerabilities of our products.



Engineering data

For the quick integration of our products into your design, there are a lot of digital product data for engineering systems like EPLAN, Zuken E3.series, WSCAD and many others available for download.



Product change notifications

Technical modifications of our products always available online.



Technical product catalogues

Technical data for our entire program in Industrial Connectivity for download in PDF-format.

From the idea to the finished solution

Weidmüller Configurator: intuitive, uncomplicated & fast digital engineering

Digital engineering can be so easy – with the Weidmüller Configurator!

It's a **free to use** software application to easily configure industrial solutions. It features more than **12,000 articles** from multiple product families including rail-mounted components, industrial and ex-certified enclosures, Heavy Duty Connectors, remote I/O-systems and PCB connectors.

Unleash the full power of digital engineering:

Our application wizards help you choose the right articles.

Place, mark or modify them to your needs and get your solution **visualized in 3D** – what you see is what you get!

Our promise: Speed up your solution planning process by up to 70%!

Your benefits:

- **Proven configuration designs in real 3D:** The plausibility and collision check with the complete digital documentation ensures that you can rely 100% on your configuration.
- **Seamless E-CAD Roundtrip:** Interfaces enable the simple exchange of product data between the WMC and all common engineering tools, such as Zuken E3 or EPLAN Electric P8.
- **Sample Service & Fast Delivery Service:** to support your design-in process, we offer a **3-day sample service** for many products. Inquire them directly online – for free!
You want your solution right away? Our **Fast Delivery Service** guarantees delivery of individually assembled terminal strips or enclosures within a few days.

Get started online now!

The Weidmüller Configurator makes solution planning easy. Visit our website for more information, tutorials and download it for free:



www.weidmueller.com/wmc

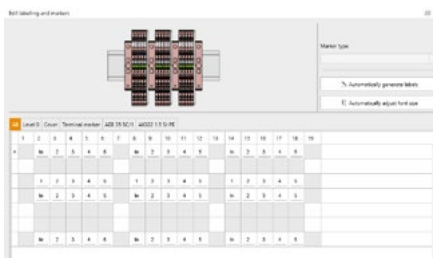


or register on easyconnect.weidmueller.com and use it online.



Wizards:

Design complete applications within few clicks – even without detailed product knowledge – for signal wiring, load monitoring, instrument transformers, enclosures, remote I/O-systems and many more.



Assistants:

Finalize your solutions with supporting assistants to add cross-connectors, markers or colors and verify the faultlessness. Automatic modes save valuable time!



1-click documentation:

Get assembly drawings for production – only 1 click. Bill of material – only 1 click. The complete solution documentation including all component data sheets – you're right, only 1 click!

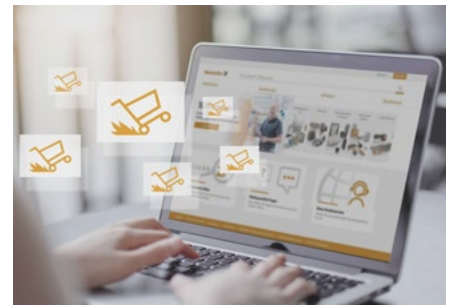
Digital ordering options

Your digital ordering options at Weidmüller

Find and easily select the products you need, with convenient ordering: as your Partner in Industrial Connectivity, we know what counts in purchasing. That is why we offer you a variety of options for ordering products from us and optimising your purchasing processes to meet your individual requirements and your workflow. The choice is yours.

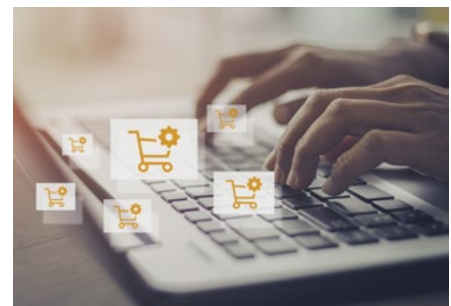
Order via the Weidmüller eShop

Our eShop offers you access to the complete Weidmüller product range around the clock – directly from a PC, tablet, or smartphone. The intuitive user guidance supports you as you select from over 50,000 products. Technical data, prices, and availabilities are available at any time. The shopping basket with check out function lets you place an order in seconds. Convenient additional functions like CSV upload, order history, reports, or custom order templates make your ordering processes even more efficient.



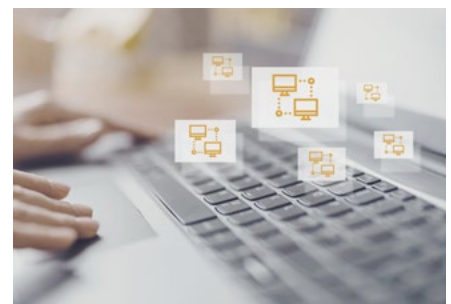
Order via the OCI interface

The Open Catalogue Interface (OCI) facilitates the exchange of data between your enterprise resource planning system and our eShop. This means that our eShop is integrated into your system via an OCI interface, so you have access to our complete product catalogue from your enterprise resource planning system. You can filter and select products, place them in your shopping basket and place direct orders without changing your software application. The open OCI standard is supported worldwide from a variety of software providers.



Order via the EDI interface

Our Electronic Data Interchange (EDI) also offers you the option of ordering our products directly from your enterprise resource planning system. All order data is transmitted automatically to our system and processed immediately. Orders, order confirmations, invoices, and delivery notices are transmitted lightning fast. This helps you make your purchasing processes even more efficient.



We will be glad to advise you on which solutions are suitable for you and how implementation is possible.
Get in touch with us
www.weidmueller.com/digital-order

Technical appendix

Technical appendix	Sensor-actuator Interface Passive – Overview	W.2
	Coding systems	W.4
	Sensor-actuator Interface Passive – Connection plan	W.10
	Cable overview	W.12
	Drilling templates	W.14
	Resistance Charts	W.18

Sensor-actuator Interface Passive – Overview



Technical data

Material data		
Insulating material	- Housing	
	- Contact carrier	
Base material	- Contact	
	- Screw socket	
Temperature range		°C
Colour	- Housing	
	- PG & contact carrier	
Cable sheathing		
Cable type		
O-ring		
Housing seal		
Type of connection, hood version		
Clamping range	mm²	
AWG No.		
Stripping length, hood version	mm	
Stripping length, screw version	mm	
Stripping length, PUSH IN version	mm	
Contact surface		
- BL3.5 / B2L		
Contact base material		
- BL3.5 / B2L		
Torques		
- Hoods	Nm	
- Blanking plugs	Nm	
Mechanical data		
Ingress Protection Class*	IP	
Suitability for cable carrier	cycles at 15d	
IDC connection		
Max. connect. frequency of a cable with same cross-section		
Stripping length	mm	
Conductor cross-section (flexible)	mm²	
Smallest strand diameter	mm	
Conductor insulation material		
Conductor outside diameter	mm	
Cable outside diameter	mm	
Pin assignment		
Electrical data to VDE 110 (Apr 97)		
Operating voltage	V-	
Max. current carrying capacity per I/O signal	A	
- total with single supply	A	
- total with dual supply	A	
Rated voltage	V _{eff}	
Test voltage	kV _{eff}	
Pollution severity		
Insulation resistance	Ω	
Other data		
Dimensions	see chapter G	
Fixing holes	see chapter G	
Function indicators		
- for operating voltage		
- for I/O function		
Current isolation (SAI-...-M)		
Cable strain relief (SAI-...-M)		
Max. cable diameter (SAI-...-M)	mm	
* only when plugged in and secured		

M8	
PBT (UL 94 V0)	
PBT (UL 94 V0)	
CuSn6	
CuZn, nickel-plated	
-20...+90	
black (similar to RAL 9005)	
black	
PUR	
halogen-free	
Viton	
screw/PUSH IN	
0.08...1.0	
28...18	
100	
-	
7	
tin	
Cu alloy	
0.8	
0.5	
68 (M16/M23 IP 67)	
1 Mio. 15d	
10 ... 30	
2 (Derating)	
8	
-	
32	
1.0	
3	
> 10 ⁹	
1 x LED, green	
1 x LED, yellow (per function)	
-	
M20	
10-14	

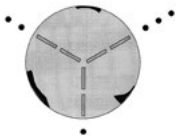
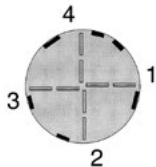
M12	
PBT (UL 94 V0)	
PBT (UL 94 V0)	
CuSn6	
CuZn, nickel-plated	
-20...+90	
grey, RAL 7032	
black	
PUR	
halogen-free, UL	
Viton	
foamed PUR	
screw/PUSH IN	
0.08...1.5	
22...14	
100	
7	
10	
tin	
Cu alloy	
0.8	
0.5	
68	
2 Mio. 10d	
-	
-	
-	
-	
-	
-	
-	
10 ... 30	
2 (Derating)	
10 (9 A for F-version)	
2 x 8 = 16	
32	
1.0	
3	
> 10 ⁹	
2 x LED, green	
1 x LED, yellow (per function)	
via 2 jumper plugs	
M20	
6-12	

**Technical data**

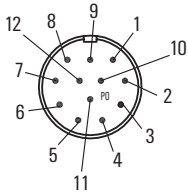
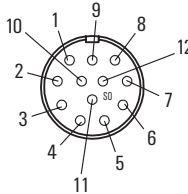
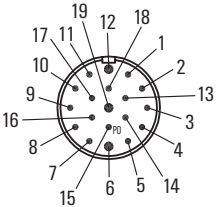
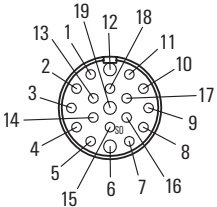
Material data			IDC	M12 Push-Pull
Insulating material	- Housing		PBT (UL 94 V0)	PA 6 GF
	- Contact carrier		PBT (UL 94 V0)	PBT (UL 94 V0)
Base material	- Contact		CuZn, pre-nickel- & gold-plated	pre-nickel- & gold-plated
	- Screw socket		CuZn, nickel-plated	CuZn, nickel-plated
Temperature range		°C	-20 ... +90	-25 ... +80
Colour	- Housing		grey, RAL 7032	grey, RAL 7032
	- PG & contact carrier		black	black
Cable sheathing			PUR	
Cable type			PUR/PVC	
O-ring			Viton	Viton
Housing seal			foamed PUR	foamed PUR
Type of connection, hood version			screw/PUSH IN	
Clamping range		mm²	0.08 ... 1.5	
AWG No.			22 ... 14	
Stripping length, hood version		mm	100	
Stripping length, screw version		mm	7	
Stripping length, PUSH IN version		mm	10	
Contact surface			tin	
	- BL3.5 / B2L			
Contact base material			Cu alloy	
	- BL3.5 / B2L			
Torques				
- Hoods		Nm	0.8	
- Blanking plugs		Nm	0.5	
Mechanical data				
Ingress Protection Class*		IP	67	67
Suitability for cable carrier		cycles at 15d	1 Mio. 15d	
IDC connection				
Max. connect. frequency of a cable with same cross-section			10	
Stripping length		mm	15 ... 20	
Conductor cross-section (flexible)		mm²	0.25 ... 0.5	
Smallest strand diameter		mm	0.1	
Conductor insulation material			PVC/PE/PUR	
Conductor outside diameter		mm	1.2 ... 1.6	
Cable outside diameter		mm	3.5 ... 5.0	
Pin assignment			see next page	
Electrical data to VDE 110 (Apr 97)				
Operating voltage		V-	10 ... 30	10 ... 30
Max. current carrying capacity per I/O signal		A	2 (Derating)	2
- total with single supply		A	10 (9 A for F-version)	10
- total with dual supply		A	2 x 8 = 16	
Rated voltage		V _{eff}	32	32
Test voltage		kV _{eff}	1.0	1.0
Pollution severity			2	3
Insulation resistance		Ω	> 10 ⁹	> 10 ⁹
Other data				
Dimensions		see chapter G		
Fixing holes		see chapter G		
Function indicators				
- for operating voltage			2 x LED, green	1 x LED, green
- for I/O function			1 x LED, yellow (per function)	1 x LED, yellow (per function)
Current isolation (SAI-...-M)			via 2 jumper plugs	
Cable strain relief (SAI-...-M)			M20	
Max. cable diameter (SAI-...-M)		mm	6-12	
* only when plugged in and secured				

Contact assignment

SAI-M/SAI-F - IDC

3-pole:	Pole	Colour code	Assignment
	1	brown	+ 24 V DC
	2	white	input/output
	3	blue	0 V DC
4-pole:	Pole	Colour code	Assignment
	1	brown	+ 24 V DC
	2	no colour	input/output 2
	3	blue	0 V DC
	4	black	input/output 1

M23

12-pole:	Pole	Colour code	Plug-in station	Contact M12
 Male	1	white	1	4
	2	green	2	4
	3	yellow	3	4
	4	grey	4	4
	5	pink	5	4
	6	red	6	4
	7	black	7	4
	8	violet	8	4
	9	blue (-)	1- 8	3
	10	blue (-)	1- 8	3
	11	brown (+)	1- 8	1
	12	green-yellow (PE)	1- 8	5
 Female				
19-pole:	Pole	Colour code	Plug-in station	Contact M12
 Male	1	violet	8	4
	2	red	6	4
	3	grey	4	4
	4	red/blue	2	2
	5	green	2	4
	7	grey/pink	1	2
	8	white/green	3	2
	9	white/yellow	5	2
	10	white/grey	7	2
	11	black	7	4
	13	yellow/brown	6	2
	14	brown/green	4	2
	15	white	1	4
	16	yellow	3	4
	17	pink	5	4
	18	grey/brown	8	2
	6	blue (-)	1- 8	3
	12	green-yellow (PE)	1- 8	5
	19	brown (+)	1- 8	1
 Female				

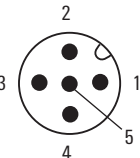
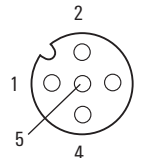
Coding systems for round connectors

Round connectors are used for wiring sensors, actuators and data cables.

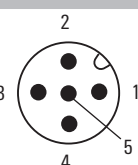
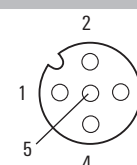
To prevent wiring errors, there are different coding systems: for M12, the plug-in connectors are coded A, B and D. The M12 A-coded plug-in connector is available with 3 to 5 pins, 8 and 12 pins. There is no coding for M8 and M5.

The arrangement of the pins in the M8 plug-in connector (asymmetrical) rules out the possibility of 3- and 4-pole M8 plug-in connectors being connected together. In the case of M5 plug-in connectors, 3- and 4-pole plug-in connectors can be connected together since the pins are symmetrically arranged.

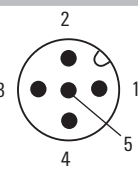
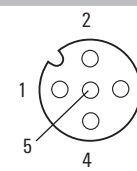
A-coded, M12, Sensor wiring

2- to 5-pole:		Pole	Colour code	Assignment
 Male	 Female	1	brown	+ 24 V DC
		2	white	input/output 2*
		3	blue	0 V DC
		4	black	input/output 1
		5	grey	FE
		Housing		shield**
		*) = only 5-pole version **) = only with shielded version		

A-coded, M12, PROFIBUS-PA

2- to 5-pole:		Pole	Colour code	Assignment
 Male	 Female	1	red	DATA-B
		3	green	DATA-A
		Housing		shield

A-coded, M12, CANopen/DeviceNet™

2- to 5-pole:		Pole	Colour code	Assignment
 Male	 Female	1		shield (drain wire)
		2	red	V+
		3	black	V- (CAN_GND)
		4	white	CAN_H signal
		5	blue	CAN_L signal
		Housing		shield



B-coded, M12, PROFIBUS-DP

3- to 5-pole:		Pin	Colour code	Assignment
		2	green	Data A
		4	red	Data B
		Housing		shield

D-coded, M12, Industrial Ethernet

Industrial Ethernet

4-pole:		Pin	Colour code	Assignment
		1	yellow	TD+ (transmit data +)
		2	white	RD+ (receive data +)
		3	orange	TD - (transmit data -)
		4	blue	RD - (receive data -)
		Housing		shield

M12

8-pole:		Pole	Colour code	Assignment
		1	white	signal
		2	brown	signal
		3	green	signal
		4	yellow	signal
		5	grey	+ 24 V DC
		6	pink	signal
		7	blue	0 V DC
		8	red	signal

M12

12-pole:		Pole	Colour code	Assignment
		1	brown	+ 24 V DC
		2	blue	0 V DC
		3	white	signal
		4	green	signal
		5	pink	signal
		6	yellow	signal
		7	black	signal
		8	grey	signal
		9	red	signal
		10	violet	signal
		11	grey/pink	signal
		12	red/blue	signal

K-coded, M12

5-pole:		Pin	Colour code	Assignment	
		1	black 1		
		2	black 2		
		3	black 3		
		4	black 4		
		5	green/yellow		
Male					
Female					

L-coded, M12

5-pole:		Pin	Colour code	Assignment	
		1	brown		
		2	white		
		3	blue		
		4	black		
		5	pink		
Male					
Female					

S-coded, M12

3-pole:		Pole	Colour code	Assignment
		1	brown	
		2	green/yellow	
		3	blue	
Male	Female			

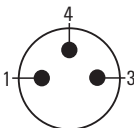
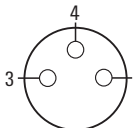
S-coded, M12

4-pole:		Pole	Colour code	Assignment	
		1	brown		
		2	black		
		3	grey		
		4	green/yellow		
Male					
Female					

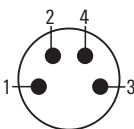
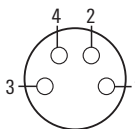
T-coded, M12

4-pole:		Pin	Colour code	Assignment		
		1	brown			
		2	white			
		3	blue			
		4	black			
		Male				
		Female				

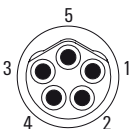
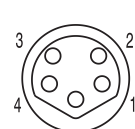
M8 connector position

3-pole:		Pin	Colour code	Assignment
		1	brown	+ 24 V DC
		3	blue	0 V DC
		4	black	input/output 1
Male		Female		

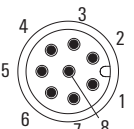
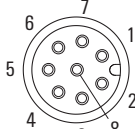
M8 connector position

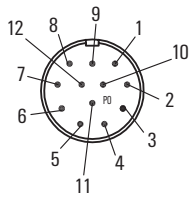
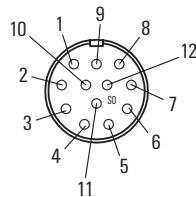
4-pole:		Pin	Colour code	Assignment
		1	brown	+ 24 V DC
		2	white	input/output 2
		3	blue	0 V DC
		4	black	input/output 1
Male		Female		

M8

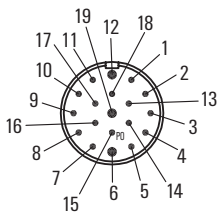
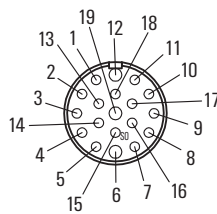
5-pole:		Pin	Colour code	Assignment
		1		
		2		
		3		
		4		
		5		
Male	Female			

M8

8-pole:		Pin	Colour code	Assignment
		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
Male		Female		

M23**12-pole:****Male****Female**

Pole	Colour code	Assignment	Cross-section
1	white	signal	0.34
2	green	signal	0.34
3	yellow	signal	0.34
4	grey	signal	0.34
5	pink	signal	0.34
6	red	signal	0.34
7	black	signal	0.34
8	violet	signal	0.34
9	nc	nc	nc
10	blue	0 V DC	0.75
11	brown	+ 24 V DC	0.75
12	green/yellow	PE	0.75

M23**19-pole:****Male****Female**

Pole	Colour code	Assignment	Cross-section
1	violet	signal	0.34
2	red	signal	0.34
3	grey	signal	0.34
4	red/blue	signal	0.34
5	green	signal	0.34
6	blue	0 V DC	0.75
7	grey/pink	signal	0.34
8	white/green	signal	0.34
9	white/yellow	signal	0.34
10	white/grey	signal	0.34
11	black	signal	0.34
12	green/yellow	PE	0.75
13	yellow/brown	signal	0.34
14	brown/green	signal	0.34
15	white	signal	0.34
16	yellow	signal	0.34
17	pink	signal	0.34
18	grey/brown	signal	0.34
19	brown	+ 24 V DC	0.75

Sensor-actuator Interface Passive – Connection plan

Connection plan									Conductor colour	
Terminal Connection No.		Connector position	M5/M8-contact		M12- contact	IDC-contact		Potential	Conductor colour	Colour code
			3-pole	4-pole		3-pole	4-pole			
1	=	1	4	4	4	2	4	E/A 1-1	white	WH
2	=	2	4	4	4	2	4	E/A 2-1	green	GN
3	=	3	4	4	4	2	4	E/A 3-1	yellow	YE
4	=	4	4	4	4	2	4	E/A 4-1	grey	GY
5	=	5	4	4	4	2	4	E/A 5-1	pink	PK
6	=	6	4	4	4	2	4	E/A 6-1	red	RD
7	=	7	4	4	4	2	4	E/A 7-1	black	BK
8	=	8	4	4	4	2	4	E/A 8-1	violet	VT
9	=	1	-	2	2*		2	E/A 1-2	grey/pink	GYPK
10	=	2	-	2	2*		2	E/A 2-2	red/blue	RDBL
11	=	3	-	2	2*		2	E/A 3-2	white/green	WHGN
12	=	4	-	2	2*		2	E/A 4-2	brown/green	BNGN
13	=	5	-	2	2*		2	E/A 5-2	white/yellow	WHYE
14	=	6	-	2	2*		2	E/A 6-2	yellow/brown	YEBN
15	=	7	-	2	2*		2	E/A 7-2	white/grey	WHGY
16	=	8	-	2	2*		2	E/A 8-2	grey/brown	GYBN
17	=	1, 3, 5, 7	1	1	1	1	1	U1 + (24 V DC)	brown	BN
18	=	1, 3, 5, 7	3	3	3	3	3	U1 - (0 V)	blue	BU
19	=	2, 4, 6, 8	-	-	1	1	1	U2 + (24 V DC)	red*	RD*
20	=	2, 4, 6, 8	-	-	3	3	3	U2 - (0 V)	black*	BK*
21	=	1, 2, 3, 4, 5, 6, 7, 8	-	-	5	-	-	PE	green/yellow	GNYE

* Contact used in 5-pole version only

Plug insert, hood version

Note:

SAI distribution box with fixed cable have a single supply conductor as standard. The voltage U1 is supplied to all the sockets. An SAI distribution box with fixed cable but with separate supply voltage is available on request.

Pin assignment



PUSH IN connection



Screw connection



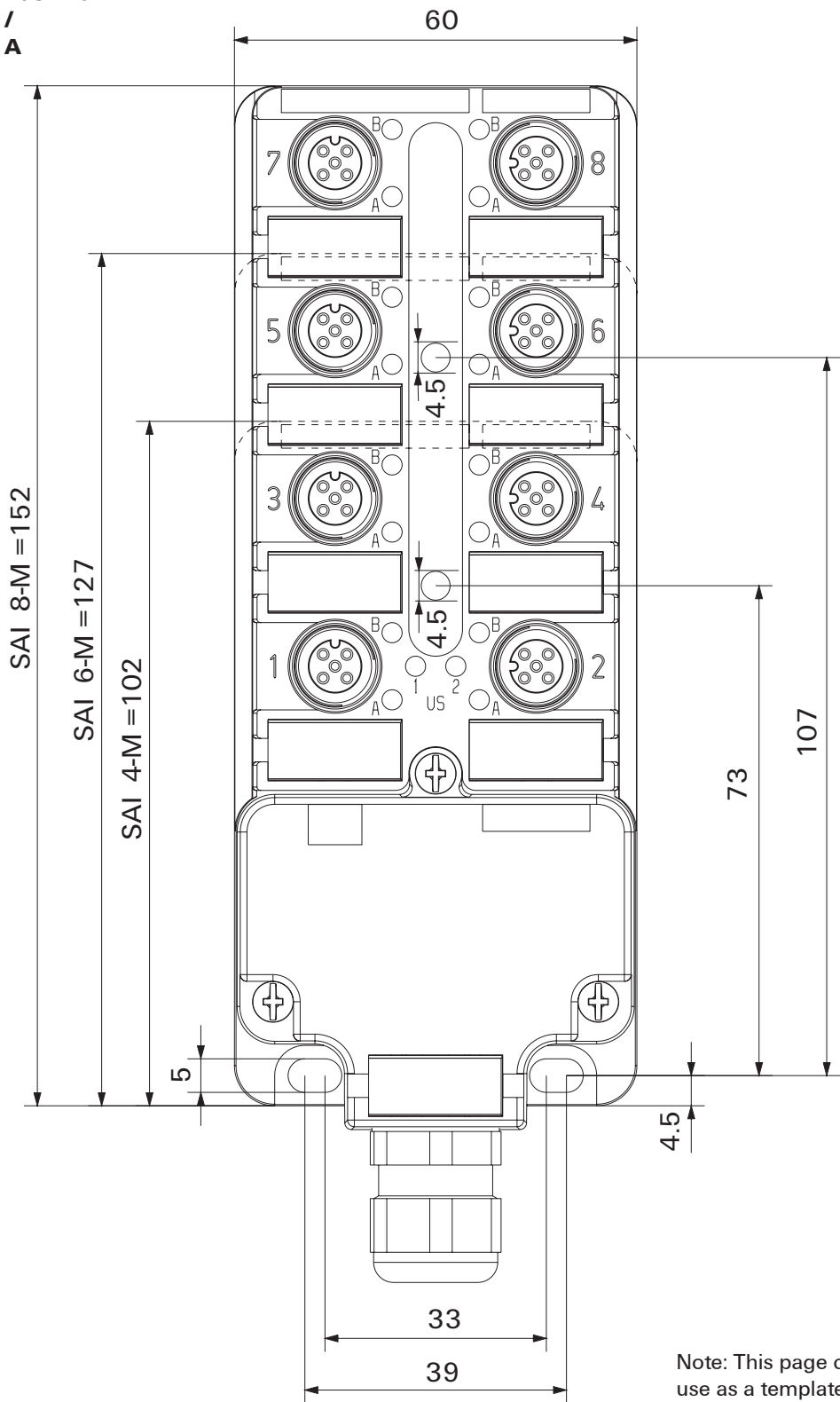
Cable overview

Cables	Identification in article designation	Cable gland	Wire number / cross-section	Colour	Colour coding	Suitable for torsion	Wire core insulation	
M8 unshielded								
PVC	V	M8	3x0.25 mm ²	black	BR,BL,SW	No	PVC	
	V	M8	4x0.25 mm ²	black	BR,WS,BL,SW	No	PVC	
PUR halogen-free	U	M8	3x0.25 mm ²	black	BR,BL,SW	No	PP	
	U	M8	4x0.25 mm ²	black	BR,WS,BL,SW	No	PP	
PUR halogen-free yellow	UGE	M8	3x0.25 mm ²	yellow	BR,BL,SW	No	PP	
	UGE	M8	4x0.25 mm ²	yellow	BR,WS,BL,SW	No	PP	
PUR resistant to welding beads	T	M8	3x0.34 mm ²	black	BR,BL,SW	Yes	TPE	
	T	M8	4x0.34 mm ²	black	BR,WS,BL,SW	Yes	TPE	
M8 shielded								
PUR halogen-free	U	M8	3x0.34 mm ²	black	BR,BL,SW	No	PP	
	U	M8	4x0.34 mm ²	black	BR,WS,BL,SW	No	PP	
M12 unshielded								
PVC	V	M12	3x0.34 mm ²	black	BR,BL,SW	No	PVC	
	V	M12	4x0.34 mm ²	black	BR,WS,BL,SW	No	PVC	
	V	M12	5x0.34 mm ²	black	BR,WS,BL,SW,GR	No	PVC	
PUR halogen-free	U	M12	3x0.34 mm ²	black	BR,BL,SW	No	PP	
	U	M12	4x0.34 mm ²	black	BR,WS,BL,SW	No	PP	
	U	M12	5x0.34 mm ²	black	BR,WS,BL,SW,GR	No	PP	
	U	M12	8x0.25 mm ²	black	BR,WS,BL,GR,GN,GE,RS,RT	No	PP	
PUR halogen-free yellow	UGE	M12	3x0.34 mm ²	yellow	BR,BL,SW	No	PP	
	UGE	M12	4x0.34 mm ²	yellow	BR,WS,BL,SW	No	PP	
	UGE	M12	5x0.34 mm ²	yellow	BR,WS,BL,SW,GR	No	PP	
PUR resistant to welding beads	T	M12	3x0.34 mm ²	black	BR,BL,SW	Yes	TPE	
	T	M12	4x0.34 mm ²	black	BR,WS,BL,SW	Yes	TPE	
	T	M12	5x0.34 mm ²	black	BR,WS,BL,SW,GR	Yes	TPE	
M12 shielded								
PUR halogen-free	U	M12	3x0.34 mm ²	black	BR,BL,SW	No	PP	
	U	M12	4x0.34 mm ²	black	BR,WS,BL,SW	No	PP	
	U	M12	5x0.34 mm ²	black	BR,WS,BL,SW,GR	No	PP	
	U	M12	8x0.25 mm ²	black	BR,WS,BL,GR,GN,GE,RS,RT	No	PP	
Cables for the automotive industry								
PUR resistant to welding beads	TOV	M8/M12	3x0.34 mm ²	orange	BR,BL,SW	Yes	TPE	
PUR resistant to welding beads	TOV	M8/M12	4x0.34 mm ²	orange	BR,WS,BL,SW	Yes	TPE	
PUR resistant to welding beads	TOV	M8/M12	5x0.34 mm ²	orange	BR,WS,BL,SW,GR	Yes	TPE	
PUR resistant to welding beads	TYV	M8/M12	5x0.34 mm ²	yellow	BR,WS,BL,SW,GR	Yes	TPE	
Data cables								
TYPE A	C5AS4VG	M12	4xAWG 22	green	WS,BL,OR,GE	No	PE	
TYPE B	C5DS4VG	M12	4xAWG 22	green	WS,BL,OR,GE	No	PE	
TYPE C	C5DD4UG	M12/RJ45	4xAWG 22	green	WS,BL,OR,GE	No	PE	
EtherCat								
PUR halogen-free	UIE	M8/M12	4x0.15 mm ²	green	BL,OR,WSBL,WSOR	No	PP	
PROFIBUS DP								
PUR halogen-free	D	M12	2xAWG24	violet	RT, GN	No	PE	
PROFIBUS PA								
PVC	M	M12	2x1.0 mm ²	black	RT, GN	No	PE	
PVC	M	M12	2x1.0 mm ²	blue	RT, GN	No	PE	
CANDeviceNet								
PUR halogen-free	A	M12	2x0.25 mm ² + 2x0.38 mm ²	black	WS,BL (0.25 mm ²), RT,SW (0.38 mm ²)	No	PE	
PVC	B	M12	2x0.25 mm ² + 2x0.38 mm ²	black	WS,BL (0.25 mm ²), RT,SW (0.38 mm ²)	No	PE	
Note								
Additional technical data available upon request								

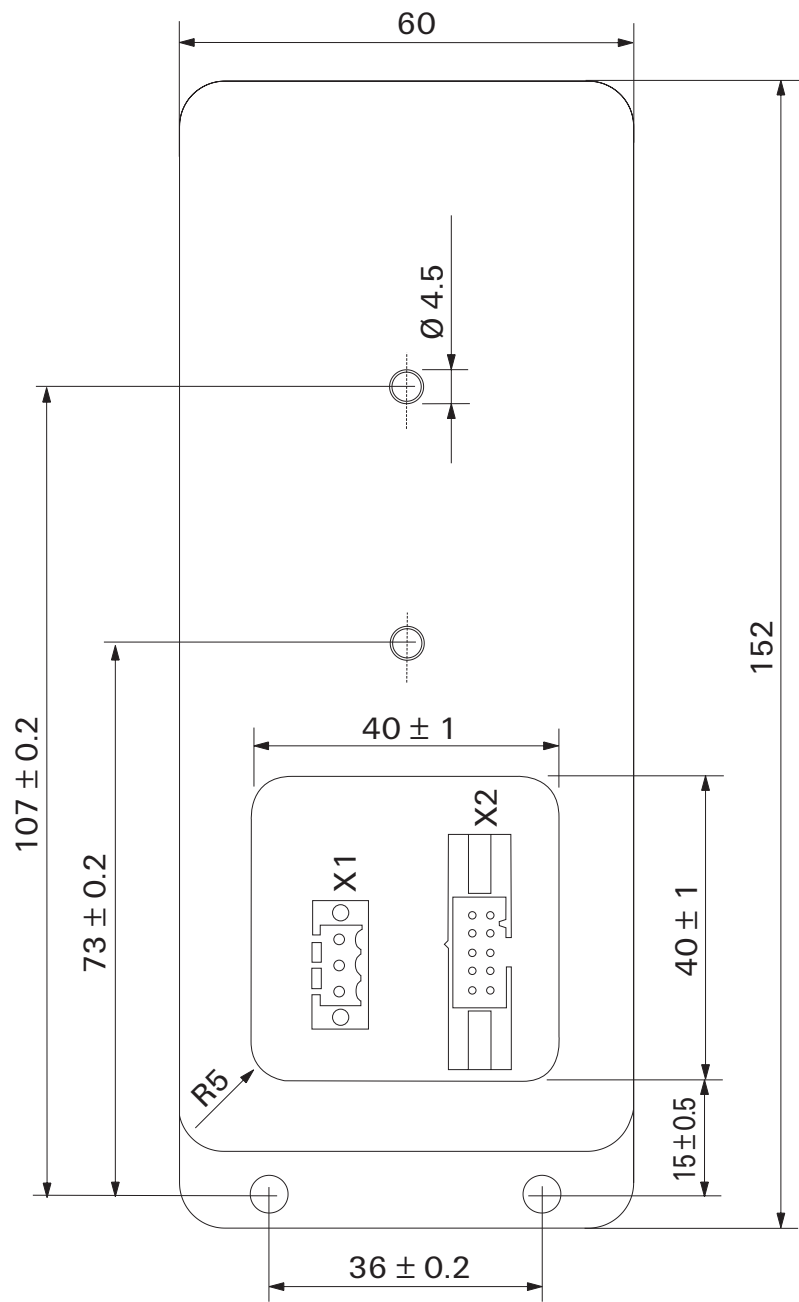
	Outer cladding	Suitable for dragline cable carriers	Bending radius in cable $\varnothing$		Temperature range in °C		External- $\varnothing$ in mm	Halogen-free	UL
			Rigid	Moving	Rigid	Moving			
	PVC	No	5x	10x	-30 / +80	-5 / +80	approx 4.5	No	Yes
	PVC	No	5x	10x	-30 / +80	-5 / +80	approx 4.8	No	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 4.1	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 4.4	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 4.1	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 4.4	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +105	-30 / +105	approx 4.9	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +105	-30 / +105	approx 4.9	Yes	Yes
	PUR	Yes	5x	12x	-40 / +90	-30 / +90	approx 4.8	Yes	Yes
	PUR	Yes	5x	12x	-40 / +90	-30 / +90	approx 5.1	Yes	Yes
	PVC	nein	5x	10x	-30 / +80	-5 / +80	approx 4.9	No	Yes
	PVC	nein	5x	10x	-30 / +80	-5 / +80	approx 5.3	No	Yes
	PVC	nein	5x	10x	-30 / +80	-5 / +80	approx 5.7	No	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 4.3	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 4.7	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 5.0	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx 5.9	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 4.3	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 4.7	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 5.0	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +105	-30 / +105	approx 4.9	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +105	-30 / +105	approx 4.9	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +105	-30 / +105	approx 5.1	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 5.0	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 5.4	Yes	Yes
	PUR	Yes	5x	10x	-50 / +80	-25 / +80	approx 5.7	Yes	Yes
	PUR	Yes	5x	12x	-40 / +80	-25 / +80	approx 6.3	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +105	-30 / +105	approx 4.5	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +105	-30 / +105	approx 4.9	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +105	-30 / +105	approx 5.2	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +105	-30 / +105	approx 5.2	Yes	Yes
	PVC	No	3.5x	7.5x	-40 / +75	-20 / +60	approx 6.5	No	Yes
	PVC	No	3.5x	7.5x	-40 / +70	-20 / +60	approx 6.5	No	Yes
	PUR	Yes	5x	7.5x	-40 / +70	-20 / +60	approx 6.5	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +80	-/-	approx 4.8	Yes	Yes
	PUR	Yes	4x	8x	-35 / +80	-10 / +50	approx 8.0	Yes	No
	PVC	No	8x	8x	-30 / +80	-5 / +60	approx 8.0	No	No
	PVC	No	8x	8x	-30 / +80	-5 / +60	approx 8.0	No	No
	PUR	Yes	5x	10x	-40 / +80	-10 / +80	approx 7.0	Yes	Yes
	PVC	No	5x	10x	-40 / +80	-10 / +80	approx 7.0	No	Yes

Drilling templates

SAI M12 and M12 Push-Pull:
hood / M23 / M16 /
fixed cable / IDC / A

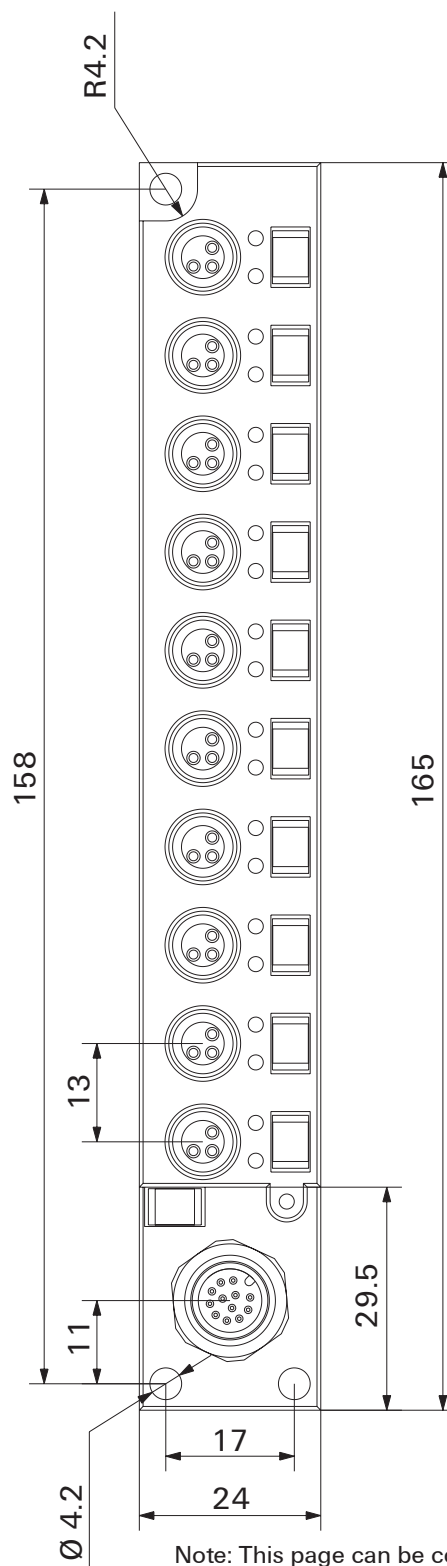
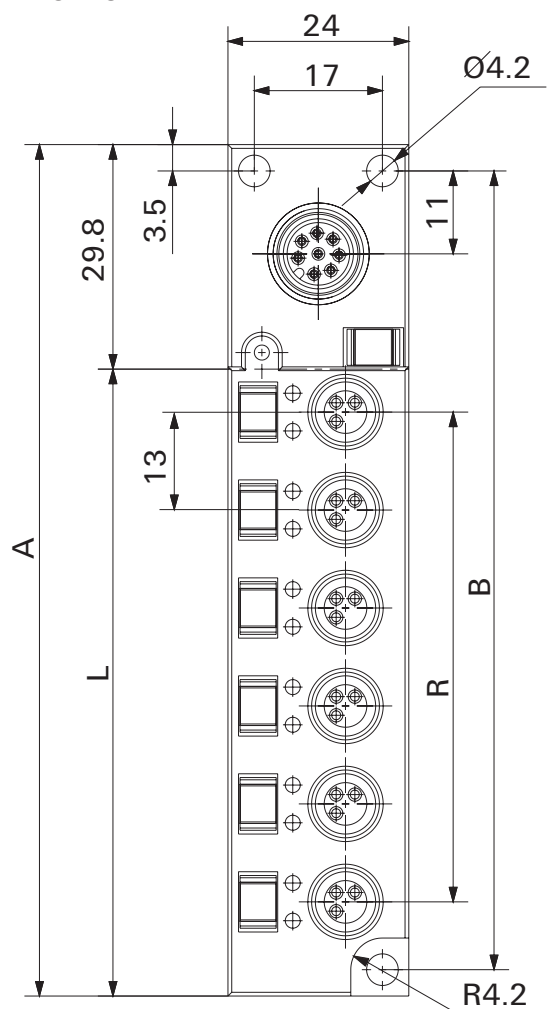


SAI wall bushing



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SAI M8 line



Note: This page can be copied to use as a template.

Chemical resistance of nickel

The statements on the resistance of nickel to chemicals only apply when the coating is undamaged and is not subject to any mechanical loads. These statements are based on a review of the literature available and it should be noted that pure nickel is not considered in the literature – only alloyed nickel steels.

The statements on page W.15 are based on research, and once again please note that pure nickel has not been included in the testing. The findings in the research are based on undamaged alloyed nickel steels that have not been subject to any mechanical loads.

The six materials in question are:

Chlorobenzene	1
Chloroform	1
Chromic acid hydride	1
Acetic acid	1
Hydrofluoric acid	2
Concentrated hydrochloric acid	2

The findings for the two materials above marked with a "2" could have a critical impact on applications. The findings for the four materials marked with a "1" should be taken into account but would not be considered critical for applications.

A further advantage of nickel is its thermal stability. The resistance does not change up to a temperature of 120 °C.

Pure nickel:

Corrosion properties are determined by the resistance of the passive layer.

Good resistance in:

- water containing oxygen
- flowing seawater
- alkalis (very good resistance) even at high temperatures and high concentrations
- neutral and alkaline salt solutions (carbonates, phosphates, sulphates, chlorides and nitrates) even at high concentrations and temperatures

Known problems:

- corrosion attack in heavily oxidising acids and solutions containing chlorides
- in inorganic and organic acids only resistant in diluted solutions and at low temperatures
- coating is not toxic (formation of deposits by micro-organisms can lead to destruction of the passive coating)

Chemical resistance of Pocan® (PBT)

Pocan® offers good resistance to chemicals. Organic solvents, such as aliphatic hydrocarbons, alcohols, ether, long-chain ester as well as fats, oils and perchlorinated hydrocarbons do not corrode Pocan®.

This is also true for water and aqueous solutions, neutral and acid salts, as well as diluted acids.

On the other hand, it is susceptible to alkalis, oxidising acids, ketones and phenols.

Susceptibility to universal alcohols, aromatics and ketones increases as the ambient temperature rises above 60 °C.

In the presence of water and aqueous solutions, hydrolytic degradation at higher temperatures increasingly leads to a decline in stability.

Substances like motor and transformer oils, petrol and brake fluids do not corrode Pocan®, even at higher temperatures.

Medium	23 °C	60 °C
Acetic acid 10%	±	±
Acetone	+	-
Ammonia 10%	+	-
Ammonia, concentrated	±	-
Benzene	+	-
Brake fluid	+	+
Butane	+	+
Butanol	+	±
Butyl acetate	+	+
Calcium chloride 10%	+	+
Carbon disulphide	+	±
Carbon tetrachloride	+	±
Chlorobenzene	-	-
Chloroform	-	-
Chromic acid hydride 10%	+	+
Citric acid 10%	+	±
Cresol	-	-
Curd soap	+	+
Dibutyl phthalate	+	±
Diesel oil	+	+
Diethyl ether	+	±
Dioxan	+	-
Ethanol	+	+
Ethyl acetate	±	-
Ethyl dichloride	-	-
Ethylene glycol	+	±
Formic acid 10%	+	±
Freon 11	+	+
Frigen 113	+	+
Glacial acetic acid 10%	-	-
Glycerine	+	+
Heptane	+	+
Hexane	+	+
Hydraulic oil	+	+
Hydrochloric acid 10%	+	-
Hydrochloric acid, concentrated	-	-
Hydrofluoric acid 10%	+	+
Hydrogen peroxide 20%	+	±
Isopropyl alcohol	+	±
Kerosene	+	+

Medium	23 °C	60 °C
Linseed oil	+	+
Lubricating greases	+	+
Methanol	+	±
Methyl ethyl ketone	+	±
Methylene chloride	-	-
Mineral oils	+	+
Motor oils	+	+
Nitric acid 10%	+	±
Nitric acid, concentrated	-	-
Octane	+	+
Olive oil	+	+
Paraffin oil	+	+
Perchloroethylene	±	-
Petrol, normal and lead-free	+	+
Petrol, super	+	+
Petrol/methanol 85/15	+	+
Petroleum	+	+
Phenol 10%	-	-
Phosphoric acid 20%	+	±
Potassium chloride 10%	+	+
Potassium dichromate 10%	+	+
Potassium hydroxide 10%	-	-
Potassium permanganate 10%	+	±
Soap suds 10%	+	±
Sodium bisulphite 10%	+	+
Sodium carbonate 10%	+	+
Sodium chloride 10%	+	+
Sodium hydroxide 10%	-	-
Sulphuric acid 10%	+	±
Sulphuric acid, concentrated	-	-
Tetrahydrofuran	-	-
Toluene	±	-
Transformer oil	+	+
Trichlorethene/chloroform 1/1	±	-
Turpentine oil	+	+
Vegetable oils	+	+
Washing liquid	+	+
Washing powder, synthetic	+	+
Water	+	+
Xylol	±	-

The above values are for guidance only. A definite statement can only be made when based on the respective case in question.

+ = resistant
- = not resistant
± = partly resistant

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SAI-06ZVPUT-3A-M08L-PNP	2819020000	E.38
SAI-06ZVPUT-4A-M08L-PNP	2819060000	E.38
SAI-08D-VHPH-2A-M12O-NAM-EX	1921120000	E.6
SAI-08D-VHPH-5A-M12O-OL2-EX	1921130000	E.6
SAI-08D-VHPH-2A-M12O-NAM-EX	1894380000	E.41
SAI-08D-VHPH-5A-M12O-OL2-EX	2902390000	E.6
SAI-08LVP12-3A-M08L-AND	2512820000	F.3
SAI-08LVP12-3A-M08L-LOG	2512810000	F.4
SAI-08LVP12-3A-M08L-PNP	1871680000	E.6
SAI-08LVP12-3A-M08L-PNP	1871680000	E.39
SAI-08LVPFC-3A-M08L-PNP-05U03	1828680000	E.6
SAI-08LVPFC-3A-M08L-PNP-05U03	1828680000	E.41
SAI-08LVPFC-3A-M08L-PNP-10U03	1828670000	E.6
SAI-08LVPFC-3A-M08L-PNP-10U03	1828670000	E.41
SAI-08LVPFC-4A-M08L-PNP-05U06	1828620000	E.6
SAI-08LVPFC-4A-M08L-PNP-05U06	1828620000	E.41
SAI-08LVPFC-4A-M08L-PNP-10U06	1828610000	E.6
SAI-08LVPFC-4A-M08L-PNP-10U06	1828610000	E.41
SAI-08ZMXP3-3A-M08L-PNP-05U03	2818910000	E.38
SAI-08ZMXP3-3A-M08L-PNP-10U03	2819150000	E.38
SAI-08ZMXP3-4A-M08L-PNP-05U06	2819190000	E.38
SAI-08ZMXP3-4A-M08L-PNP-10U06	2819230000	E.38
SAI-08ZVPPP-3A-M08L-PNP	2818950000	E.38
SAI-08ZVPPP-4A-M08L-PNP	2818990000	E.38
SAI-08ZVPUT-3A-M08L-PNP	2819030000	E.38
SAI-08ZVPUT-4A-M08L-PNP	2819070000	E.38
SAI-10LVP12-3A-M08L-PNP	1877950000	E.6
SAI-10LVP12-3A-M08L-PNP	1877950000	E.39
SAI-10LVPFC-3A-M08L-PNP-05U04	1828660000	E.6
SAI-10LVPFC-3A-M08L-PNP-05U04	1828660000	E.41
SAI-10LVPFC-3A-M08L-PNP-10U04	1828650000	E.6
SAI-10LVPFC-3A-M08L-PNP-10U04	1828650000	E.41
SAI-10ZMXP3-3A-M08L-PNP-10U04	2819160000	E.38
SAI-10ZMXP3-4A-M08L-PNP-05U07	2819200000	E.38
SAI-10ZMXP3-4A-M08L-PNP-10U07	2819240000	E.38
SAI-10ZVPPP-3A-M08L-PNP	2818960000	E.38
SAI-10ZVPPP-4A-M08L-PNP	2819000000	E.38
SAI-10ZVPUT-3A-M08L-PNP	2819040000	E.38
SAI-10ZVPUT-4A-M08L-PNP	2819080000	E.38
SAI-12LVPFC-3A-M08L-PNP-05U05	1828640000	E.6
SAI-12LVPFC-3A-M08L-PNP-05U05	1828640000	E.41
SAI-12LVPFC-3A-M08L-PNP-10U05	1828630000	E.6
SAI-12LVPFC-3A-M08L-PNP-10U05	1828630000	E.41
SAI-4M 4 MP M12 UT	1705921000	E.7
SAI-4M 4 MP M12 UT	1705921000	E.33
SAI-4-F 4P IDC PUR 10M	1766670000	E.21
SAI-4-F 4P IDC PUR 5M	1766660000	E.21
SAI-4-F 4P M12 L 10M	1070680000	E.6
SAI-4-F 4P M12 L 10M	1070680000	E.10
SAI-4-F 4P M12 L 1.5M	1070650000	E.6
SAI-4-F 4P M12 L 1.5M	1070650000	E.10
SAI-4-F 4P PUR 10M	9456200000	E.6
SAI-4-F 4P PUR 10M	9456200000	E.9
SAI-4-F 4P PUR 15M	9456210000	E.9
SAI-4-F 4P PUR 15M	9456210000	E.6
SAI-4-F 4P PUR 20M	9456230000	E.9
SAI-4-F 4P PUR 3M	9456180000	E.6
SAI-4-F 4P PUR 5M	9456190000	E.9
SAI-4-F 5P M12 L 10M	1070640000	E.6
SAI-4-F 5P M12 L 10M	1070640000	E.10

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
SAI-4-F 5P M12 L 5M	1070630000	E.6	SAI-4/6/8-MHF 5P PUR40M	1791464000	E.33	SAI-8-M 5P M12 UT	1701251000	E.33	SAI-M23-KBC-0.34/1.00	1170180000	K.16
SAI-4-F 5P M12 L 5M	1070630000	E.10	SAI-4/6/8-MHF 5P PUR50M	1791465000	E.33	SAI-8-M 4P M12 DIP	1059430000	E.13	SAI-M23-KBC-0.34/1.00	1170180000	M.14
SAI-4-F 5P PUR 10M	9456340000	E.6	SAI-4/6/8-MHF 5P PUR55M	1791465500	E.33	SAI-8-MF 4P PUR 10M M12	1789190000	E.33	SAI-M23-KBC-0.34/1.00	1170180000	M.15
SAI-4-F 5P PUR 10M	9456340000	E.9	SAI-6-F 4P IDC PUR 10M	1766690000	E.21	SAI-8-MF 4P PUR 5M M12	1799960000	E.33	SAI-M23-KBC-1.00-1.5	1170210000	K.16
SAI-4-F 5P PUR 15M	9456350000	E.6	SAI-6-F 4P IDC PUR 5M	1766680000	E.21	SAI-8-MF 5P PUR 10M	9457430000	E.33	SAI-M23-KBC-1.00-1.5	1170210000	M.14
SAI-4-F 5P PUR 15M	9456350000	E.9	SAI-6-F 4P M12 L 10M	1265930000	E.6	SAI-8-MF 5P PUR 5M	1804590000	E.33	SAI-M23-KBC-1.00-1.5	1170210000	M.15
SAI-4-F 5P PUR 20M	9456370000	E.6	SAI-6-F 4P M12 L 10M	1265930000	E.11	SAI-8-MH 4P M12	1705942000	E.23	SAI-M23-KBC-1.5-14-56	1170230000	K.16
SAI-4-F 5P PUR 20M	9456370000	E.9	SAI-6-F 4P M12 L 5M	1265920000	E.6	SAI-8-MH 4P M12	1705942000	E.25	SAI-M23-KBC-1.5-14-56	1170230000	M.14
SAI-4-F 5P PUR 3M	9456320000	E.9	SAI-6-F 4P M12 L 5M	1265920000	E.11	SAI-8-MH-5P M12	1701252000	E.23	SAI-M23-KBC-1.5-14-56	1170230000	M.15
SAI-4-F 5P PUR 5M	9456330000	E.6	SAI-6-F 4P PUR 10M	9456480000	E.6	SAI-8-MH-5P M12	1701252000	E.25	SAI-M23-KBC-1.5-56-1.0	1170240000	K.16
SAI-4-F 5P PUR 5M	9456330000	E.9	SAI-6-F 4P PUR 10M	9456480000	E.9	SAI-8-MH-5P M12 PI	1782760000	E.23	SAI-M23-KBC-1.5-56-1.0	1170240000	M.14
SAI-4-FMM-4P M12 10M	9456200002	E.6	SAI-6-F 4P PUR 15M	9456490000	E.6	SAI-8-MH-5P M12 PI	1782760000	E.25	SAI-M23-KBC-1.5-56-1.0	1170240000	M.15
SAI-4-FMM-4P M12 5M	9456190002	E.6	SAI-6-F 4P PUR 15M	9456490000	E.9	SAI-8-MHD-4P M12	1705943000	E.23	SAI-M23-KBC-2-0.75-2.5	1170260000	K.17
SAI-4-M 3P IDC	1760040000	E.20	SAI-6-F 4P PUR 20M	9456510000	E.6	SAI-8-MHD-4P M12	1705943000	E.26	SAI-M23-KBC-2-0.75-2.5	1170260000	M.14
SAI-4-M 3P IDC UT	1760041000	E.20	SAI-6-F 4P PUR 20M	9456510000	E.9	SAI-8-MHD-5P M12	1701253000	E.23	SAI-M23-KBC-2-0.75-2.5	1170260000	M.15
SAI-4-M 4P IDC	1766780000	E.20	SAI-6-F 4P PUR 3M	9456460000	E.9	SAI-8-MHD-5P M12	1701253000	E.26	SAI-M23-KBC-0.75/2.50	1995820000	K.21
SAI-4-M 4P IDC UT	1766781000	E.20	SAI-6-F 4P PUR 5M	9456470000	E.6	SAI-8-MM 5P M12	1783490000	E.6	SAI-M23-KBC-0.75/2.50	1995820000	M.14
SAI-4-M 4P M12	1705920000	E.6	SAI-6-F 4P PUR 5M	9456470000	E.9	SAI-8-MM 5P M12	1783490000	E.23	SAI-M23-KBC-L2 5-4-0	1170420000	K.21
SAI-4-M 4P M12	1705920000	E.7	SAI-6-F 5P PUR 10M	9456820000	E.6	SAI-8-MM 5P M12	1783490000	E.24	SAI-M23-KBC-L2 5-4-0	1170420000	M.14
SAI-4-M 5P M12	1701230000	E.6	SAI-6-F 5P PUR 10M	9456820000	E.9	SAI-8-MM 5P M12 UT	1783491000	E.24	SAI-M23-KBC-LS-0.25-1.0	1995830000	K.21
SAI-4-M 5P M12	1701230000	E.7	SAI-6-F 5P PUR 15M	9456630000	E.6	SAI-8-MM 5P M12 PI	1782740000	E.23	SAI-M23-KBC-LS-0.25-1.0	1995830000	M.14
SAI-4-M 5P M12 1:1	1806010000	E.27	SAI-6-F 5P PUR 15M	9456630000	E.9	SAI-8-MM 5P M12 PI	1782740000	E.24	SAI-M23-KS-7/12	1169900000	K.12
SAI-4-M 5P M12 1:1 UT	1806011000	E.27	SAI-6-F 5P PUR 20M	9456650000	E.6	SAI-8-MMS 4P M12	1783530000	E.6	SAI-M23-KS-L7/12	1170270000	K.18
SAI-4-M 5P M12 ECO	1892100000	E.15	SAI-6-F 5P PUR 20M	9456650000	E.9	SAI-8-MMS 4P M12	1783530000	E.23	SAI-M23-KSC-0.08/0.56	1170140000	K.16
SAI-4-M 5P M12 ECO UT	1892101000	E.15	SAI-6-F 5P PUR 3M	9456600000	E.9	SAI-8-MMS 4P M12	1783530000	E.24	SAI-M23-KSC-0.08/0.56	1170140000	M.14
SAI-4-M 5P M12 NPN ECO	1892100005	E.15	SAI-6-F 5P PUR 5M	9456610000	E.6	SAI-8-MMS 5P M12	1783510000	E.6	SAI-M23-KSC-0.14/1.00	1170150000	K.16
SAI-4-M 5P M12 OL	1800000000	E.8	SAI-6-F 5P PUR 5M	9456610000	E.9	SAI-8-MMS 5P M12	1783510000	E.23	SAI-M23-KSC-0.14/1.00	1170150000	M.14
SAI-4-M 5P M12 OL UT	1800001000	E.8	SAI-6-M 3P IDC	1760050000	E.20	SAI-8-MMS 5P M12	1783510000	E.24	SAI-M23-KSC-0.14/1.00	1170150000	M.15
SAI-4-M 5P M12 PI	1854000000	E.7	SAI-6-M 4P IDC	1766790000	E.20	SAI-8-S 4P FC	1847920000	E.16	SAI-M23-KSC-1.00-1.5	1170170000	K.16
SAI-4-M 5P M12 UT	1701231000	E.7	SAI-6-M 4P IDC UT	1766791000	E.20	SAI-8-S 4P FC	1847920000	K.24	SAI-M23-KSC-1.00-1.5	1170170000	M.14
SAI-4-M 5P M12 UT	1701231000	E.33	SAI-6-M 4P M12	1705930000	E.6	SAI-8-S 4P M12	9456020000	E.6	SAI-M23-KSC-1.00-1.5	1170170000	M.15
SAI-4-M 8P M12	1807640000	E.28	SAI-6-M 4P M12	1705930000	E.7	SAI-8-S 5P FC	1848040000	E.16	SAI-M23-KSC-1.5-0.14-1	1170220000	K.16
SAI-4-M 8P M12 UT	1807641000	E.28	SAI-6-M 4P M12 UT	1705931000	E.7	SAI-8-S 5P FC	1848040000	K.24	SAI-M23-KSC-1.5-0.14-1	1170220000	M.14
SAI-4-M 4P-M12-SVV	1431490000	D.32	SAI-6-M 4P M12 UT	1705931000	E.33	SAI-8-S 5P M12	1795470000	E.6	SAI-M23-KSC-1.5-0.14-1	1170220000	M.15
SAI-4-M 4P-M12-SVV-A03	2495280000	D.33	SAI-6-M 5P M12	1701240000	E.6	SAI-8-S12 3P M8 L OL	1116330000	E.39	SAI-M23-KSC-2-0.75-2.5	1170250000	K.17
SAI-4-M-MVV-M12 1:1	2009620000	D.35	SAI-6-M 5P M12	1701240000	E.7	SAI-8-SH 4P FC	1859120000	E.17	SAI-M23-KSC-2-0.75-2.5	1170250000	M.14
SAI-4-M-MVV-M12 S-COD	1542580000	D.34	SAI-6-M 5P M12 ECO	1892090000	E.15	SAI-8-SH 4P FC	1859120000	K.25	SAI-M23-KSC-2-0.75-2.5	1170250000	M.15
SAI-4-MF 5P PUR 10M	1804580000	E.33	SAI-6-M 5P M12 ECO UT	1892091000	E.15	SAI-8-SH 5P FC	1859140000	E.17	SAI-M23-KSC-0.14/1.00	1170400000	K.21
SAI-4-MF 5P PUR 5M	1804600000	E.33	SAI-6-M 5P M12 UT	1701241000	E.7	SAI-8-SH 5P FC	1859140000	K.25	SAI-M23-KSC-0.14/1.00	1170400000	M.14
SAI-4-MH 4P M12	1705922000	E.23	SAI-6-M 5P M12 UT	1701241000	E.33	SAI-ADAPT-M12/M8 3P	1990550000	E.44	SAI-M23-KSC-L2 5-4-0	1170410000	K.21
SAI-4-MH 4P M12	1705922000	E.25	SAI-6-M-MVV-M12 S-COD	2085620000	D.36	SAI-ADAPT-M12/M8 4P	1990560000	E.44	SAI-M23-KSC-L2 5-4-0	1170410000	M.14
SAI-4-MH-5P M12	1701232000	E.23	SAI-6-MH 4P M12	1705932000	E.23	SAI-ADAPT-M8/M12 3P	1473460000	E.44	SAI-M23-KSC-LS-0.25-1.0	1170390000	K.21
SAI-4-MH-5P M12	1701232000	E.25	SAI-6-MH 4P M12	1705932000	E.25	SAI-ADAPT-M8/M12 4P	1990540000	E.44	SAI-M23-KSC-LS-0.25-1.0	1170390000	M.14
SAI-4-MHD-4P M12	1705923000	E.23	SAI-6-MH-5P M12	1701242000	E.23	SAI-ADAPT-M8/M8 4/3P	1990570000	E.44	SAI-M23-KSW-L7/12	1170290000	K.18
SAI-4-MHD-4P M12	1705923000	E.25	SAI-6-MH-5P M12	1701242000	E.25	SAI-ADAPTER-M8/M8-3P/4P	1288000000	E.44	SAI-M23-SE-12	1170070000	K.14
SAI-4-MM 5P M12	1783500000	E.6	SAI-6-S 4P M12	9456010000	E.6	SAI-CEH-M120-KCR075	1381770000	M.12	SAI-M23-SE-16	1170080000	K.15
SAI-4-MM 5P M12	1783500000	E.23	SAI-6-S 5P M12	9456010001	E.6	SAI-CEH075	1381760000	M.12	SAI-M23-SE-17	1170100000	K.15
SAI-4-MM 5P M12	1783500000	E.24	SAI-6-S12 4P M12 L	1265940000	E.6	SAI-CEH080	1381730000	M.12	SAI-M23-SE-19	1170120000	K.15
SAI-4-MM 5P M12	1783500000	E.26	SAI-6-S12 4P M12 L	1265940000	E.12	SAI-CEH090	1381740000	M.12	SAI-M23-SE-6	1170000000	K.14
SAI-4-MMS 4P M12	1783540000	E.23	SAI-8-B 4P M12 F10	1812170000	E.31	SAI-CEH095	1381750000	M.12	SAI-M23-SE-7	1170030000	K.14
SAI-4-MMS 4P M12	1783540000	E.24	SAI-8-B 5P M12 SL	1847560000	E.32	SAI-H3-M12-K	2616480000	D.31	SAI-M23-SE-9	1170050000	K.14
SAI-4-MMS 5P M12	1783520000	E.6	SAI-8-F 3P IDC PUR 10M	1766770000	E.21	SAI-H3-M12-L	2616470000	D.31	SAI-M23-SEL-4/4	1170380000	K.20
SAI-4-MMS 5P M12	1783520000	E.23	SAI-8-F 4P IDC PUR 10M	1766710000	E.21	SAI-H3-M12-S	2616410000	D.30	SAI-M23-SEL-6	1170350000	K.20
SAI-4-MMS 5P M12	1783520000	E.24	SAI-8-F 4P IDC PUR 5M	1766700000	E.21	SAI-H3-M12-T	2616420000	D.30	SAI-M23-SKF	1416410000	K.22
SAI-4-MMS 5P M12 1:1	1897680000	E.27	SAI-8-F 4P PUR 10M	9456760000	E.6	SAI-H4-M12-K	2616460000	D.31	SAI-M23-SK-FFS	1417920000	K.22
SAI-4-S 4P FC	1847960000	E.16	SAI-8-F 4P PUR 10M	9456760000	E.9	SAI-H4-M12-L	2616450000	D.31	SAI-M23-SK-F-P	1408270000	K.22
SAI-4-S 4P FC	1847960000	K.24	SAI-8-F 4P PUR 15M	9456770000	E.6	SAI-H4-M12-S	2616350000	D.30	SAI-M23-SK-M	1244790000	K.22
SAI-4-S 4P M12	9456000000	E.6	SAI-8-F 4P PUR 15M	9456770000	E.9	SAI-H4-M12-T	2439350000	D.30	SAI-M23-SK-M-FS	1170810000	K.22
SAI-4-S 5P FC	1794770000	E.16	SAI-8-F 4P PUR 20M	9456790000	E.6	SAI-IDC-TOOL	1795020000	E.19	SAI-M23-SK-M-P	1408280000	K.22
SAI-4-S 5P FC	1794770000	K.24	SAI-8-F 4P PUR 20M	9456790000	E.9	SAI-M12-CLIP	1362750000	B.58	SAI-M8-CLIP	1363800000	B.58
SAI-4-S8 4P M12 L	1267330000	E.6	SAI-8-F 4P PUR 3M	9456740000	E.9	SAI-M12-KBC-18/20	2664860000	C.35	SAI-MDC12AL1	2726210000	M.13
SAI-4-S8 4P M12 L	1267330000	E.12	SAI-8-F 4P PUR 5M	9456750000	E.6	SAI-M12-KBC-20/22	2664870000	C.35	SAI-SA-3-IDC	9457720000	E.18
SAI-4/6/8-MH MH BLF3.5	1782750000	E.23	SAI-8-F 4P PUR 5M	9456750000	E.9	SAI-M12-KBC-22/24	2673730000	C.35	SAI-SA-4-IDC	1766810000	E.18
SAI-4/6/8-MH MH BLF3.5	1782750000	E.25	SAI-8-F 5P 10M 0.5/1.0U	9457600000	E.9	SAI-M12-KBC-26/28	2673740000	C.35	SAI-SCREWTRY BOX	1939180000	M.6
SAI-4/6/8-MH-MH BL 3.5	1724752000	E.23	SAI-8-F 5P 15M 0.5/1.0U	1784510000	E.9	SAI-M12-KSC-0.34/0.5	1468860000	L.72	SAI-SCREWTRY TOOL BOX	1939170000	M.6
SAI-4/6/8-MH-MH BL 3.5	1724752000	E.25	SAI-8-F 5P 20M 0.5/1.0U	1784500000	E.9	SAI-M12-KSC-18/20	2664840000	C.35	SAI-SK M12 MT	1802750000	C.46
SAI-4/6/8-MH-MHD BL 3.5	1724753000	E.23	SAI-8-F 5P 2M 0.5/1.0U	7915030000	E.9	SAI-M12-KSC-20/22	2664850000	C.35	SAI-SK M8	1802760000	C.46
SAI-4/6/8-MH-MHD BL 3.5	1724753000	E.26	SAI-8-F 5P 5M 0.5/1.0U	9457590000	E.9	SAI-M12-KSC-22/24	2673710000	C.35	SAI-SK STECKER M12	1781520000	C.46
SAI-4/6/8-MH-MM BL 3.5	1724754000	E.24	SAI-8-F 5P NPN-PNP 5M	1814990000	E.29	SAI-M12-KSC-26/28	2673720000	C.35	SAI-SK-M12	9456050000	C.46
SAI-4/6/8-MH-MMS BL 3.5	2820520000	E.24	SAI-8-F 5P PUR 10M	9456900000	E.6	SAI-M12L-KBC-0.5	2530990000	D.21	SAI-SK-M12 BU	8425960000	C.46
SAI-4/6/8-MH BL3.5	1724750000	E.7	SAI-8-F 5P PUR 10M	9456900000	E.9	SAI-M12L-KBC-0.75	2531000000	D.21	SAI-SK-M12 IDC	1794850000	C.46
SAI-4/6/8-MH BL3.5	1724750000	E.20	SAI-8-F 5P PUR 15M	9456910000	E.6	SAI-M12L-KBC-1.5	2531010000	D.21	SAI-SK-M12 IDC	1794850000	E.19
SAI-4/6/8-MH BL3.5	1724750000	E.28	SAI-8-F 5P PUR 15M	9456910000	E.9	SAI-M12L-KBC-2.5	2525650000	D.21	SAI-SK-M12-RED	2870920000	D.37
SAI-4/6/8-MH BL3.5 SV	1724750050	E.7	SAI-8-F 5P PUR 20M	9456930000	E.6	SAI-M12L-KSC-0.5	2530920000	D.21	SAI-SK-M12-UNI		

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SAIL-M12BG-3-1.5U	9457820150	B.6
SAIL-M12BG-3-1.5U	9457820000	B.6
SAIL-M12BG-3-1.5U	9457820150	B.11
SAIL-M12BG-3-1.5UGE	1092910150	B.11
SAIL-M12BG-3-1.5U	1925570150	B.6
SAIL-M12BG-3-1.5V	1925570000	B.6
SAIL-M12BG-3-1.5V	1925570150	B.11
SAIL-M12BG-3-10U	9457821000	B.6
SAIL-M12BG-3-10V	1925571000	B.6
SAIL-M12BG-3-3.0U	9457820300	B.6
SAIL-M12BG-3-3.0V	1925570300	B.6
SAIL-M12BG-3-5.0U	9457820500	B.6
SAIL-M12BG-3-5.0V	1925570500	B.6
SAIL-M12BG-3B-1.5U	1057740150	B.47
SAIL-M12BG-3L1.5U	1292620150	B.16
SAIL-M12BG-3S1.5U	1867410150	B.18
SAIL-M12BG-4-1.5T	1968580150	B.11
SAIL-M12BG-4-1.5TDV	2812520150	B.51
SAIL-M12BG-4-1.5U	9457730150	B.6
SAIL-M12BG-4-1.5U	9457730000	B.6
SAIL-M12BG-4-1.5U	9457730150	B.11
SAIL-M12BG-4-1.5UGE	1092920150	B.11
SAIL-M12BG-4-1.5U	1925580150	B.6
SAIL-M12BG-4-1.5V	1925580000	B.6
SAIL-M12BG-4-1.5V	1925580150	B.11
SAIL-M12BG-4-10U	9457731000	B.6
SAIL-M12BG-4-10V	1925581000	B.6
SAIL-M12BG-4-2L2.0U	1094190200	B.16
SAIL-M12BG-4-3.0U	9457730300	B.6
SAIL-M12BG-4-3.0V	1925580300	B.6
SAIL-M12BG-4-5.0U	9457730500	B.6
SAIL-M12BG-4-5.0V	1925580500	B.6
SAIL-M12BG-4B-1.5U	1057750150	B.47
SAIL-M12BG-4S1.5U	1812540150	B.18
SAIL-M12BG-5-1.5T	1021670150	B.11
SAIL-M12BG-5-1.5TDV	2812640150	B.51
SAIL-M12BG-5-1.5TVV	2812750150	B.51
SAIL-M12BG-5-1.5U	9457910150	B.7
SAIL-M12BG-5-1.5U	9457910000	B.7
SAIL-M12BG-5-1.5U	9457910150	B.11
SAIL-M12BG-5-1.5UGE	1092930150	B.11
SAIL-M12BG-5-1.5U	1925590150	B.7
SAIL-M12BG-5-1.5V	1925590000	B.7
SAIL-M12BG-5-1.5V	1925590150	B.11
SAIL-M12BG-5-10U	9457911000	B.7
SAIL-M12BG-5-10V	1925591000	B.7
SAIL-M12BG-5-10U	9457910300	B.7
SAIL-M12BG-5-3.0V	1925590300	B.7
SAIL-M12BG-5-3.0U	9457910500	B.7
SAIL-M12BG-5-5.0V	1925590500	B.7
SAIL-M12BG-5B-1.5U	1061880150	B.47
SAIL-M12BG-5S1.5U	9456140150	B.18
SAIL-M12BG-8-1.5U	1865870150	B.14
SAIL-M12BG-8S1.5U	1890520150	B.15
SAIL-M12BG-9-USB-1.5U	1962800150	B.35
SAIL-M12BG-CD-1.5A	1964690150	L50
SAIL-M12BG-CD-1.5B	1060120150	L50
SAIL-M12BG-K-1.5P	2455150150	D.6
SAIL-M12BG-K-10P	2455151000	D.6
SAIL-M12BG-K-3.0P	2455150300	D.6
SAIL-M12BG-K-5.0P	2455150500	D.6
SAIL-M12BG-L-1.5PGR	2455330150	D.4
SAIL-M12BG-L-10PGR	2455331000	D.4
SAIL-M12BG-L-3.0PGR	2455330300	D.4
SAIL-M12BG-L-5.0PGR	2455330500	D.4
SAIL-M12BG-PB-1.5D	1873320150	L.4
SAIL-M12BG-S-1.5P	2050160150	D.8
SAIL-M12BG-S-10P	2050161000	D.8
SAIL-M12BG-S-3.0P	2050160300	D.8
SAIL-M12BG-S-5.0P	2050160500	D.8
SAIL-M12BG-S3-1.5P	2706670150	D.8
SAIL-M12BG-S3-10P	2706671000	D.8
SAIL-M12BG-S3-3.0P	2706670300	D.8
SAIL-M12BG-S3-5.0P	2706670500	D.8
SAIL-M12BG-T-1.5H	2050680150	D.10
SAIL-M12BG-T-1.5P	2050490150	D.10
SAIL-M12BG-T-10H	2050681000	D.10
SAIL-M12BG-T-10P	2050491000	D.10
SAIL-M12BG-T-3.0H	2050680300	D.10
SAIL-M12BG-T-3.0P	2050490300	D.10
SAIL-M12BG-T-5.0H	2050680500	D.10
SAIL-M12BG-T-5.0P	2050490500	D.10
SAIL-M12BG-TS-5.0U	2671670500	D.12
SAIL-M12BG-USB-3.0U	1288820300	B.35
SAIL-M12BW-12-1.5U	1898240150	B.14
SAIL-M12BW-12S1.5U	1424280150	B.15
SAIL-M12BW-3-1.5T	1968560150	B.11
SAIL-M12BW-3-1.5U	9457320150	B.7
SAIL-M12BW-3-1.5U	9457320000	B.7
SAIL-M12BW-3-1.5U	9457320150	B.11
SAIL-M12BW-3-1.5UGE	1092940150	B.11
SAIL-M12BW-3-1.5V	1925630150	B.7
SAIL-M12BW-3-1.5V	1925630000	B.7
SAIL-M12BW-3-1.5U	1925630150	B.11
SAIL-M12BW-3-10V	9457321000	B.7
SAIL-M12BW-3-3.0U	1925631000	B.7
SAIL-M12BW-3-3.0V	1925630300	B.7
SAIL-M12BW-3-5.0U	9457320500	B.7

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SAIL-M12BW-3B-1.5U	1061890150	B.47
SAIL-M12BW-3L1.5T	1004330150	B.16
SAIL-M12BW-3L1.5U	9457800150	B.8
SAIL-M12BW-3L1.5U	9457800000	B.8
SAIL-M12BW-3L1.5U	9457800150	B.16
SAIL-M12BW-3L1.5UGE	1114880150	B.16
SAIL-M12BW-3L1.5V	1925460150	B.8
SAIL-M12BW-3L1.5V	1925460000	B.8
SAIL-M12BW-3L1.5V	1925460150	B.16
SAIL-M12BW-3L10U	9457801000	B.8
SAIL-M12BW-3L10V	1925461000	B.8
SAIL-M12BW-3L3.0U	9457800300	B.8
SAIL-M12BW-3L3.0V	1925460300	B.8
SAIL-M12BW-3L5.0U	9457800500	B.8
SAIL-M12BW-3L5.0V	1925460500	B.8
SAIL-M12BW-3S1.5U	1906950150	B.18
SAIL-M12BW-4-1.5T	1968570150	B.11
SAIL-M12BW-4-1.5TDV	2812540150	B.51
SAIL-M12BW-4-1.5U	9457740150	B.7
SAIL-M12BW-4-1.5U	9457740000	B.7
SAIL-M12BW-4-1.5U	9457740150	B.11
SAIL-M12BW-4-1.5UGE	1092960150	B.11
SAIL-M12BW-4-1.5V	1925640150	B.7
SAIL-M12BW-4-1.5V	1925640000	B.7
SAIL-M12BW-4-1.5V	1925640150	B.11
SAIL-M12BW-4-10U	9457741000	B.7
SAIL-M12BW-4-10V	1925641000	B.7
SAIL-M12BW-4-2L1.5T	1007000150	B.16
SAIL-M12BW-4-2L1.5U	9456380150	B.8
SAIL-M12BW-4-2L1.5U	9456380000	B.8
SAIL-M12BW-4-2L1.5U	9456380150	B.16
SAIL-M12BW-4-2L1.5UGE	1092950150	B.16
SAIL-M12BW-4-2L1.5V	1925470150	B.8
SAIL-M12BW-4-2L1.5V	1925470000	B.8
SAIL-M12BW-4-2L1.5V	1925470150	B.16
SAIL-M12BW-4-2L10U	9456381000	B.8
SAIL-M12BW-4-2L10V	1925471000	B.8
SAIL-M12BW-4-2L3.0U	9456380300	B.8
SAIL-M12BW-4-2L3.0V	1925470300	B.8
SAIL-M12BW-4-2L5.0U	9456380500	B.8
SAIL-M12BW-4-2L5.0V	1925470500	B.8
SAIL-M12BW-4-3.0U	9457740300	B.7
SAIL-M12BW-4-3.0V	1925640300	B.7
SAIL-M12BW-4-3L1.5U	1963940150	B.16
SAIL-M12BW-4-3L1.5V	1963960150	B.16
SAIL-M12BW-4-3LR1.5TDV	2812530150	B.52
SAIL-M12BW-4-5.0U	9457740500	B.7
SAIL-M12BW-4-5.0V	1925640500	B.7
SAIL-M12BW-4B-1.5U	1061900150	B.47
SAIL-M12BW-4S1.5U	1808970150	B.18
SAIL-M12BW-5-1.5T	1021690150	B.11
SAIL-M12BW-5-1.5TDV	2812680150	B.51
SAIL-M12BW-5-1.5TVV	2812780150	B.51
SAIL-M12BW-5-1.5U	9457690150	B.7
SAIL-M12BW-5-1.5U	9457690000	B.7
SAIL-M12BW-5-1.5U	9457690150	B.11
SAIL-M12BW-5-1.5UGE	1092970150	B.11
SAIL-M12BW-5-1.5V	1925650150	B.7
SAIL-M12BW-5-1.5V	1925650000	B.7
SAIL-M12BW-5-1.5V	1925650150	B.11
SAIL-M12BW-5-10U	9457691000	B.7
SAIL-M12BW-5-10V	1925651000	B.7
SAIL-M12BW-5-3.0U	9457690300	B.7
SAIL-M12BW-5-3.0V	1925650300	B.7
SAIL-M12BW-5-3LR1.5TDV	2812670150	B.52
SAIL-M12BW-5-3LR1.5TP	1282890150	B.17
SAIL-M12BW-5-3LW1.5TP	1022930150	B.17
SAIL-M12BW-5-5.0U	9457690500	B.7
SAIL-M12BW-5-5.0V	1925650500	B.7
SAIL-M12BW-5B-1.5U	1057760150	B.47
SAIL-M12BW-5S1.5U	1906450150	B.18
SAIL-M12BW-8-1.5U	1883460150	B.14
SAIL-M12BW-8S1.5U	1275470150	B.15
SAIL-M12BW-CD-1.5A	1061980150	L50
SAIL-M12BW-CD-1.5B	1062180150	L50
SAIL-M12BW-K-1.5P	2455190150	D.6
SAIL-M12BW-K-10P	2455191000	D.6
SAIL-M12BW-K-3.0P	2455190300	D.6
SAIL-M12BW-K-5.0P	2455190500	D.6
SAIL-M12BW-L-1.5PGR	2455200150	D.4
SAIL-M12BW-L-10PGR	2455201000	D.4
SAIL-M12BW-L-3.0PGR	2455200300	D.4
SAIL-M12BW-L-5.0PGR	2455200500	D.4
SAIL-M12BW-PB-1.5D	1062300150	L.4
SAIL-M12BW-S-1.5P	2050210150	D.8
SAIL-M12BW-S-10P	2050211000	D.8
SAIL-M12BW-S-3.0P	2050210300	D.8
SAIL-M12BW-S-5.0P	2050210500	D.8
SAIL-M12BW-S3-1.5P	2050010150	D.8
SAIL-M12BW-S3-10P	2050011000	D.8
SAIL-M12BW-S3-3.0P	2050010300	D.8
SAIL-M12BW-S3-5.0P	2050010500	D.8
SAIL-M12BW-T-1.5H	2050690150	D.10
SAIL-M12BW-T-1.5P	2050560150	D.10
SAIL-M12BW-T-10H	2050691000	D.10
SAIL-M12BW-T-10P	2050561000	D.10
SAIL-M12BW-T-3.0H	2050690300	D.10
SAIL-M12BW-T-3.0P	2050560300	D.10

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SAIL-M12BW-T-5.0H	2050690500	D.10
SAIL-M12BW-T-5.0P	2050560500	D.10
SAIL-M12G-12-1.5U	1311700150	B.14
SAIL-M12G-3-1.5T	1021750150	B.11
SAIL-M12G-3-1.5U	9457810150	B.4
SAIL-M12G-3-1.5U	9457810000	B.4
SAIL-M12G-3-1.5U	9457810150	B.11
SAIL-M12G-3-1.5UGE	1092980150	B.11
SAIL-M12G-3-1.5V	1925430150	B.4
SAIL-M12G-3-1.5V	1925430000	B.4
SAIL-M12G-3-1.5V	1925430150	B.11
SAIL-M12G-3-10U	9457811000	B.4
SAIL-M12G-3-10V	1925431000	B.4
SAIL-M12G-3-3.0U	9457810300	B.4
SAIL-M12G-3-3.0V	1925430300	B.4
SAIL-M12G-3-5.0U	9457810500	B.4
SAIL-M12G-3-5.0V	1925430500	B.4
SAIL-M12G-3B-1.5U	1967770150	B.47
SAIL-M12G-3S1.5U	1906470150	B.18
SAIL-M12G-4-1.5T	1021770150	B.11
SAIL-M12G-4-1.5TDV	2812550150	B.51
SAIL-M12G-4-1.5U	9456100150	B.4
SAIL-M12G-4-1.5U	9456100000	B.4
SAIL-M12G-4-1.5U	9456100150	B.11
SAIL-M12G-4-1.5UGE	1077750150	B.11
SAIL-M12G-4-1.5V	1925440150	B.4
SAIL-M12G-4-1.5V	1925440000	B.4
SAIL-M12G-4-1.5V	1925440150	B.11
SAIL-M12G-4-10U	9456101000	B.4
SAIL-M12G-4-10V	1925441000	B.4
SAIL-M12G-4-3.0U	9456100300	B.4
SAIL-M12G-4-3.0V	1925440300	B.4
SAIL-M12G-4-5.0U	9456100500	B.4
SAIL-M12G-4-5.0V	1925440500	B.4
SAIL-M12G-4B-1.5U	1057780150	B.47
SAIL-M12G-4S1.5U	1906480150	B.18
SAIL-M12G-5-1.5T	1021650150	B.11
SAIL-M12G-5-1.5TDV	2812690150	B.51
SAIL-M12G-5-1.5U	9457610150	B.4
SAIL-M12G-5-1.5U	9457610000	B.4
SAIL-M12G-5-1.5U	9457610150	B.11
SAIL-M12G-5-1.5UGE	1092990150	B.11
SAIL-M12G-5-1.5V	1925450150	B.4
SAIL-M12G-5-1.5V	1925450000	B.4
SAIL-M12G-5-1.5V	1925450150	B.11
SAIL-M12G-5-10U	9457611000	B.4
SAIL-M12G-5-10V	1925451000	B.4
SAIL-M12G-5-3.0U	9457610300	B.4
SAIL-M12G-5-3.0V	1925450300	B.4
SAIL-M12G-5-5.0U	9457610500	B.4
SAIL-M12G-5-5.0V	1925450500	B.4
SAIL-M12G-5B-1.5U	1057790150	B.47
SAIL-M12G-5S1.5U	1926690150	B.18
SAIL-M12G-8-1.5U	1279410150	B.14
SAIL-M12G-8S1.5U	1279430150	B.15
SAIL-M12G-CD-1.5A	1964700150	L50
SAIL-M12G-CD-1.5B	1060110150	L50
SAIL-M12G-K-1.5P	2455210150	D.6
SAIL-M12G-K-10P	2455211000	D.6
SAIL-M12G-K-3.0P	2455210300	D.6
SAIL-M12G-K-5.0P	2455210500	D.6
SAIL-M12G-L-1.5PGR	2455220150	D.4
SAIL-M12G-L-10PGR	2455221000	D.4
SAIL-M12G-L-3.0PGR	2455220300	D.4
SAIL-M12G-L-5.0PGR	2455220500	D.4
SAIL-M12G-PB-1.5D	1873300150	L.4
SAIL-M12G-S-1.5P	2050230150	D.8
SAIL-M12G-S-10P	2050231000	D.8
SAIL-M12G-S-3.0P	2050230300	D.8
SAIL-M12G-S-5.0P	2050230500	D.8
SAIL-M12G-S3-1.5P	2706680150	D.8
SAIL-M12G-S3-10P	2706681000	D.8
SAIL-M12G-S3-3.0P	2706680300	D.8
SAIL-M12G-S3-5.0P	2706680500	D.8
SAIL-M12G-T-1.5H	2050700150	D.10
SAIL-M12G-T-1.5P	2050640150	D.10
SAIL-M12G-T-10H	2050701000	D.10
SAIL-M12G-T-10P	2050641000	D.10
SAIL-M12G-T-3.0H	2050700300	D.10
SAIL-M12G-T-3.0P	2050640300	D.10
SAIL-M12G-T-5.0H	2050700500	D.10
SAIL-M12G-T-5.0P	2050640500	D.10
SAIL-M12G-TS-5.0U	2617670500	D.12
SAIL-M12G-USB-3.0U	1268520000	B.35
SAIL-M12GM12G-12-1.5U	1964400150	B.14
SAIL-M12GM12G-2-4-1.5U	9456990150	B.29
SAIL-M12GM12G-2-4-1.5UGE	1093000150	B.29
SAIL-M12GM12G-2-4-1.5V	1925330150	B.29
SAIL-M12GM12G-3-1.5T	1021710150	B.27
SAIL-M12GM12G-3-1.5U	9457230150	B.6
SAIL-M12GM12G-3-1.5U	9457230000	B.6
SAIL-M12GM12G-3-1.5U	9457230150	B.27
SAIL-M12GM12G-3-1.5UGE	1093010150	B.27
SAIL-M12GM12G-3-1.5V	1925300000	B.6
SAIL-M12GM12G-3-1.5V	1925300000	B.6
SAIL-M12GM12G-3-10U	9457231000	B.6
SAIL-M12GM12G-3-10V	1925301000	B.6
SAIL-M12GM12G-3-3.0U	9457230300	B.6

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SAIL-M8BG-3S1.5U	1906600150	B.23
SAIL-M8BG-4-1.5TV0	2813030150	B.55
SAIL-M8BG-4-1.5U	9457850150	B.5
SAIL-M8BG-4-1.5U	9457850150	B.20
SAIL-M8BG-4-1.5UGE	1093200150	B.20
SAIL-M8BG-4-1.5V	1927260150	B.5
SAIL-M8BG-4-1.5V	1927260000	B.5
SAIL-M8BG-4-1.5V	1927260150	B.20
SAIL-M8BG-4-10U	9457851000	B.5
SAIL-M8BG-4-10V	1927261000	B.5
SAIL-M8BG-4-3.0U	9457850300	B.5
SAIL-M8BG-4-3.0V	1927260300	B.5
SAIL-M8BG-4-5.0U	9457850500	B.5
SAIL-M8BG-4-5.0V	1927260500	B.5
SAIL-M8BG-4S-1.5U	1981910150	L52
SAIL-M8BG-4S-10U	1981911000	L52
SAIL-M8BG-4S-3.0U	1981910300	L52
SAIL-M8BG-4S-5.0U	1981910500	L52
SAIL-M8BG-4S1.5U	1906610150	B.23
SAIL-M8BG-5-1.5U	2466650150	B.21
SAIL-M8BG-8-1.5U	1555370150	B.21
SAIL-M8BGR-3-1.5U	1827020150	B.22
SAIL-M8BGR-3-1.5V	1948710150	B.22
SAIL-M8BGR-4-1.5U	1948530150	B.22
SAIL-M8BGR-4-1.5V	1948730150	B.22
SAIL-M8BGS-3-X.XU	9457450000	B.4
SAIL-M8BW-3-1.5TV0	2812940150	B.55
SAIL-M8BW-3-1.5U	9457380150	B.5
SAIL-M8BW-3-1.5U	9457380150	B.20
SAIL-M8BW-3-1.5UGE	1093220150	B.20
SAIL-M8BW-3-1.5V	1927320150	B.5
SAIL-M8BW-3-1.5V	1927320000	B.5
SAIL-M8BW-3-1.5V	1927320150	B.20
SAIL-M8BW-3-10U	9457381000	B.5
SAIL-M8BW-3-10V	1927321000	B.5
SAIL-M8BW-3-3.0U	9457380300	B.5
SAIL-M8BW-3-3.0V	1927320300	B.5
SAIL-M8BW-3-5.0U	9457380500	B.5
SAIL-M8BW-3-5.0V	1927320500	B.5
SAIL-M8BW-3L1.5TV0	2812910150	B.56
SAIL-M8BW-3L1.5U	9457460150	B.5
SAIL-M8BW-3L1.5U	9457460000	B.5
SAIL-M8BW-3L1.5U	9457460150	B.24
SAIL-M8BW-3L1.5UGE	1093210150	B.24
SAIL-M8BW-3L1.5V	1927350150	B.5
SAIL-M8BW-3L1.5V	1927350000	B.5
SAIL-M8BW-3L1.5V	1927350150	B.24
SAIL-M8BW-3L10U	9457461000	B.5
SAIL-M8BW-3L10V	1927351000	B.5
SAIL-M8BW-3L3.0U	9457460300	B.5
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SAIL-M8BW-3L5.0U	9457460500	B.5
SAIL-M8BW-3L5.0V	1927350500	B.5
SAIL-M8BW-3S1.5U	1906620150	B.23
SAIL-M8BW-4-1.5TV0	2813040150	B.55
SAIL-M8BW-4-1.5U	9456150150	B.5
SAIL-M8BW-4-1.5U	9456150150	B.20
SAIL-M8BW-4-1.5UGE	1093240150	B.20
SAIL-M8BW-4-1.5V	1927340150	B.5
SAIL-M8BW-4-1.5V	1927340000	B.5
SAIL-M8BW-4-1.5V	1927340150	B.20
SAIL-M8BW-4-10U	9456151000	B.5
SAIL-M8BW-4-10V	1927341000	B.5
SAIL-M8BW-4-3.0U	9456150300	B.5
SAIL-M8BW-4-3.0V	1927340300	B.5
SAIL-M8BW-4-5.0U	9456150500	B.5
SAIL-M8BW-4-5.0V	1927340500	B.5
SAIL-M8BW-4-X.XU	9456150000	B.5
SAIL-M8BW-4L1.5U	1906400150	B.24
SAIL-M8BW-4L1.5UGE	1093230150	B.24
SAIL-M8BW-4L1.5V	1927360150	B.24
SAIL-M8BW-4S1.5U	1906630150	B.23
SAIL-M8BW-5-1.5U	2466640150	B.21
SAIL-M8BW-8-1.5U	1555380150	B.21
SAIL-M8BWR-3-1.5U	1827010150	B.22
SAIL-M8BWR-3-1.5V	1948720150	B.22
SAIL-M8BWR-4-1.5U	1948540150	B.22
SAIL-M8BWR-4-1.5V	1948740150	B.22
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SAIL-M8G-3-1.5U	1824590150	B.4
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SAIL-M8G-3-3.0U	1824590300	B.4
SAIL-M8G-3-3.0V	1927230300	B.4
SAIL-M8G-3-5.0U	1824590500	B.4
SAIL-M8G-3-5.0V	1927230500	B.4
SAIL-M8G-3-X.XU	1824590000	B.4
SAIL-M8G-3S1.5U	1906560150	B.23
SAIL-M8G-4-1.5U	1906270150	B.4
SAIL-M8G-4-1.5V	1906270150	B.20
SAIL-M8G-4-1.5V	1927250150	B.4
SAIL-M8G-4-1.5V	1927250000	B.4
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SAIL-M8G-4-5.0U	1906270500	B.4
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SAIL-M8G-4S0.5UIE	1160820050	L61
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SAIL-M8GM12G-3-3.0U	1937950300	B.6
SAIL-M8GM12G-3-3.0V	1938230300	B.6
SAIL-M8GM12G-3-5.0U	1937950500	B.6
SAIL-M8GM12G-3-5.0V	1938230500	B.6
SAIL-M8GM12G-4-1.5U	1937980150	B.6
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SAIL-M8GM8G-4-3.0V	1927160300	B.5
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WIL-VRGBW-FPPF-XXXX-X400-X	3138110000	H.6
WIL-VRGBW-FPPF-XXXX-X465-X	3101690000	H.6
WIL-VRGBW-FPPF-XXXX-X600-X	3138100000	H.6
WIL-VRGBW-FPPF-XXXX-X800-X	3138090000	H.6
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1004320150	SAIL-M12GM12W-3L1.5T	B.30
1004330150	SAIL-M12BW-3L1.5T	B.16
1005270150	SAIL-ZW-M12BW-3-1.5U	B.41
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1007000150	SAIL-M12BW-4-2L1.5T	B.16
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1007070000	SAIBWS-K-5A-6/8-M12	C.10
1007080000	SAISGS-K-5A-6/8-M12	C.10
1007090000	SAIBGS-K-5A-6/8-M12	C.10
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1010070000	SAISGS-M-4A-3-5/5.5-M8-4F	C.6
1010070000	SAISGS-M-4A-3-5/5.5-M8-4F	C.17
1010080000	SAIBGS-M-3A-3-5/5.5-M8-4F	C.6
1010080000	SAIBGS-M-3A-3-5/5.5-M8-4F	C.17
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1010840015	IE-C5DB4RE0015MCSXXX-X	L.67
1010840030	IE-C5DB4RE0030MCSXXX-X	L.67
1010840050	IE-C5DB4RE0050MCSXXX-X	L.67
1010840100	IE-C5DB4RE0100MCSXXX-X	L.67
1010850015	IE-C5DB4RE0015MCSMCS-E	L.66
1010850030	IE-C5DB4RE0030MCSMCS-E	L.66
1010850050	IE-C5DB4RE0050MCSMCS-E	L.66
1010850100	IE-C5DB4RE0100MCSMCS-E	L.66
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1020930150	SAIL-M12GM12W-4-3LW1.5T	B.30
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1021280000	SAISWS-P-3A-4/6-M12	C.7
1021290000	SAISWS-P-3A-6/8-M12	C.7
1021310000	SAIBWS-P-3A-4/6-M12	C.5
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1021320000	SAIBWS-P-3A-6/8-M12	C.7
1021470000	SAISGS-P-3A-4/6-M12	C.5
1021470000	SAISGS-P-3A-4/6-M12	C.7
1021480000	SAISGS-P-3A-6/8-M12	C.5
1021480000	SAISGS-P-3A-6/8-M12	C.7
1021490000	SAIBGS-P-3A-4/6-M12	C.5
1021490000	SAIBGS-P-3A-4/6-M12	C.7
1021510000	SAIBGS-P-3A-6/8-M12	C.5
1021510000	SAIBGS-P-3A-6/8-M12	C.7
1021650150	SAIL-M12G-5-1.5T	B.11
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1021670150	SAIL-M12BG-5-1.5T	B.11
1021690150	SAIL-M12BW-5-1.5T	B.11
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1021750150	SAIL-M12G-3-1.5T	B.11
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1025230000	SFC 3/12 MC NE GE	M.17
1025240000	SFC 3/12 MC NE RT	M.17
1025250000	SFC 3/12 MC NE BL	M.17
1025260000	SFC 3/21 MC NE WS	M.17
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1025290000	SFC 3/21 MC NE RT	M.17
1025300000	SFC 3/21 MC NE BL	M.17
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1025940030	IE-C5DD4UG0030MCSXXX-X	L.63
1025940050	IE-C5DD4UG0050MCSXXX-X	L.63
1025940100	IE-C5DD4UG0100MCSXXX-X	L.63
1025950005	IE-C5DD4UG0005MCSMCS-E	L.62
1025950015	IE-C5DD4UG0015MCSMCS-E	L.62
1025950030	IE-C5DD4UG0030MCSMCS-E	L.62
1025950050	IE-C5DD4UG0050MCSMCS-E	L.62
1025950100	IE-C5DD4UG0100MCSMCS-E	L.62
1026190150	SAIL-VSB-M8W-3-1.5U	B.66
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1044470050	IE-C5DD4UG0050MCSA70-E	L.63
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1057760150	SAIL-M12BW-5B-1.5U	B.47
1057770150	SAIL-M12G-3B-1.5U	B.47
1057780150	SAIL-M12G-4B-1.5U	B.47
1057790150	SAIL-M12G-5B-1.5U	B.47
1057800150	SAIL-M12W-3B-1.5U	B.47
1057810150	SAIL-M12W-4B-1.5U	B.47
1057820150	SAIL-M12W-5B-1.5U	B.47
1057830150	SAIL-M12GM12G-3B-1.5U	B.48
1057840150	SAIL-M12GM12G-4B-1.5U	B.48
1057850150	SAIL-M12GM12G-5B-1.5U	B.48
1057870150	SAIL-M12WM12G-3B-1.5U	B.48
1057880150	SAIL-M12WM12G-4B-1.5U	B.48
1057890150	SAIL-M12WM12G-5B-1.5U	B.48
1057900150	SAIL-M12GM12W-3B-1.5U	B.48
1057910150	SAIL-M12GM12W-4B-1.5U	B.48
1057920150	SAIL-M12GM12W-5B-1.5U	B.48
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1058630000	SAIH-CD-2X0-3A/2X0 22-PUR	L.53
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1059330030	IE-C5DD4UG0030MSSMCS-E	L.62
1059330050	IE-C5DD4UG0050MSSMCS-E	L.62
1059330100	IE-C5DD4UG0100MSSMCS-E	L.62
1059340015	IE-C5DB4RE0015MSSMCS-E	L.66
1059340030	IE-C5DB4RE0030MSSMCS-E	L.66
1059340050	IE-C5DB4RE0050MSSMCS-E	L.66
1059340100	IE-C5DB4RE0100MSSMCS-E	L.66
1059430000	SAI-8-M-4P M12 DIP	E.13
1059470150	SAIL-M12GM12W-3S1.5U	B.28
1059480150	SAIL-M12GM12W-4S1.5U	B.28
1059540150	SAIL-M12GM12W-5S1.5U	B.28
1059650150	SAIL-M12W-4S1.5U	B.18
1059720150	SAIL-M12WM12W-3S1.5U	B.28
1059730150	SAIL-M12WM12W-4S1.5U	B.28
1059740150	SAIL-M12WM12W-5S1.5U	B.28
1059750015	IE-C5DD4UG0015MCAXXX-X	L.65
1059750030	IE-C5DD4UG0030MCAXXX-X	L.65
1059750050	IE-C5DD4UG0050MCAXXX-X	L.65
1059750100	IE-C5DD4UG0100MCAXXX-X	L.65
1059770015	IE-C5DD4UG0015MCSMCA-E	L.64
1059770030	IE-C5DD4UG0030MCSMCA-E	L.64
1059770050	IE-C5DD4UG0050MCSMCA-E	L.64
1059770100	IE-C5DD4UG0100MCSMCA-E	L.64
1059890015	IE-C5DD4UG0015MCAMCA-E	L.64
1059890030	IE-C5DD4UG0030MCAMCA-E	L.64
1059890050	IE-C5DD4UG0050MCAMCA-E	L.64
1059890100	IE-C5DD4UG0100MCAMCA-E	L.64
1059890015	IE-C5DB4RE0015MCAXXX-X	L.69
1059890030	IE-C5DB4RE0030MCAXXX-X	L.69
1059890050	IE-C5DB4RE0050MCAXXX-X	L.69
1059900100	IE-C5DB4RE0100MCAXXX-X	L.69
1059940015	IE-C5DB4RE0015MCSMCA-E	L.68
1059940030	IE-C5DB4RE0030MCSMCA-E	L.68
1059940050	IE-C5DB4RE0050MCSMCA-E	L.68
1059940100	IE-C5DB4RE0100MCSMCA-E	L.68
1059970015	IE-C5DB4RE0015MCAMCA-E	L.68
1059970030	IE-C5DB4RE0030MCAMCA-E	L.68
1059970050	IE-C5DB4RE0050MCAMCA-E	L.68
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1060130150	SAIL-M12GM12G-CD-1.5B	L.51
1060730000	SAI-Y-4S-M12/M12	C.40
1061880150	SAIL-M12BG-5B-1.5U	B.47
1061890150	SAIL-M12BW-3B-1.5U	B.47
1061900150	SAIL-M12BW-4B-1.5U	B.47
1061910150	SAIL-M12WM12W-3B-1.5U	B.48
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1061970150	SAIL-M12W-PB-1.5U	L.4
1061980150	SAIL-M12BW-CD-1.5A	L.50
1061990150	SAIL-M12GM12W-CD-1.5A	L.51
1062000000	SFC 2.5/12 MC NE WS	M.17
1062010000	SFC 2.5/12 MC NE GE	M.17
1062020000	SFC 2.5/12 MC NE RT	M.17
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1062170150	SAIL-M12W-CD-1.5B	L.50
1062180150	SAIL-M12BW-CD-1.5B	L.50
1062190150	SAIL-M12GM12W-CD-1.5B	L.51
1062210150	SAIL-M12WM12W-CD-1.5B	L.51
1062220150	SAIL-M12W-CD-1.5A	L.50
1062300150	SAIL-M12BW-PB-1.5U	L.4
1062310150	SAIL-M12GM12W-PB-1.5U	L.5
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1070630000	SAI-4-F 5P M12 L 5M	E.10
1070640000	SAI-4-F 5P M12 L 10M	E.6
1070640000	SAI-4-F 5P M12 L 10M	E.10
1070650000	SAI-4-F 4P M12 L 5M	E.6
1070650000	SAI-4-F 4P M12 L 5M	E.10
1070660000	SAI-4-F 4P M12 L 10M	E.6
1070660000	SAI-4-F 4P M12 L 10M	E.10
1071990150	SAIL-M12WM12G-4-1.5U	B.6
1071990300	SAIL-M12WM12G-4-3.0U	B.6
1071990500	SAIL-M12WM12G-4-5.0U	B.6
1071991000	SAIL-M12WM12G-4-10U	B.6
1073020000	SAIL-M8WM8G-3-1.5U	B.4
1073020150	SAIL-M8WM8G-3-1.5U	B.4
1073020300	SAIL-M8WM8G-3-3.0U	B.4
1073020500	SAIL-M8WM8G-3-5.0U	B.4
1073021000	SAIL-M8WM8G-3-10U	B.4
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1075410100	FBCEX PA M12 MA-FMA 1M	L.25
1075450100	FBCEX PA M12 MA-FM 1M	L.25
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1075620100	FBC PA M12 M-FMA 1M	L.25
1076520100	FBCEX PA M12 M-FMA 1M	L.24
1076530100	FBC PA M12 FMA 1M	L.24
1076540100	FBC PA M12 MA 1M	L.24
1076550100	FBC PA M12 MA-FMA 1M	L.25
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1077750150	SAIL-M12G-4-1.5UGE	B.11
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1092930150	SAIL-M12BG-5-1.5UGE	B.11
1092940150	SAIL-M12BW-3-1.5UGE	B.11
1092950150	SAIL-M12BW-4-2L1.5UGE	B.16
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1092970150	SAIL-M12BW-5-1.5UGE	B.11
1092980150	SAIL-M12G-3-1.5UGE	B.11
1092990150	SAIL-M12G-5-1.5UGE	B.11
1093000150	SAIL-M12GM12G-2/4-1.5UGE	B.29
1093010150	SAIL-M12GM12G-3-1.5UGE	B.27
1093020150	SAIL-M12GM12G-4-1.5UGE	B.27
1093030150	SAIL-M12GM12G-5-1.5UGE	B.27
1093040150	SAIL-M12GM12W-2/4-1.5UGE	B.29
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1093190150	SAIL-M8BG-3-1.5UGE	B.20
1093200150	SAIL-M8BG-4-1.5UGE	B.20
1093210150	SAIL-M8BW-3L1.5UGE	B.24
1093220150	SAIL-M8BW-3-1.5UGE	B.20
1093230150	SAIL-M8BW-4L1.5UGE	B.24
1093240150	SAIL-M8BW-4-1.5UGE	B.20
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1170400000	SAI-M23-KSC-L-0.75-2.5	K.21
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1170410000	SAI-M23-KSC-L2-5.4-0	K.21
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1254680000	SCREWTY SW19	M.5
1258930000	SAIBGS-M-8A-6/8-M12	C.12
1258940000	SAISGS-M-8A-6/8-M12	C.12
1259010150	SAIL-M16BW-12-1.5U	B.25

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1264180000	PB-DP SUB-D M12 180	L.15
1265920000	SAI-6-F 4P M12 L 5M	E.6
1265920000	SAI-6-F 4P M12 L 5M	E.11
1265930000	SAI-6-F 4P M12 L 10M	E.6
1265930000	SAI-6-F 4P M12 L 10M	E.11
1265940000	SAI-6-S12 4P M12 L	E.6
1265940000	SAI-6-S12 4P M12 L	E.12
1267330000	SAI-4-S8 4P M12 L	E.6
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1268520000	SAIL-M12G-USB-3.0U	B.35

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1275750000	SAIBW-5/8S-M12 5P A-ZF	C.5
1276060150	SAIL-M12W-8S1.5U	B.15
1276450150	SAIL-VSBD180-M8G-3-1.5U	B.66
1279410150	SAIL-M12G-8-1.5U	B.14
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1279460150	SAIL-M12GM12G-8S1.5U	B.15
1279470150	SAIL-M12GM12W-8S1.5U	B.15
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1279480100	SAIE-M12B-PB-1.0U HW	L.6
1279480200	SAIE-M12B-PB-2.0U HW	L.6
1279480500	SAIE-M12B-PB-5.0U HW	L.6
1279490050	SAIE-M12S-PB-0.5U HW	L.6
1279490100	SAIE-M12S-PB-1.0U HW	L.6
1279490200	SAIE-M12S-PB-2.0U HW	L.6
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1283550000	SAIE-M12S-12-0.5U-FP-M16	C.49
1288000000	SAI-ADAPTER-M8/M8-3P/4P	C.44
1288820300	SAIL-M12BG-USB-3.0U	B.35
1289140000	SAIE-M12B-12-0.5U-FP-M16	C.49

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1291880000	SAIS-3/11-7/8	J.7
1291890000	SAISW-3/9-7/8	J.6
1291900000	SAISW-3/11-7/8	J.6
1291910000	SAIB-3/9-7/8	J.7
1291920000	SAIB-3/11-7/8	J.7
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1353740000	SAISGS-P-5A-8/10-M12	D.14
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1782760000	SAI-8-MH-5P M12 PI	E.23
1782760000	SAI-8-MH-5P M12 PI	E.25
1783410000	SAI-Y-5S B2-4 2M12	C.40
1783420000	SAI-Y-4-4/2-4 M12/8	C.41
1783430000	SAI-Y-5S PARA 2M12	C.40
1783430000	SAI-Y-5S PARA 2M12	1.9
1783460000	SAI-4/6/8-MH LEER	E.7
1783460000	SAI-4/6/8-MH LEER	E.34
1783490000	SAI-8-MM 5P M12	E.6
1783490000	SAI-8-MM 5P M12	E.23
1783490000	SAI-8-MM 5P M12	E.24
1783491000	SAI-8-MM 5P M12 UT	E.24
1783500000	SAI-4-MM 5P M12	E.6
1783500000	SAI-4-MM 5P M12	E.23
1783500000	SAI-4-MM 5P M12	E.24
1783510000	SAI-8-MMS 5P M12	E.6
1783510000	SAI-8-MMS 5P M12	E.23
1783510000	SAI-8-MMS 5P M12	E.24
1783520000	SAI-4-MMS 5P M12	E.6
1783520000	SAI-4-MMS 5P M12	E.23
1783520000	SAI-4-MMS 5P M12	E.24
1783530000	SAI-8-MMS 4P M12	E.6
1783530000	SAI-8-MMS 4P M12	E.23
1783530000	SAI-8-MMS 4P M12	E.24
1783540000	SAI-4-MMS 4P M12	E.6
1783540000	SAI-4-MMS 4P M12	E.24
1784030001	SAIBGI-P-3A-3/2/5-4-M8	C.6
1784030001	SAIBGI-P-3A-3/2/5-4-M8	C.31
1784040001	SAISGI-P-3A-3/2/5-4-M8	C.6
1784040001	SAISGI-P-3A-3/2/5-4-M8	C.31
1784050001	SAIBGI-P-4A-3/2/5-4-M8	C.6
1784050001	SAIBGI-P-4A-3/2/5-4-M8	C.31
1784060001	SAISGI-P-4A-3/2/5-4-M8	C.6
1784060001	SAISGI-P-4A-3/2/5-4-M8	C.31
1784500000	SAI-8-F 5P 20M 0.5/1.0U	E.9
1784510000	SAI-8-F 5P 15M 0.5/1.0U	E.9
1784740000	SAISGS-M-5A-6/8-M12	C.5
1784740000	SAISGS-M-5A-6/8-M12	C.11
1784740000	SAISGS-M-5A-6/8-M12	L.27
1784740000	SAISGS-M-5A-6/8-M12	L.54
1784740002	SAIBGZ-M-4A-6/8-M12	C.5
1784750000	SAIBGS-M-5A-6/8-M12	C.5
1784750000	SAIBGS-M-5A-6/8-M12	C.11
1784750000	SAIBGS-M-5A-6/8-M12	L.27
1784750000	SAIBGS-M-5A-6/8-M12	L.54
1784780000	SAIBM 5/8S M12 5P B-COD	C.5
1784780000	SAIBM 5/8S M12 5P B-COD	C.13
1784780000	SAIBM 5/8S M12 5P B-COD	L.9
1784790000	SAISM 5/8S M12 5P B-COD	C.5
1784790000	SAISM 5/8S M12 5P B-COD	C.13
1784790000	SAISM 5/8S M12 5P B-COD	L.9
1785100100	FBC PA M12 M-FM 1M	L.25
1785110100	FBC PA M12 FM 1M	L.24
1785120100	FBC PA M12 M 1M	L.24
1785130100	FBCEX PA M12 M-FM 1M	L.25
1785140100	FBCEX PA M12 FM 1M	L.24
1785150100	FBCEX PA M12 M 1M	L.24
1789190000	SAI-8-MF 4P PUR 10M M12	E.33

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1791450400	SAI-4/6/8-MHF 4P PUR 4M	E.33
1791450600	SAI-4/6/8-MHF 4P PUR 6M	E.33
1791450900	SAI-4/6/8-MHF 4P PUR 9M	E.33
1791451400	SAI-4/6/8-MHF 4P PUR14M	E.33
1791452000	SAI-4/6/8-MHF 4P PUR20M	E.33
1791452800	SAI-4/6/8-MHF 4P PUR28M	E.33
1791453400	SAI-4/6/8-MHF 4P PUR34M	E.33
1791460400	SAI-4/6/8-MHF 5P PUR 4M	E.33
1791460600	SAI-4/6/8-MHF 5P PUR 6M	E.33
1791460900	SAI-4/6/8-MHF 5P PUR 9M	E.33
1791461000	SAI-4/6/8-MHF 5P PUR 10M	E.33
1791461400	SAI-4/6/8-MHF 5P PUR14M	E.33
1791461600	SAI-4/6/8-MHF 5P PUR16M	E.33
1791462000	SAI-4/6/8-MHF 5P PUR20M	E.33
1791462800	SAI-4/6/8-MHF 5P PUR28M	E.33
1791463400	SAI-4/6/8-MHF 5P PUR34M	E.33
1791464000	SAI-4/6/8-MHF 5P PUR40M	E.33
1791465000	SAI-4/6/8-MHF 5P PUR50M	E.33
1791465500	SAI-4/6/8-MHF 5P PUR55M	E.33
1794850000	SAI-SK-M12 IDC	C.46
1794850000	SAI-SK-M12 IDC	E.19
1795020000	SAI-HDC-TOOL	E.19
1795470000	SAI-8-S 5P M12	E.6

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1813230000	SFC 0/21 MC SDR	M.17
1813240000	SFC 0/30 MC NE WS	M.17
1813250000	SFC 0/30 MC NE RT	M.17
1813260000	SFC 0/30 MC NE GE	M.17
1813270000	SFC 0/30 MC NE BL	M.17
1813280000	SFC 0/30 MC SDR	M.17
1814890000	SAIE-M12B-5-0.5U-PG9	C.50
1814990000	SAI-8-F 5P PNP-PNP 5M	E.29
1815670000	SAIL-M12WM12W-3-1.5U	B.7
1815670150	SAIL-M12WM12W-3-1.5U	B.27
1815670300	SAIL-M12WM12W-3-3.0U	B.7
1815670500	SAIL-M12WM12W-3-5.0U	B.7
1815671000	SAIL-M12WM12W-3-10U	B.7
1816610000	SAI-8-M 5P M12 OL2	E.8
1818090100	SAIS-M23-19P-AN-1,0M	K.23
1818140100	SAIB-M23-19P-AN-1,0M	K.23
1818160100	SAIS-M23-19P-ST-1,0M	K.23
1818180100	SAIB-M23-19P-ST-1,0M	K.23

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1821050000	SAIL-M12WM12G-3-1.5U	B.6
1821050150	SAIL-M12WM12G-3-1.5U	B.6
1821050300	SAIL-M12WM12G-3-3.0U	B.6
1821050500	SAIL-M12WM12G-3-5.0U	B.6
1821051000	SAIL-M12WM12G-3-10U	B.6
1824570000	SAIL-M8GM8G-3-X.XU	B.4
1824570150	SAIL-M8GM8G-3-1.5U	B.4
1824570150	SAIL-M8GM8G-3-1.5U	B.36
1824570300	SAIL-M8GM8G-3-3.0U	B.4
1824570500	SAIL-M8GM8G-3-5.0U	B.4
1824571000	SAIL-M8GM8G-3-10U	B.4
1824580000	SAIL-M8GM8W-3-X.XU	B.5
1824580150	SAIL-M8GM8W-3-1.5U	B.5
1824580150	SAIL-M8GM8W-3-1.5U	B.36
1824580300	SAIL-M8GM8W-3-3.0U	B.5
1824580500	SAIL-M8GM8W-3-5.0U	B.5
1824581000	SAIL-M8GM8W-3-10U	B.5
1824590000	SAIL-M8G-3-X.XU	B.4
1824590150	SAIL-M8G-3-1.5U	B.4
1824590150	SAIL-M8G-3-1.5U	B.20
1824590300	SAIL-M8G-3-3.0U	B.4
1824590500	SAIL-M8G-3-5.0U	B.4
1824591000	SAIL-M8G-3-10U	B.4
1826880000	SAI-Y-5S- M12/M12	C.40
1827010150	SAIL-M8BWR-3-1.5U	B.22
1827020150	SAIL-M8BGR-3-1.5U	B.22
1828610000	SAI-08LVVFC-4A-M08L-PNP-10U06	E.6
1828610000	SAI-08LVVFC-4A-M08L-PNP-10U06	E.41
1828620000	SAI-08LVVFC-4A-M08L-PNP-05U06	E.6
1828620000	SAI-08LVVFC-4A-M08L-PNP-05U06	E.41
1828630000	SAI-12LVVFC-3A-M08L-PNP-10U05	E.6
1828630000	SAI-12LVVFC-3A-M08L-PNP-10U05	E.41
1828640000	SAI-12LVVFC-3A-M08L-PNP-05U05	E.6
1828640000	SAI-12LVVFC-3A-M08L-PNP-05U05	E.41
1828650000	SAI-10LVVFC-3A-M08L-PNP-10U04	E.6
1828650000	SAI-10LVVFC-3A-M08L-PNP-10U04	E.41
1828660000	SAI-10LVVFC-3A-M08L-PNP-05U04	E.6
1828660000	SAI-10LVVFC-3A-M08L-PNP-05U04	E.41
1828670000	SAI-08LVVFC-3A-M08L-PNP-10U03	E.6
1828670000	SAI-08LVVFC-3A-M08L-PNP-10U03	E.41
1828680000	SAI-08LVVFC-3A-M08L-PNP-05U03	E.6
1828680000	SAI-08LVVFC-3A-M08L-PNP-05U03	E.41
1828690000	SAI-06LVVFC-3A-M08L-PNP-10U02	E.6
1828690000	SAI-06LVVFC-3A-M08L-PNP-10U02	E.41
1828700000	SAI-06LVVFC-3A-M08L-PNP-05U02	E.6
1828700000	SAI-06LVVFC-3A-M08L-PNP-05U02	E.41
1828710000	SAI-04LVVFC-3A-M08L-PNP-10U01	E.6
1828710000	SAI-04LVVFC-3A-M08L-PNP-10U01	E.41
1828720000	SAI-04LVVFC-3A-M08L-PNP-05U01	E.6
1828720000	SAI-04LVVFC-3A-M08L-PNP-05U01	E.41
1828730000	SAI-06LVP12-3A-M08L-PNP	E.6
1828730000	SAI-06LVP12-3A-M08L-PNP	E.39
1828740000	SAI-04LVP12-3A-M08L-PNP	E.6
1828740000	SAI-04LVP12-3A-M08L-PNP	E.39

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1836910000	SAIE-M12B-5-0.5U-M16	C.49
1836960000	SAIBGS-P-8A-6/8-M12	C.5
1836960000	SAIBGS-P-8A-6/8-M12	C.8
1836970000	SAISGS-P-8A-6/8-M12	C.5
1836970000	SAISGS-P-8A-6/8-M12	C.8
1837560000	SAIS-ZWW	C.9

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1845120150	SAIL-VSA-I-1.5U(0.5)	B.61
1845140150	SAIL-VSB-180-1.5U(0.5)	B.65
1845160150	SAIL-VSBD-180-1.5U(0.5)	B.65
1847560000	SAI-8-B 5P M12 SL	E.32
1847920000	SAI-8-S 4P FC	E.16
1847920000	SAI-8-S 4P FC	K.24
1847960000	SAI-4-S 4P FC	E.16
1847960000	SAI-4-S 4P FC	K.24
1847970000	SAI-4-S 5P FC	E.16
1847970000	SAI-4-S 5P FC	K.24
1848040000	SAI-8-S 5P FC	E.16

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1848040000	SAI-8-S 5P FC	K.24
18489670000	SAI-06LVVFC-4A-M08L-PNP-10U05	E.6
18489670000	SAI-06LVVFC-4A-M08L-PNP-10U05	E.41
1849680000	SAI-04LVVFC-4A-M08L-PNP-05U03	E.6
1849680000	SAI-04LVVFC-4A-M08L-PNP-05U03	E.41
1849690000	SAI-04LVVFC-4A-M08L-PNP-10U03	E.6
1849690000	SAI-04LVVFC-4A-M08L-PNP-10U03	E.41
1849700000	SAI-06LVVFC-4A-M08L-PNP-05U05	E.6
1849700000	SAI-06LVVFC-4A-M08L-PNP-05U05	E.41

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1852720000	SAISGI-P-3A-5.5/8-M12	C.28
1852730000	SAIBGI-P-3A-5.5/8-M12	C.5
1852730000	SAIBGI-P-3A-5.5/8-M12	C.28
1852740000	SAISGI-P-4A-5.5/8-M12	C.5
1852740000	SAISGI-P-4A-5.5/8-M12	C.28
1852750000	SAIBGI-P-4A-5.5/8-M12	C.28
1854000000	SAI-4-M 5P M12 PI	E.7
1856110000	SAIE-M12B-5-0.5U-FP-M16	C.49
1856120000	SAIE-M12S-5-0.5U-PG9	C.50
1856130000	SAIE-M8B-3-0.5U-FP-M8	C.52
1856140000	SAIE-M8B-4-0.5U-FP-M8	C.52
1856780000	MFF 10/6 MC NE WS	M.19
1857550000	SAIL-M8W-3-X.XU	B.4
1857550150	SAIL-M8W-3-1.5U	B.4
1857550150	SAIL-M8W-3-1.5U	B.20
1857550300	SAIL-M8W-3-3.0U	B.4
1857550500	SAIL-M8W-3-5.0U	B.4
1857551000	SAIL-M8W-3-10U	B.4
1857560000	SAIL-M8W-4-X.XU	B.4
1857560150	SAIL-M8W-4-1.5U	B.4
1857560150	SAIL-M8W-4-1.5U	B.20
1857560300	SAIL-M8W-4-3.0U	B.4
1857560500	SAIL-M8W-4-5.0U	B.4
1857561000	SAIL-M8W-4-10U	B.4
1857560000	SAIL-M8GM8W-4-X.XU	B.5
1857560150	SAIL-M8GM8W-4-1.5U	B.5
1857560150	SAIL-M8GM8W-4-1.5U	B.36
1857560300	SAIL-M8GM8W-4-3.0U	B.5
1857560500	SAIL-M8GM8W-4-5.0U	B.5
1857561000	SAIL-M8GM8W-4-10U	B.5
1857670000	SAIL-M8WM8W-3-X.XU	B.5
1857670150	SAIL-M8WM8W-3-1.5U	B.5
1857670150	SAIL-M8WM8W-3-1.5U	B.36
1857670300	SAIL-M8WM8W-3-3.0U	B.5
1857670500	SAIL-M8WM8W-3-5.0U	B.5
1857671000	SAIL-M8WM8W-3-10U	B.5
1857680000	SAIL-M8WM8W-4-X.XU	B.5
1857680150	SAIL-M8WM8W-4-1.5U	B.5
1857680150	SAIL-M8WM8W-4-1.5U	B.36
1857680300	SAIL-M8WM8W-4-3.0U	B.5
1857680500	SAIL-M8WM8W-4-5.0U	B.5
1857681000	SAIL-M8WM8W-4-10U	B.5
1857690150	SAIL-VSA-M12W-1.5U	B.61
1857700150	SAIL-VSB-M12W-1.5U	B.64
1857701050	SAIL-VSBD-M12W-1.5U	B.64
1857720150	SAIL-VSC-M12W-1.5U	B.67
1857730150	SAIL-VSCD-M12W-1.5U	B.67
1859120000	SAI-8-SH 4P FC	E.17
1859120000	SAI-8-SH 4P FC	K.25
1859140000	SAI-8-SH 5P FC	E.17
1859140000	SAI-8-SH 5P FC	K.25

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1861090000	SAIE-M12S-4-0.5U-M16	C.49
1861110000	SAIE-M12S-8-0.5U-M16	C.49
1861120000	SAIE-M12B-4-0.5U-M16	C.49
1861140000	SAIE-M12B-8-0.5U-M16	C.49
1861160000	SAIE-M12S-4-0.5U-FP-M16	C.49
1861170000	SAIE-M12S-5-0.5U-FP-M16	C.49
1861180000	SAIE-M12S-8-0.5U-FP-M16	C.49
1861190000	SAIE-M12B-4-0.5U-FP-M16	C.49
1861210000	SAIE-M12B-8-0.5U-FP-M16	C.49
1861220000	SAIE-M12S-4-0.5U-PG9	C.50
1861220001	SAIE-M12S-4-0.2U-AEH-VA	L.29
1861230000	SAIE-M12S-5-0.5U-M16	C.49
1861240000	SAIE-M12S-8-0.5U-PG9	C.50
1861250000	SAIE-M12B-4-0.5U-PG9	C.50
1861270000	SAIE-M12B-8-0.5U-PG9	C.50
1861280000	SAIE-M8R-3-0.5U-FP-M8	C.52
1861290000	SAIE-M8R-4-0.5U-FP-M8	C.52
1862200000	WK-1/4(SCREWTY)	M.5
1864730000	SAISGI-M-2B-4-5/8-8-M12	C.29
1864730000	SAISGI-M-2B-4-5/8-8-M12	L.10
1864740000	SAIBGI-M-2B-4-5/8-8-M12	C.29
1864740000	SAIBGI-M-2B-4-5/8-8-M12	L.10
1865870150	SAIL-M12BG-8-1.5U	B.14
1867410150	SAIL-M12BG-3S1.5U	B.18
1868350000	SAI-04D-VPPP-2A-M120-NAM-EX	G.4

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1871680000	SAI-08LVP12-3A-M08L-PNP	E.6
1871680000	SAI-08LVP12-3A-M08L-PNP	E.39
1873070000	SAIB-VSA-3P/250/9-0B	C.55
1873080000	SAIB-VSA-4P/250/9-0B	C.55
1873090000	SAIB-VSA-3P/250/11-0B	C.55

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1873100000	SAIB-VSA-4P/250/11-0B	C.55
1873110000	SAIB-VSA-3P/230/9/LD	C.56
1873120000	SAIB-VSA-3P/24/9/LD	C.56
1873130000	SAIB-VSA-3P/230/9-H/OB	C.55
1873140000	SAIB-VSA-4P/230/9-H/OB	C.55
1873150000	SAIB-VSA-3P/230/11-H/OB	C.55
1873160000	SAIB-VSA-4P/230/11-H/OB	C.55
1873170000	SAIB-VSB-3P/250/9-0B	C.57
1873180000	SAIB-VSB-3P/24/9/LD	C.57
1873190000	SAIB-VSBD-3P/250/9-0B	C.58
1873200000	SAIB-VSC-3P/250/7-0B	C.59
1873210000	SAIB-VSC-4P/250/7-0B	C.59
1873220000	SAIB-VSCD-3P/250/7-0B	C.59
1873230000	SAIB-VSCD-4P/250/7-0B	C.59
1873300150	SAIL-M12G-PB-1.50	L.5
1873310150	SAIL-M12GM12G-PB-1.50	L.5
1873320150	SAIL-M12BG-PB-1.50	L.4
1877250000	SAIL-M8GM8W-31.X.U	B.5
1877250150	SAIL-M8GM8W-31.5.U	B.5
1877250300	SAIL-M8GM8W-31.5.U	B.38
1877250500	SAIL-M8GM8W-31.5.U	B.5
1877251000	SAIL-M8GM8W-31.0U	B.5
1877440100	SAIB-M23-12P-AN-1.0M	K.23
1877950000	SAI-10LVP12-3A-M08L-PNP	E.6
1877950000	SAI-10LVP12-3A-M08L-PNP	E.39
1879710150	SAIL-M12BG-12-1.5U	B.14

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1880470000	SAIL-M8GM8G-4-X.XU	B.5
1880470150	SAIL-M8GM8G-4-1.5U	B.5
1880470150	SAIL-M8GM8G-4-1.5U	B.36
1880470300	SAIL-M8GM8G-4-3.0U	B.5
1880470500	SAIL-M8GM8G-4-5.0U	B.5
1880471000	SAIL-M8GM8G-4-10U	B.5
1881710000	SAI-Y-5S M12/M12 ZBO	C.14
1883460150	SAIL-M12BW-8-1.5U	B.41
1886440100	SAIB-M23-12P-ST-1,0M	K.23

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1890520150	SAIL-M12BG-8S1.5U	B.15
1892080000	SAI-8-M 5P M12 ECO	E.15
1892080005	SAI-8-M 5P M12 NPN ECO	E.15
1892081000	SAI-8-M 5P M12 ECO UT	E.15
1892090000	SAI-6-M 5P M12 ECO UT	E.15
1892091000	SAI-6-M 5P M12 ECO UT	E.15
1892100000	SAI-4-M 5P M12 ECO UT	E.15
1892100005	SAI-4-M 5P M12 NPN ECO	E.15
1892101000	SAI-4-M 5P M12 ECO UT	E.15
1892120000	SAISGS-M-4D-6/8-M12	C.5
1892120000	SAISGS-M-4D-6/8-M12	C.14
1892120000	SAISGS-M-4D-6/8-M12	L.70
1892120001	SAISGZ-M-4D-6/8-M12	C.5
1892120001	SAISGZ-M-4D-6/8-M12	C.26
1892120001	SAISGZ-M-4D-6/8-M12	C.26
1892130000	SAIBGS-M-4D-6/8-M12	C.5
1892130000	SAIBGS-M-4D-6/8-M12	C.14
1892130000	SAIBGS-M-4D-6/8-M12	L.70
1892130001	SAIBGZ-M-4D-6/8-M12	C.5
1892130001	SAIBGZ-M-4D-6/8-M12	C.26
1894380000	SAI-08D-VPPP-2A-M120-NAM-EX	G.4
1896990150	SAIL-VSA-DS-1.5U	E.61
1897680000	SAI-4-MMS 5P M12 1:1	B.27
1898240150	SAIL-M12BW-12-1.5U	B.14

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1900000000	SCREWTY-M12	L.62
1900000000	SCREWTY-M12	L.63
1900000000	SCREWTY-M12	M.5
1900001000	SCREWTY-M12-DM	E.19
1900001000	SCREWTY-M12-DM	L.9
1900001000	SCREWTY-M12-DM	L.62
1900001000	SCREWTY-M12-DM	L.63
1900001000	SCREWTY-M12-DM	M.5
1900010000	SCREWTY-M8	M.5
1900011000	SCREWTY-M8-DM	M.5
1900020000	SCREWTY-M12 F	M.5
1900021000	SCREWTY-M12 F-DM	M.5
1900030000	SCREWTY-M8 F	M.5
1900031000	SCREWTY-M8 F-DM	M.5
1900100000	SCREWTY M12 KO 0. SD	M.5
1900110000	SCREWTY M8 KO 0. SD	M.5
1900120000	SCREWTY M12F KO 0. SD	M.5
1900130000	SCREWTY M8F KO 0. SD	M.5
1902100000	SAIH-3X0,34(PUR)	B.70
1902120000	SAIH-4X0,25(PUR)	B.69
1902130000	SAIH-4X0,34(PUR)	B.70
1902140000	SAIH-3X0,25(PUR)	B.69
1902160000	SAIH-3X0,34(PVC)	B.73
1902170000	SAIH-4X0,25(PVC)	B.72
1902180000	SAIH-4X0,34(PVC)	B.73
1902190000	SAIH-3X0,25(PVC)	B.72
1905490000	M-PRINT PRO	M.21
1906260000	SAIL-M12W-4-X.XU	B.40
1906260150	SAIL-M12W-4-I.5U	B.41
1906260150	SAIL-M12W-4-I.5U	B.41
1906260300	SAIL-M12W-4-3.0U	B.11

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1920990000	SAISW-M8-3P(TL)	C.23
1921000000	SAISW-M8-4P(TL)	C.6
1921000000	SAISW-M8-4P(TL)	C.23
1921010000	SAIBM-M8-3P(TL)	C.6
1921010000	SAIBM-M8-3P(TL)	C.22
1921020000	SAIBM-M8-4P(TL)	C.6
1921020000	SAIBM-M8-4P(TL)	C.22
1921030000	SAISM-M8-3P(TL)	C.6
1921030000	SAISM-M8-3P(TL)	C.22
1921040000	SAISM-M8-4P(TL)	C.6
1921040000	SAISM-M8-4P(TL)	C.22
1921050000	SAISGS-K-5A-4/6-M12	C.10
1921060000	SAISGS-K-4A-4/6-M12	C.10
1921070000	SAIBGS-K-5A-4/6-M12	C.10
1921080000	SAIBGS-K-4A-4/6-M12	C.10
1924950000	SAISGT-P-12A-6/8-M12	C.5
1924950000	SAISGT-P-12A-6/8-M12	C.21
1924960000	SAIBGT-P-12A-6/8-M12	C.5
1924960000	SAIBGT-P-12A-6/8-M12	C.21
1924970000	SAIBGZ-P-5A-4/6-M12	C.5
1924970000	SAIBGZ-P-5A-4/6-M12	C.24
1925300000	SAIL-M12GM12G-3-1.5V	B.6
1925300150	SAIL-M12GM12G-3-1.5V	B.6
1925300150	SAIL-M12GM12G-3-1.5V	B.27
1925300300	SAIL-M12GM12G-3-3.0V	B.6
1925300500	SAIL-M12GM12G-3-5.0V	B.6
1925301000	SAIL-M12GM12G-3-10V	B.6
1925310000	SAIL-M12GM12G-4-1.5V	B.6
1925310150	SAIL-M12GM12G-4-1.5V	B.6
1925310150	SAIL-M12GM12G-4-1.5V	B.27
1925310300	SAIL-M12GM12G-4-3.0V	B.6
1925310500	SAIL-M12GM12G-4-5.0V	B.6
1925311000	SAIL-M12GM12G-4-10V	B.6
1925320000	SAIL-M12GM12G-5-1.5V	B.7
1925320150	SAIL-M12GM12G-5-1.5V	B.7
1925320150	SAIL-M12GM12G-5-1.5V	B.27
1925320300	SAIL-M12GM12G-5-3.0V	B.7
1925320500	SAIL-M12GM12G-5-5.0V	B.7
1925321000	SAIL-M12GM12G-5-10V	B.7
1925330150	SAIL-M12GM12G-2/4-1.5V	B.29

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1925340000	SAIL-M12GM12W-3-1.5V	B.7
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1925340150	SAIL-M12GM12W-3-1.5V	B.7
1925340150	SAIL-M12GM12W-3-1.5V	B.27
1925340300	SAIL-M12GM12W-3-3.0V	B.7
1925340500	SAIL-M12GM12W-3-5.0V	B.7
1925341000	SAIL-M12GM12W-3-10V	B.7
1925350000	SAIL-M12GM12W-4-1.5V	B.7
1925350150	SAIL-M12GM12W-4-1.5V	B.7
1925350150	SAIL-M12GM12W-4-1.5V	B.27
1925350300	SAIL-M12GM12W-4-3.0V	B.7
1925350500	SAIL-M12GM12W-4-5.0V	B.7
1925351000	SAIL-M12GM12W-4-10V	B.7
1925360000	SAIL-M12GM12W-5-1.5V	B.7
1925360150	SAIL-M12GM12W-5-1.5V	B.7
1925360150	SAIL-M12GM12W-5-1.5V	B.27
1925360300	SAIL-M12GM12W-5-3.0V	B.7
1925360500	SAIL-M12GM12W-5-5.0V	B.7
1925361000	SAIL-M12GM12W-5-10V	B.7
1925370150	SAIL-M12GM12W-2/4-1.5V	B.29
1925380000	SAIL-M12WM12W-3-1.5V	B.7
1925380150	SAIL-M12WM12W-3-1.5V	B.7
1925380150	SAIL-M12WM12W-3-1.5V	B.27
1925380300	SAIL-M12WM12W-3-3.0V	B.7
1925380500	SAIL-M12WM12W-3-5.0V	B.7
1925381000	SAIL-M12WM12W-3-10V	B.7
1925390000	SAIL-M12WM12W-4-1.5V	B.7
1925390150	SAIL-M12WM12W-4-1.5V	B.7
1925390150	SAIL-M12WM12W-4-1.5V	B.27
1925390300	SAIL-M12WM12W-4-3.0V	B.7
1925390500	SAIL-M12WM12W-4-5.0V	B.7
1925391000	SAIL-M12WM12W-4-10V	B.7
1925400000	SAIL-M12WM12W-5-1.5V	B.7
1925400150	SAIL-M12WM12W-5-1.5V	B.7
1925400150	SAIL-M12WM12W-5-1.5V	B.27
1925400300	SAIL-M12WM12W-5-3.0V	B.7
1925400500	SAIL-M12WM12W-5-5.0V	B.7
1925401000	SAIL-M12WM12W-5-10V	B.7
1925410000	SAIL-M12GM12W-3L1.5V	B.8
1925410150	SAIL-M12GM12W-3L1.5V	B.8
1925410150	SAIL-M12GM12W-3L1.5V	B.30
1925410300	SAIL-M12GM12W-3L3.0V	B.8
1925410500	SAIL-M12GM12W-3L5.0V	B.8
1925411000	SAIL-M12GM12W-3L10V	B.8
1925420000	SAIL-M12GM12W-4-2L1.5V	B.8
1925420150	SAIL-M12GM12W-4-2L1.5V	B.8
1925420150	SAIL-M12GM12W-4-2L1.5V	B.30
1925420300	SAIL-M12GM12W-4-2L3.0V	B.8
1925420500	SAIL-M12GM12W-4-2L5.0V	B.8
1925421000	SAIL-M12GM12W-4-2L10V	B.8
1925430000	SAIL-M12G-3-1.5V	B.4
1925430150	SAIL-M12G-3-1.5V	B.4
1925430150	SAIL-M12G-3-1.5V	B.11
1925430300	SAIL-M12G-3-3.0V	B.4

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1925430500	SAIL-M12G-3-5.0V	B.4
1925431000	SAIL-M12G-3-10V	B.4
1925440000	SAIL-M12G-4-1.5V	B.4
1925440150	SAIL-M12G-4-1.5V	B.4
1925440150	SAIL-M12G-4-1.5V	B.11
1925440300	SAIL-M12G-4-3.0V	B.4
1925440500	SAIL-M12G-4-5.0V	B.4
1925441000	SAIL-M12G-4-10V	B.4
1925450000	SAIL-M12G-5-1.5V	B.4
1925450150	SAIL-M12G-5-1.5V	B.4
1925450150	SAIL-M12G-5-1.5V	B.11
1925450300	SAIL-M12G-5-3.0V	B.4
1925450500	SAIL-M12G-5-5.0V	B.4
1925451000	SAIL-M12G-5-10V	B.4
1925460000	SAIL-M12BW-3L1.5V	B.8
1925460150	SAIL-M12BW-3L1.5V	B.8
1925460150	SAIL-M12BW-3L1.5V	B.16
1925460300	SAIL-M12BW-3L3.0V	B.8
1925460500	SAIL-M12BW-3L5.0V	B.8
1925461000	SAIL-M12BW-3L10V	B.8
1925470000	SAIL-M12BW-4-2L1.5V	B.8
1925470150	SAIL-M12BW-4-2L1.5V	B.8
1925470150	SAIL-M12BW-4-2L1.5V	B.16
1925470300	SAIL-M12BW-4-2L3.0V	B.8
1925470500	SAIL-M12BW-4-2L5.0V	B.8
1925471000	SAIL-M12BW-4-2L10V	B.8
1925510000	SAIL-M12W-3-1.5V	B.4
1925510150	SAIL-M12W-3-1.5V	B.4
1925510150	SAIL-M12W-3-1.5V	B.11
1925510300	SAIL-M12W-3-3.0V	B.4
1925510500	SAIL-M12W-3-5.0V	B.4
1925511000	SAIL-M12W-3-10V	B.4
1925520000	SAIL-M12W-4-1.5V	B.4
1925520150	SAIL-M12W-4-1.5V	B.4
1925520150	SAIL-M12W-4-1.5V	B.11
1925520300	SAIL-M12W-4-3.0V	B.4
1925520500	SAIL-M12W-4-5.0V	B.4
1925521000	SAIL-M12W-4-10V	B.4
1925530000	SAIL-M12W-5-1.5V	B.4
1925530150	SAIL-M12W-5-1.5V	B.4
1925530150	SAIL-M12W-5-1.5V	B.11
1925530300	SAIL-M12W-5-3.0V	B.4
1925530500	SAIL-M12W-5-5.0V	B.4
1925531000	SAIL-M12W-5-10V	B.4
1925570000	SAIL-M12BG-3-1.5V	B.6
1925570150	SAIL-M12BG-3-1.5V	B.6
1925570150	SAIL-M12BG-3-1.5V	B.11
1925570300	SAIL-M12BG-3-3.0V	B.6
1925570500	SAIL-M12BG-3-5.0V	B.6
1925571000	SAIL-M12BG-3-10V	B.6
1925580000	SAIL-M12BG-4-1.5V	B.6
1925580150	SAIL-M12BG-4-1.5V	B.6
1925580150	SAIL-M12BG-4-1.5V	B.11
1925580300	SAIL-M12BG-4-3.0V	B.6
1925580500	SAIL-M12BG-4-5.0V	B.6
1925581000	SAIL-M12BG-4-10V	B.7
1925590000	SAIL-M12BG-5-1.5V	B.6
1925590150	SAIL-M12BG-5-1.5V	B.7
1925590150	SAIL-M12BG-5-1.5V	B.11
1925590300	SAIL-M12BG-5-3.0V	B.7
1925590500	SAIL-M12BG-5-5.0V	B.7
1925591000	SAIL-M12BG-5-10V	B.7
1925630000	SAIL-M12BW-3-1.5V	B.7
1925630150	SAIL-M12BW-3-1.5V	B.7
1925630150	SAIL-M12BW-3-1.5V	B.11
1925630300	SAIL-M12BW-3-3.0V	B.7
1925630500	SAIL-M12BW-3-5.0V	B.7
1925631000	SAIL-M12BW-3-10V	B.7
1925640000	SAIL-M12BW-4-1.5V	B.7
1925640150	SAIL-M12BW-4-1.5V	B.7
1925640150	SAIL-M12BW-4-1.5V	B.11
1925640300	SAIL-M12BW-4-3.0V	B.7
1925640500	SAIL-M12BW-4-5.0V	B.7
1925641000	SAIL-M12BW-4-10V	B.7
1925650000	SAIL-M12BW-5-1.5V	B.7
1925650150	SAIL-M12BW-5-1.5V	B.7
1925650150	SAIL-M12BW-5-1.5V	B.11
1925650300	SAIL-M12BW-5-3.0V	B.7
1925650500	SAIL-M12BW-5-5.0V	B.7
1925651000	SAIL-M12BW-5-10V	B.7
1925870000	SAIBWT-P-12A-6/8-M12	C.21
1926690150	SAIL-M12G-5S1.5V	B.8
1927150000	SAIL-M8GM8G-3-1.5V	B.4
1927150150	SAIL-M8GM8G-3-1.5V	B.4
1927150150	SAIL-M8GM8G-3-1.5V	B.36
1927150300	SAIL-M8GM8G-3-3.0V	B.4
1927150500	SAIL-M8GM8G-3-5.0V	B.4
1927151000	SAIL-M8GM8G-3-10V	B.4
1927160000	SAIL-M8GM8G-4-1.5V	B.5
1927160150	SAIL-M8GM8G-4-1.5V	B.5
1927160150	SAIL-M8GM8G-4-1.5V	B.36
1927160300	SAIL-M8GM8G-4-3.0V	B.5
1927160500	SAIL-M8GM8G-4-5.0V	B.5
1927161000	SAIL-M8GM8G-4-10V	B.5
1927170000	SAIL-M8GM8W-3-1.5V	B.5
1927170150	SAIL-M8GM8W-3-1.5V	B.5
1927170150	SAIL-M8GM8W-3-1.5V	B.36
1927170300	SAIL-M8GM8W-3-3.0V	B.5
1927170500	SAIL-M8GM8W-3-5.0V	B.5

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1927171000	SAIL-M8GM8W-3-10V	B.5
1927180000	SAIL-M8GM8W-4-1.5V	B.5
1927180150	SAIL-M8GM8W-4-1.5V	B.5
1927180150	SAIL-M8GM8W-4-1.5V	B.36
1927180300	SAIL-M8GM8W-4-3.0V	B.5
1927180500	SAIL-M8GM8W-4-5.0V	B.5
1927181000	SAIL-M8GM8W-4-10V	B.5
1927190000	SAIL-M8GM8W-3L1.5V	B.5
1927190150	SAIL-M8GM8W-3L1.5V	B.5
1927190150	SAIL-M8GM8W-3L1.5V	B.38
1927190300	SAIL-M8GM8W-3L3.0V	B.5
1927190500	SAIL-M8GM8W-3L5.0V	B.5
1927191000	SAIL-M8GM8W-3L10V	B.5
1927200150	SAIL-M8GM8W-4L1.5V	B.38
1927210000	SAIL-M8WM8W-3-1.5V	B.5
1927210150	SAIL-M8WM8W-3-1.5V	B.5
1927210150	SAIL-M8WM8W-3-1.5V	B.36
1927210300	SAIL-M8WM8W-3-3.0V	B.5
1927210500	SAIL-M8WM8W-3-5.0V	B.5
1927211000	SAIL-M8WM8W-3-10V	B.5
1927220000	SAIL-M8WM8W-4-1.5V	B.5
1927220150	SAIL-M8WM8W-4-1.5V	B.5
1927220150	SAIL-M8WM8W-4-1.5V	B.36
1927220300	SAIL-M8WM8W-4-3.0V	B.5
1927220500	SAIL-M8WM8W-4-5.0V	B.5
1927221000	SAIL-M8WM8W-4-10V	B.5
1927230000	SAIL-M8G-3-1.5V	B.4
1927230150	SAIL-M8G-3-1.5V	B.4
1927230150	SAIL-M8G-3-1.5V	B.20
1927230300	SAIL-M8G-3-3.0V	B.4
1927230500	SAIL-M8G-3-5.0V	B.4
1927231000	SAIL-M8G-3-10V	B.4
1927240000	SAIL-M8BG-3-1.5V	B.4
1927240150	SAIL-M8BG-3-1.5V	B.4
1927240150	SAIL-M8BG-3-1.5V	B.20
1927240300	SAIL-M8BG-3-3.0V	B.4
1927240500	SAIL-M8BG-3-5.0V	B.4
1927241000	SAIL-M8BG-3-10V	B.4
1927250000	SAIL-M8G-4-1.5V	B.4
1927250150	SAIL-M8G-4-1.5V	B.4
1927250150	SAIL-M8G-4-1.5V	B.20
1927250300	SAIL-M8G-4-3.0V	B.4
1927250500	SAIL-M8G-4-5.0V	B.4
1927251000	SAIL-M8G-4-10V	B.4
1927260000	SAIL-M8BG-4-1.5V	B.5
1927260150	SAIL-M8BG-4-1.5V	B.5
1927260150	SAIL-M8BG-4-1.5V	B.20
1927260300	SAIL-M8BG-4-3.0V	B.5
1927260500	SAIL-M8BG-4-5.0V	B.5
1927261000	SAIL-M8BG-4-10V	B.5
1927310000	SAIL-M8W-3-1.5V	B.4
1927310150	SAIL-M8W-3-1.5V	B.4
1927310150	SAIL-M8W-3-1.5V	B.20
1927310300	SAIL-M8W-3-3.0V	B.4
1927310500	SAIL-M8W-3-5.0V	B.4
1927311000	SAIL-M8W-3-10V	B.4
1927320000	SAIL-M8BW-3-1.5V	B.5
1927320150	SAIL-M8BW-3-1.5V	B.5
1927320150	SAIL-M8BW-3-1.5V	B.20
1927320300	SAIL-M8BW-3-3.0V	B.5
1927320500	SAIL-M8BW-3-5.0V	B.5
1927321000	SAIL-M8BW-3-10V	B.5
1927330000	SAIL-M8W-4-1.5V	B.4
1927330150	SAIL-M8W-4-1.5V	B.4
1927330150	SAIL-M8W-4-1.5V	B.20
1927330300	SAIL-M8W-4-3.0V	B.4
1927330500	SAIL-M8W-4-5.0V	B.4
1927331000	SAIL-M8W-4-10V	B.4
1927340000	SAIL-M8BW-4-1.5V	B.5
1927340150	SAIL-M8BW-4-1.5V	B.5
1927340150	SAIL-M8BW-4-1.5V	B.20
1927340300	SAIL-M8BW-4-3.0V	B.5
1927340500	SAIL-M8BW-4-5.0V	B.5
1927341000	SAIL-M8BW-4-10V	B.5
1927350000	SAIL-M8BW-3L1.5V	B.5
1927350150	SAIL-M8BW-3L1.5V	B.5
1927350150	SAIL-M8BW-3L1.5V	B.24
1927350300	SAIL-M8BW-3L3.0V	B.5
1927350500	SAIL-M8BW-3L5.0V	B.5
1927351000	SAIL-M8BW-3L10V	B.5
1927360150	SAIL-M8BW-4L1.5V	B.24

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1944580000	SAIBW-M5-8 M12 B-COD	L.9
1944870150	SAIL-M86M8GR-3-1.5U	B.37
1944840150	SAIL-M86M8WR-3-1.5U	B.37
19448490150	SAIL-M8WM8WR-3-1.5U	B.37
1948500150	SAIL-M86M8GR-4-1.5U	B.37
1948510150	SAIL-M86M8WR-4-1.5U	B.37
1948520150	SAIL-M8WM8WR-4-1.5U	B.37
1948530150	SAIL-M88GR-4-1.5U	B.22
1948540150	SAIL-M88WR-4-1.5U	B.22
1948650150	SAIL-M86M8GR-3-1.5V	B.37
1948660150	SAIL-M86M8WR-3-1.5V	B.37
1948670150	SAIL-M8WM8WR-3-1.5V	B.37
1948680150	SAIL-M86M8GR-4-1.5V	B.37
1948690150	SAIL-M86M8WR-4-1.5V	B.37
1948700150	SAIL-M8WM8WR-4-1.5V	B.37
1948710150	SAIL-M88GR-3-1.5V	B.22
1948720150	SAIL-M88WR-3-1.5V	B.22
1948730150	SAIL-M88GR-4-1.5V	B.22
1948740150	SAIL-M88WR-4-1.5V	B.22

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1950270000	SAIE-EW-M20/PG9-SW24-VA	L.29
1955340000	SAIEND CAN M8 4P	L.52

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1962290150	SAIL-M12GM8W-3L1.5V	B.34
1962300150	SAIL-M12GM8W-4L1.5V	B.34
1962610000	SAISWS-K-5A-4/6-M12	C.10
1962620000	SAISWS-K-4A-4/6-M12	C.10
1962630000	SAIBWS-K-5A-4/6-M12	C.10
1962800150	SAIL-M12BG-B-USB-1.5U	B.35
1963910150	SAIL-M12GM12W-4-3L1.5U	B.30
1963930150	SAIL-M12GM12W-4-3L1.5V	B.30
1963940150	SAIL-M12BW-4-3L1.5U	B.16
1963960150	SAIL-M12BW-4-3L1.5V	B.16
1964280150	SAIL-ZW-M12BW-2/4-1.5U	B.41
1964290150	SAIL-ZW-M12BW-2/4L1.5U	B.43
1964300150	SAIL-ZW-M8BW-3-1.5U	B.42
1964310150	SAIL-ZW-3-1.5U	B.19
1964400150	SAIL-M12GM12G-12-12-1.5U	B.14
1964690150	SAIL-M12BG-CD-1.5A	L.50
1964700150	SAIL-M12G-CD-1.5A	L.50
1964710150	SAIL-M12GM12G-CD-1.5A	L.51
1968560150	SAIL-M12BW-3-1.5T	B.11
1968570150	SAIL-M12BW-4-1.5T	B.11
1968580150	SAIL-M12BG-4-1.5T	B.11
1968590150	SAIL-M12BG-3-1.5T	B.11

1980000000

1981560000	SCREWTY M23	M.5
1981900030	SAIL-M86M8G-4S-0.3U	L.52
1981900100	SAIL-M86M8G-4S-1.0U	L.52
1981900150	SAIL-M86M8G-4S-1.5U	L.52
1981900300	SAIL-M86M8G-4S-3.0U	L.52
1981900500	SAIL-M86M8G-4S-5.0U	L.52
1981901000	SAIL-M86M8G-4S-10U	L.52
1981901500	SAIL-M86M8G-4S-20U	L.52
1981902000	SAIL-M86M8G-4S-25U	L.52
1981910150	SAIL-M88G-4S-1.5U	L.52
1981910300	SAIL-M88G-4S-3.0U	L.52
1981910500	SAIL-M88G-4S-5.0U	L.52
1981911000	SAIL-M88G-4S-10U	L.52
1984530150	SAIL-M12GM8GR-3-1.5U	B.32

1990000000

1990540000	SAI-ADAPT-M8/M12 4P	C.44
1990550000	SAI-ADAPT-M12/M8 3P	C.44
1990560000	SAI-ADAPT-M12/M8 4P	C.44
1990570000	SAI-ADAPT-M8/M8 4/3P	C.44
1995800000	SAI-M23-GS-7/12	K.18
1995810000	SAI-M23-BE-L4/4	K.20
1995820000	SAI-M23-KBC-L-0.75/2.50	K.21
1995820000	SAI-M23-KBC-L-0.75/2.50	M.14
1995830000	SAI-M23-KBC-LS-0.25-1.0	K.21
1995830000	SAI-M23-KBC-LS-0.25-1.0	M.14
1995840000	SAI-M23-GS-7/12	K.12
1995850000	SAI-M23-BE-12	K.14
1995860000	SAI-M23-KBC-0.08/0.56	K.16
1995860000	SAI-M23-KBC-0.08/0.56	M.14
1995860000	SAI-M23-KBC-0.08/0.56	M.15

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2005040000	RIBBON MM 84/300 WS	M.23
2005070000	RIBBON MM 110/360 SW	M.23
2005080000	RIBBON MM 76/360 SW	M.23
2005090000	RIBBON MM-TB 25/360 SW	M.23
2009620000	SAI-4-M-MVV-M12 1:1	D.35

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2050010150	SAIL-M12BW-S3-1.5P	D.8
2050010300	SAIL-M12BW-S3-3.0P	D.8
2050010500	SAIL-M12BW-S3-5.0P	D.8
2050011000	SAIL-M12BW-S3-10P	D.8

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2050050150	SAIL-M12W-S3-1.5P	D.8
2050050300	SAIL-M12W-S3-3.0P	D.8
2050050500	SAIL-M12W-S3-5.0P	D.8
2050051000	SAIL-M12W-S3-10P	D.8
2050060150	SAIL-M12GM12G-S3-1.5P	D.9
2050060300	SAIL-M12GM12G-S3-3.0P	D.9
2050060500	SAIL-M12GM12G-S3-5.0P	D.9
2050061000	SAIL-M12GM12G-S3-10P	D.9
2050060150	SAIL-M12WM12G-S3-1.5P	D.9
2050060300	SAIL-M12WM12G-S3-3.0P	D.9
2050060500	SAIL-M12WM12G-S3-5.0P	D.9
2050061000	SAIL-M12WM12G-S3-10P	D.9
2050100150	SAIL-M12GM12W-S3-1.5P	D.9
2050100300	SAIL-M12GM12W-S3-3.0P	D.9
2050100500	SAIL-M12GM12W-S3-5.0P	D.9
2050101000	SAIL-M12GM12W-S3-10P	D.9
2050150150	SAIL-M12WM12W-S3-1.5P	D.9
2050150300	SAIL-M12WM12W-S3-3.0P	D.9
2050150500	SAIL-M12WM12W-S3-5.0P	D.9
2050151000	SAIL-M12WM12W-S3-10P	D.9
2050160150	SAIL-M12BG-S-1.5P	D.8
2050160300	SAIL-M12BG-S-3.0P	D.8
2050160500	SAIL-M12BG-S-5.0P	D.8
2050161000	SAIL-M12BG-S-10P	D.8
2050210150	SAIL-M12BW-S-1.5P	D.8
2050210300	SAIL-M12BW-S-3.0P	D.8
2050210500	SAIL-M12BW-S-5.0P	D.8
2050211000	SAIL-M12BW-S-10P	D.8
2050230150	SAIL-M12G-S-1.5P	D.8
2050230300	SAIL-M12G-S-3.0P	D.8
2050230500	SAIL-M12G-S-5.0P	D.8
2050231000	SAIL-M12G-S-10P	D.8
2050260150	SAIL-M12W-S-1.5P	D.8
2050260300	SAIL-M12W-S-3.0P	D.8
2050260500	SAIL-M12W-S-5.0P	D.8
2050261000	SAIL-M12W-S-10P	D.8
2050270150	SAIL-M12GM12G-S-1.5P	D.9
2050270300	SAIL-M12GM12G-S-3.0P	D.9
2050270500	SAIL-M12GM12G-S-5.0P	D.9
2050271000	SAIL-M12GM12G-S-10P	D.9
2050350150	SAIL-M12WM12G-S-1.5P	D.9
2050350300	SAIL-M12WM12G-S-3.0P	D.9
2050350500	SAIL-M12WM12G-S-5.0P	D.9
2050351000	SAIL-M12WM12G-S-10P	D.9
2050460150	SAIL-M12GM12W-S-1.5P	D.9
2050460300	SAIL-M12GM12W-S-3.0P	D.9
2050460500	SAIL-M12GM12W-S-5.0P	D.9
2050461000	SAIL-M12GM12W-S-10P	D.9
2050470150	SAIL-M12WM12W-S-1.5P	D.9
2050470300	SAIL-M12WM12W-S-3.0P	D.9
2050470500	SAIL-M12WM12W-S-5.0P	D.9
2050471000	SAIL-M12WM12W-S-10P	D.9
2050490150	SAIL-M12BG-T-1.5P	D.10
2050490300	SAIL-M12BG-T-3.0P	D.10
2050490500	SAIL-M12BG-T-5.0P	D.10
2050491000	SAIL-M12BG-T-10P	D.10
2050560150	SAIL-M12BW-T-1.5P	D.10
2050560300	SAIL-M12BW-T-3.0P	D.10
2050560500	SAIL-M12BW-T-5.0P	D.10
2050561000	SAIL-M12BW-T-10P	D.10
2050640150	SAIL-M12G-T-1.5P	D.10
2050640300	SAIL-M12G-T-3.0P	D.10
2050640500	SAIL-M12G-T-5.0P	D.10
2050641000	SAIL-M12G-T-10P	D.10
2050650150	SAIL-M12W-T-1.5P	D.10
2050650300	SAIL-M12W-T-3.0P	D.10
2050650500	SAIL-M12W-T-5.0P	D.10
2050651000	SAIL-M12W-T-10P	D.10
2050680150	SAIL-M12BG-T-1.5H	D.10
2050680300	SAIL-M12BG-T-3.0H	D.10
2050680500	SAIL-M12BG-T-5.0H	D.10
2050681000	SAIL-M12BG-T-10H	D.10
2050690150	SAIL-M12BW-T-1.5H	D.10
2050690300	SAIL-M12BW-T-3.0H	D.10
2050690500	SAIL-M12BW-T-5.0H	D.10
2050691000	SAIL-M12BW-T-10H	D.10
2050700150	SAIL-M12G-T-1.5H	D.10
2050700300	SAIL-M12G-T-3.0H	D.10
2050700500	SAIL-M12G-T-5.0H	D.10
2050701000	SAIL-M12G-T-10H	D.10
2050710150	SAIL-M12W-T-1.5H	D.10
2050710300	SAIL-M12W-T-3.0H	D.10
2050710500	SAIL-M12W-T-5.0H	D.10
2050711000	SAIL-M12W-T-10H	D.10
2050760150	SAIL-M12GM12G-T-1.5P	D.11
2050760300	SAIL-M12GM12G-T-3.0P	D.11
2050760500	SAIL-M12GM12G-T-5.0P	D.11
2050761000	SAIL-M12GM12G-T-10P	D.11
2050820150	SAIL-M12WM12G-T-1.5P	D.11
2050820300	SAIL-M12WM12G-T-3.0P	D.11
2050820500	SAIL-M12WM12G-T-5.0P	D.11
2050821000	SAIL-M12WM12G-T-10P	D.11
2050830150	SAIL-M12GM12W-T-1.5P	D.11
2050830300	SAIL-M12GM12W-T-3.0P	D.11
2050830500	SAIL-M12GM12W-T-5.0P	D.11
2050831000	SAIL-M12GM12W-T-10P	D.11
2050860150	SAIL-M12WM12W-T-1.5P	D.11
2050860300	SAIL-M12WM12W-T-3.0P	D.11
2050860500	SAIL-M12WM12W-T-5.0P	D.11

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2050861000	SAIL-M12WM12W-T-10P	D.11
2050870150	SAIL-M12GM12G-T-1.5H	D.11
2050870300	SAIL-M12GM12G-T-3.0H	D.11
2050870500	SAIL-M12GM12G-T-5.0H	D.11
2050871000	SAIL-M12GM12G-T-10H	D.11
2050890150	SAIL-M12WM12G-T-1.5H	D.11
2050890300	SAIL-M12WM12G-T-3.0H	D.11
2050890500	SAIL-M12WM12G-T-5.0H	D.11
2050891000	SAIL-M12WM12G-T-10H	D.11
2050910150	SAIL-M12GM12W-T-1.5H	D.11
2050910300	SAIL-M12GM12W-T-3.0H	D.11
2050910500	SAIL-M12GM12W-T-5.0H	D.11
2050911000	SAIL-M12GM12W-T-10H	D.11
2050920150	SAIL-M12WM12W-T-1.5H	D.11
2050920300	SAIL-M12WM12W-T-3.0H	D.11
2050920500	SAIL-M12WM12W-T-5.0H	D.11
2050921000	SAIL-M12WM12W-T-10H	D.11

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2085620000	SAI-6-M-MVV-M12 S-COD	D.36
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2330000000

2330260000	SAI-SK-M12-UNI 2029	C.46
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2420000000

2426980000	SAI-TSK-MP12	B.58
2427060000	SAI-WDF 5P M12 K	C.45
2429320000	SAI-TSK-M12-B0	B.58

2430000000

2438500000	MULTIMARK ROLLER TB	M.23
2439350000	SAI-H4-M12-T	D.30

2440000000

2448880000	RIBBON MM-HS 60/300 SW	M.23
2449710000	PRINTJET CLEANER	M.21

2450000000

2455040150	SAIL-M8G-5-1.5U	B.21
2455150150	SAIL-M12BG-K-1.5P	D.6
2455150300	SAIL-M12BG-K-3.0P	D.6
2455150500	SAIL-M12BG-K-5.0P	D.6
2455151000	SAIL-M12BG-K-10P	D.6
2455190150	SAIL-M12BW-K-1.5P	D.6
2455190300	SAIL-M12BW-K-3.0P	D.6
2455190500	SAIL-M12BW-K-5.0P	D.6
2455191000	SAIL-M12BW-K-10P	D.6
2455200150	SAIL-M12BW-L-1.5PGR	D.4
2455200300	SAIL-M12BW-L-3.0PGR	D.4
2455200500	SAIL-M12BW-L-5.0PGR	D.4
2455201000	SAIL-M12BW-L-10PGR	D.4
2455210150	SAIL-M12G-K-1.5P	D.6
2455210300	SAIL-M12G-K-3.0P	D.6
2455210500	SAIL-M12G-K-5.0P	D.6
2455211000	SAIL-M12G-K-10P	D.6
2455220150	SAIL-M12G-L-1.5PGR	D.4
2455220300	SAIL-M12G-L-3.0PGR	D.4
2455220500	SAIL-M12G-L-5.0PGR	D.4
2455221000	SAIL-M12G-L-10PGR	D.4
2455230150	SAIL-M12W-K-1.5P	D.6
2455230300	SAIL-M12W-K-3.0P	D.6
2455230500	SAIL-M12W-K-5.0P	D.6
2455231000	SAIL-M12W-K-10P	D.6
2455240150	SAIL-M12W-L-1.5PGR	D.4
2455240300	SAIL-M12W-L-3.0PGR	D.4
2455240500	SAIL-M12W-L-5.0PGR	D.4
2455241000	SAIL-M12W-L-10PGR	D.4
2455250150	SAIL-M12GM12G-K-1.5P	D.7
2455250300	SAIL-M12GM12G-K-3.0P	D.7
2455250500	SAIL-M12GM12G-K-5.0P	D.7
2455251000	SAIL-M12GM12G-K-10P	D.7
2455260150	SAIL-M12GM12G-L-1.5PGR	D.5
2455260300	SAIL-M12GM12G-L-3.0PGR	D.5
2455260500	SAIL-M12GM12G-L-5.0PGR	D.5
2455261000	SAIL-M12GM12G-L-10PGR	D.5
2455270150	SAIL-M12GM12W-K-1.5P	D.7
2455270300	SAIL-M12GM12W-K-3.0P	D.7
2455270500	SAIL-M12GM12W-K-5.0P	D.7
2455271000	SAIL-M12GM12W-K-10P	D.7
2455280150	SAIL-M12GM12W-L-1.5PGR	D.5
2455280300	SAIL-M12GM12W-L-3.0PGR	D.5
2455280500	SAIL-M12GM12W-L-5.0PGR	D.5
2455281000	SAIL-M12GM12W-L-10PGR	D.5
2455290150	SAIL-M12WM12W-K-1.5P	D.7
2455290300	SAIL-M12WM12W-K-3.0P	D.7
2455290500	SAIL-M12WM12W-K-5.0P	D.7
2455291000	SAIL-M12WM12W-K-10P	D.7
2455300150	SAIL-M12WM12W-L-1.5PGR	D.5
2455300300	SAIL-M12WM12W-L-3.0PGR	D.5
2455300500	SAIL-M12WM12W-L-5.0PGR	D.5
2455301000	SAIL-M12WM12W-L-10PGR	D.5
2455310150	SAIL-M12WM12G-K-1.5P	D.7
2455310300	SAIL-M12WM12G-K-3.0P	D.7

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2616470000	SAI-H3-M12-L	D.31
2616480000	SAI-H3-M12-K	D.31
2616490000	SAI-T-M12-L	D.31
2616500000	SAI-T-M12-K	D.31
2617670500	SAIL-M12G-TS-5.0U	D.12

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2625940000	SAIE-M12BL0.3VHM16-1.5	D.29
2625950000	SAIE-M12SL0.3VHM16-1.5	D.29
2625960000	SAIE-M12SL0.3VHM16-2.5	D.29
2625970000	SAIE-M12BL0.3VHM16-2.5	D.29

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2662450000	SAIEND 1/4 M8G 3P	F.5
2664780000	SAIBGC-M-4D-4/9-M12-WDF-CG	C.34
2664790000	SAISGC-M-4D-4/9-M12-WDF	C.34
2664800000	SAIBGC-M-5A-4/9-M12-CG	C.32
2664810000	SAISGC-M-4D-4/9-M12-CG	C.32
2664830000	SAIBWC-M-5A-4/9-M12-CG	C.33
2664840000	SAI-M12-KSC-18/20	C.35
2664850000	SAI-M12-KSC-20/22	C.35
2664860000	SAI-M12-KBC-18/20	C.35
2664870000	SAI-M12-KBC-20/22	C.35

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2671670500	SAIL-M12BG-TS-5.0U	D.12
2672410000	SAISGC-M-5A-4/9-M12-CG	C.32
2672420000	SAIBC-D-18/28-4/9CG	C.33
2672430000	SAISWC-M-5A-4/9-M12-CG	C.32
2673710000	SAI-M12-KSC-22/24	C.35
2673720000	SAI-M12-KSC-26/28	C.35
2673730000	SAI-M12-KBC-22/24	C.35
2673740000	SAI-M12-KBC-26/28	C.35

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2681480000	SAISP-4A-4/8-M12	C.5
2681480000	SAISP-4A-4/8-M12	C.18
2681490000	SAISWP-4A-4/8-M12	C.5
2681490000	SAISWP-4A-4/8-M12	C.18
2681500000	SAIBP-4A-4/8-M12	C.5
2681500000	SAIBP-4A-4/8-M12	C.18
2681510000	SAIBWP-4A-4/8-M12	C.5
2681510000	SAIBWP-4A-4/8-M12	C.18
2681520000	SAISP-M-4A-4/8-M12	C.5
2681520000	SAISP-M-4A-4/8-M12	C.19
2681530000	SAISWP-M-4A-4/8-M12	C.5
2681530000	SAISWP-M-4A-4/8-M12	C.19
2681540000	SAIBP-M-4A-4/8-M12	C.5
2681540000	SAIBP-M-4A-4/8-M12	C.19
2681550000	SAIBWP-M-4A-4/8-M12	C.5
2681550000	SAIBWP-M-4A-4/8-M12	C.19
2681560000	SAISP-5A-4/8-M12	C.5
2681560000	SAISP-5A-4/8-M12	C.18
2681570000	SAISWP-5A-4/8-M12	C.5
2681570000	SAISWP-5A-4/8-M12	C.18
2681580000	SAIBP-5A-4/8-M12	C.5
2681580000	SAIBP-5A-4/8-M12	C.18
2681590000	SAIBWP-5A-4/8-M12	C.5
2681590000	SAIBWP-5A-4/8-M12	C.18
2681600000	SAISP-M-5A-4/8-M12	C.5
2681600000	SAISP-M-5A-4/8-M12	C.19
2681610000	SAISWP-M-5A-4/8-M12	C.5
2681610000	SAISWP-M-5A-4/8-M12	C.19
2681620000	SAIBP-M-5A-4/8-M12	C.5
2681620000	SAIBP-M-5A-4/8-M12	C.19
2681630000	SAIBWP-M-5A-4/8-M12	C.5
2681630000	SAIBWP-M-5A-4/8-M12	C.19
2681640000	SAISP-M-5B-4/8-M12	C.5
2681640000	SAISP-M-5B-4/8-M12	C.20
2681650000	SAISWP-M-5B-4/8-M12	C.5
2681650000	SAISWP-M-5B-4/8-M12	C.20
2681660000	SAIBP-M-5B-4/8-M12	C.5
2681660000	SAIBP-M-5B-4/8-M12	C.20
2681670000	SAIBWP-M-5B-4/8-M12	C.5
2681670000	SAIBWP-M-5B-4/8-M12	C.20
2681680000	SAISP-M-4D-4/8-M12	C.5
2681680000	SAISP-M-4D-4/8-M12	C.20
2681690000	SAISWP-M-4D-4/8-M12	C.5
2681690000	SAISWP-M-4D-4/8-M12	C.20
2681700000	SAIBP-M-4D-4/8-M12	C.5
2681700000	SAIBP-M-4D-4/8-M12	C.20
2681710000	SAIBWP-M-4D-4/8-M12	C.5
2681710000	SAIBWP-M-4D-4/8-M12	C.20

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2702690000	SAISWC-D-18/28-4/9CG	C.33
2702700000	SAIBWC-M-4D-4/9-M12-CG	C.33
2703490000	SAISGS-P-5K-8/13-M12	D.18
2703500000	SAIBGS-P-5K-8/13-M12	D.18
2703510000	SAISGS-P-5L-8/13-M12	D.17
2703520000	SAIBGS-P-5L-8/13-M12	D.17
2706870150	SAIL-M12BG-S3-1.5P	D.8
2706870300	SAIL-M12BG-S3-3.0P	D.8
2706870500	SAIL-M12BG-S3-5.0P	D.8

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2706671000	SAIL-M12BG-S3-10P	D.8
2706680150	SAIL-M12G-S3-1.5P	D.8
2706680300	SAIL-M12G-S3-3.0P	D.8
2706680500	SAIL-M12G-S3-5.0P	D.8
2706681000	SAIL-M12G-S3-10P	D.8

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2715590000	PRINTJET CONNECT	M.21
2715600000	PJ CON INK SET	M.21
2715610000	PJ CON INK C	M.21
2715620000	PJ CON INK M	M.21
2715630000	PJ CON INK Y	M.21
2715640000	PJ CON INK K	M.21
2715650000	PJ CON FLUID SET	M.21
2715660000	PJ CON WASTE PAD	M.21
2715680000	PJ CON WIFI STICK	M.21
2719270000	MULTIMARK ROLLER SFM 3	M.23

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2726210000	SAI-MDC12AL1	M.13
2729520000	DAE M12 PA SHORT UL	L.77

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2764900000	SAIH-SLL-3X1.0-16X0.5-500	8.80
2764930000	SAIH-SLL-3X0.75-8X0.34-100	8.79
2764940000	SAIH-SLL-3X0.75-8X0.34-500	8.79
2764950000	SAIH-SLL-3X0.75-16X0.34-100	8.79
2764960000	SAIH-SLL-3X0.75-16X0.34-500	8.79
2764970000	SAIH-SLL-5X0.75-16X0.34-100	8.80
2764980000	SAIH-SLL-5X0.75-16X0.34-500	8.80
2768830000	SAISWS-P-5L-8/13-M12	D.17
2768340000	SAIBWS-P-5L-8/13-M12	D.17

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2773240000	SAI JP FC SET-WG 100	I.11
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2783150000	SAIBGH-M-4D-5/9.7-M12-WDF	C.30
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2796760000	SAIE-M12B-5-0.5V-HW-PG9	C.50
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2812410000	SAIBGH-M-4D-5/9.7-M12	C.30
2812420000	SAIBWS-P-5K-8/13-M12	D.18
2812430000	SAISWS-P-5K-8/13-M12	D.18
2812520150	SAIL-M12BG-4-1.5TOV	8.51
2812530150	SAIL-M12BW-4-3LR1.5TOV	8.52
2812540150	SAIL-M12BW-4-1.5TOV	8.51
2812550150	SAIL-M12G-4-1.5TOV	8.51
2812570150	SAIL-M12GM12G-4-3LR1.5TOV	8.54
2812600150	SAIL-M12GM12G-4-1.5TOV	8.53
2812610150	SAIL-M12GM12W-4-3LR1.5TOV	8.54
2812630150	SAIL-M12GM12W-4-1.5TOV	8.53
2812640150	SAIL-M12BG-5-1.5TOV	8.51
2812670150	SAIL-M12BW-5-3LR1.5TOV	8.52
2812680150	SAIL-M12BW-5-1.5TOV	8.51
2812690150	SAIL-M12G-5-1.5TOV	8.51
2812700150	SAIL-M12GM12G-5-1.5TOV	8.53
2812720150	SAIL-M12GM12W-5-3LR1.5TOV	8.54
2812730150	SAIL-M12GM12W-5-1.5TOV	8.53
2812750150	SAIL-M12BG-5-1.5TVY	8.51
2812780150	SAIL-M12BW-5-1.5TVY	8.51
2812800150	SAIL-M12GM12G-5-1.5TVY	8.53
2812820150	SAIL-M12GM12W-5-1.5TVY	8.53
2812840150	SAIL-M12GM8G-3-1.5TOV	8.57
2812850150	SAIL-M12GM8W-3-1.5TOV	8.57
2812880150	SAIL-M8BG-3-1.5TOV	8.55
2812910150	SAIL-M8BW-3L-1.5TOV	8.56
2812940150	SAIL-M8BW-3-1.5TOV	8.55
2812950150	SAIL-M12GM8W-3L-1.5TOV	8.56
2812960150	SAIL-M12GM8G-4-1.5TOV	8.57
2812970150	SAIL-M12GM8W-4-1.5TOV	8.57
2813030150	SAIL-M8BG-4-1.5TOV	8.55
2813040150	SAIL-M8BW-4-1.5TOV	8.55
2818930000	SAI-04Z-VPPP-3A-M08L-PNP	E.38
2818940000	SAI-06Z-VPPP-3A-M08L-PNP	E.38
2818950000	SAI-08Z-VPPP-3A-M08L-PNP	E.38
2818960000	SAI-10Z-VPPP-3A-M08L-PNP	E.38
2818970000	SAI-04Z-VPPP-4A-M08L-PNP	E.38
2818980000	SAI-06Z-VPPP-4A-M08L-PNP	E.38
2818990000	SAI-08Z-VPPP-4A-M08L-PNP	E.38
2819000000	SAI-10Z-VPPP-4A-M08L-PNP	E.38
2819010000	SAI-04Z-VPUT-3A-M08L-PNP	E.38
2819020000	SAI-06Z-VPUT-3A-M08L-PNP	E.38
2819030000	SAI-08Z-VPUT-3A-M08L-PNP	E.38
2819040000	SAI-10Z-VPUT-3A-M08L-PNP	E.38
2819050000	SAI-04Z-VPUT-4A-M08L-PNP	E.38
2819060000	SAI-06Z-VPUT-4A-M08L-PNP	E.38
2819070000	SAI-08Z-VPUT-4A-M08L-PNP	E.38
2819080000	SAI-10Z-VPUT-4A-M08L-PNP	E.38

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2819100000	SAI-06Z-MXPP-3A-M08L-PNP-05U02	E.38
2819110000	SAI-08Z-MXPP-3A-M08L-PNP-05U03	E.38
2819120000	SAI-10Z-MXPP-3A-M08L-PNP-05U04	E.38
2819130000	SAI-04Z-MXPP-3A-M08L-PNP-10U01	E.38
2819140000	SAI-06Z-MXPP-3A-M08L-PNP-10U02	E.38
2819150000	SAI-08Z-MXPP-3A-M08L-PNP-10U03	E.38
2819160000	SAI-10Z-MXPP-3A-M08L-PNP-10U04	E.38
2819170000	SAI-04Z-MXPP-4A-M08L-PNP-05U03	E.38
2819180000	SAI-06Z-MXPP-4A-M08L-PNP-05U05	E.38
2819190000	SAI-08Z-MXPP-4A-M08L-PNP-05U06	E.38
2819200000	SAI-10Z-MXPP-4A-M08L-PNP-05U07	E.38
2819210000	SAI-04Z-MXPP-4A-M08L-PNP-10U03	E.38
2819220000	SAI-06Z-MXPP-4A-M08L-PNP-10U05	E.38
2819230000	SAI-08Z-MXPP-4A-M08L-PNP-10U06	E.38
2819240000	SAI-10Z-MXPP-4A-M08L-PNP-10U07	E.38
2819250000	SAI-XZ-MXPP-4X-M08X-XXX	E.38
2819850000	SAI JP 4P LG K1	I.11

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2820520000	SAI-4/6/8 MH-MMS BL 3.5	E.24
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2830770000	SAI-WDF-M12-4P-S-COD-M16	D.24
2830780000	SAI-WDF-M12-4P-T-COD-M16	D.24
2830790000	SAI-WDF-M12-5P-K-COD-M16	D.25
2830800000	SAI-WDF-M12-5P-L-COD-M16	D.25

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2870920000	SAI-SK-M12-RED	D.37
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2899130000	WIL-EXXXX-RXPS-5700-X840-M8XX	H.12
2899210000	WIL-LXXXX-RXSS-5700-X190-M12X-X0	H.7
2899220000	WIL-LXXXX-RXSS-5700-X190-M12D-X0	H.7
2899230000	WIL-LXXXX-RXSS-5700-X365-M12X-X0	H.7
2899240000	WIL-LXXXX-RXSS-5700-X365-M12D-X0	H.7
2899250000	WIL-LXXXX-RXSS-5700-X540-M12X-X0	H.7
2899260000	WIL-LXXXX-RXSS-5700-X540-M12D-X0	H.7
2899270000	WIL-LXXXX-RXSS-5700-X715-M12X-X0	H.7
2899280000	WIL-LXXXX-RXSS-5700-X715-M12D-X0	H.7
2899290000	WIL-LXXXX-RXSS-5700-1040-M12X-X0	H.7
2899300000	WIL-LXXXX-RXSS-5700-1040-M12D-X0	H.7
2899310000	WIL-LXXXX-RXPS-5700-X190-M12X-X0	H.8
2899320000	WIL-LXXXX-RXPS-5700-X190-M12D-X0	H.8
2899330000	WIL-LXXXX-RXPS-5700-X365-M12X-X0	H.8
2899340000	WIL-LXXXX-RXPS-5700-X365-M12D-X0	H.8
2899350000	WIL-LXXXX-RXPS-5700-X540-M12X-X0	H.8
2899360000	WIL-LXXXX-RXPS-5700-X540-M12D-X0	H.8
2899370000	WIL-LXXXX-RXPS-5700-X715-M12X-X0	H.8
2899380000	WIL-LXXXX-RXPS-5700-X715-M12D-X0	H.8
2899390000	WIL-LXXXX-RXPS-5700-1040-M12X-X0	H.8
2899400000	WIL-LXXXX-RXPS-5700-1040-M12D-X0	H.8
2899410000	WIL-LXXXX-RHPS-5700-X190-M12X-X0	H.9
2899430000	WIL-LXXXX-RHPS-5700-X190-M12D-X0	H.9
2899440000	WIL-LXXXX-RHPS-5700-X365-M12X-X0	H.9
2899450000	WIL-LXXXX-RHPS-5700-X365-M12D-X0	H.9
2899460000	WIL-LXXXX-RHPS-5700-X540-M12X-X0	H.9
2899470000	WIL-LXXXX-RHPS-5700-X540-M12D-X0	H.9
2899480000	WIL-LXXXX-RHPS-5700-X715-M12X-X0	H.9
2899490000	WIL-LXXXX-RHPS-5700-X715-M12D-X0	H.9
2899500000	WIL-LXXXX-RXPS-5700-1040-M12X-X0	H.9
2899510000	WIL-LXXXX-RHPS-5700-1040-M12D-X0	H.9
2899520000	WIL-LRGBW-RXSS-XXXX-X190SX-M12X-X0	H.10
2899530000	WIL-LRGBW-RXSS-XXXX-X365SX-M12X-X0	H.10
2899540000	WIL-LRGBW-RXSS-XXXX-X610SX-M12X-X0	H.10
2899550000	WIL-LRGBW-RXSS-XXXX-1040SX-M12X-X0	H.10
2899560000	WIL-LRGBW-RHPS-XXXX-X190SX-M12X-X0	H.10
2899570000	WIL-LRGBW-RHPS-XXXX-X365SX-M12X-X0	H.10
2899580000	WIL-LRGBW-RHPS-XXXX-X610SX-M12X-X0	H.10
2899590000	WIL-LRGBW-RHPS-XXXX-1040SX-M12X-X0	H.10
2899600000	WIL-EXXXX-RXSS-5700-X140-M8XX	H.11
2899610000	WIL-EXXXX-RXSS-5700-X280-M8XX	H.11
2899620000	WIL-EXXXX-RXSS-5700-X420-M8XX	H.11</

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8564110000	FBCON PA CG 4WAY	L34
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8564170000	FBCON PA CG/M12 4WAY EX	L46
8564180000	FBCON PA CG 1WAY EX	L44
8564190000	FBCON PA CG 2WAY EX	L45
8564200000	FBCON PA CG 4WAY EX	L46
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8564290000	FBCON DP CG TERM 24V	L20
8564300000	FBCON PA CG 8WAY	L35
8564310000	FBCON PA CG/M12 8WAY	L35
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8564330000	FBCON DP M12 TERM 24V	L20
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8606190000	FBCON TERM.D EX	L48
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8613670000	FBCON SS PCG 1WAY	L32
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8703450000	FBCON SS CG 4WAY	L34
8703470000	FBCON SS CG 8WAY	L35

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8714160000	FBCON PA CG/M12 1WAY LIMITER	L37
8714170000	FBCON PA CG/M12 2WAY LIMITER	L38
8714180000	FBCON PA CG/M12 4WAY LIMITER	L39
8714190000	FBCON PA CG/M12 8WAY LIMITER	L40
8714200000	FBCON PA CG 1WAY LIMITER	L37
8714210000	FBCON PA CG 2WAY LIMITER	L38
8714220000	FBCON PA CG 4WAY LIMITER	L39
8714230000	FBCON PA CG 8WAY LIMITER	L40
8714240000	FBCON SS DP PCG TERM 24V	L20
8714260000	FBCON SS DP PCG 1WAY	L19
8715260000	FBCON SS PCG 4WAY LIMITER	L39

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8726110000	FBCON SS PCG 1WAY LIMITER	L37
8726160000	FBCON SS PCG 8WAY LIMITER	L40

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8771430000	JPR 24VDC ISO 1C0 M12	I3
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8778490000	JP CLIP M	I9

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8788580000	RS PB-DP T SUB-D	L21
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8794080000	SAI JP 5P LG 100	I10
8794090000	SAI JP 4P LG 100	I10
8794120000	JP TEST	I8

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8800040000	RS PB-DP T	L21
8805550000	JPOVP RJ45 CAT6 IP20	I7

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8852350000	JPP NPN PNP 24VDC	I5
8857030000	JPP PNP NPN 24VDC	I5

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9002650000	KT 8	B.69
9002650000	KT 8	B.70
9002650000	KT 8	B.71
9002650000	KT 8	B.72
9002650000	KT 8	B.73
9002650000	KT 8	B.74
9002650000	KT 8	B.75
9002650000	KT 8	B.76
9002650000	KT 8	B.77
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9005000000	STRIPAX	M.9
9005610000	STRIPAX 16	M.9

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9017330000	STRIPAX ZERT	M.9
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9030060000	AM 12	B.71
9030060000	AM 12	B.72
9030060000	AM 12	B.73
9030060000	AM 12	B.74
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9030060000	AM 12	B.77
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9202250000	MULTI-STRIPAX ASI	M.11
9202260000	AIE MULTI-STRIPAX 6-16	M.11
9202300000	AIE MULTI-STRIPAX ASI	M.11
9203070000	ERME MULTI-STRIPAX	M.11
9203100000	ERAN MULTI-STRIPAX	M.11
9203110000	STRIPPER 6-16 RED-LINE	M.8
9204350000	IE-CST	L.63
9204350000	IE-CST	L.67
9205760000	MULTI-STRIPAX GKW LW	M.11
9205770000	AIE MULTI-STRIPAX GKWLW	M.11

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9455640000	SAISGS-M-4A-6/8-M12	C.5
9455640000	SAISGS-M-4A-6/8-M12	C.11
9455640000	SAISGS-M-4A-6/8-M12	L.27
9455650000	PDS-4P M12 PG13,5 150MM	L.29
9456000000	SAI-4-S 4P M12	E.6
9456010000	SAI-6-S 4P M12	E.6
9456010001	SAI-6-S 5P M12	E.6
9456020000	SAI-8-S 4P M12	E.6
9456050000	SAI-SK-M12	C.46
9456070150	SAI-LVSD-1.5U	B.64
9456100000	SAI-M12G-4-1.5U	B.4
9456100150	SAI-M12G-4-1.5U	B.4
9456100150	SAI-M12G-4-1.5U	B.11
9456100300	SAI-M12G-4-3.0U	B.4
9456100500	SAI-M12G-4-5.0U	B.4
9456101000	SAI-M12G-4-10U	B.4
9456140150	SAI-M12BG-5S1.5U	B.18
9456150000	SAI-M8BW-4-X-XU	B.5
9456150150	SAI-M8BW-4-1.5U	B.5
9456150150	SAI-M8BW-4-1.5U	B.20
9456150300	SAI-M8BW-4-3.0U	B.5
9456150500	SAI-M8BW-4-5.0U	B.5
9456151000	SAI-M8BW-4-10U	B.5
9456170150	SAI-LVSCD-M12G-1.5U	B.67
9456180000	SAI-4-F 4P PUR 3M	E.9
9456190000	SAI-4-F 4P PUR 5M	E.6
9456190000	SAI-4-F 4P PUR 5M	E.9
9456190002	SAI-4-FMM-4P M12 5M	E.6
9456200000	SAI-4-F 4P PUR 10M	E.9
9456200000	SAI-4-F 4P PUR 10M	E.6
9456200002	SAI-4-FMM-4P M12 10M	E.6
9456210000	SAI-4-F 4P PUR 15M	E.9
9456210000	SAI-4-F 4P PUR 15M	E.6
9456230000	SAI-4-F 4P PUR 20M	E.6
9456230000	SAI-4-F 4P PUR 20M	E.9
9456240150	SAI-LVSCD-1.5U	B.67
9456320000	SAI-4-F 5P PUR 3M	E.9
9456330000	SAI-4-F 5P PUR 5M	E.6
9456330000	SAI-4-F 5P PUR 5M	E.9
9456340000	SAI-4-F 5P PUR 10M	E.6
9456340000	SAI-4-F 5P PUR 10M	E.9
9456350000	SAI-4-F 5P PUR 15M	E.6
9456350000	SAI-4-F 5P PUR 15M	E.9
9456370000	SAI-4-F 5P PUR 20M	E.6
9456370000	SAI-4-F 5P PUR 20M	E.9
9456380000	SAI-M12BW-4-2L1.5U	B.8
9456380150	SAI-M12BW-4-2L1.5U	B.8
9456380150	SAI-M12BW-4-2L1.5U	B.16
9456380300	SAI-M12BW-4-2L3.0U	B.8
9456380500	SAI-M12BW-4-2L5.0U	B.8
9456381000	SAI-M12BW-4-2L10U	B.8
9456460000	SAI-6-F 4P PUR 3M	E.9
9456470000	SAI-6-F 4P PUR 5M	E.6
9456470000	SAI-6-F 4P PUR 5M	E.9
9456480000	SAI-6-F 4P PUR 10M	E.6
9456480000	SAI-6-F 4P PUR 10M	E.9

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9456490000	SAI-6-F 4P PUR 15M	E.9
9456500000	SAI-M12WMI2G-5-1.5U	B.7
9456500150	SAI-M12WMI2G-5-1.5U	B.7
9456500300	SAI-M12WMI2G-5-3.0U	B.7
9456500500	SAI-M12WMI2G-5-5.0U	B.7
9456501000	SAI-M12WMI2G-5-10U	B.7
9456510000	SAI-6-F 4P PUR 20M	E.6
9456510000	SAI-6-F 4P PUR 20M	E.9
9456600000	SAI-6-F 5P PUR 3M	E.9
9456610000	SAI-6-F 5P PUR 5M	E.6
9456610000	SAI-6-F 5P PUR 5M	E.9
9456620000	SAI-6-F 5P PUR 10M	E.6
9456620000	SAI-6-F 5P PUR 10M	E.9
9456630000	SAI-6-F 5P PUR 15M	E.6
9456630000	SAI-6-F 5P PUR 15M	E.9
9456650000	SAI-6-F 5P PUR 20M	E.6
9456650000	SAI-6-F 5P PUR 20M	E.9
9456660000	SAI-M12GM8G-4-1.5U	B.5
9456660150	SAI-M12GM8G-4-1.5U	B.5
9456660150	SAI-M12GM8G-4-1.5U	B.31
9456660300	SAI-M12GM8G-4-3.0U	B.5
9456660500	SAI-M12GM8G-4-5.0U	B.5
9456661000	SAI-M12GM8G-4-10U	B.5
9456670000	SAI-M12GM8W-4-1.5U	B.5
9456670150	SAI-M12GM8W-4-1.5U	B.5
9456670150	SAI-M12GM8W-4-1.5U	B.31
9456670300	SAI-M12GM8W-4-3.0U	B.5
9456670500	SAI-M12GM8W-4-5.0U	B.5
9456671000	SAI-M12GM8W-4-10U	B.5
9456690000	SAI-M12W-3-1.5U	B.4
9456690150	SAI-M12W-3-1.5U	B.4
9456690150	SAI-M12W-3-1.5U	B.11
9456690300	SAI-M12W-3-3.0U	B.4
9456690500	SAI-M12W-3-5.0U	B.4
9456691000	SAI-M12W-3-10U	B.4
9456740000	SAI-8-F 4P PUR 3M	E.9
9456750000	SAI-8-F 4P PUR 5M	E.6
9456750000	SAI-8-F 4P PUR 5M	E.9
9456750002	SAI-8-FMM-4P M12 5M	E.6
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9456790000	SAI-8-F 4P PUR 20M	E.6
9456790000	SAI-8-F 4P PUR 20M	E.9
9456880000	SAI-8-F 5P PUR 3M	E.6
9456880000	SAI-8-F 5P PUR 5M	E.6
9456890000	SAI-8-F 5P PUR 5M	E.9
9456890000	SAI-8-F 5P PUR 10M	E.6
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9456891000	SAI-8-F 5P PUR 15M	E.6
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9456930000	SAI-8-F 5P PUR 20M	E.6
9456930000	SAI-8-F 5P PUR 20M	E.9
9456940000	SAISGS-P-5A-4/6-M12	C.5
9456940000	SAISGS-P-5A-4/6-M12	C.8
9456950000	SAISWS-P-5A-4/6-M12	C.5
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9457040000	SAI-VSA-M12G-1.5U	B.61
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9457230300	SAI-M12GM12G-3-3.0U	B.6
9457230500	SAI-M12GM12G-3-5.0U	B.6
9457231000	SAI-M12GM12G-3-10U	B.6
9457240000	SAIBGS-P-4A-4/6-M12	C.5
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9457260000	SAIBWS-P-5A-4/6-M12	C.5
9457260000	SAIBWS-P-5A-4/6-M12	C.8
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9457270150	SAI-M12GM12W-5-1.5U	B.7
9457270150	SAI-M12GM12W-5-1.5U	B.27
9457270300	SAI-M12GM12W-5-3.0U	B.7
9457270500	SAI-M12GM12W-5-5.0U	B.7
9457271000	SAI-M12GM12W-5-10U	B.7
9457290000	SAISWS-P-4A-4/6-M12	C.5
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9457320000	SAI-M12BW-3-1.5U	B.7
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9457320500	SAI-M12BW-3-5.0U	B.7
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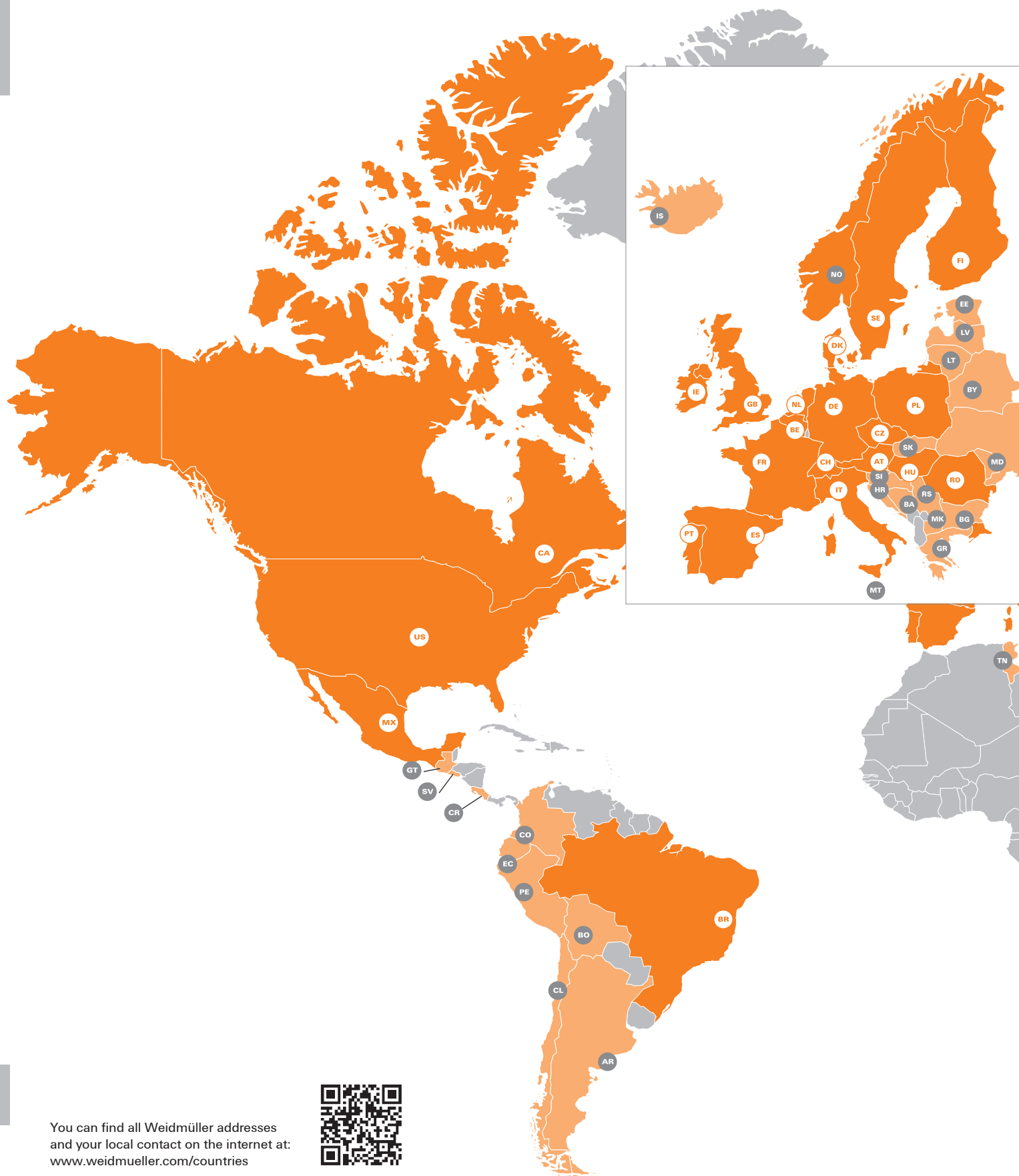
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9457381000	SAIL-M8BW-3-10U	B.5
9457390000	SAIL-M12GM12W-3-1.5U	B.7
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9457390150	SAIL-M12GM12W-3-1.5U	B.27
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9457390500	SAIL-M12GM12W-3-5.0U	B.7
9457391000	SAIL-M12GM12W-3-10U	B.7
9457400150	SAIL-VSC-M12G-1.5U	B.67
9457401010	SAIL-ZW-M8BW-3L1.5U	B.44
9457430000	SAI-8MF 5P PUR 10M	E.33
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9457450500	SAIL-M8BG-3-5.0U	B.4
9457451000	SAIL-M8BG-3-10U	B.4
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9457460150	SAIL-M8BW-3L1.5U	B.5
9457460150	SAIL-M8BW-3L1.5U	B.24
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9457460500	SAIL-M8BW-3L5.0U	B.5
9457461000	SAIL-M8BW-3L10U	B.5
9457490150	SAIL-ZW-M8BG-3-1.5U	B.42
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9457550000	SAISGS-P-4A-4/6-M12	C.5
9457550000	SAISGS-P-4A-4/6-M12	C.7
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9457590000	SAI-8-F 5P 5M 0.5/1.0U	E.9
9457600000	SAI-8-F 5P 10M 0.5/1.0U	E.9
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9457610150	SAIL-M12G-5-1.5U	B.11
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9457610500	SAIL-M12G-5-5.0U	B.4
9457611000	SAIL-M12G-5-10U	B.4
9457670000	SAIL-M12W-5-1.5U	B.4
9457670150	SAIL-M12W-5-1.5U	B.4
9457670150	SAIL-M12W-5-1.5U	B.11
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9457680150	SAIL-VSB-M12G-1.5U	B.64
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9457980150	SAIL-M12GM8W-3-1.5U	B.5
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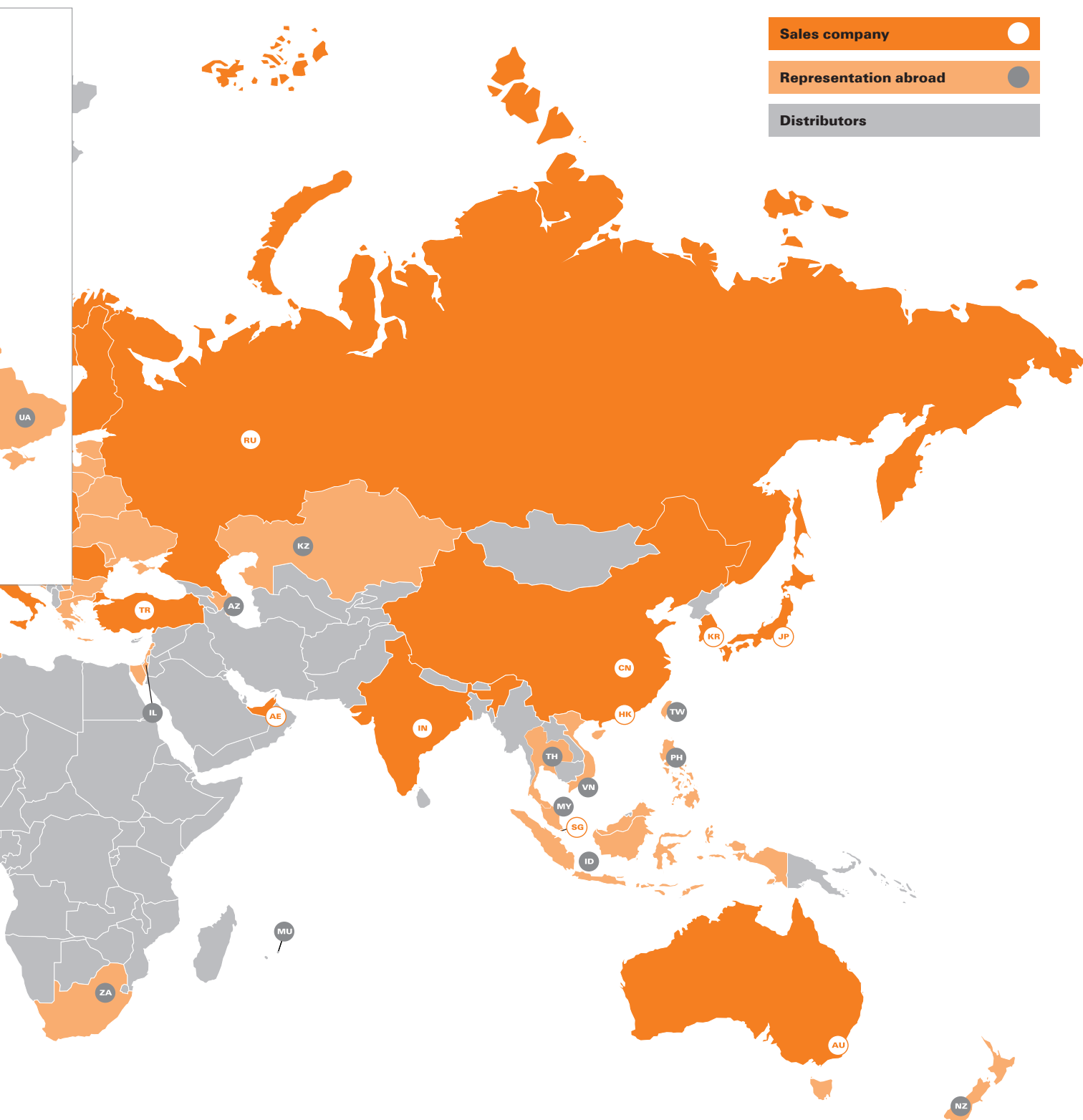
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