

Sensor-actuator cabling and circular connectors

Version 2021



Orange Selection

Quick and easy planning

As a planning engineer, do you want to select products easily and receive them quickly? From a partner you can rely on? Then plan with the Orange Selection from Weidmüller in the future. The Orange Selection items are always available, carefully selected and the portfolio consists of more than 1,500 items to fully cover your standard needs.

If your order is placed before 3:00 pm, we guarantee that your order will be on its way the very next working day.

For even more efficient planning and production processes, we will of course provide all articles in digital form. CAD, ETIM and eClass data are available in our online product catalogue **catalog.weidmueller.com**

We have summarised all the advantages of the Orange Selection on our website.

Check it out: **www.weidmueller.com/orange-selection**



Sensor-actuator cabling and circular connectors

Catalogue 8

Sensor-actuator cabling and circular connectors Product Innovations – Sensor-Aktor-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 distributors

Distributor with integrated logic

Weidmüller Industry Light (WIL)

JACKPAC® (IP67)

Device connectors

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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Service and support

Technical appendix

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M8, M12 and valve plug cord sets

M12 one end without connector
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M12 one end without connector,
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Twin cabling M12
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M8 one end without connector
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Twin sensor cables
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M12 one end without connector,
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M8 and M12 cables for the
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M8, M12 Plug-in connectors and protective caps

Screw connection M12

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Screw connection M8

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

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M12 K-coded

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M12 S-coded

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M12 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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M12 Power supply distributor 24 V DC T-coded

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M12 Motor supply distributor 630 V AC S-coded

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Passive distributors

M12 Hood

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M12 Line

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M12 DIP with DIP-switch

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M12 ECO

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M12 with M23 outlet

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Distributor with integrated logic

AND operation

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AND + OR operation

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WIL – Weidmüller Industry Light

6500K

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5700K

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4000K

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WIL colour alternative

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WIL special variations

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WIL accessories

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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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Device connectors

Quick finder dome / Flange-mounted housing

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M8 Dome

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M8 Flange-mounted housing

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M12 Dip solder

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M12 SMT

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M12 Dome

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M12 Flange-mounted housing

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M12 Solder cup

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7/8" connectors

7/8" connector

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7/8" built in plug

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7/8" T-distributor

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7/8" one end without connector

Page J.13



M23 Connectors and cables

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for signal transmission** Page K.12



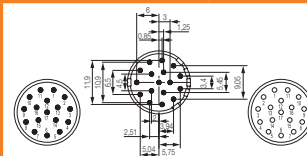
**Built-in connectors
for signal transmission** Page K.13



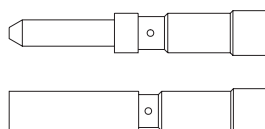
**PushPull enclosure
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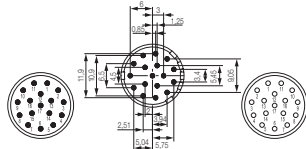
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**Contacts
for signal transmission** Page K.18



**Inserts for solder contacts
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**Stainless steel enclosure
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**Built-in connectors, stainless steel
for signal transmission** Page K.29



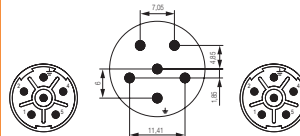
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for power transmission** Page K.30



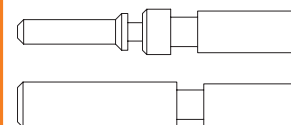
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M23 protective caps Page K.34



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stainless steel** Page K.35



Moulded M23 cables Page K.36



SAI distributor with M23 Page K.37



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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ASI - T-piece

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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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EtherCAT

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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

Screwty® for M8/M12/M23

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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

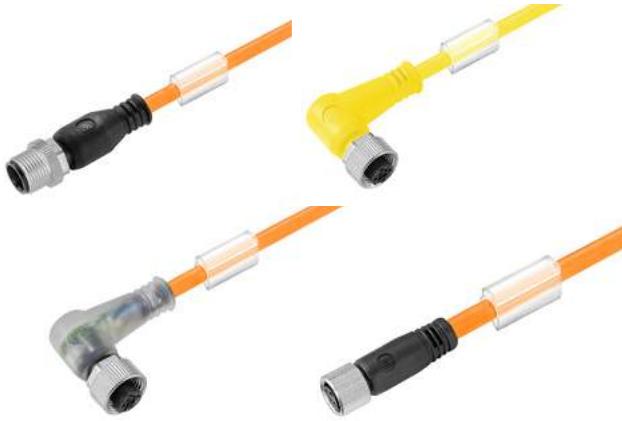
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Product Innovations

Product Innovations	Overview of innovations	A.2
	Introduction	A.4

Overview of innovations



M8 and M12 cables for the automotive industry

- Yellow cables and connectors for safety applications
- Orange and black cables in M12 and M8 versions, orange cable also with program for identification of resistance to welding sparks
- Sensor/actuator cables according to the requirements of the automotive industry
- Free from silicone / recyclable / resistant to welding sparks



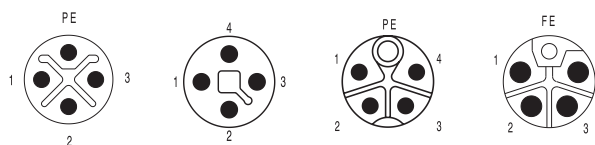
M12 PUSH IN freely configurable plug-in connector

- Different housing variants and codes
- Shock and vibration resistant in accordance with EN 50155:2001 and permitted for railway applications under DIN EN 45545-2
- Very fast connection without requiring tools
- Coloured labels for correct connection



M12 Power portfolio expansion

- Field attachable plug-in connectors and h, H and T distributors
- Up to 630 V AC or 60 V DC and 12 A
- All power coding options: K, L, S and T-coded



WIL folio expansion

- Standard portfolio from 2700 k to 6500 k
- Housing sizes from 145mm to 860mm
- Connection options via M12 or open cable in a wide range of lengths
- Accessories for easy connection to the WIL



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

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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
- Configuration of specialised variants using the online product wizard
- 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



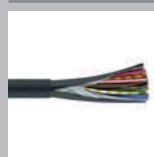
One end without connector



Connecting cables



Valve cables



Connection cables / bus cables

Overview of sensor cables

						One end free		M8 socket	
								straight	
One end free									

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

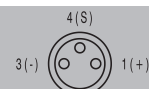
9457380150	1927320150
9457380300	1927320300
9457380500	1927320500
9457381000	1927321000
9457380000	1927320000

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
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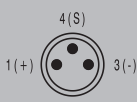
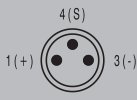
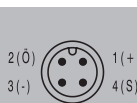
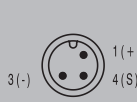
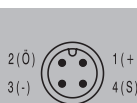
On request

On request

On request

On request

Overview of sensor cables

		No. of poles	1(+) 4(S) 3(-)		1(+) 4(S) 2(0) 3(-)			
			Cable material	PUR halogen-free	PVC	PUR halogen-free	PVC	
One end free			1.5 m	9457820150	1925570150	9457730150	1925580150	
			3.0 m	9457820300	1925570300	9457730300	1925580300	
			5.0 m	9457820500	1925570500	9457730500	1925580500	
			10.0 m	9457821000	1925571000	9457731000	1925581000	
			variable	9457820000	1925570000	9457730000	1925580000	
M8 plug	straight			1.5 m	1937950150	1938230150	On request	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	On request
				3.0 m				
				5.0 m				
				10.0 m				
				variable				
90°			1.5 m	On request	On request	1513130500	On request	
			3.0 m					
			5.0 m					
			10.0 m					
			variable					
M12 plug	straight			1.5 m	9457230150	1925300150	On request	On request
				3.0 m	9457230300	1925300300		
				5.0 m	9457230500	1925300500		
				10.0 m	9457231000	1925301000		
				variable	9457230000	1925300000		
	straight			1.5 m	On request	On request	1906300150	1925310150
				3.0 m				
				5.0 m				
				10.0 m				
				variable				
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	1821050150	On request	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	1071990150	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 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

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1937960300	1938240300
1937960500	1938240500
1937961000	1938241000
1937960000	1938240000

On request

On request

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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
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1815671000	1925381000
1815670000	1925380000

On request

On request

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1906310300	1925390300
1906310500	1925390500
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On request

On request

On request

On request

On request

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On request

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On request

On request

On request

On request

On request

On request

9457270150	1925360150
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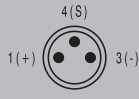
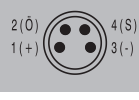
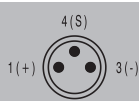
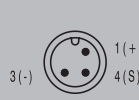
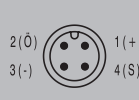
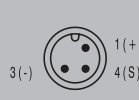
On request

On request

On request

9457900150	1925400150
9457900300	1925400300
9457900500	1925400500
9457901000	1925401000
9457900000	1925400000

Overview of sensor cables

			M12 socket	
			90° angle with 2 LEDs	
One end free				
				
			PUR halogen-free	PVC
			9457800150	1925460150
			9457800300	1925460300
M8 plug	straight		On request	On request
				
				
				
M12 plug	straight		On request	On request
				
				
				
M12 plug	90°		On request	On request
				

Cables with connector at one end only

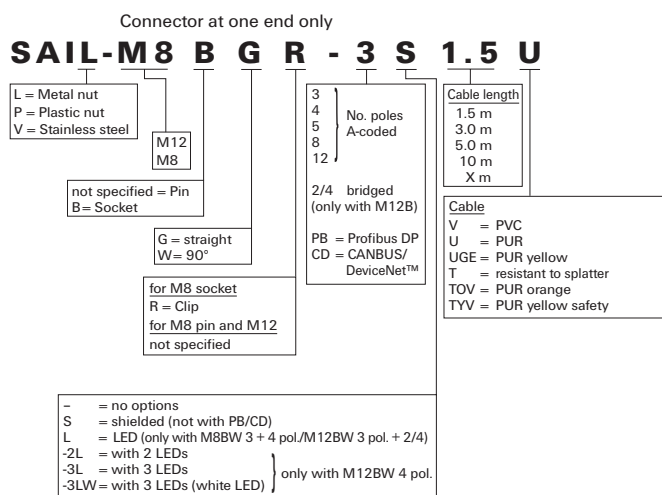


We offer a wide range of products in this category:

- 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



M12



M8



M8 snap



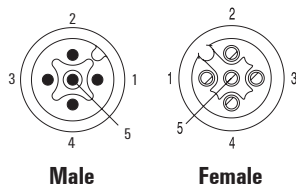
Twin cabling



One end without connector

M12

A-coded



Male

Female



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
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
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
3-pole	
SAIL-M12W-3-1.5V	1925510150
SAIL-M12W-3-1.5U	9456690150
SAIL-M12W-3-1.5UGE	1093160150
SAIL-M12W-3-1.5T	1021760150
4-pole	
SAIL-M12BG-4-1.5V	1925580150
SAIL-M12BG-4-1.5U	9457730150
SAIL-M12BG-4-1.5UGE	1092920150
SAIL-M12BG-4-1.5T	1968580150
5-pole	
SAIL-M12BG-5-1.5V	1925590150
SAIL-M12BG-5-1.5U	9457910150
SAIL-M12BG-5-1.5UGE	1092930150
SAIL-M12BG-5-1.5T	1021670150
3-pole	
SAIL-M12BW-3-1.5V	1925630150
SAIL-M12BW-3-1.5U	9457320150
SAIL-M12BW-3-1.5UGE	1092940150
SAIL-M12BW-3-1.5T	1968560150
4-pole	
SAIL-M12BW-4-1.5V	1925640150
SAIL-M12BW-4-1.5U	9457740150
SAIL-M12BW-4-1.5UGE	1092960150
SAIL-M12BW-4-1.5T	1968570150
5-pole	
SAIL-M12BW-5-1.5V	1925650150
SAIL-M12BW-5-1.5U	9457690150
SAIL-M12BW-5-1.5UGE	1092970150
SAIL-M12BW-5-1.5T	1021690150
Note	
Other lengths on request	

Standard cable lengths

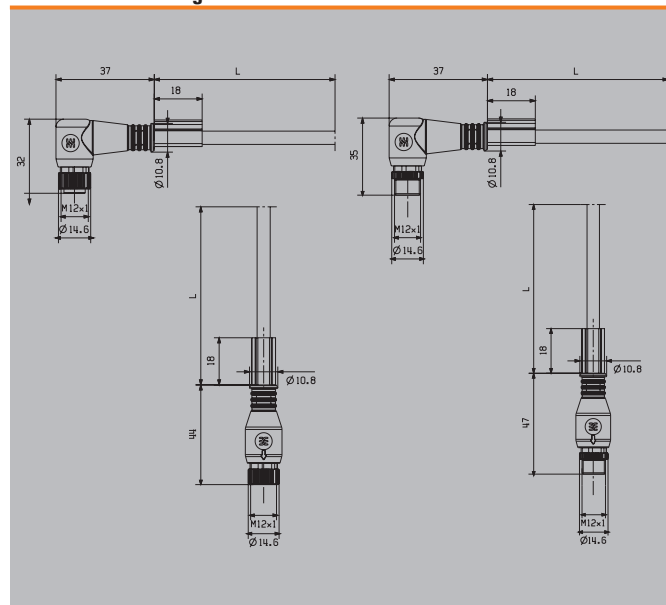
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

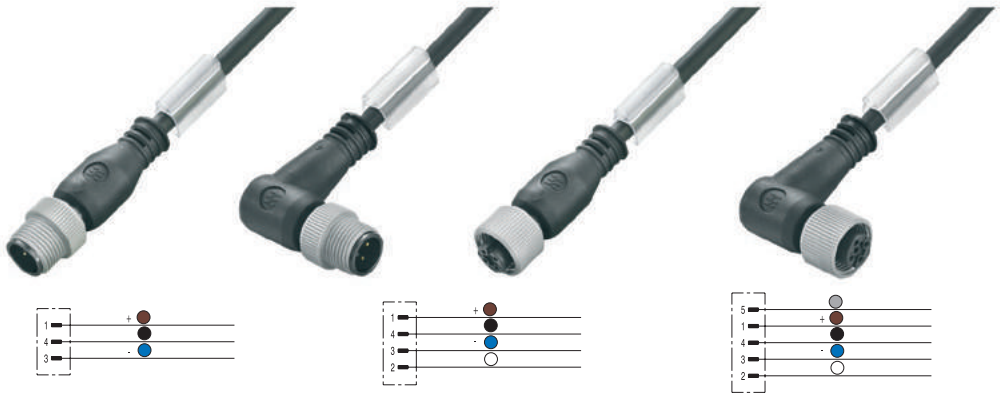
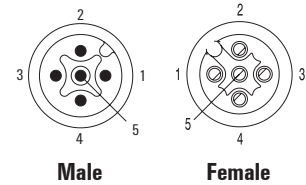
Further technical data of the cables on catalog.weidmuller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

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



Ordering data		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

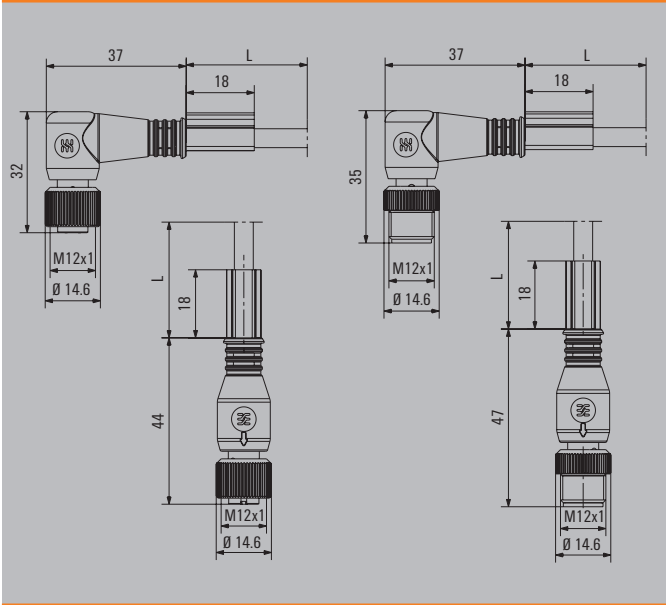
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

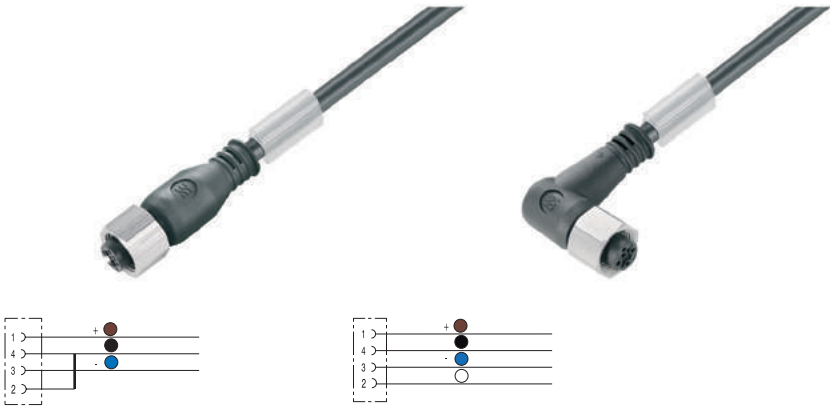
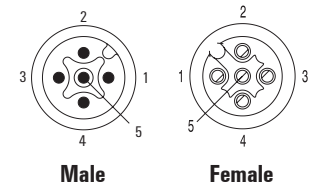
Core cross-section	0.34 mm²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12 (plastic nut): 0.6 - 0.8 Nm
Approvals	cULus

Further technical data of the cables on catalog.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

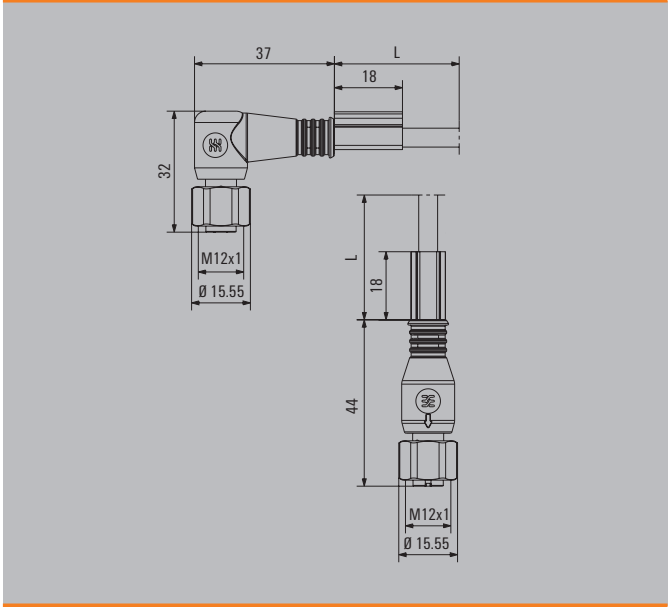
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm²
Rated voltage	250 V
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

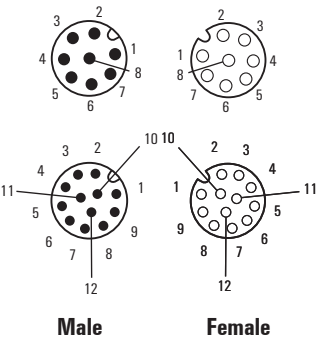
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

One end without connector
M12
A-coded



Ordering data		8-pole		12-pole	
Male, straight					
PUR halogen-free	1.5 m	SAIL-M12G-8-1.5U	1279410150	SAIL-M12G-12-1.5U	1311700150
Male, angled					
PUR halogen-free	1.5 m	SAIL-M12W-8-1.5U	1279420150	SAIL-M12W-12-1.5U	1311690150
Female, straight					
PUR halogen-free	1.5 m	SAIL-M12BG-8-1.5U	1865870150	SAIL-M12BG-12-1.5U	1879710150
Female, angled					
PUR halogen-free	1.5 m	SAIL-M12BW-8-1.5U	1883460150	SAIL-M12BW-12-1.5U	1898240150
Male, straight - female, straight					
PUR halogen-free	1.5 m	SAIL-M12GM12G-8-1.5U	1279440150	SAIL-M12GM12G-12-1.5U	1964400150
Male, straight - female, angled					
PUR halogen-free	1.5 m	SAIL-M12GM12W-8-1.5U	1279450150		
Note		Other lengths on request		Other lengths on request	

Standard cable lengths

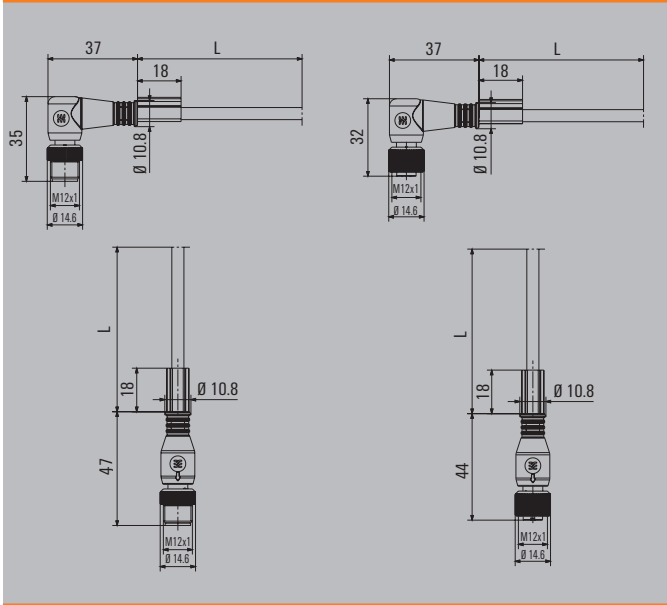
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

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	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	cULus

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

Dimensioned drawing

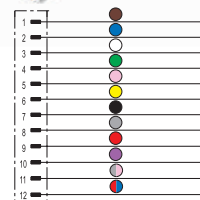
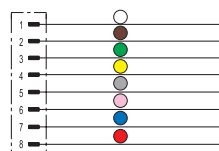
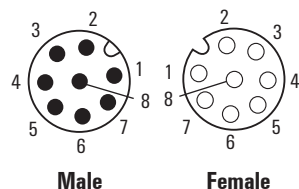


One end without connector

M12

A-coded

shielded

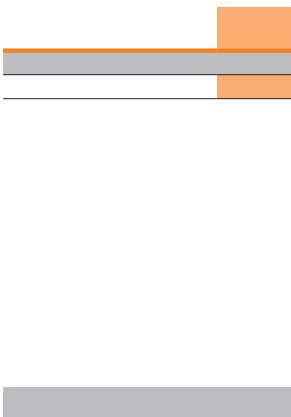


Ordering data

Elevating 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

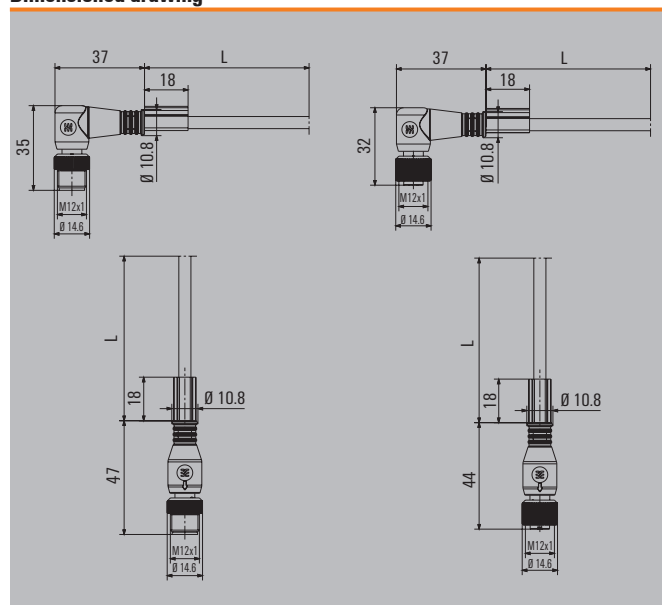
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

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	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	cULus

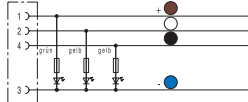
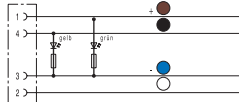
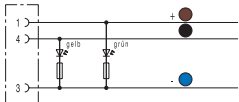
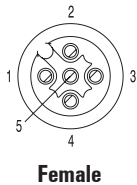
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

One end without connector
M12 with LED
A-coded



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

2 LEDs

4-pole

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

3 LEDs

4-pole

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

Standard cable lengths

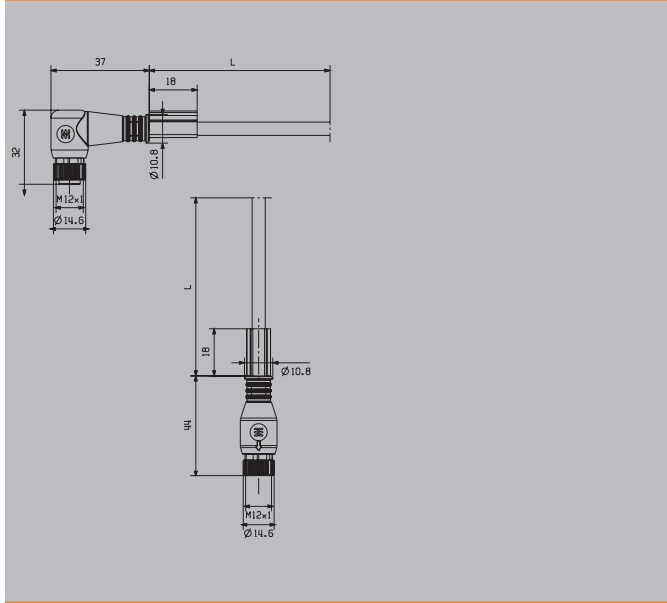
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

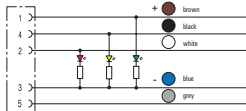
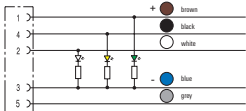
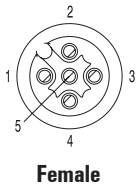
Technical data	
Core cross-section	0.34 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	UL

Further technical data of the cables on catalog.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	
Other lengths on request	

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

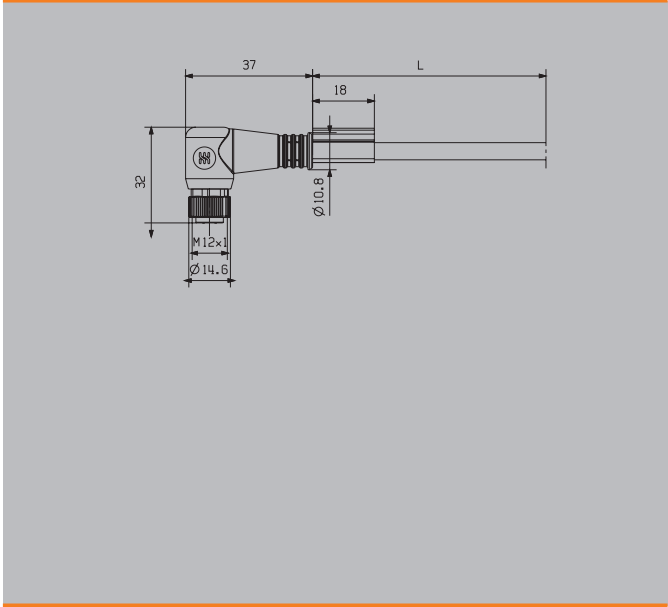
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +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	EAC

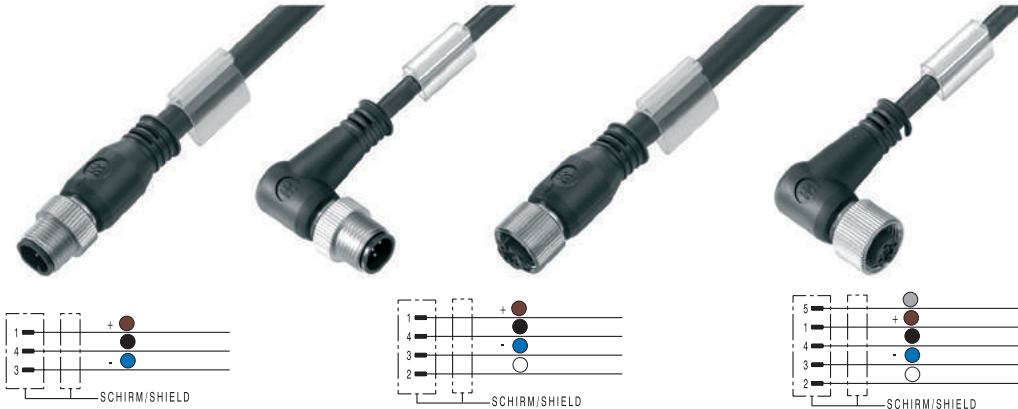
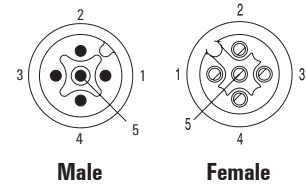
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

One end without connector
M12
A-coded
shielded



Ordering data		3-pole		4-pole		5-pole	
Male, straight							
PUR halogen-free	1.5 m	SAIL-M12G-3S1.5U	1906470150	SAIL-M12G-4S1.5U	1906480150	SAIL-M12G-5S1.5U	1926690150
Male, angled							
PUR halogen-free	1.5 m	SAIL-M12W-3S1.5U	1906500150	SAIL-M12W-4S1.5U	1059650150	SAIL-M12W-5S1.5U	1906520150
Female, straight							
PUR halogen-free	1.5 m	SAIL-M12BG-3S1.5U	1867410150	SAIL-M12BG-4S1.5U	1812540150	SAIL-M12BG-5S1.5U	9456140150
Female, angled							
PUR halogen-free	1.5 m	SAIL-M12BW-3S1.5U	1906950150	SAIL-M12BW-4S1.5U	1808970150	SAIL-M12BW-5S1.5U	1906540150
Note		Other lengths on request		Other lengths on request		Other lengths on request	

Standard cable lengths

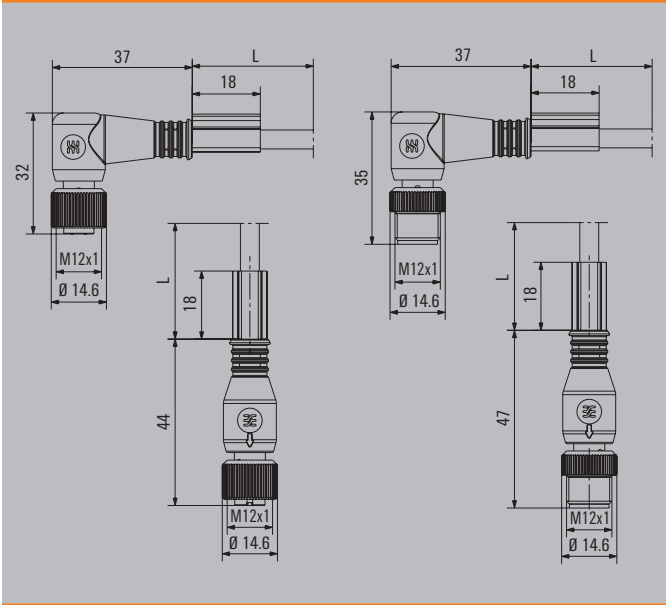
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

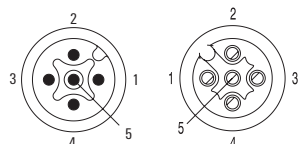
Core cross-section	0.34 mm ²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	cULus

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

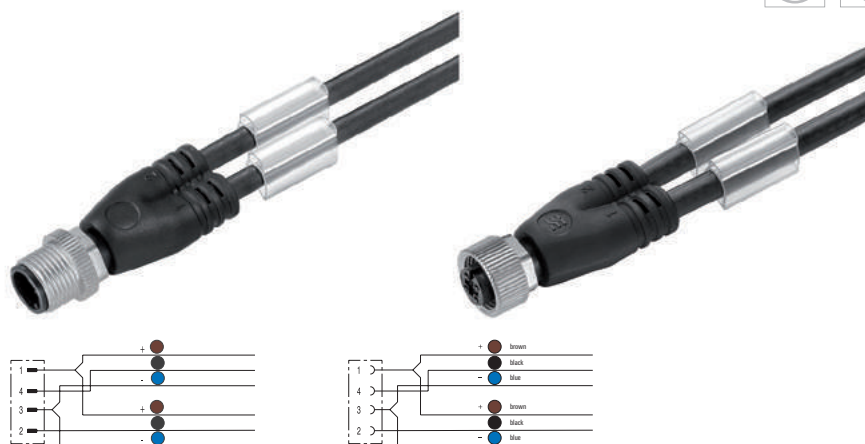
Dimensioned drawing



One end without connector
M12 twin cabling



Male

Female

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

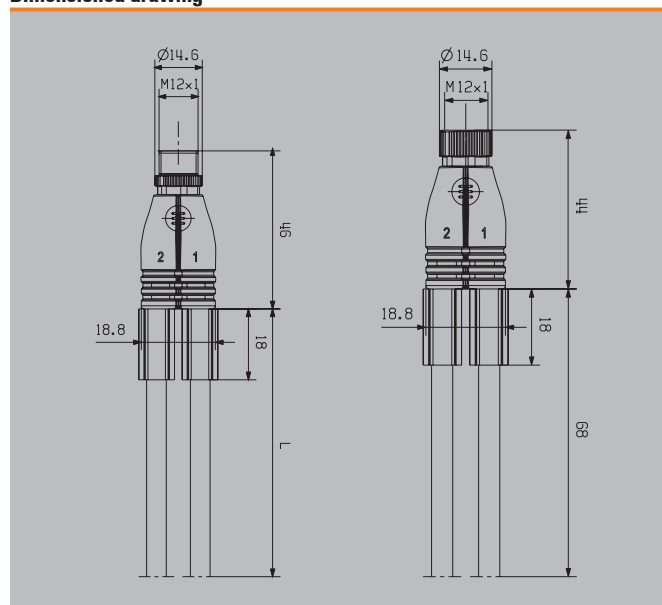
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V
Rated current	4 A
Temperature range of housing	-40 ... +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	CSA: cULus

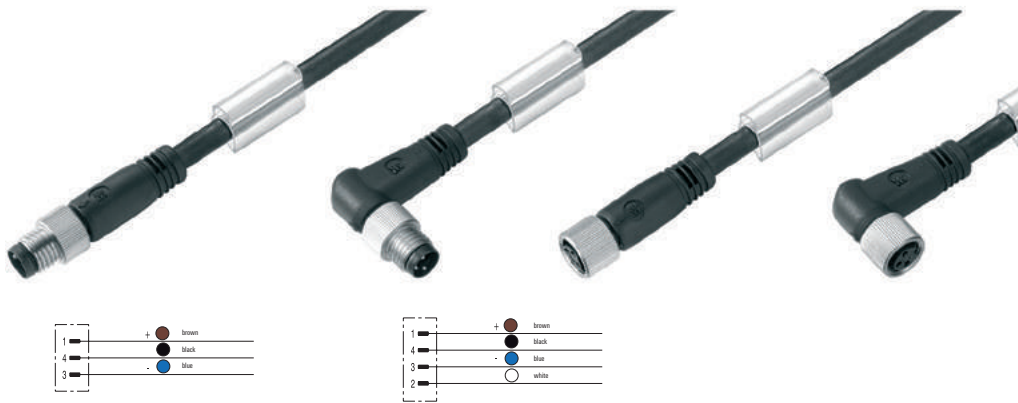
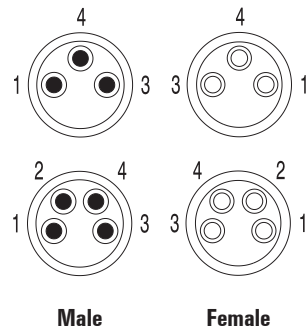
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

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

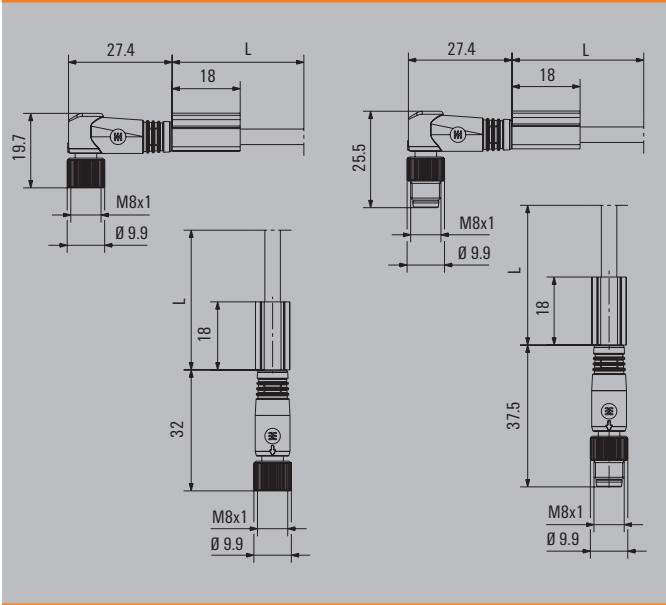
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

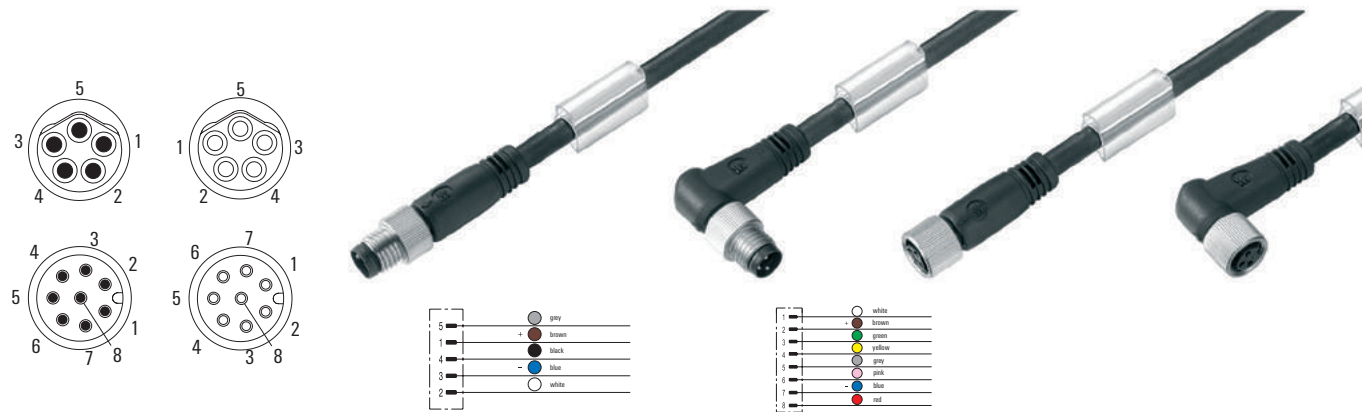
Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	cULus

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

Dimensioned drawing



One end without connector
M8



Ordering data		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

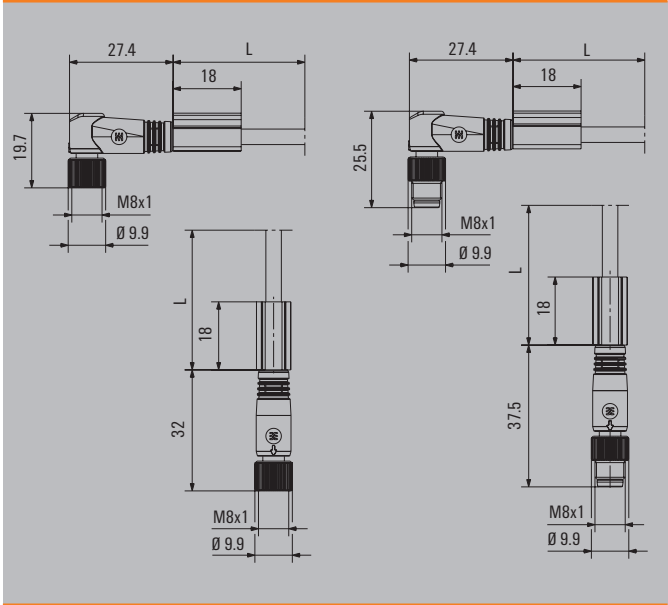
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

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	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP69K, IP65, IP66
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	

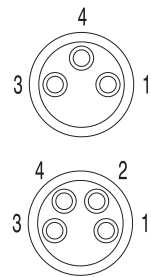
Further technical data of the cables on catalog.weidmuller.com and in Chapter W (Technical Annex)

Dimensioned drawing

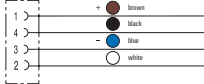
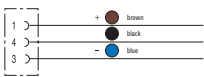


Sensor cables

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

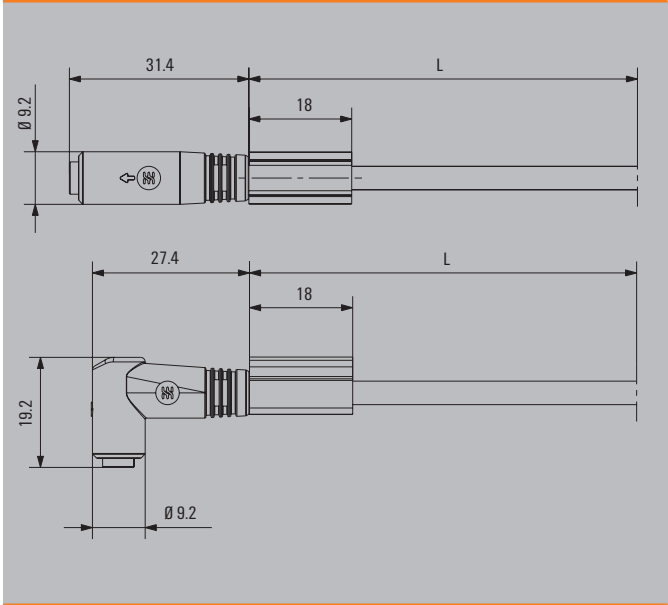
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65 (in plugged condition)
AF size	
Tightening torque	
Approvals	cULus

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

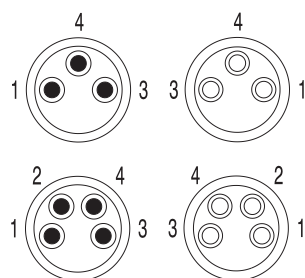
Dimensioned drawing



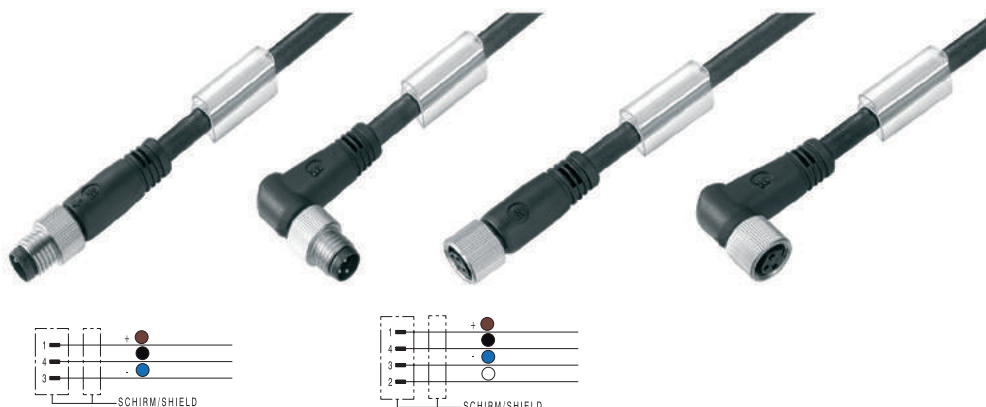
One end without connector

M8

shielded



Male

Female

Ordering data

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-M8G-3S1.5U	1906560150
SAIL-M8W-3S1.5U	1906580150
SAIL-M8BG-3S1.5U	1906600150
SAIL-M8BW-3S1.5U	1906620150
Other lengths on request	

	4-pole
SAIL-M8G-4S1.5U	1906570150
SAIL-M8W-4S1.5U	1906590150
SAIL-M8BG-4S1.5U	1906610150
SAIL-M8BW-4S1.5U	1906630150
Other lengths on request	



Standard cable lengths

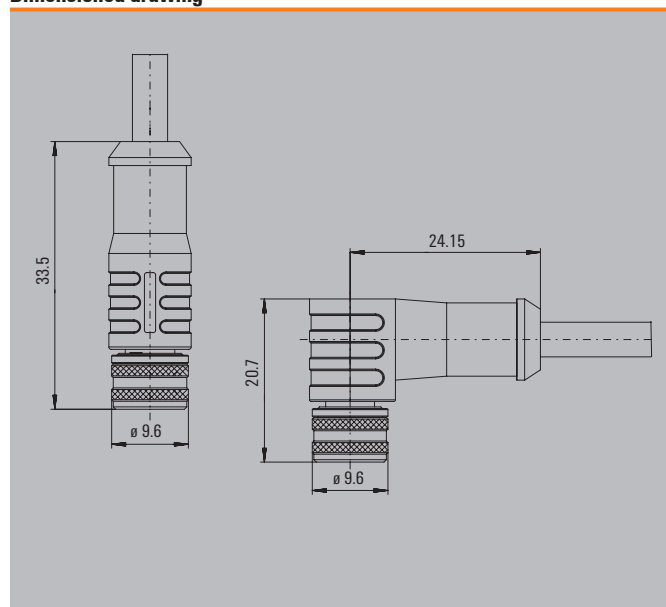
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

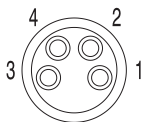
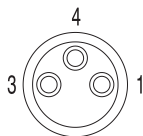
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



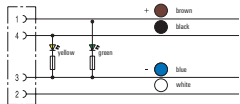
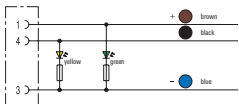
Sensor cables

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

Standard cable lengths

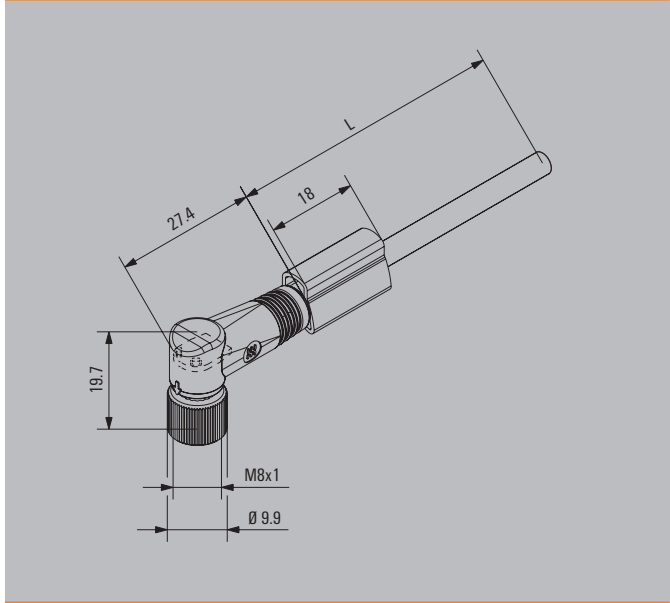
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Technical data	
Core cross-section	0.25 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +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	CSA; UL

Further technical data of the cables on catalog.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			

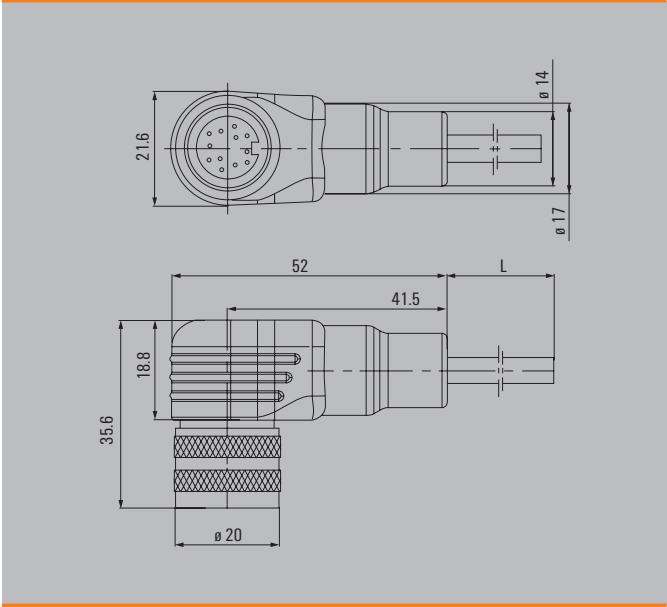
Standard cable lengths

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	EAC

Dimensioned drawing



Connecting cables

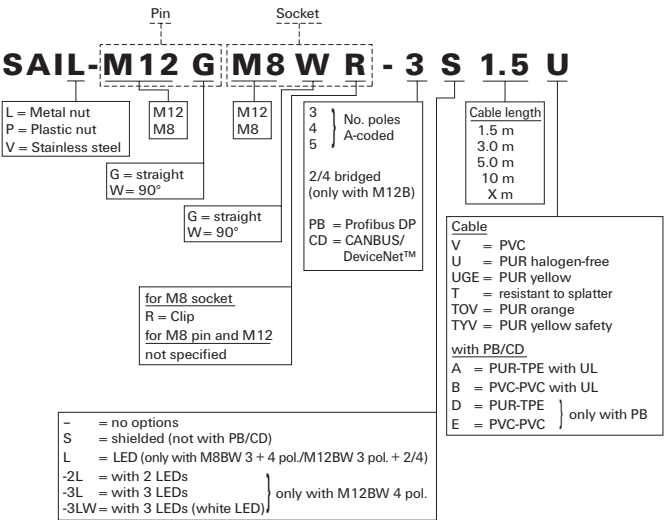


We offer a wide range of products in this category:

- 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



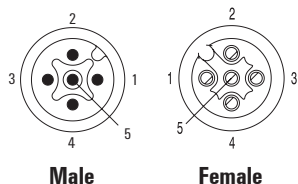
Twin cabling



Connecting cables

M12 to M12

A-coded



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
Note	
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
Note	
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
Note	
Other lengths on request	

Standard cable lengths

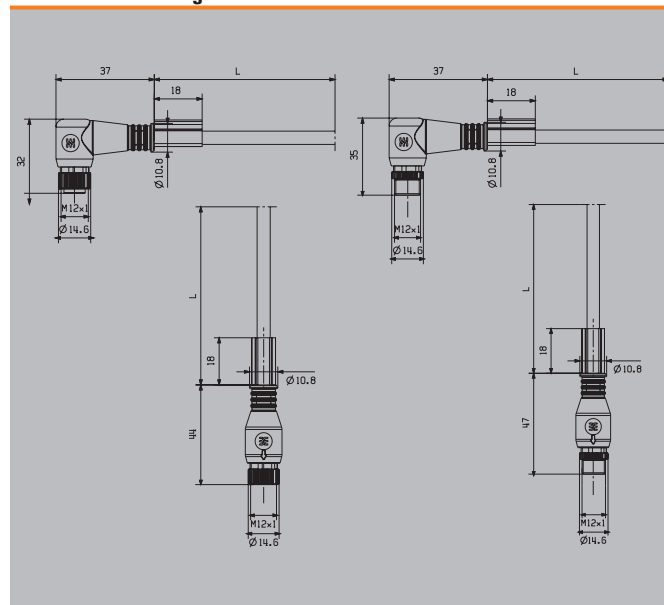
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

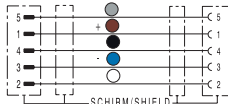
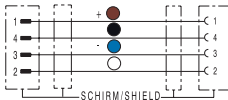
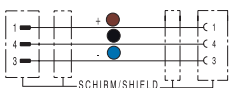
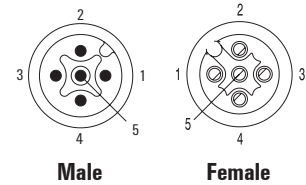
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

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

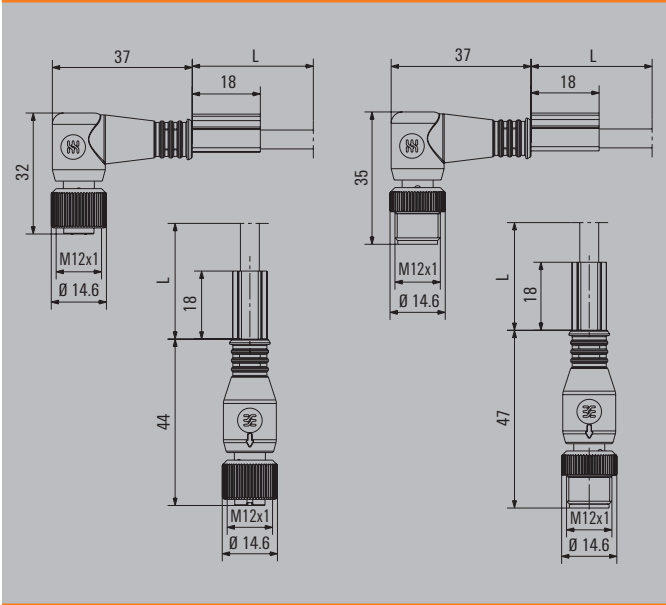
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

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

Dimensioned drawing

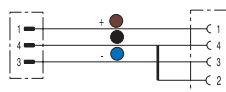
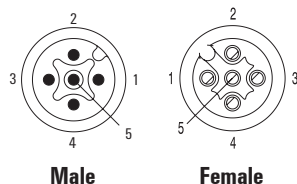


Connecting cables

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
SAIL-M12GM12W-2/4-1.5V	1925370150
SAIL-M12GM12W-2/4-1.5U	9457890150
SAIL-M12GM12W-2/4-1.5UGE	1093040150
Other lengths on request	

The diagram illustrates the recursive decomposition of a 2D array into four quadrants. The array is divided by a horizontal and vertical line. The top-left quadrant is orange, the top-right is gray, the bottom-left is white, and the bottom-right is gray. The array is divided by a horizontal and vertical line.

Standard cable lengths

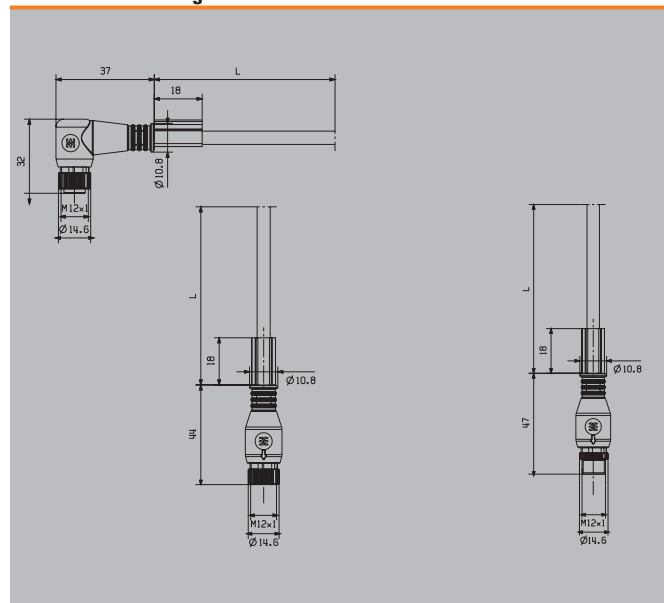
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

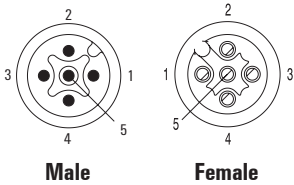
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

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

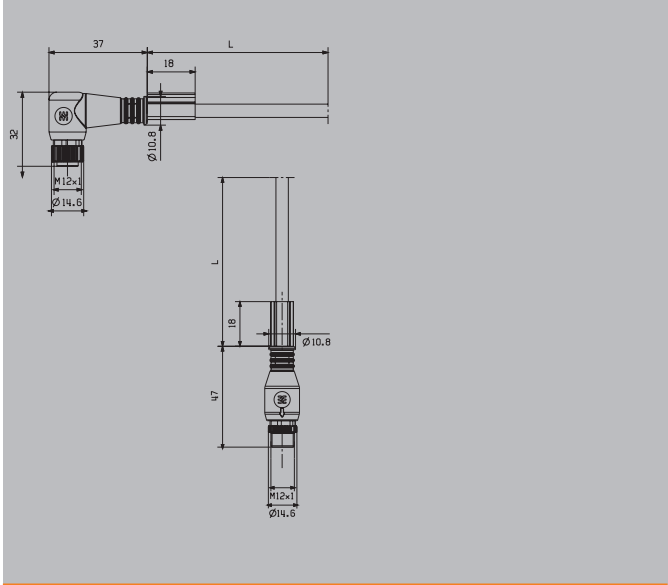
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

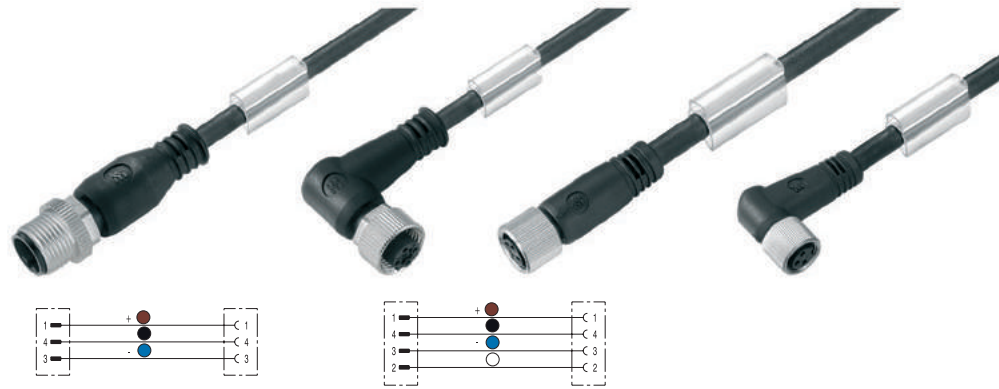
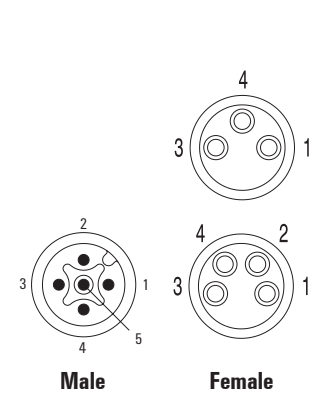
Core cross-section	0.34 mm²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	UL

Further technical data of the cables on catalog.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

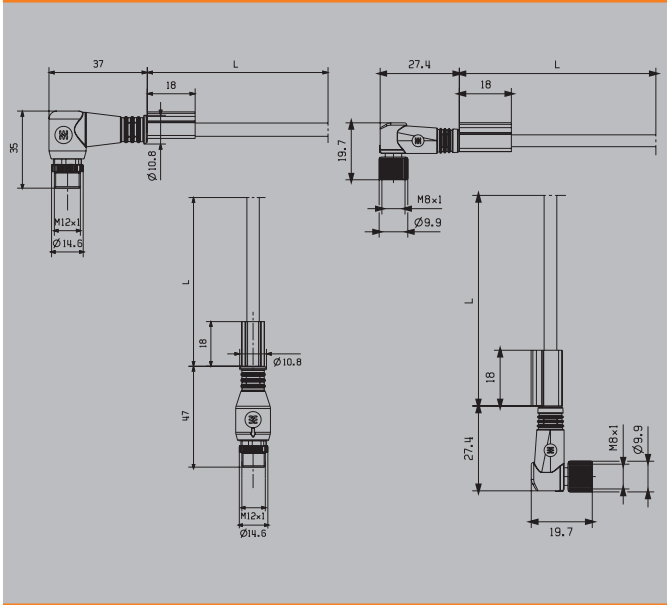
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm ²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +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, M12: 0.8 - 1.2 Nm
Approvals	EAC

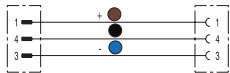
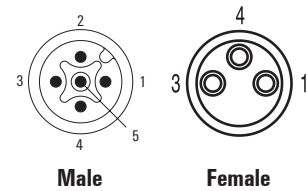
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Sensor cables

Connecting cables
M12 to M8
snap-on connection



Ordering data		3-pole	
Male, straight - Female, straight			
PUR halogen-free	1.5 m	SAIL-M12GM8GR-3-1.5U	1984530150
Male, straight - Female, angled			
PUR halogen-free	1.5 m	SAIL-M12GM8WR-3-1.5U	9457570150
PUR halogen-free yellow	1.5 m	SAIL-M12GM8WR-3-1.5UGE	1093150150
Note		Other lengths on request	

Standard cable lengths

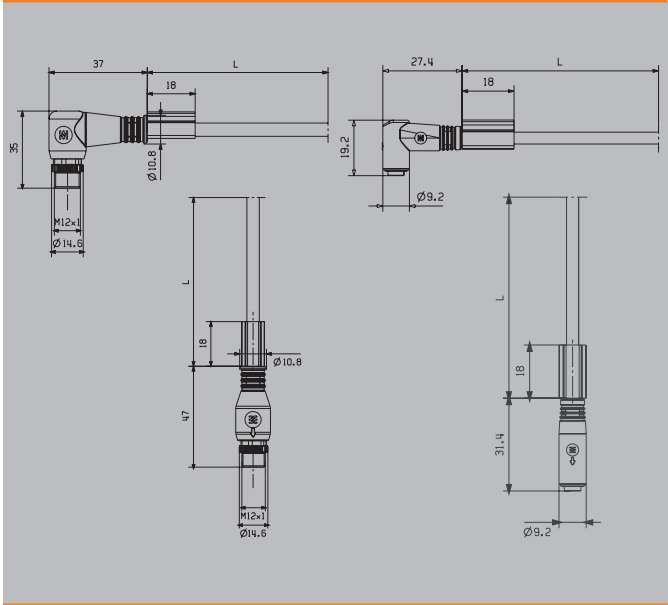
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

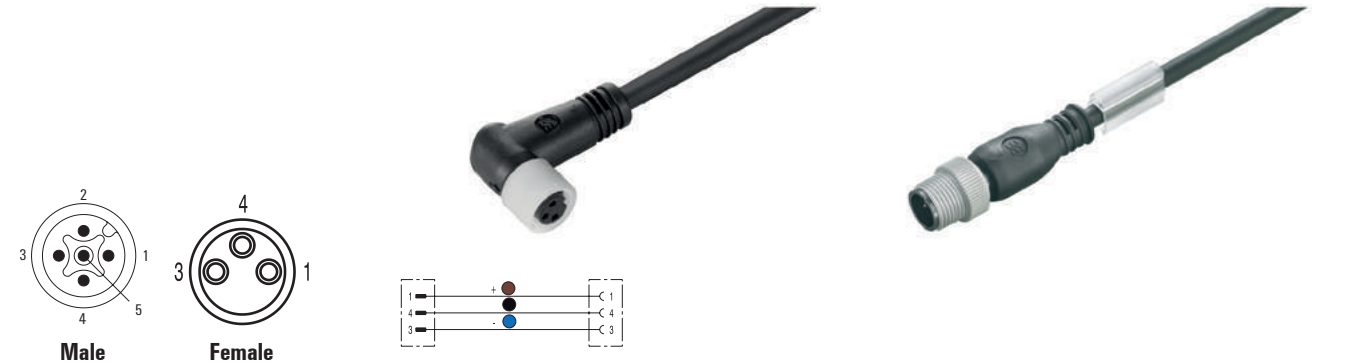
Core cross-section	0.25 mm ²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65 (in plugged condition)
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	EAC

Further technical data of the cables on catalog.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

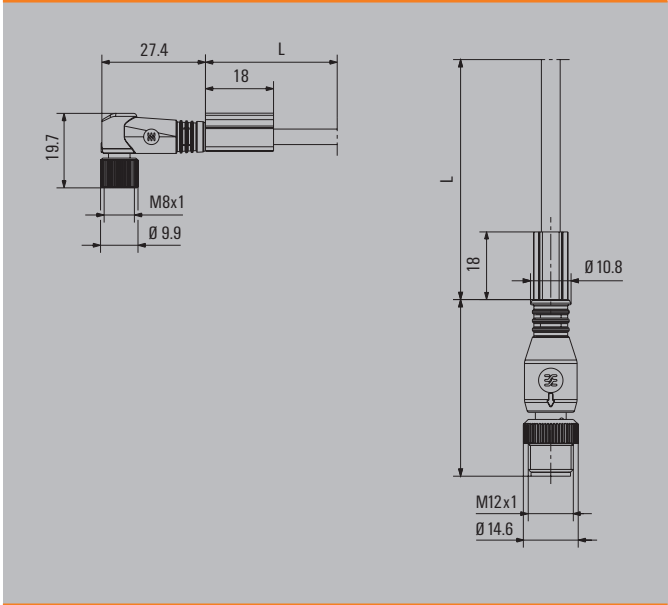
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +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	EAC

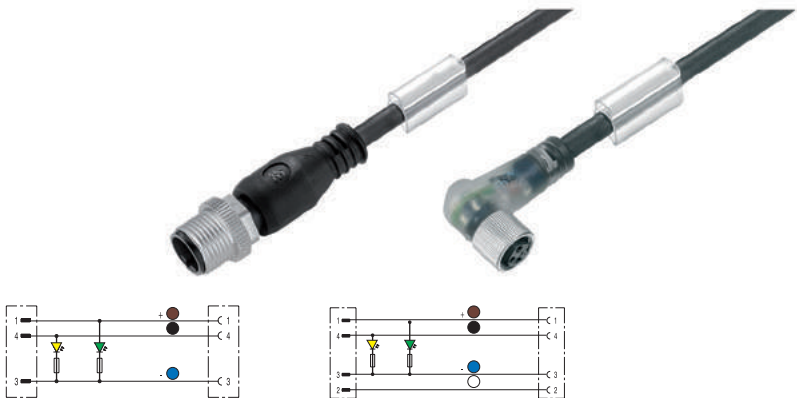
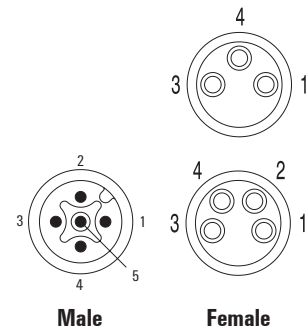
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

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

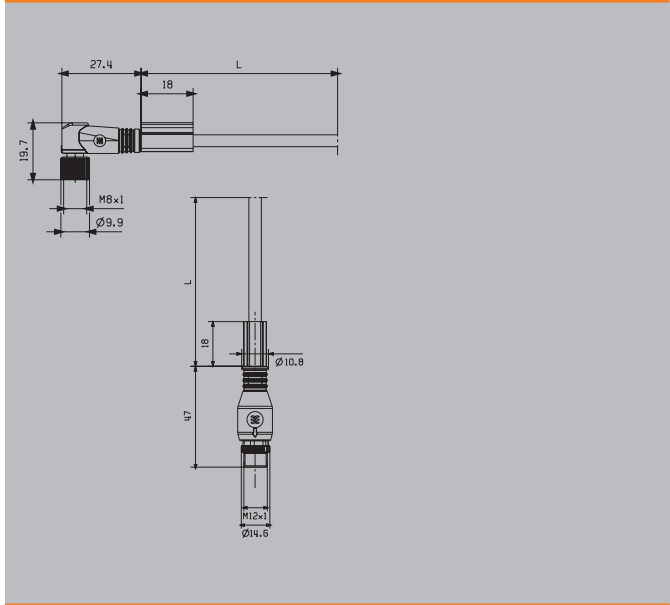
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +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: 0.8 - 1.2 Nm
Approvals	EAC

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

Dimensioned drawing



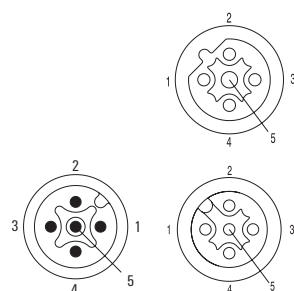
Connecting cables

M12 to USB

A-coded

B-coded

shielded



Male

Female



Ordering data

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

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

5-pole

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

5-pole

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

Standard cable lengths

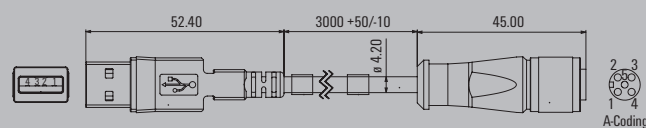
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

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	EAC

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

Dimensioned drawing



1288820300 + 1962800150

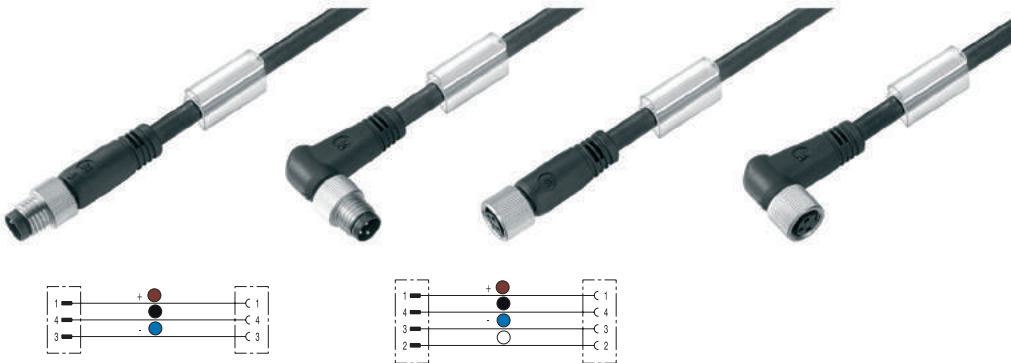
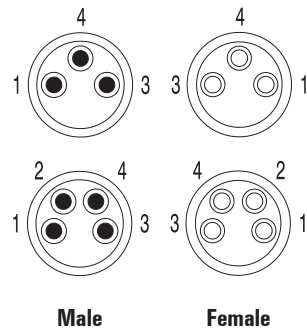
USB-A Connector	Signal	M12 Connector	Signal
Pin 1	+ 5V	Pin 1	+ 5V
Pin 2	- Data	Pin 2	Data-N
Pin 3	+ Data	Pin 3	Ground
Pin 4	Ground	Pin 4	Data-P
Connector Shielding	Shield	Pin 5	Shield

1268520000

USB-A Connector	Signal	M12 Connector	Signal
Pin 1	+ 5V	Pin 1	Data-N
Pin 2	- Data	Pin 2	+ 5V
Pin 3	+ Data	Pin 3	Not connected
Pin 4	Ground	Pin 4	Data-P
Connector Shielding	Shield	Pin 5	Ground

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

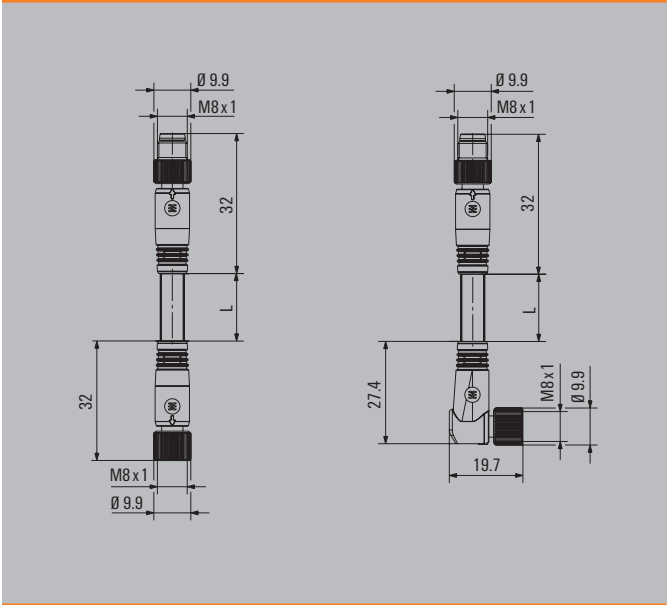
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

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

Dimensioned drawing

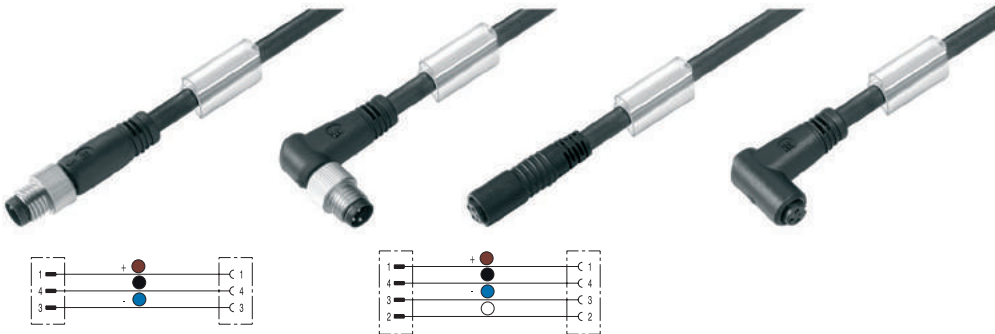
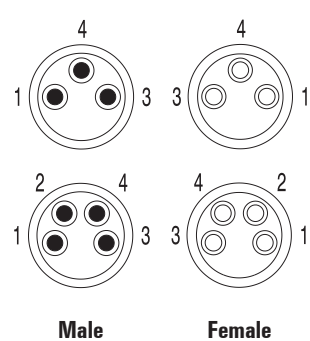




Connecting cables

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

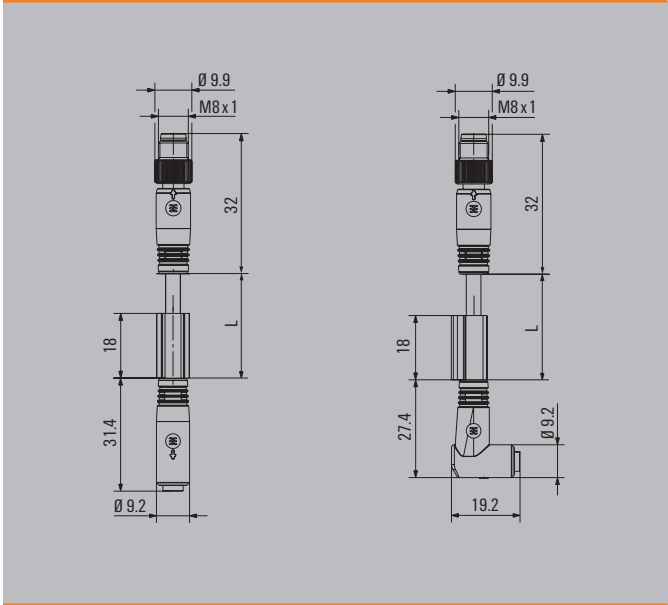
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65 (in plugged condition), IP69
AF size	
Tightening torque	M8: 0.5 - 0.6 Nm
Approvals	cULus

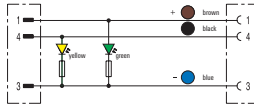
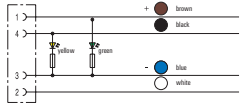
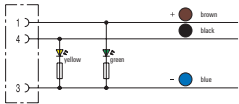
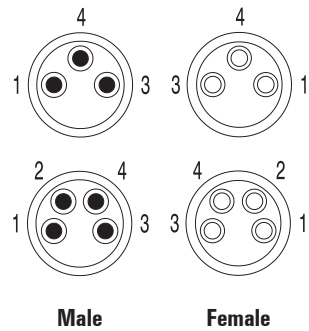
Further technical data of the cables on catalog.weidmuller.com and in Chapter W (Technical Annex)

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

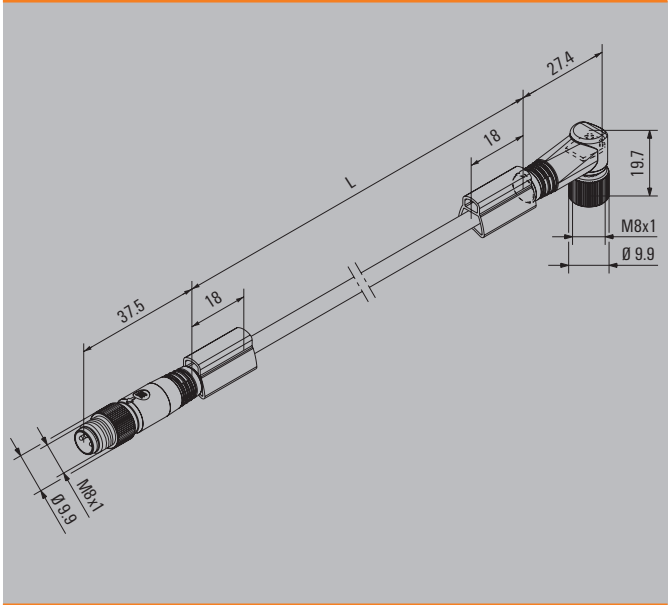
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

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

Dimensioned drawing



Twin cables with M12 and M8 plug-in connectors



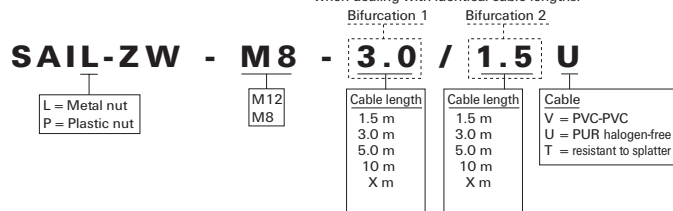
- 4-Pole M12 twin plug as female or male for connection to the distributor
- Straight and angled M8 and M12 plug-in connectors with optional LED status indicator for connection to the sensors
- Various combinations of all plug-in connectors available

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

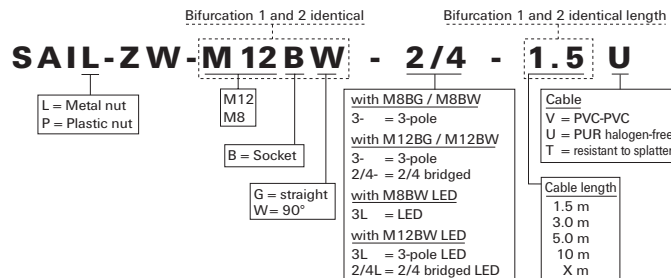
Twin plug
Bifurcation open for "1" and "2" ends

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



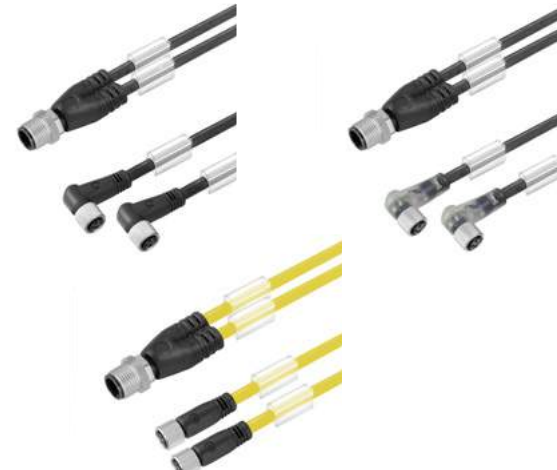
Connecting lines designation code

Twin plug
Connecting cable



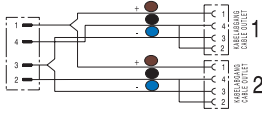
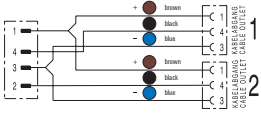
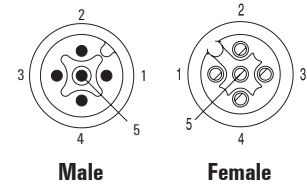
M12 twin to M12

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

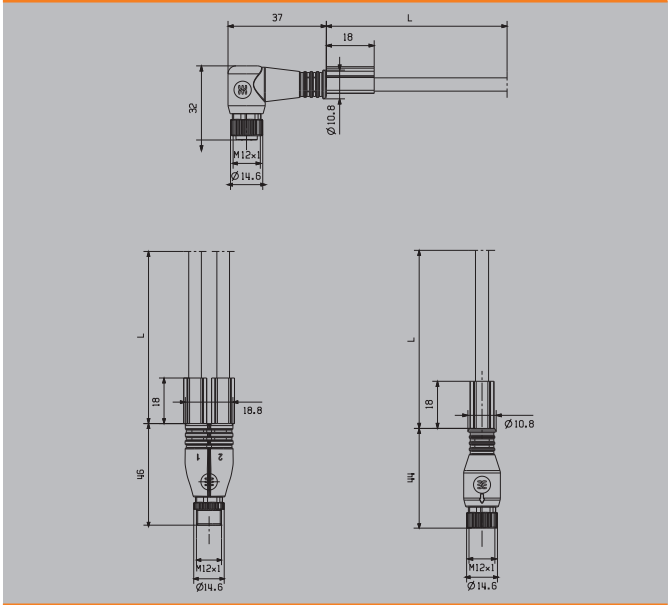
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V
Rated current	4 A
Temperature range of housing	-40 ... +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	CSA; cULus

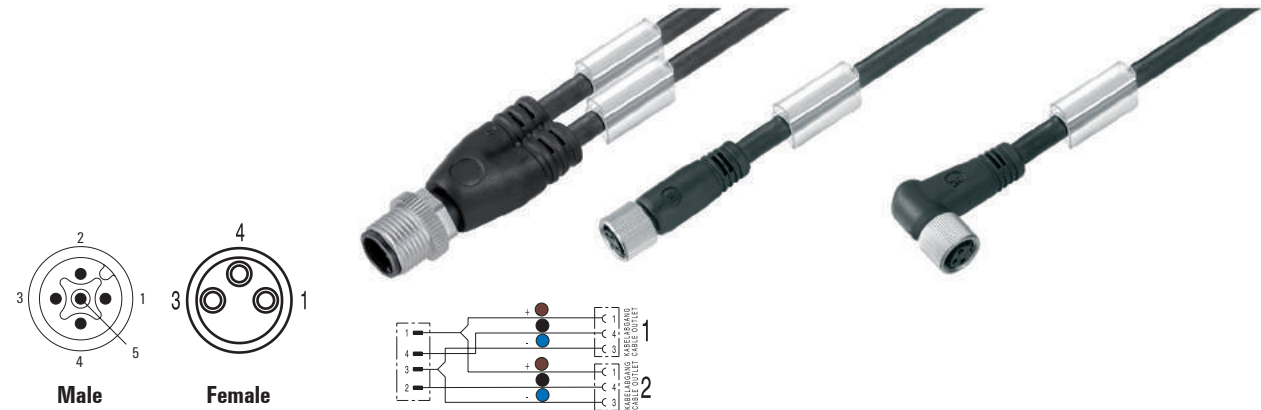
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

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

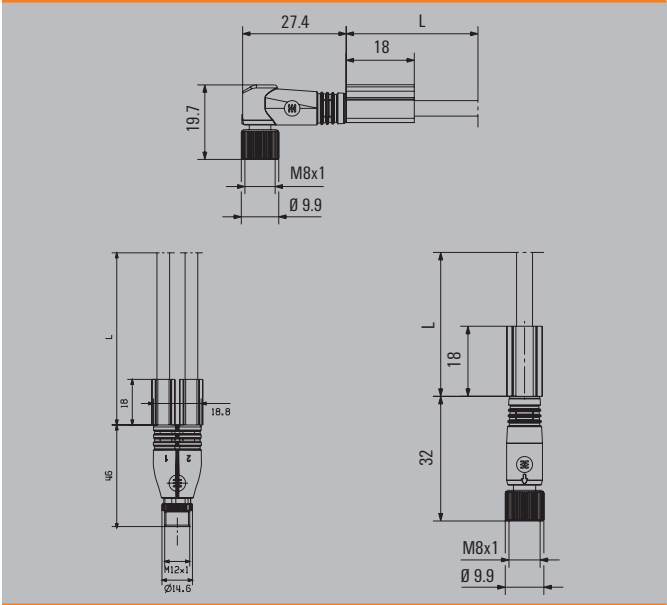
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +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	EAC

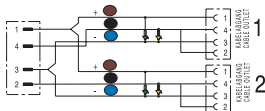
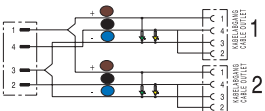
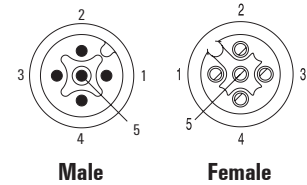
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing





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



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

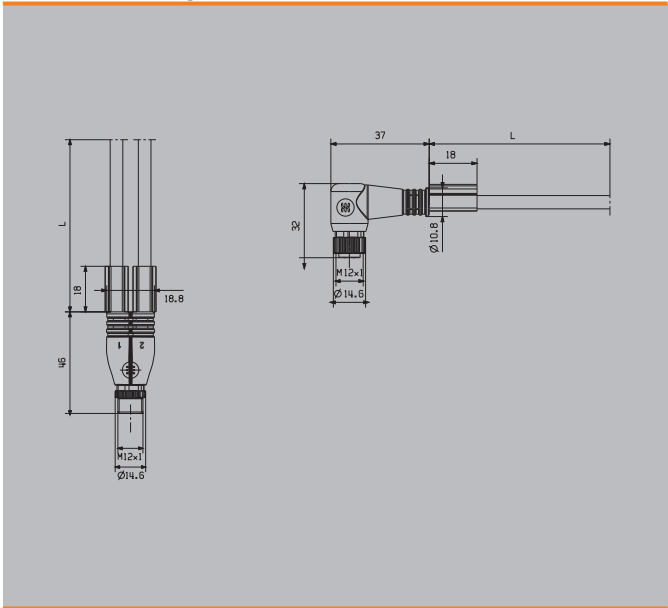
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

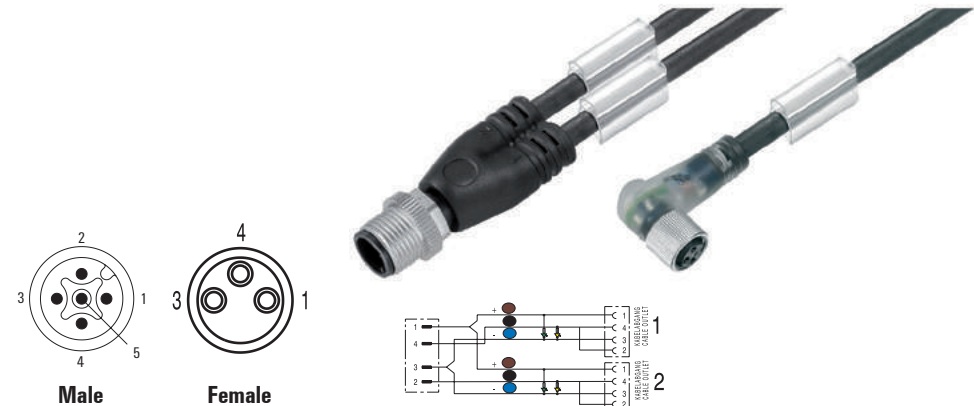
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

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

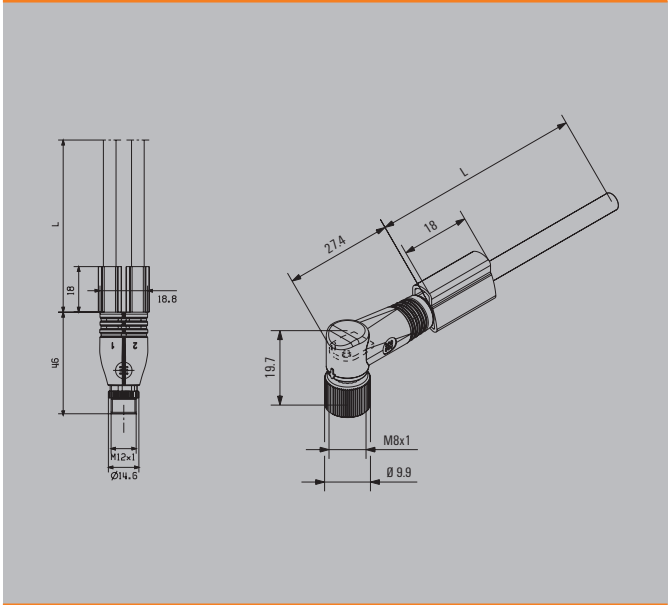
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.25 mm²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +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	EAC

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

Dimensioned drawing



B-coded M12 cables

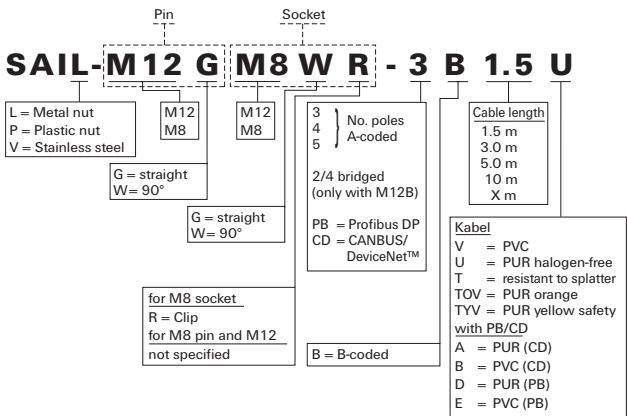
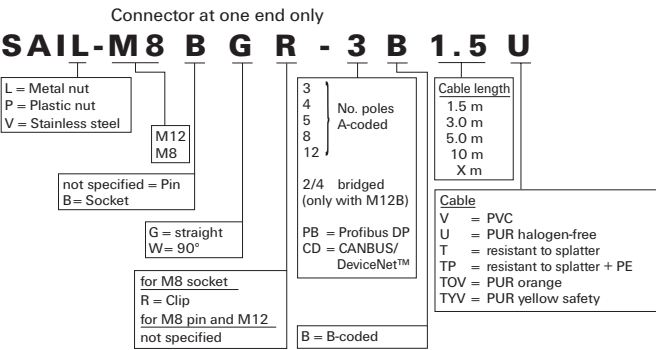


We offer a wide range of products in this category:

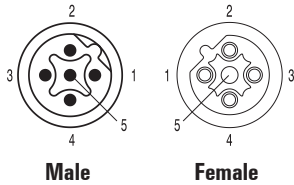
- Straight and angled plug-in connectors with optional LED status indicator
- Various numbers of poles: 3, 4, 5, 8 and 12 poles
- Different cable cross-sections from 0.25 mm² to 0.75 mm²
- Both PVC and PUR cables; the latter are suitable for use in drag chains

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



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

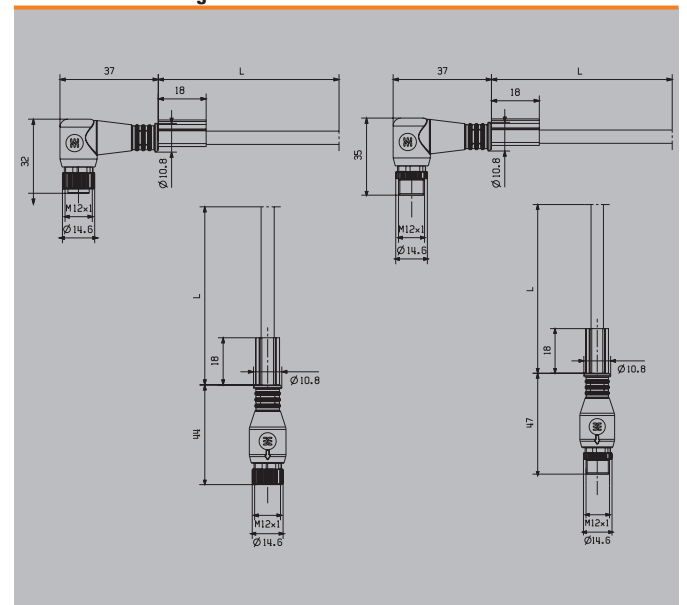
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

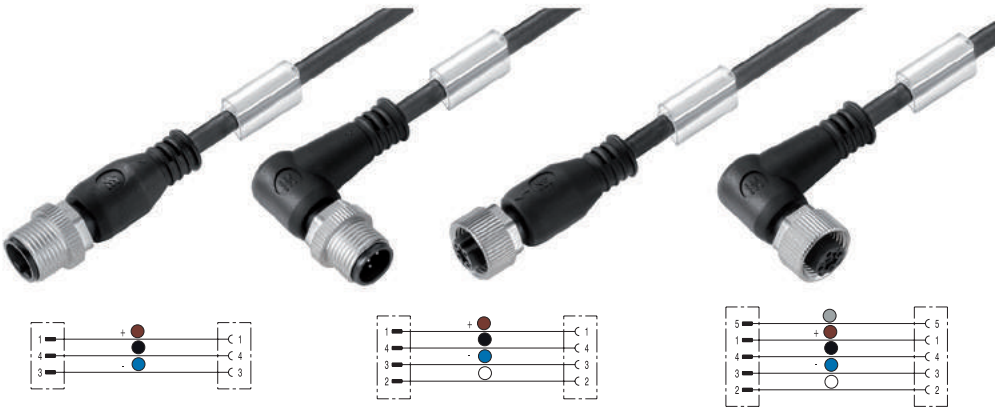
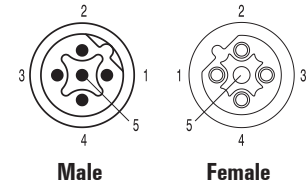
Further technical data of the cables on catalog.weidmuller.com and in Chapter W (Technical Annex)

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

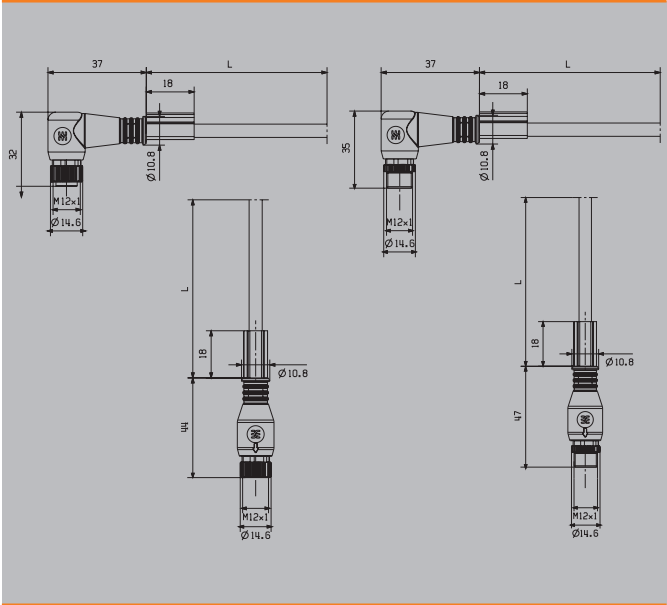
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-40 ... +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	cULus

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

Dimensioned drawing



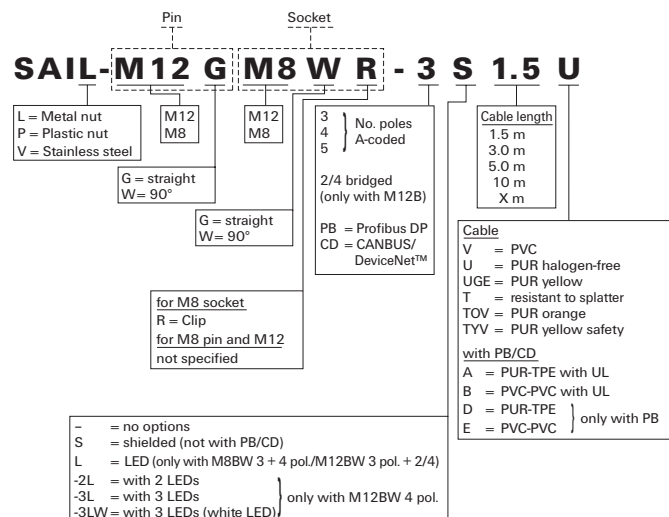
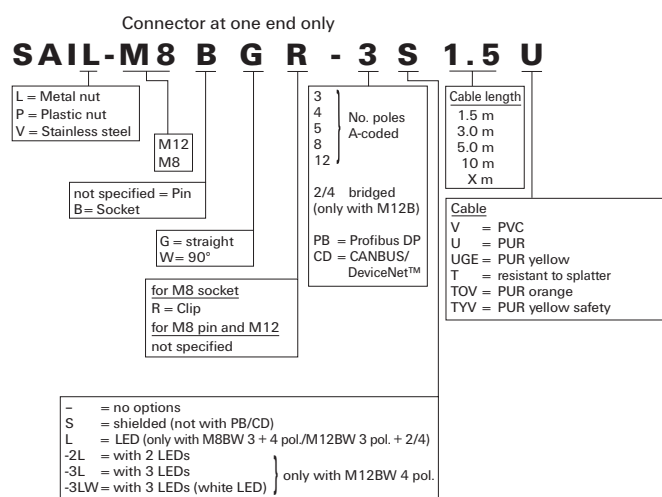
M8 and M12 cables for the automotive industry



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



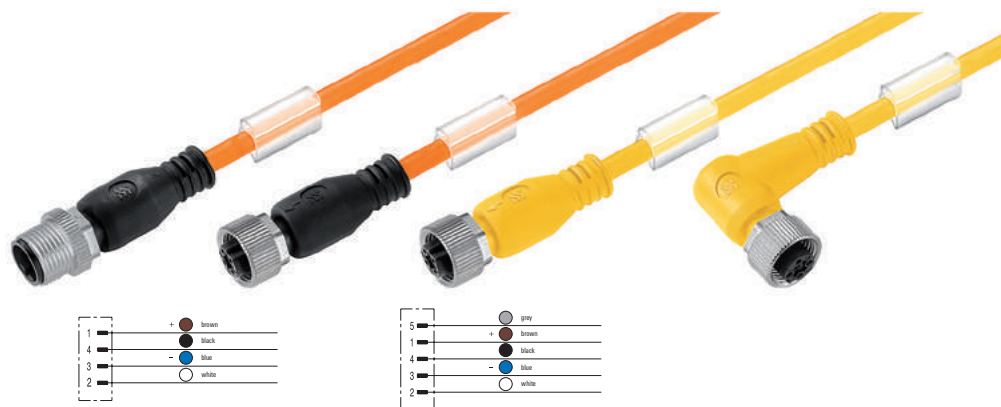
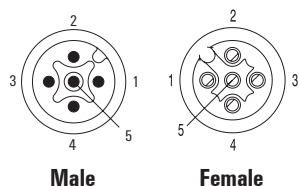
M12 safety application



M8



One end without connector
M12
A-coded
Cables with pictograms



Ordering data

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

4-pole	
SAIL-M12G-4-1.5TOV	2812550150
SAIL-M12BG-4-1.5TOV	2812520150
SAIL-M12BW-4-1.5TOV	2812540150
Other lengths on request	

5-pole	
SAIL-M12G-5-1.5TOV	2812690150
SAIL-M12BG-5-1.5TOV	2812640150
SAIL-M12BG-5-1.5TYV	2812750150
SAIL-M12BW-5-1.5TOV	2812680150
SAIL-M12BW-5-1.5TYV	2812780150
Other lengths on request	

Standard cable lengths

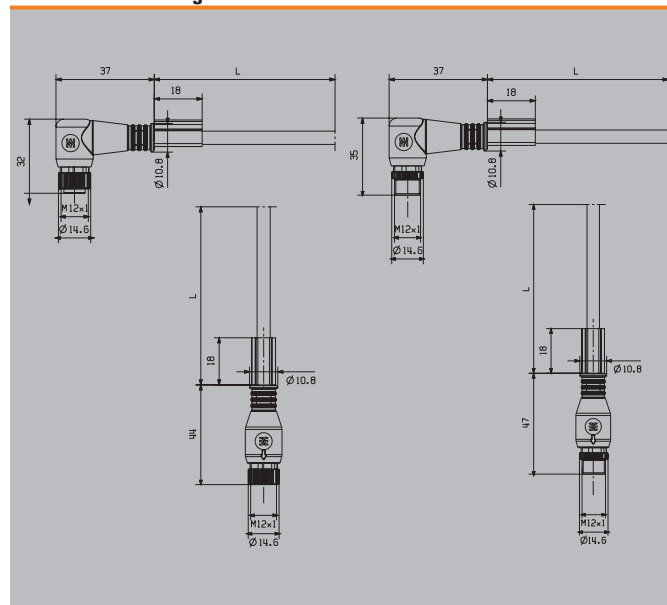
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

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	-40 ... +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	

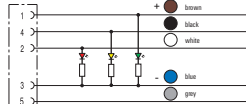
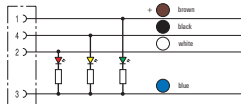
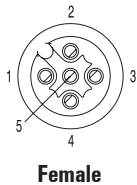
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

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	2812530150
Other lengths on request	

3 LEDs

5-pole

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

Standard cable lengths

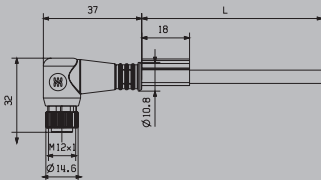
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

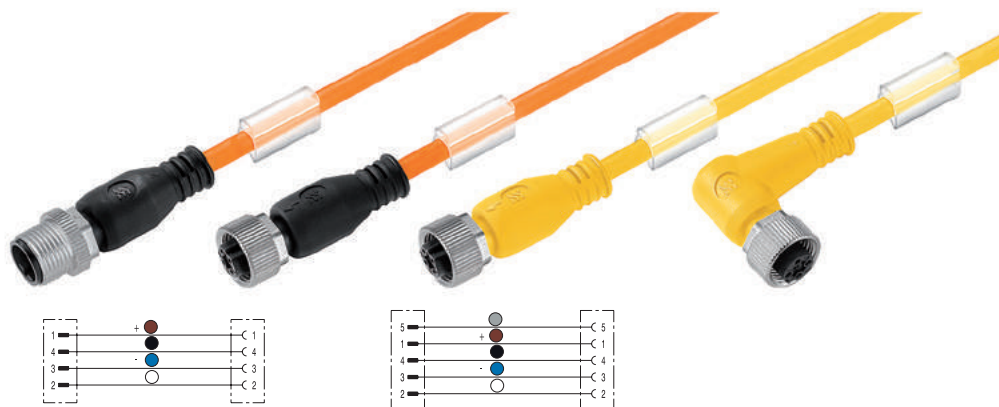
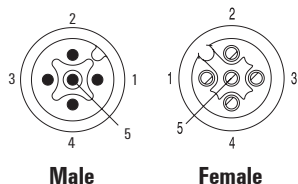
Core cross-section	0.34 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	

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

Dimensioned drawing



Cables with pictograms



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	

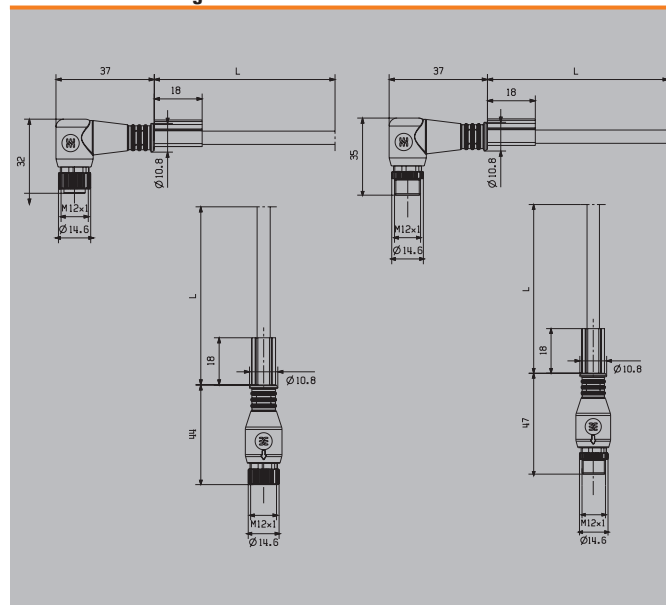
	4-pole
SAIL-M12GM12G-4-1.5TOV	2812600150
SAIL-M12GM12W-4-1.5TOV	2812630150
Other lengths on request	

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

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

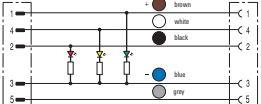
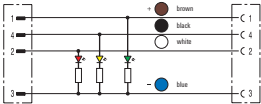
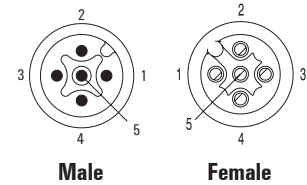
Core cross-section	0.34 mm ²
Rated voltage	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	

Dimensioned drawing



Sensor cables
Automotive industry

Connecting cables
M12 to M12 with LED
A-coded
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 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

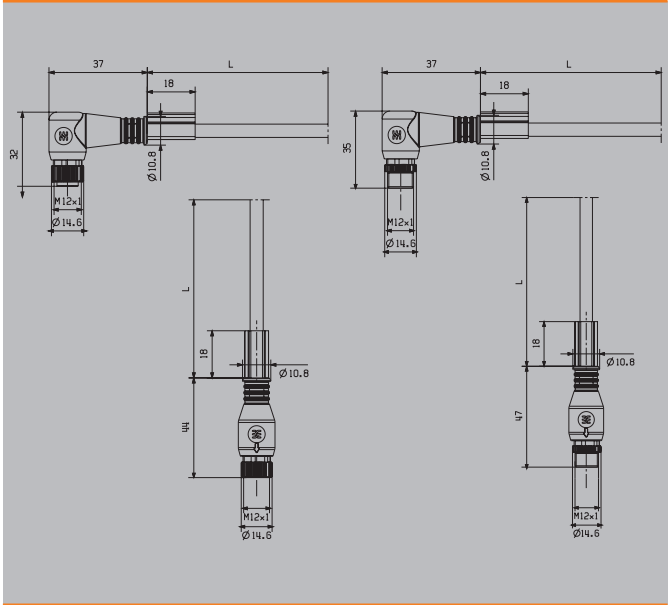
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

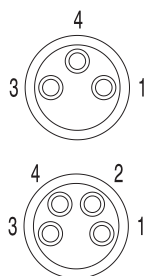
Core cross-section	0.34 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	

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

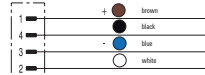
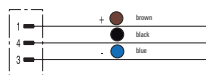
Dimensioned drawing



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

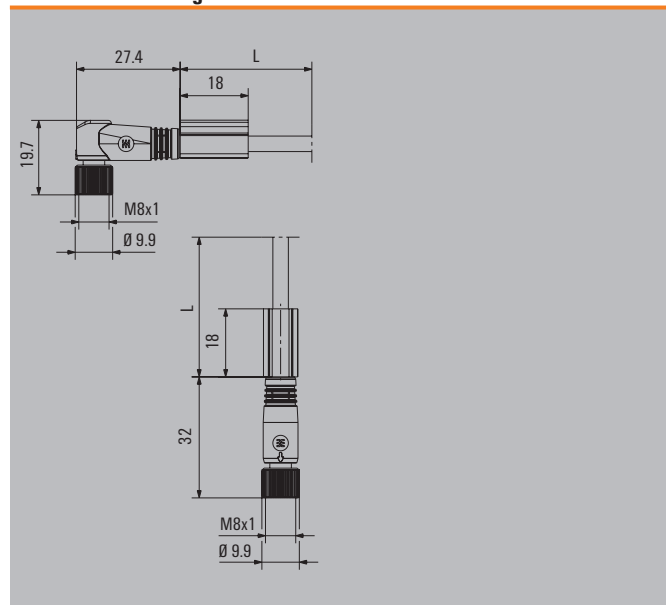
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.34 mm ²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +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	

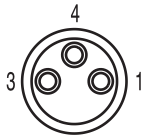
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

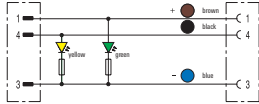
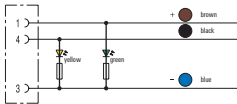


Sensor cables
Automotive industry

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



Female



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

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

Standard cable lengths

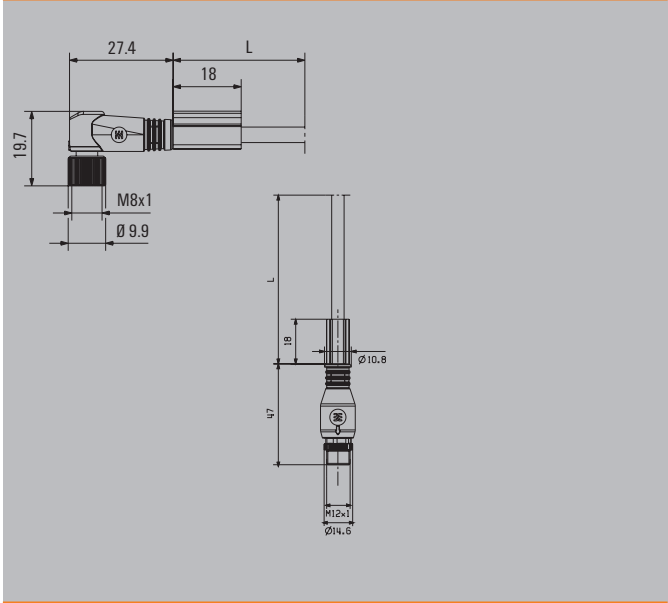
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

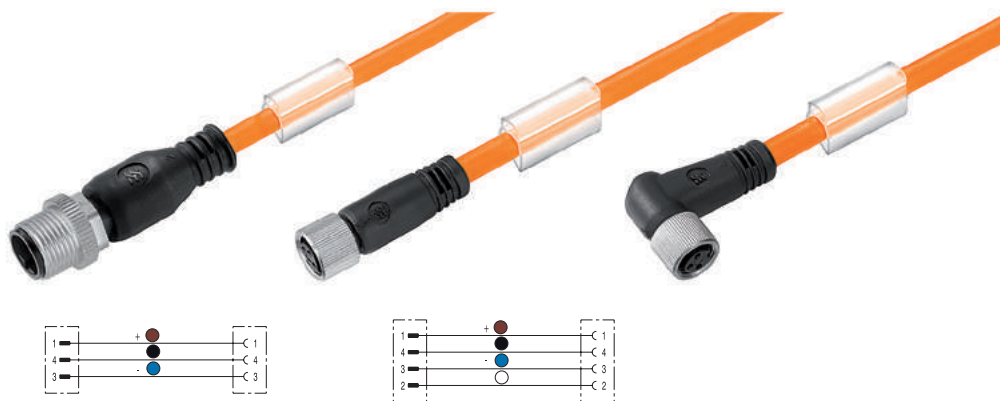
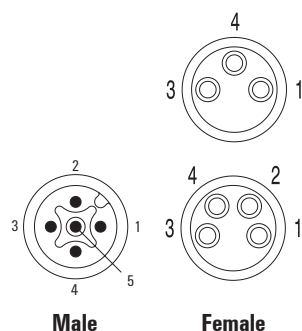
Core cross-section	0.34 mm ²
Rated voltage	24 V DC
Rated current	4 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP66, IP67, IP68, when screwed in
AF size	12
Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm
Approvals	

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

Dimensioned drawing



Cables with pictograms



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	

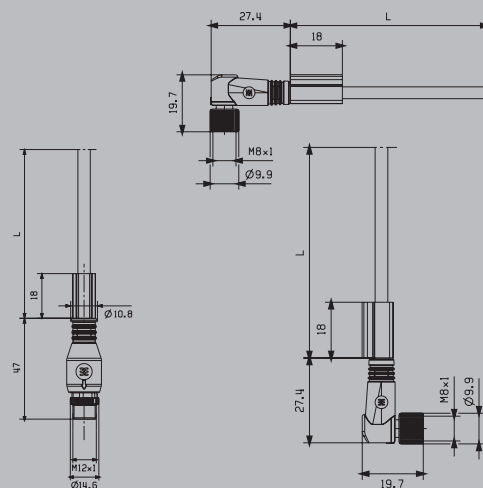
	4-pole
SAIL-M12GM8G-4-1.5TOV	2812960150
SAIL-M12GM8W-4-1.5TOV	2812970150
Other lengths on request	

Response	Percentage
Yes	65%
No	35%
Don't know	0%

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

Core cross-section	0.34 mm ²
Rated voltage	60 V
Rated current	4 A
Temperature range of housing	-40 ... +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	

Dimensioned drawing

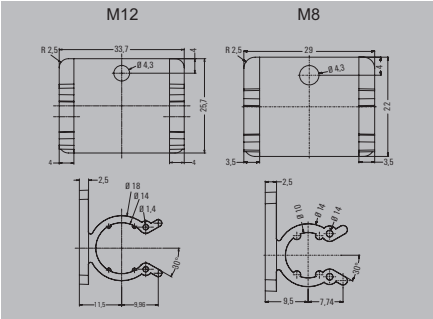


Connectors – accessories

Connectors – accessories

SAI Clip

M8 screw connection

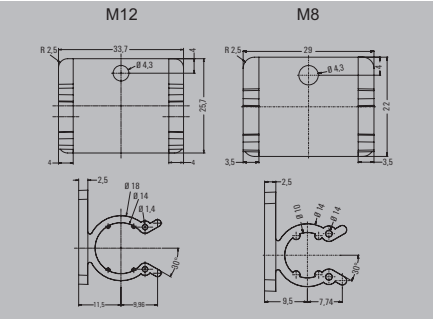


Ordering data

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

SAI Clip

M12 screw connection



Ordering data

Type	Qty.	Order No.
SAI-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

SAI Separation protection cap

Hole for sealing: Yes



Ordering data

Type	Qty.	Order No.
SAI-TSK-M12-B0	1	2429320000

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

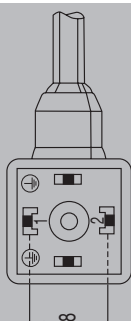
One end without connector designation code

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-
VSC	5.0 m	Halogen-
VSCD	10 m	free
	X m	

Connecting line designation code

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

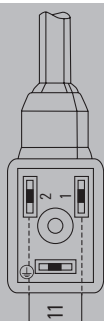
Valve plug
Type A



Contact gap 18 mm

Type: VSA

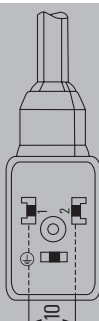
Valve plug
Type B



Contact gap 11 mm

Industry standard
Type: VSB

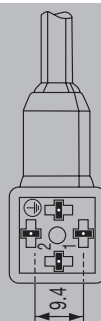
Valve plug
Type BD



Contact gap 10 mm
to DIN 43650 (ISO 6952)

Type: VSBD

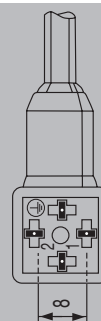
Valve plug
Type C



Contact gap 9.4 mm
Industry standard

Type: VSC

Valve plug
Type CD

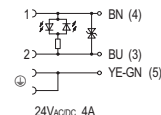
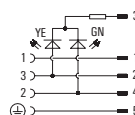
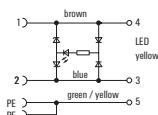
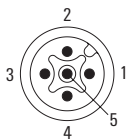
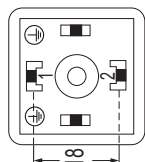


Contact gap 8 mm
to DIN 43650 (ISO 6952)

Type: VSCD

Design A / M12

Contact distance 18mm



Ordering data

M12 Male straight - valve plug	
PUR halogen-free	1.5 m
M12 Male angled - valve plug	
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

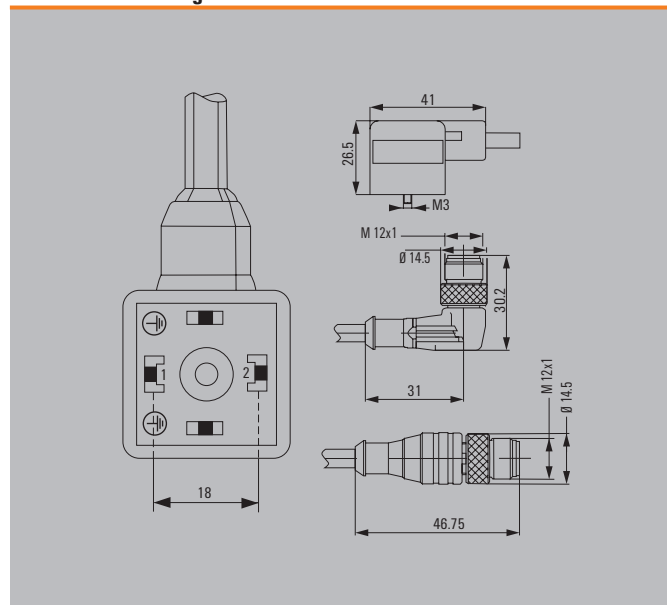
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm ²
Rated voltage	
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	EAC

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

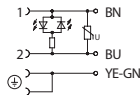
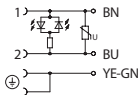
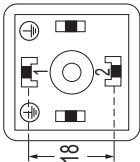
Dimensioned drawing



Valve cables

Design type A

Contact distance 18mm



Ordering data

Open cable end - valve plug	
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

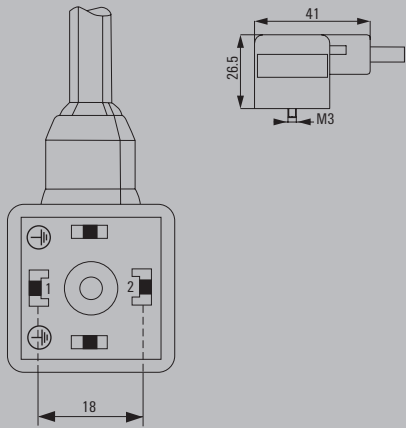
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm²
Rated voltage	
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	

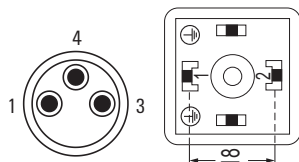
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Design A to M8

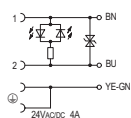
Contact spacing 18 mm



Male

Ordering data

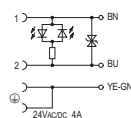
M8 Male straight - valve plug	
PUR halogen-free	1.5 m
M8 Male angled - valve plug	
PUR halogen-free	1.5 m
Note	



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	

Standard cable lengths

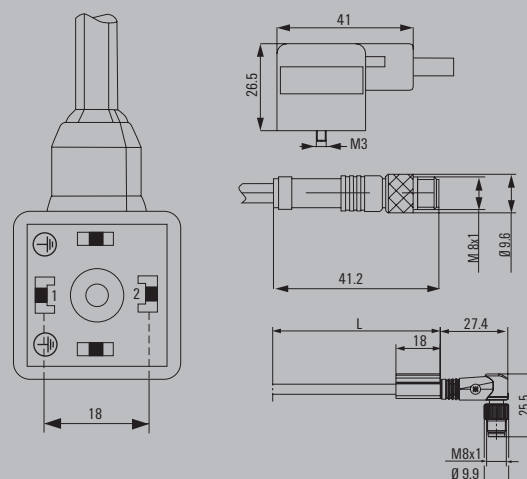
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm ²
Rated voltage	
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	EAC

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

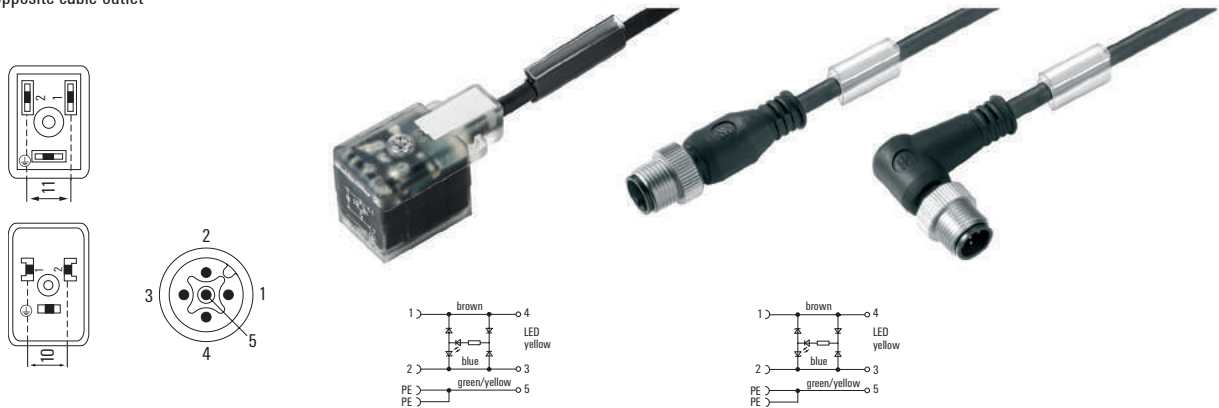
Dimensioned drawing



Valve cables

Design B/BD to M12

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



Ordering data		Zener diode (B)	24 V	Zener diode (BD)	24 V	
Open cable end - valve plug						
PUR halogen-free	1.5 m	SAIL-VSB-1.5U	9457930150	SAIL-VSBD-1.5U	9456070150	
Male straight - valve plug						
PUR halogen-free	1.5 m	SAIL-VSB-M12G-1.5U	9457680150	SAIL-VSBD-M12G-1.5U	9457780150	
Male angled - valve plug						
PUR halogen-free	1.5 m	SAIL-VSB-M12W-1.5U	1857700150	SAIL-VSBD-M12W-1.5U	1857710150	
Note		Other lengths on request		Other lengths on request		

Standard cable lengths

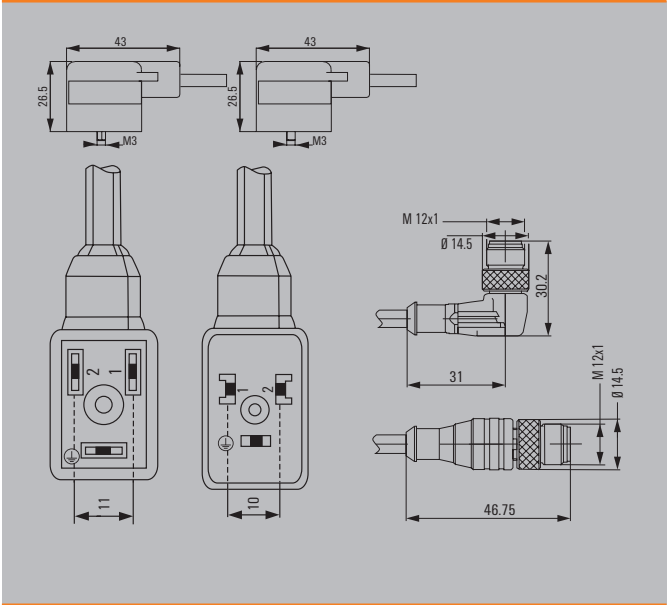
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm²
Rated voltage	
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	EAC

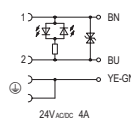
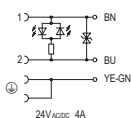
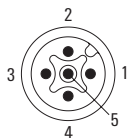
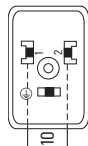
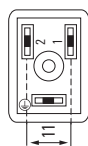
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Design B/BD

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

**Ordering data**

Open cable end - valve plug	
PUR halogen-free	1.5 m
Note	

24 V

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

24 V

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

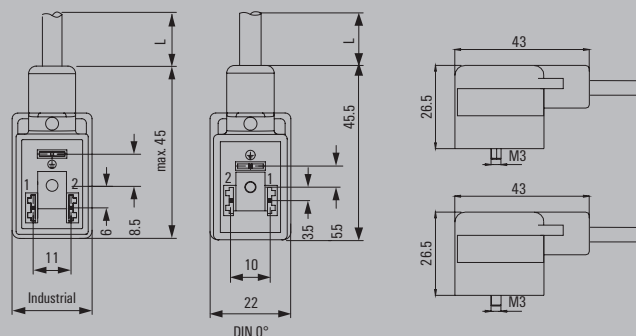
Standard cable lengths

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	
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	EAC

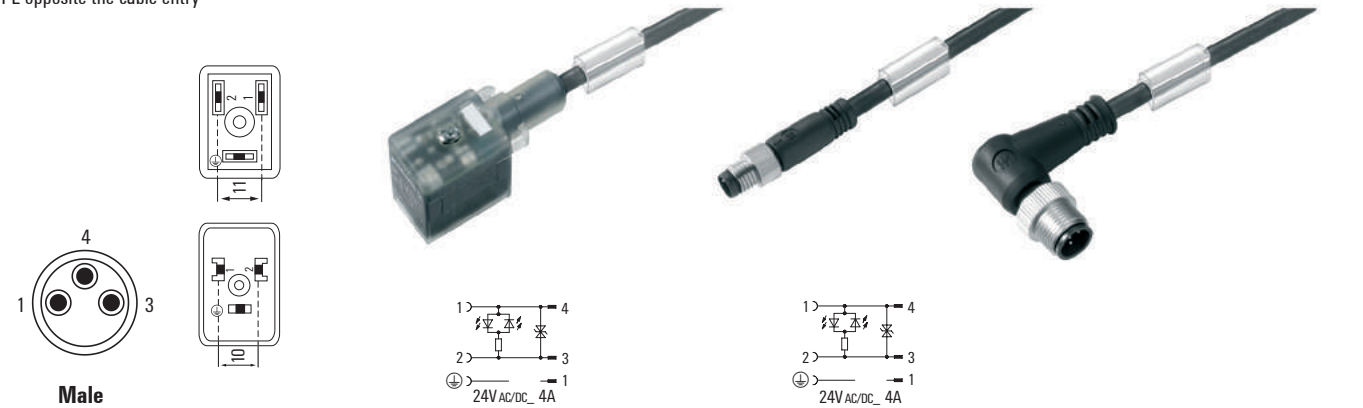
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing

Valve cables

Design B/BD to M8

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



Ordering data		Suppressor diode (B)	24 V	Suppressor diode (BD)	24 V	
M8 Male straight - valve plug						
PUR halogen-free	0.15 m			SAIL-VSBD-M8G-3-1.5U	1099770150	
PUR halogen-free	1.5 m	SAIL-VSB-M8G-3-1.5U	1271590150			
M8 Male straight - valve plug 180°						
PUR halogen-free	1.5 m			SAIL-VSBD180-M8G-3-1.5U	1276450150	
M8 Male angled - valve plug						
PUR halogen-free	1.5 m	SAIL-VSB-M8W-3-1.5U	1026180150			
Note		Other lengths on request		Other lengths on request		

Standard cable lengths

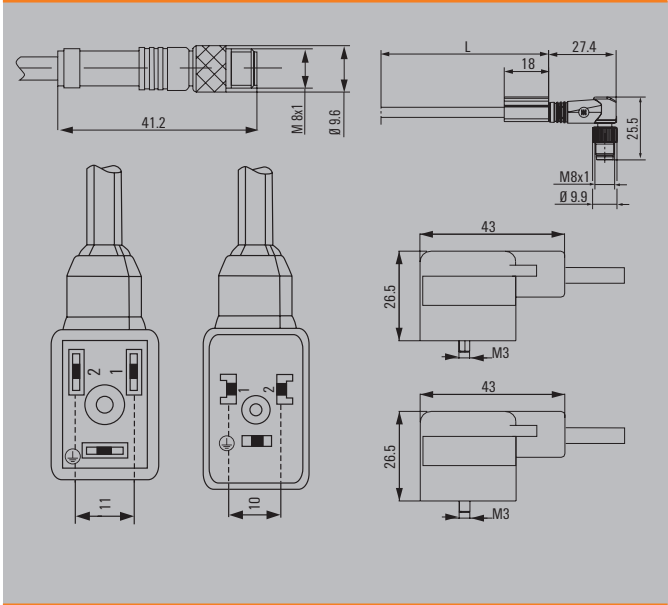
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm²
Rated voltage	
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	EAC

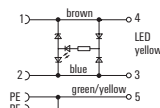
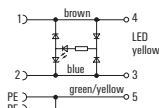
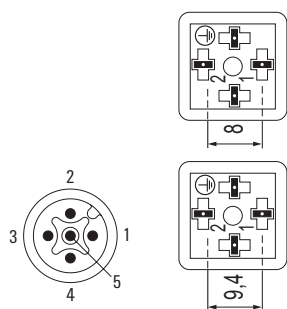
Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Dimensioned drawing



Design C/CD to M12

Contact spacing C = 9.4 mm; CD = 8 mm



Ordering data

Open cable end - valve plug	
PUR halogen-free	1.5 m
Male straight - valve plug	
PUR halogen-free	1.5 m
Male angled - valve plug	
PUR halogen-free	1.5 m
Note	

Zener diode (C)	24 V
SAIL-VSC-1.5U	9457920150
SAIL-VSC-M12G-1.5U	9457400150
SAIL-VSC-M12W-1.5U	1857720150
Other lengths on request	

Zener diode (CD)	24 V
SAIL-VSCD-1.5U	9456240150
SAIL-VSCD-M12G-1.5U	9456170150
SAIL-VSCD-M12W-1.5U	1857730150
Other lengths on request	

Standard cable lengths

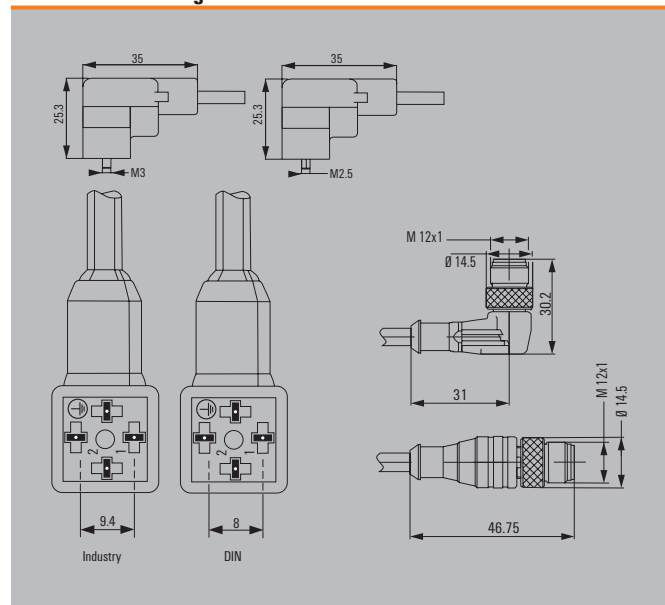
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm ²
Rated voltage	
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	EAC

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

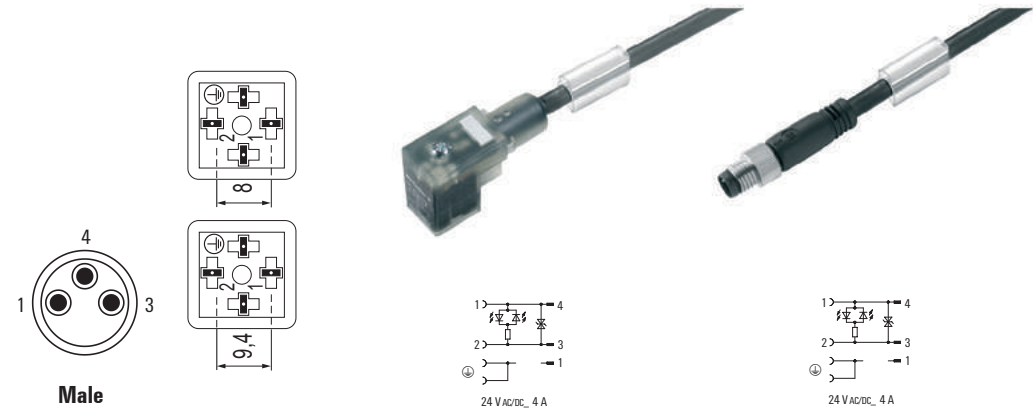
Dimensioned drawing



Valve cables

Design C/CD to M8

Contact spacing C = 9.4 mm; CD = 8mm



Ordering data

M8 Male straight - valve plug	
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	

24 V

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

Standard cable lengths

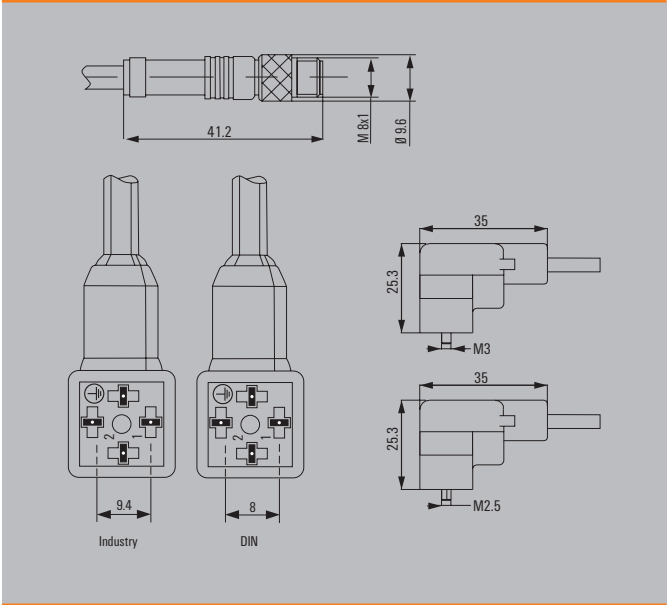
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Core cross-section	0.5 mm ²
Rated voltage	
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	EAC

Further technical data of the cables on catalog.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 mm ²
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 catalog.weidmueller.com and in Chapter W (Technical Annex)

No
4
0.25 mm ²
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 catalog.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

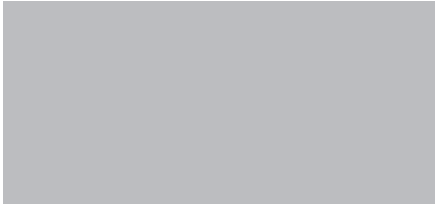
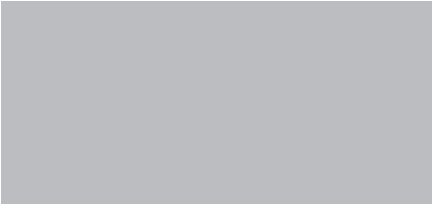
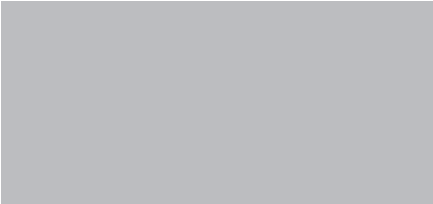
Connecting cable for sensors and actuators

Connecting line
100 m ring

0.34 mm², PUR, 3 poles, unshielded



0.34 mm², PUR, 4 poles, unshielded



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
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 catalog.weidmueller.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 catalog.weidmueller.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
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
5
0.34 mm²
5.0 ± 0.2 mm
PUR
black
PP
brown, white, blue, black, grey
-25...80 °C
-40...80 °C
No
Yes
No
360
5
5
12 Mio

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

Ordering data

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

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables Cutting tool	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

No
3
0.25 mm²
4.5 ± 0.2 mm
PVC
black
PVC
brown, blue, black
-5...80 °C
-30...80 °C
Yes
No
No
0

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

Note

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

Further technical data of the cables on catalog.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 catalog.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 catalog.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	
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Connecting line

100 m ring

0.34 mm², PUR, 3 poles, unshielded



0.34 mm², PUR, 4 poles, unshielded



Technical data

Shielded	No	No
Number of poles	3	4
Wire cross section	0.34 mm ²	0.34 mm ²
Outer diameter	4.3 ± 0.2 mm	4.7 ± 0.2 mm
Sheath material	PUR	PUR
Sheathing colour	yellow	yellow
Insulation	PP	PP
Colour coding	brown, blue, black	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C	-25...80 °C
Temperature range fixed, min / max	-40...80 °C	-40...80 °C
Halogen	No	No
Suitable for cable carriers	Yes	Yes
Resistant to welding beads	No	No
Torsion resistance	360	360
Acceleration	5	5
Speed	5	5
Bending cycles	5 Mio	5 Mio
Note		

Ordering data

	Type	Qty.	Order No.		Type	Qty.	Order No.
100.0 m	SAIH-3X0.34(PUR)GE	100	1345520000		SAIH-4X0.34(PUR)GE	100	1345530000
Note	Other lengths on request				Other lengths on request		

Accessories

Tools	Type	Qty.	Order No.	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	9030060000	AM 12	1	9030060000
Cutting tool	KT 8	1	9002650000	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
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
5.0 ± 0.2 mm
PUR
yellow
PP
brown, white, blue, black, grey
-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-5X0.34(PUR)GE	100	1345540000
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 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

Note

Yes
3
0.34 mm ²
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 mm ²
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

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	Yes
Number of poles	5
Wire cross section	0.34 mm²
Outer diameter	5.7 ± 0.2 mm
Sheath material	PUR
Sheathing colour	black
Insulation	PP
Colour coding	blue, white, brown, grey, black
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	0
Acceleration	5
Speed	200
Bending cycles	2 Mio
Note	

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-5X0.34-S(PUR)	100	1357340000
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	
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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	No	No
Number of poles	11	19
Wire cross section	3 x 0.75 mm ² + 8 x 0.34 mm ²	3 x 0.75 mm ² + 16 x 0.34 mm ²
Outer diameter	7.7 ± 0.3 mm	9.1 ± 0.3 mm
Sheath material	PUR	PUR
Sheathing colour	black	black
Insulation	TPM	TPM
Colour coding	white, green, yellow, grey, pink, red, black, violet, blue, brown, Green/ yellow	violet, red, grey, red / blue, green, blue, grey / pink, white / green, white / yellow, white / grey, black, Green/yellow, Yellow / brown, brown / green, white, yellow, pink, grey / brown, brown
Temperature range, moving, min / max	-25...80 °C	-25...80 °C
Temperature range fixed, min / max	-50...80 °C	-50...80 °C
Halogen	No	No
Suitable for cable carriers	Yes	Yes
Resistant to welding beads	No	No
Torsion resistance	0	0
Acceleration	5	5
Speed	200	200
Bending cycles	2 Mio	2 Mio
Note	Weitere technische Kabeldaten auf catalog.weidmueller.com und im Kapitel W (Technischer Anhang)	Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Ordering data

Type	Qty.	Order No.	Type	Qty.	Order No.
SAIH-SLL-3X0,75-8X0,34-100	1	2764930000	SAIH-SLL-3X0,75-16X0,34-100	1	2764950000
SAIH-SLL-3X0,75-8X0,34-500	1	2764940000	SAIH-SLL-3X0,75-16X0,34-500	1	2764960000

Accessories

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

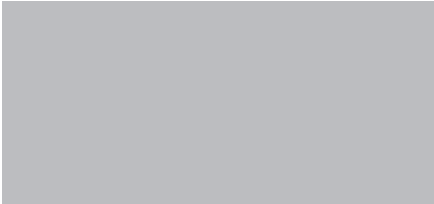
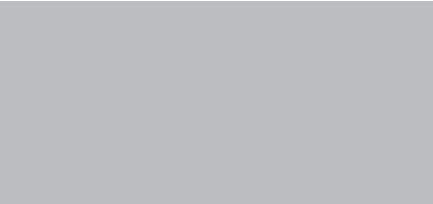
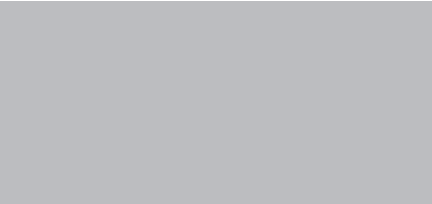
Note

Connecting cable for Weidmüller distributor

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 catalog.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 catalog.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.38
	Built-in plugs	C.46
	Valve plugs for custom assembly	C.56
	Protective sleeve adapter	C.62

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						
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						
Male			5-pole 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						
Male, Ø Cable 6-8 mm		9455640000	1784740000		1803930000	1803940000
Female, Ø Cable 6-8 mm		8426220000	1784750000		1803910000	1803920000
A-coded, PUSH IN						
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						
Male, Ø Cable 6-8 mm						
Female, Ø Cable 6-8 mm		1784740002				1275750000
B-coded, Screw connection						
Male, Ø Cable 6-8 mm			1784790000			1944570000
Female, Ø Cable 6-8 mm			1784780000			1944580000
B-coded, PUSH IN						
Male, Ø Cable 4-8 mm			2681640000			2681650000
Female, Ø Cable 4-8 mm			2681660000			2681670000
D-coded, Screw connection						
Male, Ø Cable 6-8 mm		1892120000				
Female, Ø Cable 6-8 mm		1892130000				
D-coded, PUSH IN						
Male, Ø Cable 4-8 mm		2681680000			2681690000	
Female, Ø Cable 4-8 mm		2681700000			2681710000	
D-coded, Tension clamp connection						
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

	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				

M12 screw connection
A-coded



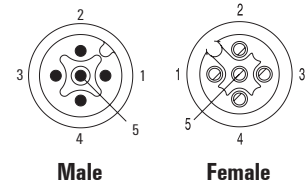
SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

Male	
3-pole. PG 7	SAIS-3/7
3-pole. PG 9	SAIS-3/9
4-pole. PG 7	SAIS-4/7
4-pole. PG 9	SAIS-4/9
Female	
3-pole. PG 7	SAIB-3/7
3-pole. PG 9	SAIB-3/9
4-pole. PG 7	SAIB-4/7
4-pole. PG 9	SAIB-4/9
Note	

Type	Qty.	Order No.
SAIS-3/7	1	1021470000
SAIS-3/9	1	1021480000
SAIS-4/7	1	9457550000
SAIS-4/9	1	1807340000
Other versions on request		
SAIB-3/7	1	1021490000
SAIB-3/9	1	1021510000
SAIB-4/7	1	9457240000
SAIB-4/9	1	1807230000
Other versions on request		

Type	Qty.	Order No.
SAISW-3/7	1	1021280000
SAISW-3/9	1	1021290000
SAISW-4/7	1	9457290000
SAISW-4/9	1	1807360000
Other versions on request		
SAIBW-3/7	1	1021310000
SAIBW-3/9	1	1021320000
SAIBW-4/7	1	9457700000
SAIBW-4/9	1	1807240000
Other versions on request		

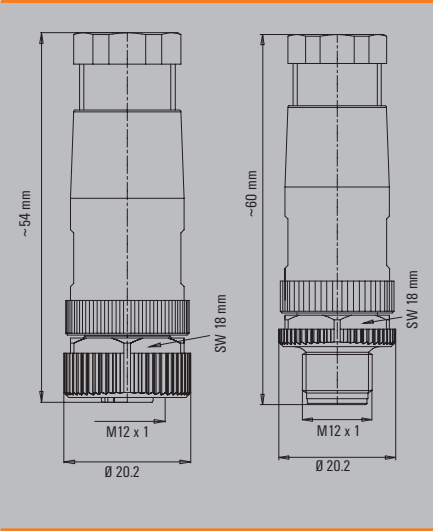
Technical data

Type of connection	Screw connection
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 mm²
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	cURus; EAC
Note	

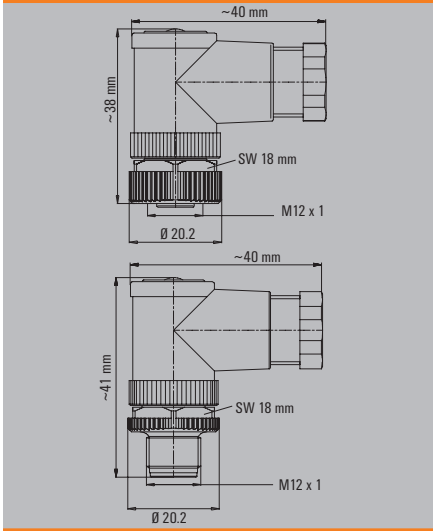
Type of connection	Screw connection
Housing main material	PA
Connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm²
Rated current	4 A
Rated voltage	250 V (3- and 4-pole) / 60 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn
Approvals	cURus; EAC
Note	

Type of connection	Screw connection
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 mm²
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	cURus
Note	

Dimensioned drawing

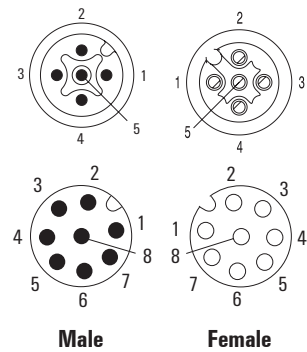


Dimensioned drawing



Customisable connectors

M12 screw connection
A-coded



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	

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
Approvals
Note

SAIS / SAIB

Straight



SAISW / SAIBW

Angled



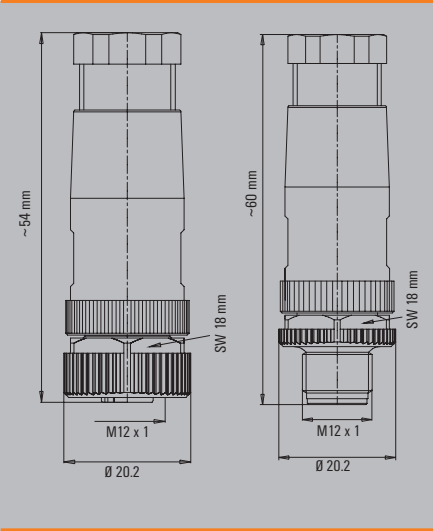
Type	Qty.	Order No.
SAIS-5/7	1	9456940000
SAIS-5/9	1	1807350000
SAIS-8/9	1	1836970000
SAIB-5/7	1	9457250000
SAIB-5/9	1	1807250000
SAIB-8/9	1	1836960000
Other versions on request		

Type	Qty.	Order No.
SAISW-5/7	1	9456950000
SAISW- 5/9	1	1807370000
SAIBW-5/7	1	9457260000
SAIBW-5/9	1	1807330000
SAIBW-8/9-M12	1	1934890000
Other versions on request		

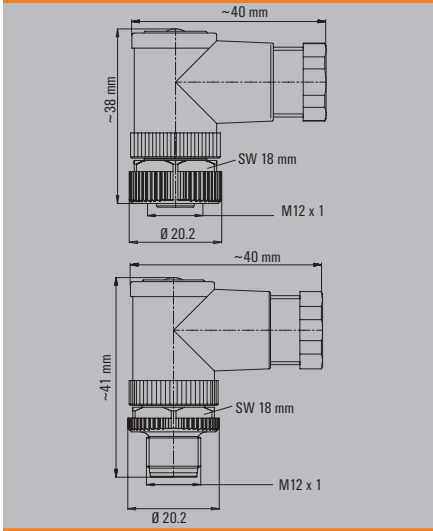
Screw connection
PA
M12
4...6 mm (PG7)/ 6...8 mm (PG9)
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
-40 ... +85 °C
IP67
CuSnZn
cURus; EAC

Screw connection
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
cURus; EAC

Dimensioned drawing



Dimensioned drawing



Twin plug
M12 screw connection
A-coded

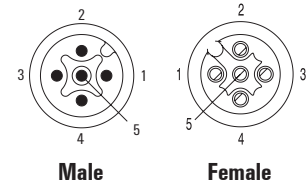


SAIS-ZW

Straight

SAIS-ZWW

Angled



Ordering data

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

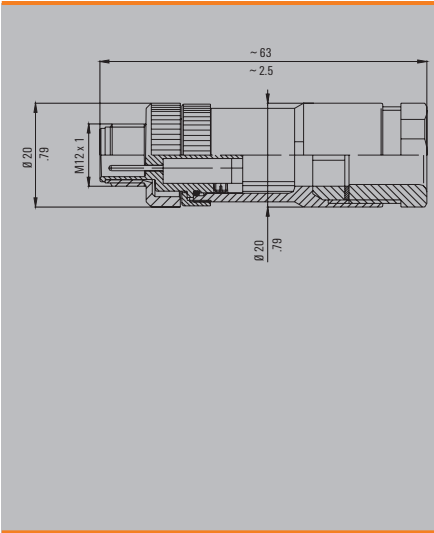
Technical data

Type of connection	Screw connection
Housing main material	PA
Connection thread	M12
Cable diameter	1...3 mm, 4...5 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; EAC
Includes: 2 seals for different cable diameters.	

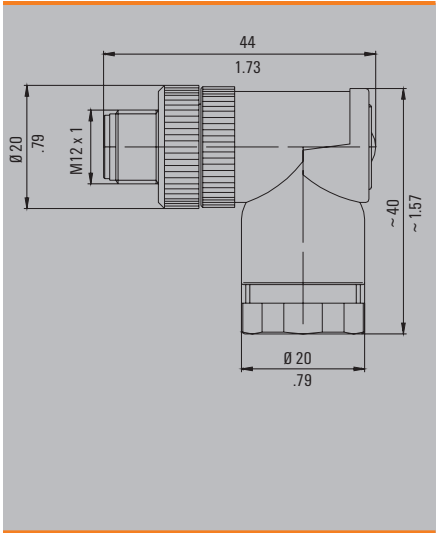
Type	Qty.	Order No.
SAIS-ZWW	1	1837560000
Other versions on request		

Type of connection	Screw connection
Housing main material	PA
Connection thread	M12
Cable diameter	1...3 mm, 4...5 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

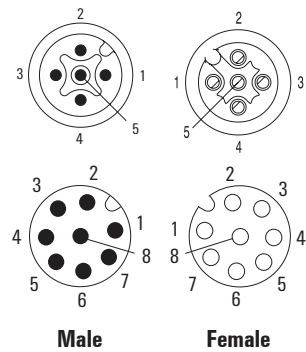


Dimensioned drawing



Customisable connectors

M12 screw connection
A-coded
Plastic



Ordering data

Male	
4-pole. PG 7	SAIS-4/7-(KV)
5-pole. PG 7	SAIS-5/7-(KV)
5-pole. PG 9	SAIS-5/9-(KV)
8-pole. PG 9	SAIS-8/9-KV
Female	
4-pole. PG 7	SAIB-4/7-(KV)
5-pole. PG 7	SAIB-5/7-(KV)
5-pole. PG 9	SAIB-5/9-(KV)
Note	
Other versions on request KV = plastic cable gland	

Technical data

Type of connection	Screw connection
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	cURus; EAC
Note	

SAIS / SAIB

Straight



SAISW / SAIBW

Angled



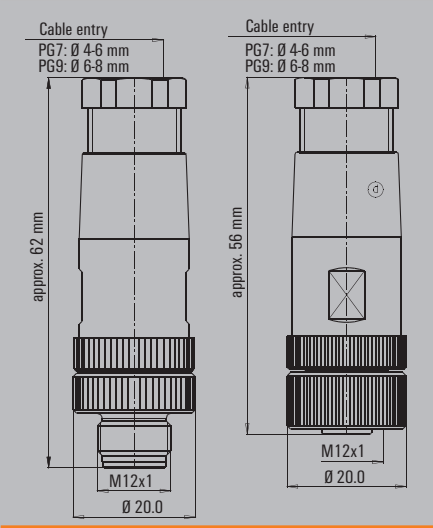
Type	Qty.	Order No.
SAIS-4/7-(KV)	1	1921060000
SAIS-5/7-(KV)	1	1921050000
SAIS-5/9-(KV)	1	1007080000
SAIS-8/9-KV	1	1461930000
SAIB-4/7-(KV)	1	1921080000
SAIB-5/7-(KV)	1	1921070000
SAIB-5/9-(KV)	1	1007090000
Other versions on request KV = plastic cable gland		

Type	Qty.	Order No.
SAISW-4/7-(KV)	1	1962620000
SAISW-5/7-(KV)	1	1962610000
SAISW-5/9-(KV)	1	1007060000
SAIBW-4/7-(KV)	1	1935610000
SAIBW-5/7-(KV)	1	1962630000
SAIBW-5/9-(KV)	1	1007070000
Other versions on request KV = plastic cable gland		

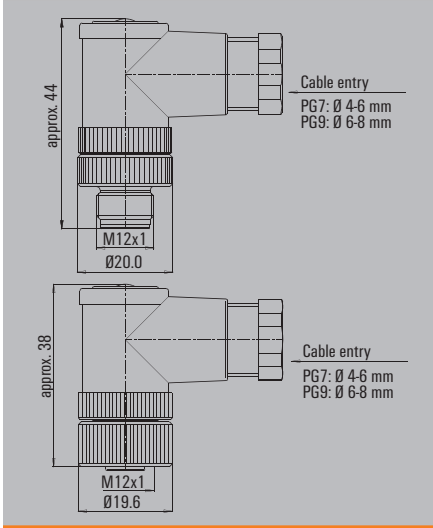
Screw connection
PA
M12
4...6 mm (PG7) / 6...8 mm (PG9)
0.14...0.75 mm ²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
CuSnZn
cURus; EAC

Screw connection
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
cURus

Dimensioned drawing



Dimensioned drawing



M12 screw connection
with shield connection
A-coded



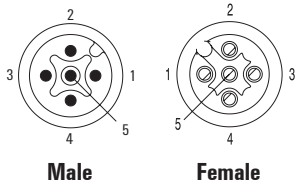
FBCon / SAIS

Straight



SAISW / SAIBW

Angled



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	

Type	Qty.	Order No.
FBCON M12 4P M EMC	1	9455640000
SAIS-M-5/8S M12 5P A-COD	1	1784740000
FBCON M12 4P FM EMC	1	8426220000
SAIBM-5/6S M12 5P A-COD	1	1191020000
SAIB-M-5/8S M12 5P A-COD	1	1784750000
Other versions on request		

Type	Qty.	Order No.
SAISW-M-4/8 M12	1	1803930000
SAISW-M-5/8 M12	1	1803940000
SAIBW-M-4/8 M12	1	1803910000
SAIBW-M-5/8 M12	1	1803920000
Other versions on request		

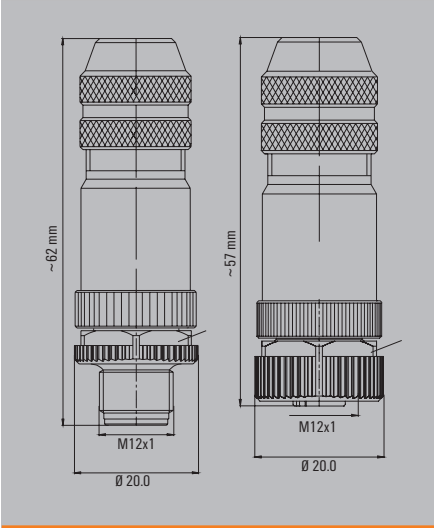
Technical data

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
Approvals
Note

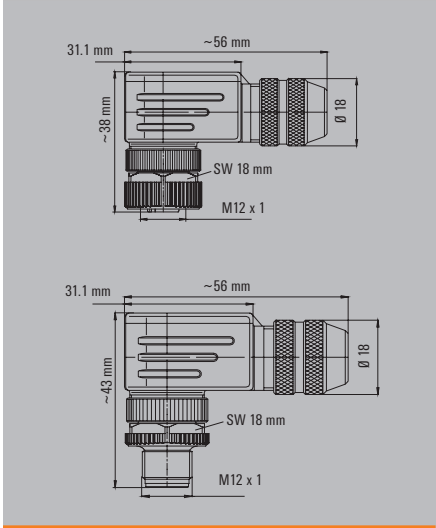
Screw connection
CuZn
M12
4...6 mm (PG7) / 6...8 mm (PG9)
0.14...0.75 mm ²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Gold-plated
cURus; EAC

Screw connection
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm ²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Gold-plated
cURus

Dimensioned drawing



Dimensioned drawing



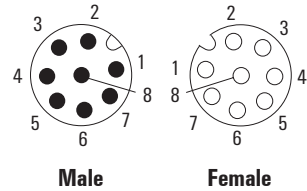
Customisable connectors

M12 screw connection
with shield connection
A-coded



SAISM / SAISB 8/11

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	

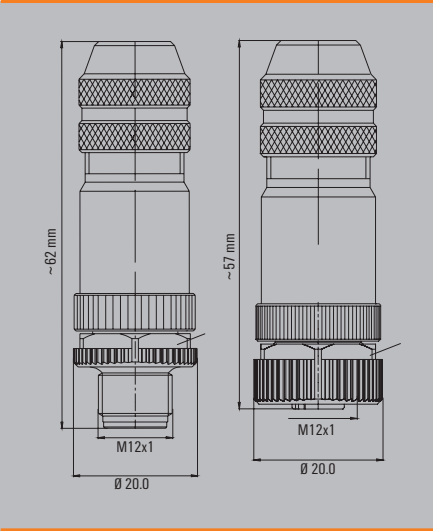
Type	Qty.	Order No.
SAISM-8/9S-M12	1	1258940000
SAISM-8/7S-M12	1	1423530000
SAISM-8/11S-M12	1	1118910000
SAIBM-8/9S-M12	1	1258930000
SAIBM-8/7S-M12	1	1423540000
SAIBM-8/11S-M12	1	1118920000

Technical data

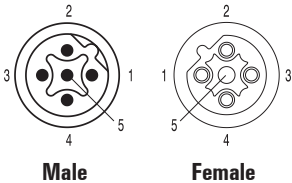
Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

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

Dimensioned drawing



M12 screw connection
with shield connection
B-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
Approvals
Note

SAISM / SAIBM

Straight



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

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

SAISW / SAIBW

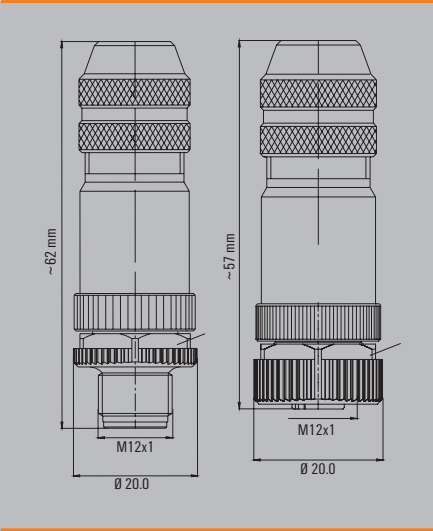
Angled



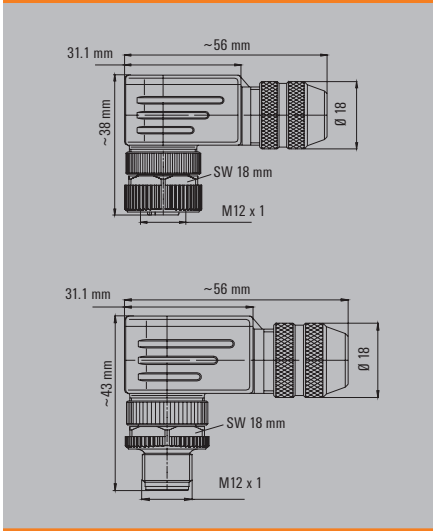
Type	Qty.	Order No.
SAISW-M-5/8 M12 B-COD	1	1944570000
SAIBW-M-5/8 M12 B-COD	1	1944580000

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

Dimensioned drawing



Dimensioned drawing



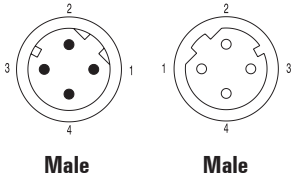
Customisable connectors

Screw connection M12
with shield connection
D-coded



SAISM / SAIBM

Straight



Ordering data

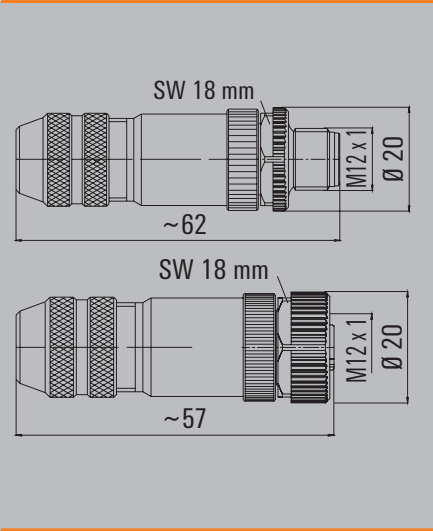
Male	4-pole. PG 9
Female	4-pole. PG 9
Note	

Type	Qty.	Order No.
SAISM-4/8S-M12-4P D-COD	1	1892120000
SAIBM-4/8S-M12-4P D-COD	1	1892130000

Technical data

Type of connection	Screw connection
Housing main material	CuZn
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm²
Rated current	4 A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Approvals	cURus; EAC
Note	

Dimensioned drawing

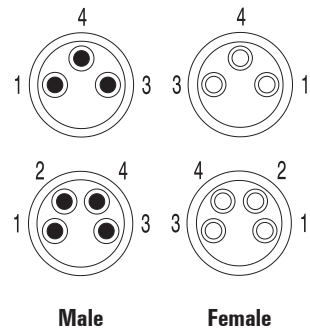


M8 screw connection



SAIS / SAIB

Straight



Ordering data

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

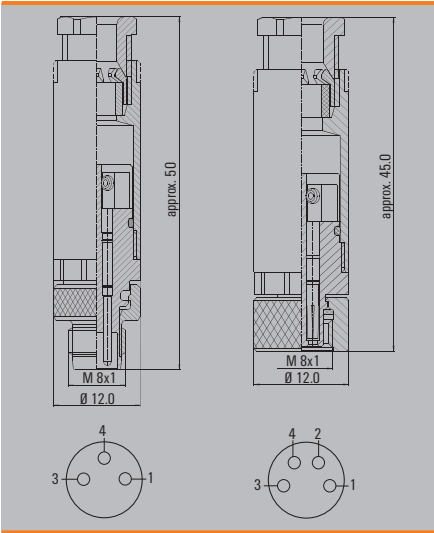
Type	Qty.	Order No.
SAIS-M8-3P	1	1803860000
SAIS-M8-4P	1	1803850000
SAIB-M8-3P	1	1803870000
SAIB-M8-4P	1	1803880000
Other versions on request		

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
Approvals
Note

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

Dimensioned drawing



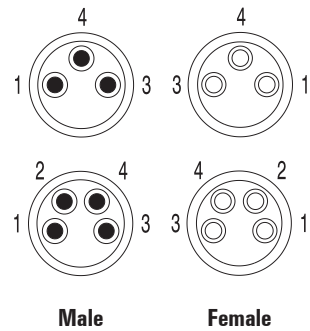
Customisable connectors

M8 screw connection
with shield connection



SAISM / SAIBM

Straight



Ordering data

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

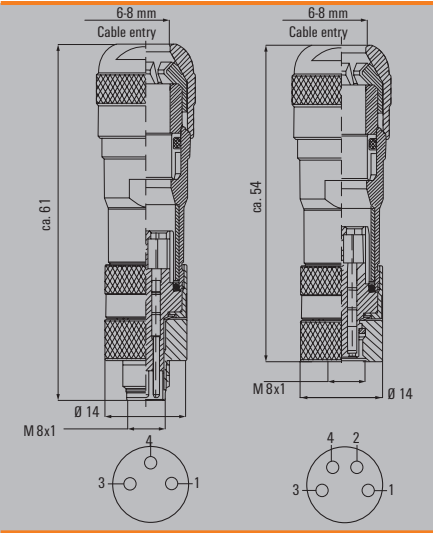
Type	Qty.	Order No.
SAISM-3/9S-M8	1	1467550000
SAISM-4/9S-M8	1	1467570000
SAIBM-3/9S-M8	1	1467560000
SAIBM-4/9S-M8	1	1467580000
Note		

Technical data

Note	
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Note	
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Dimensioned drawing

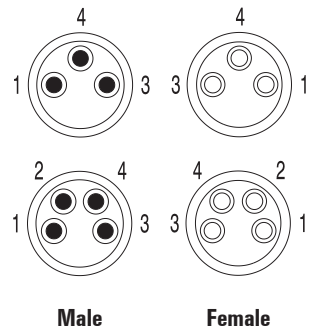


M8 screw connection
with shield connection



SAISM / SAIBM

Straight



Ordering data

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

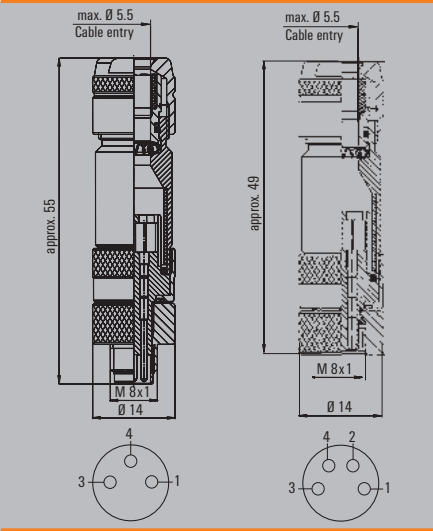
Type	Qty.	Order No.
SAISM-M8-3P-(IF)	1	1010060000
SAISM-M8-4P-(IF)	1	1010070000
SAIBM-M8-3P-(IF)	1	1010080000
SAIBM-M8-4P-(IF)	1	1010090000
IF = iris-type spring		

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
Approvals
Note

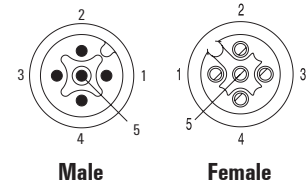
Screw connection
CuZn
M8
3.5...5.5 mm
0.14...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
cULus

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
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

SAISP / SAIBP

Straight



Type	Qty.	Order No.
SAISP-4A-4/8-M12	1	2681480000
SAISP-5A-4/8-M12	1	2681560000
SAIBP-4A-4/8-M12	1	2681500000
SAIBP-5A-4/8-M12	1	2681580000
Other versions on request		

PUSH IN
PA 66
M12
4...8 mm
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Ni/Au
cULus

SAISWP / SAIBWP

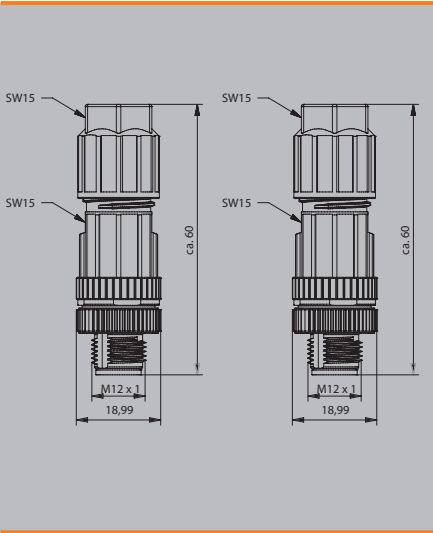
Angled



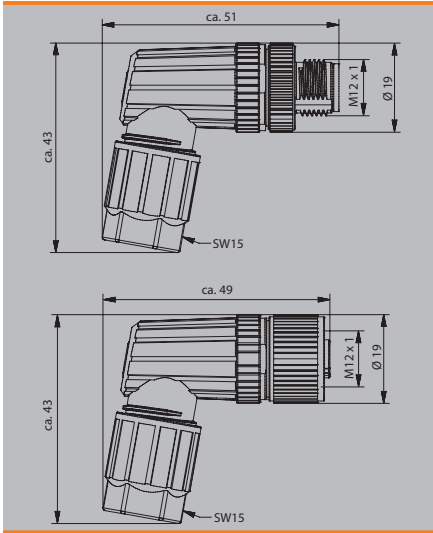
Type	Qty.	Order No.
SAISWP-4A-4/8-M12	1	2681490000
SAISWP-5A-4/8-M12	1	2681570000
SAIBWP-4A-4/8-M12	1	2681510000
SAIBWP-5A-4/8-M12	1	2681590000
Other versions on request		

PUSH IN
PA 66
M12
4...8 mm
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Ni/Au
cULus

Dimensioned drawing



Dimensioned drawing

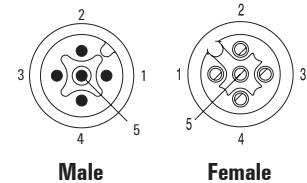


PUSH IN M12
with shield connection
A coded



SAISP-M / SAIBP-M

Straight



Ordering data

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

Technical data

Type of connection
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

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

PUSH IN
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
cULus

SAISWP-M / SAIBWP-M

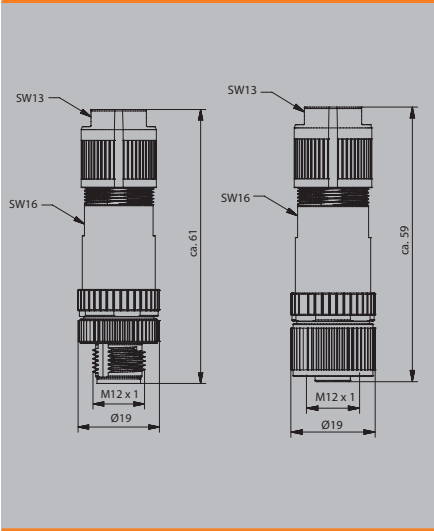
Angled



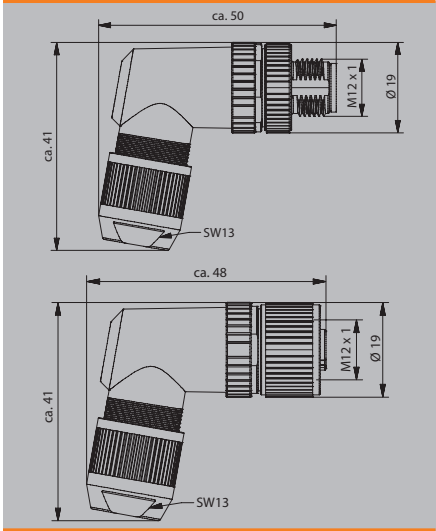
Type	Qty.	Order No.
SAISWP-M-4A-4/8-M12	1	2681530000
SAISWP-M-5A-4/8-M12	1	2681610000
Other versions on request		
SAIBWP-M-4A-4/8-M12	1	2681550000
SAIBWP-M-5A-4/8-M12	1	2681630000
Other versions on request		

PUSH IN
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
cULus

Dimensioned drawing

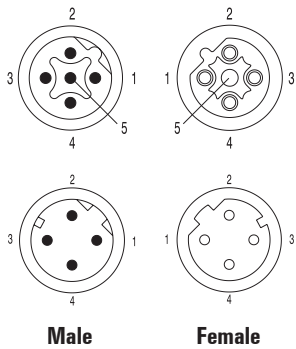


Dimensioned drawing



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
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

SAISP / SAIBP

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		

PUSH IN
PA 66
M12
4...8 mm
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Ni/Au
cULus

SAISWP / SAIBWP

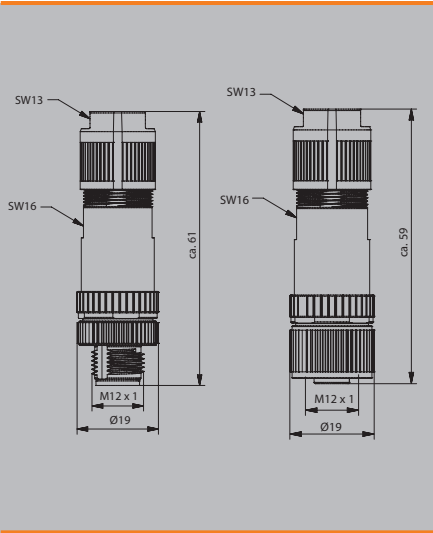
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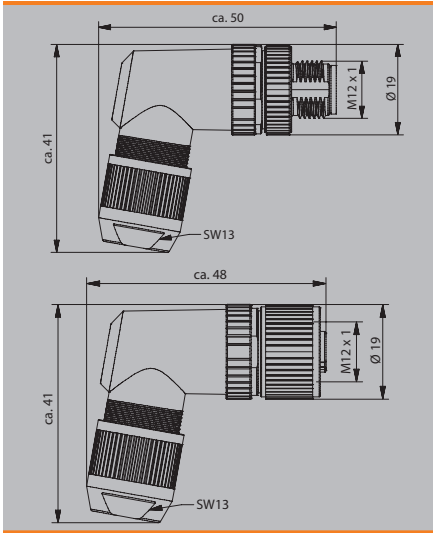
Type	Qty.	Order No.
SAISWP-M-4D-4/8-M12	1	2681690000
SAISWP-M-5B-4/8-M12	1	2681650000
SAIBWP-M-4D-4/8-M12	1	2681710000
SAIBWP-M-5B-4/8-M12	1	2681670000
Other versions on request		

PUSH IN
PA 66
M12
4...8 mm
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Ni/Au
cULus

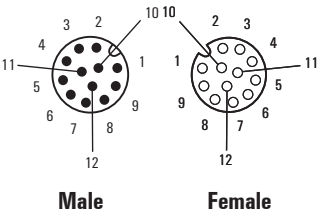
Dimensioned drawing



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
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.
SAIS-12/9(TL)	1	1924950000
SAIB-12/9(TL)	1	1924960000

Solder connection
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

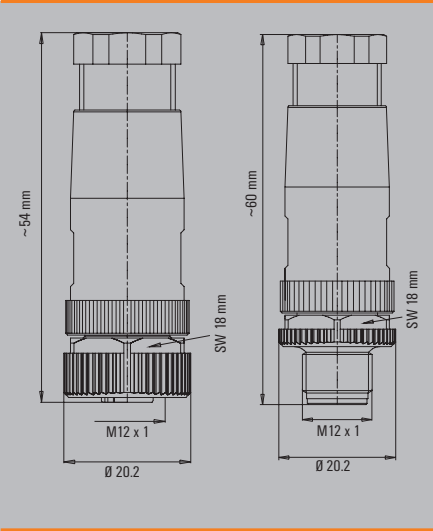
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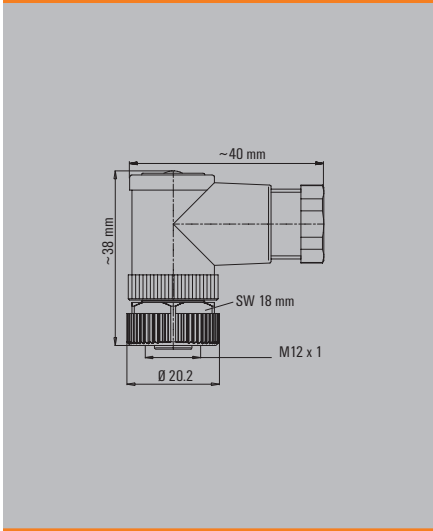
Type	Qty.	Order No.
SAIBW-12/9(TL)	1	1925870000

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

Dimensioned drawing

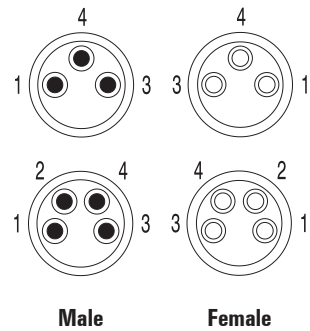


Dimensioned drawing



Customisable connectors

Solder connection M8
with shield connection



SAISM / SAIBM

Straight



Ordering data

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

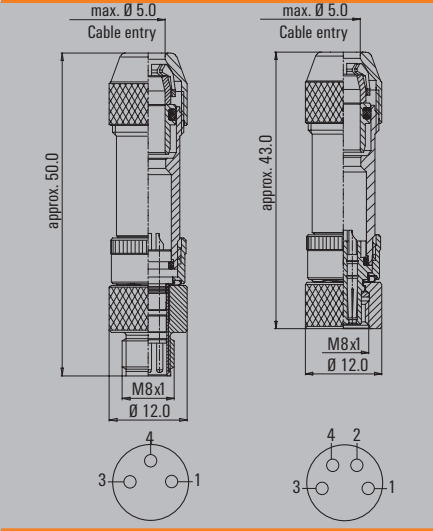
Type	Qty.	Order No.
SAISM-M8-3P(TL)	1	1921030000
SAISM-M8-4P(TL)	1	1921040000
SAIBM-M8-3P(TL)	1	1921010000
SAIBM-M8-4P(TL)	1	1921020000
Note		

Technical data

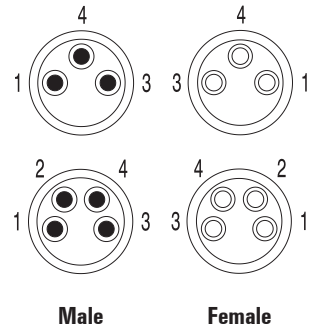
Type of connection	
Housing main material	CuZn
Connection thread	M8
Cable diameter	3.5...5 mm
Wire cross-section, min. / max.	0.14...0.25 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Approvals	cULus
Note	

Type of connection	
Housing main material	CuZn
Connection thread	M8
Cable diameter	3.5...5 mm
Wire cross-section, min. / max.	0.14...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	cULus
Note	

Dimensioned drawing



Solder connection M8



Ordering data

Male	
3-pole	
4-pole	
Female	
3-pole	
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
Approvals
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

Solder connection
PA
M8
3.5...5 mm
0.25...0.25 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated

SAISW / SAIBW

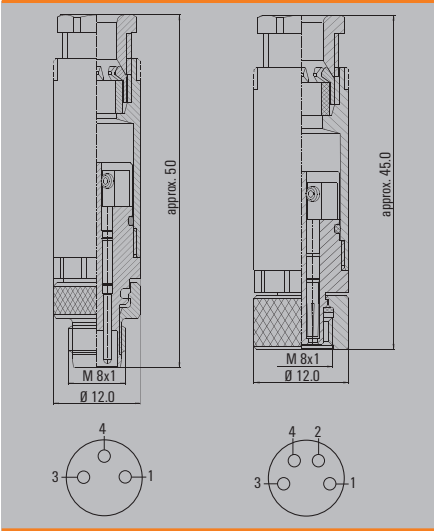
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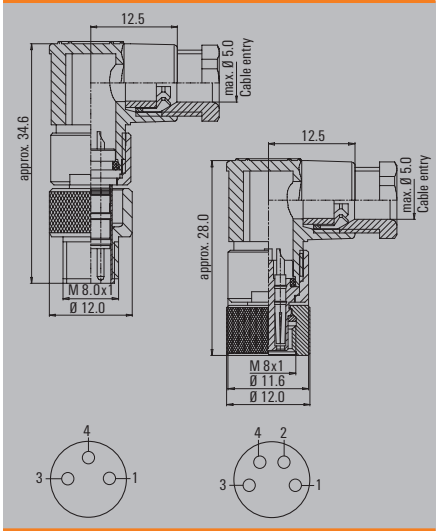
Type	Qty.	Order No.
SAISW-M8-3P(TL)	1	1920990000
SAISW-M8-4P(TL)	1	1921000000
SAIBW-M8-3P(TL)	1	1920970000
SAIBW-M8-4P(TL)	1	1920980000

Solder connection
PA
M8
3.5...5 mm
0.25...0.25 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
cULus; EAC

Dimensioned drawing

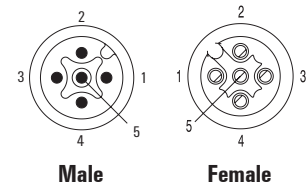


Dimensioned drawing



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
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.
SAIS-5/7-ZF	1	1906390000
SAIS-5/9-ZF	1	1044700000
SAIB-5/7-ZF	1	1924970000
SAIB-5/9-ZF	1	1044710000

Tension-clamp connection
PA
M12
4...6 mm (PG7)/ 6...8 mm (PG9)
0.25...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
EAC

SAIBW-ZF

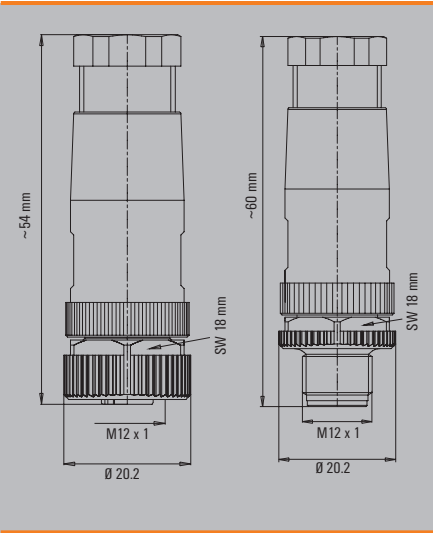
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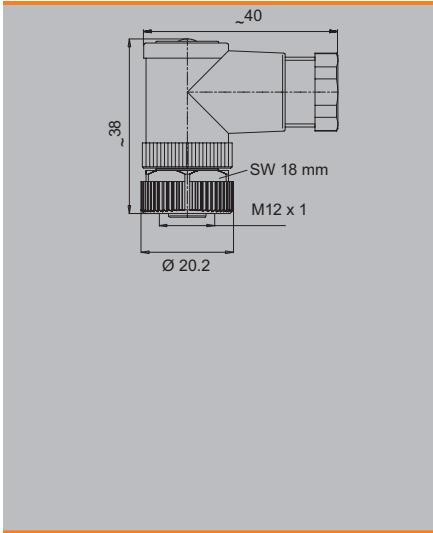
Type	Qty.	Order No.
SAIBW-5/7-ZF	1	1365580000

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

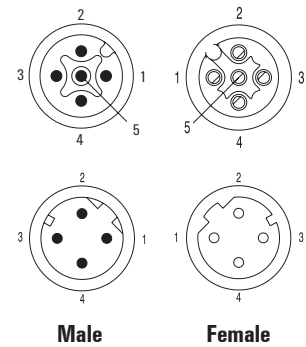
Dimensioned drawing



Dimensioned drawing



M12 tension-clamp connection
Stainless steel
with shield connection



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	

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
Approvals

Note

SAIS / SAIB VA

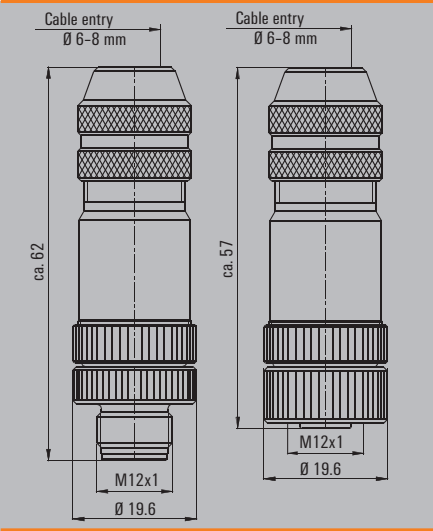
Straight



Type	Qty.	Order No.
SAIS 5/9-VA-B-COD	1	1920720000
SAIS 5/9-VA	1	1920700000
SAIS 4/9-VA D-COD	1	1920700001
SAIB 5/9-VA-B-COD	1	1920730000
SAIB 5/9-VA	1	1920710000

Tension-clamp connection
1.4404/316L
M12
6...8 mm (PG9)
0.25...0.5 mm²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP69K
Gold-plated
EAC

Dimensioned drawing



Customisable connectors

M12 plug,
Tension-clamp connection,
D-coded



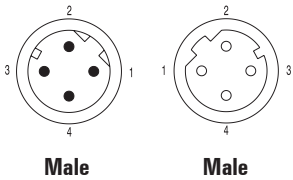
SAISM / SAIBM

Straight



SAISW / SAIBW

angled



Ordering data

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

Type	Qty.	Order No.
SAISM-4/8S-M12 4P D-ZF	1	1892120001
SAIBM-4/8S-M12 4P D-ZF	1	1892130001

Type	Qty.	Order No.
SAISW-4/8S-M12 4P D-ZF	1	1803930001
SAIBW-4/8S-M12 4P D-ZF	1	1139330000

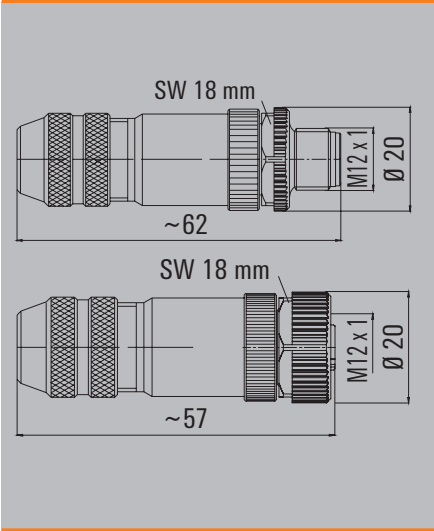
Technical data

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
Approvals
Note

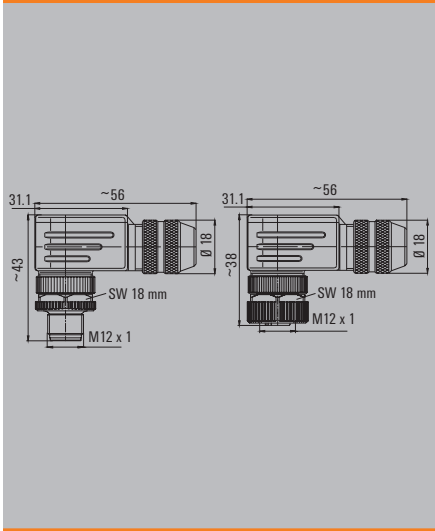
Tension-clamp connection
CuZn
M12
6...8 mm (PG9)
0.25...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
EAC

Tension-clamp connection
CuZn
M12
6...8 mm (PG9)
0.25...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
EAC

Dimensioned drawing



Dimensioned drawing



M8 and M12 insulation displacement connection (IDC)

M8



M12



The assembly of round plugs is very time consuming.

The cable has to be stripped and possibly, also fitted with a wire end ferrule.

Weidmüller's IDC plug in connector systems offers a quick fit connection system that saves both time and money.

The IDC quick fit, quick connection system is available for M12 and M8 connectors.

Screwty®



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

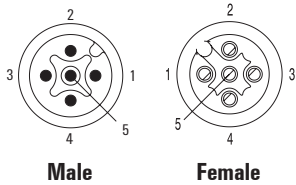
The Screwty® fits M12 and M8 round plugs. Both types can be used for plugs and sockets on custom cables.

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.

Insulation-displacement connection
M12
A-coded



Ordering data

Male	4-pole
Female	4-pole
Note	

Technical data

Type of connection	Insulation displacement connection
Housing main material	CuZn
Connection thread	M12
Cable diameter	2.9 - 5.1 mm
Wire cross-section, min. / max.	0.14...0.34 mm²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Approvals	EAC
Note	

SAIS IDC / SAIB IDC

Straight



Type	Qty.	Order No.
SAIS-4-IDC M12 SMALL	1	1781550001
SAIB-4-IDC-M12 SMALL	1	1781540001
Other versions on request		

Type of connection	Insulation displacement connection
Housing main material	CuZn
Connection thread	M12
Cable diameter	2.9 - 5.1 mm
Wire cross-section, min. / max.	0.14...0.34 mm²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Approvals	EAC
Note	

SAIS IDC / SAIB IDC

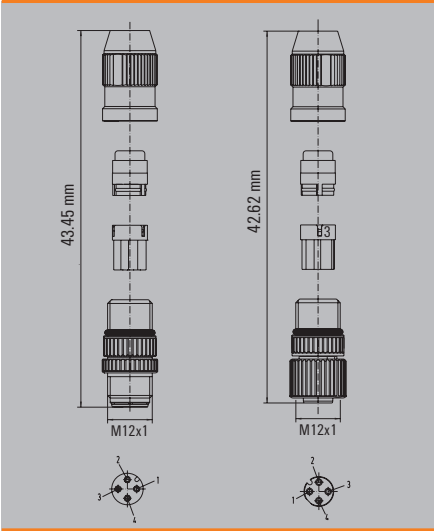
Straight



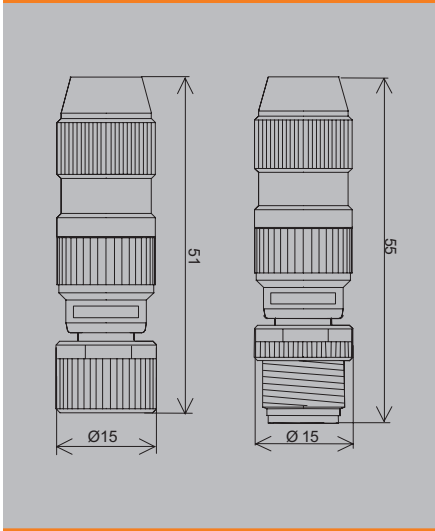
Type	Qty.	Order No.
SAIS-4-IDC M12	1	1781550000
SAIB-4-IDC M12	1	1781540000
Other versions on request		

Type of connection	Insulation displacement connection
Housing main material	CuZn
Connection thread	M12
Cable diameter	4...5.1 mm
Wire cross-section, min. / max.	0.25...0.5 mm²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Approvals	EAC
Note	

Dimensioned drawing

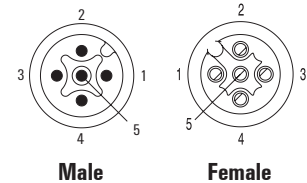


Dimensioned drawing



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
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.
SAIS-3-4-5-IDC(0,75)M12	1	1852720000
SAIS-4-IDC (0,75) M12	1	1852740000
SAIB-3-4-5-IDC(0,75)M12	1	1852730000
SAIB-4-IDC (0,75) M12	1	1852750000
Other versions on request 3-pole = assignment only pin 3, 4, 5 possible		

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

SAISW IDC / SAIBW IDC

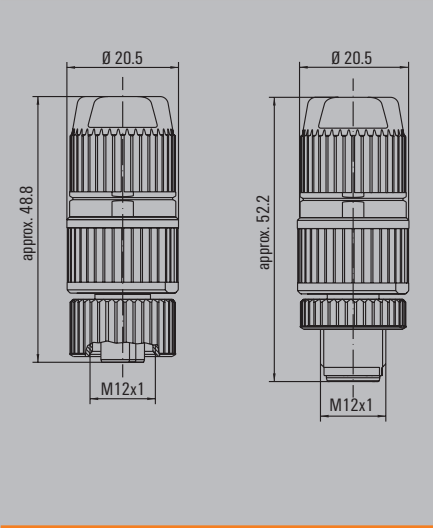
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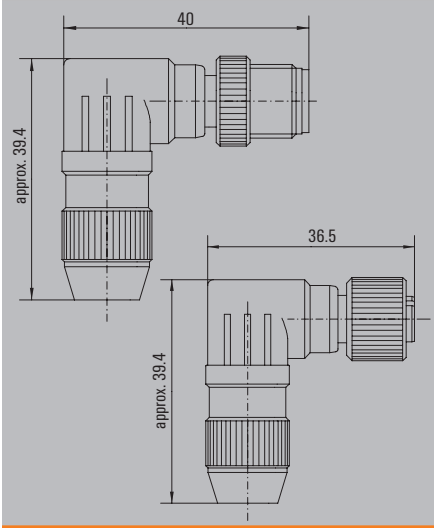
Type	Qty.	Order No.
SAISW-4-IDC M12	1	1812870000
SAIBW-4-IDC M12	1	1812890000
Other versions on request		

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

Dimensioned drawing



Dimensioned drawing

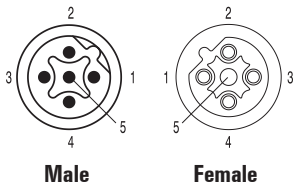


Insulation-displacement connection
M12 with shield connection
B coded



SAIS / SAIB

Straight



Ordering data

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

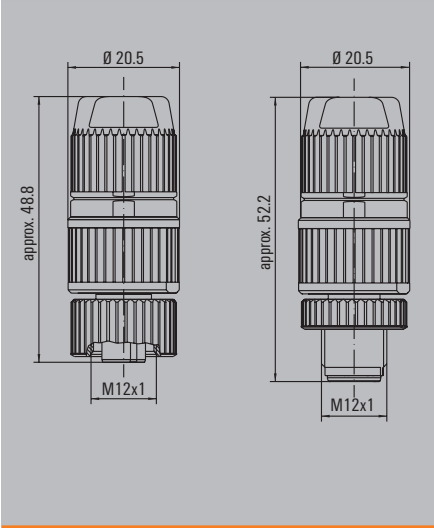
Type	Qty.	Order No.
SAIS-2-IDC-M12B-COD	1	1864730000
SAIB-2-IDC-M12B-COD	1	1864740000
Profibus assignment: Pin 2 + 4		

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
Approvals
Note

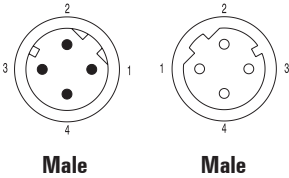
Insulation displacement connection
CuZn
M12
7...8.8 mm
0.34...0.75 mm²
4 A
32 V
-25...+85 °C
IP67
tinned
EAC

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
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

Straight



Type	Qty.	Order No.
SAIS-M4S-IDC-M12-D-COD	1	2544780000

Insulation displacement connection
zinc diecast nickel-plated
M12
5...9.7 mm
0.14...0.34 mm ²
1 A
60 V
-40 ... +85 °C
IP67
Gold-plated

SAIB

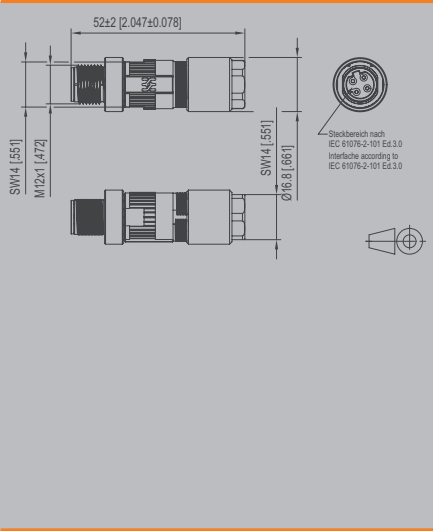
Straight



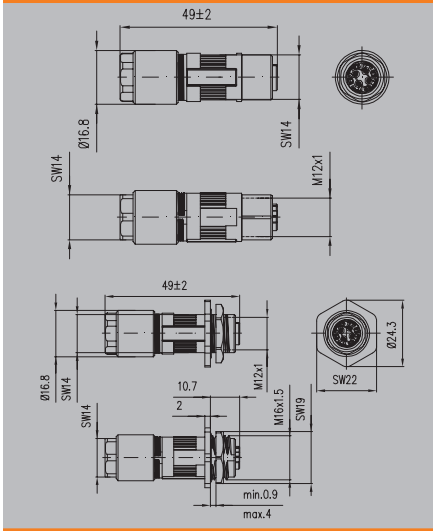
Type	Qty.	Order No.
SAIB-M4S-IDC-M12-D-COD		2783150000
SAIB-WDF-M4S-IDC-M12-D-COD	1	2812410000

Insulation displacement connection
zinc diecast nickel-plated
M12
5...9.7 mm
0.14...0.34 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated

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	

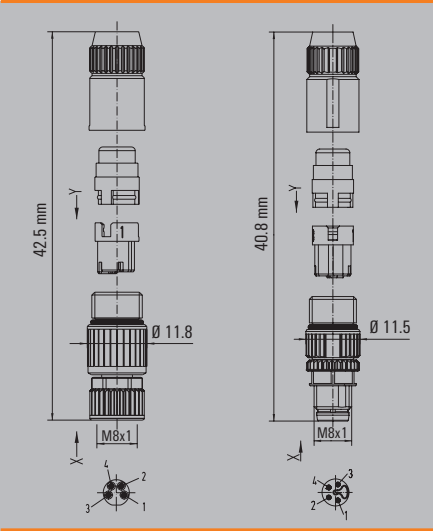
Type	Qty.	Order No.
SAIS-3-IDC M8 SMALL	1	1784040001
SAIS-4-IDC M8 SMALL	1	1784060001
SAIB-3-IDC-M8 SMALL	1	1784030001
SAIB-4-IDC-M8 SMALL	1	1784050001
Other versions on request		

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
Approvals
Note

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

Dimensioned drawing



Customisable connectors

Crimp connection M12
with shield connection
A-coded



SAISC / SAIBC

straight



SAISWC / SAIBWC

angled



Ordering data

Male	5-pole
Female	5-pole
Note	

Type	Qty.	Order No.
SAISC-5-18/28-4/9CG	1	2672410000
SAIBC-5-18/28-4/9CG	1	2664800000
Contacts must be ordered separately		

Type	Qty.	Order No.
SAISWC-5-18/28-4/9CG	1	2672430000
SAIBWC-5-18/28-4/9CG	1	2664830000
Contacts must be ordered separately		

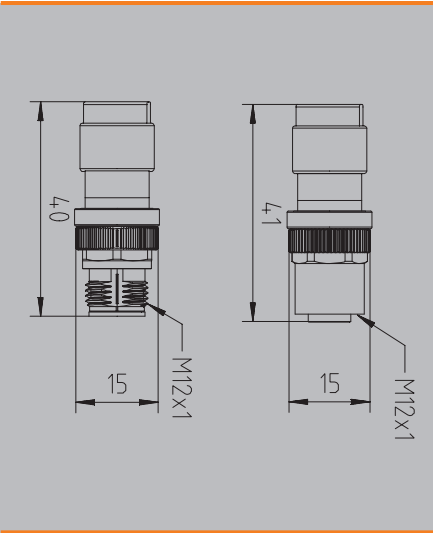
Technical data

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
Approvals
Note

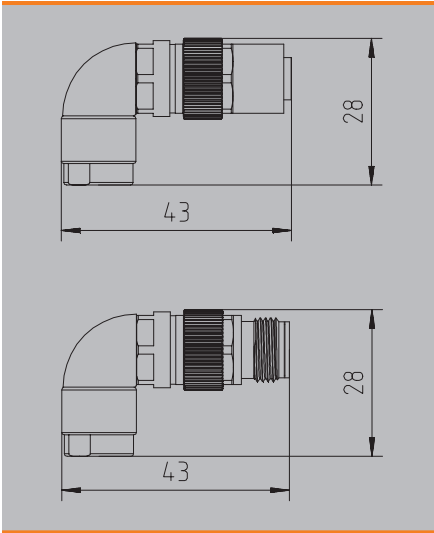
Crimp connection
CuZn
M12
4...9 mm
0.08...0.75 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated

Crimp connection
CuZn
M12
4...9 mm
0.08...0.75 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated

Dimensioned drawing



Dimensioned drawing



Crimp connection M12
with shield connection
D-coded



SAISC / SAIBC

straight



SAISC / SAIBC

Panel feed-through



Ordering data

Male	4-pole
Female	4-pole
Note	

Type	Qty.	Order No.
SAISC-D-18/28-4/9CG	1	2664810000
SAIBC-D-18/28-4/9CG	1	2672420000

Type	Qty.	Order No.
SAISC-WDF-D-18/28-4/9CG	1	2664790000
SAIBC-WDF-D-18/28-4/9CG	1	2664780000

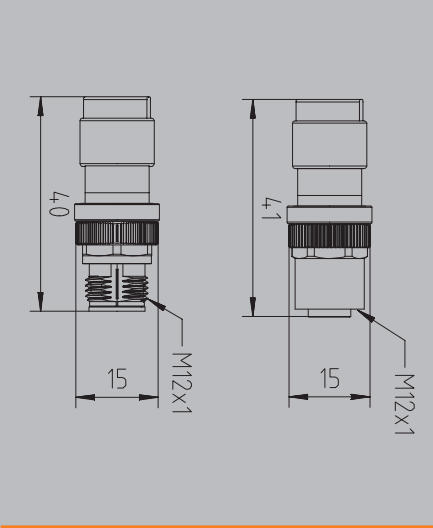
Technical data

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
Approvals
Note

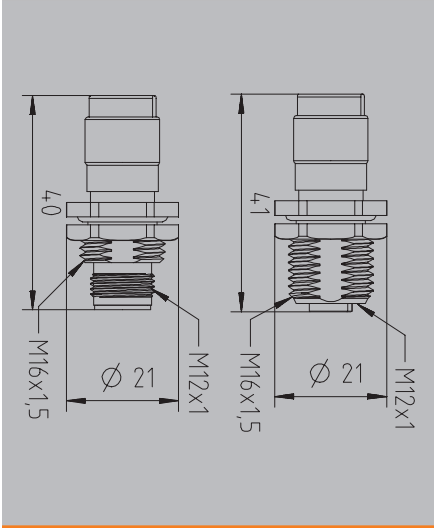
Crimp connection
CuZn
M12
4...9 mm
0.08...0.75 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated

Crimp connection
CuZn
M12
4...9 mm
0.08...0.75 mm ²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated

Dimensioned drawing



Dimensioned drawing



Customisable connectors

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	

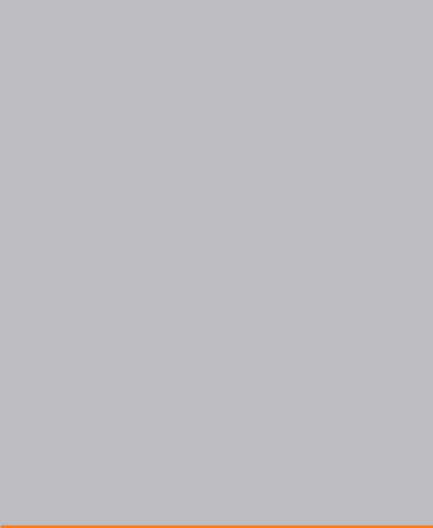
Type	Qty.	Order No.
SAI-M12-KSC-18/20	100	2664840000
SAI-M12-KSC-20/22	100	2664850000
SAI-M12-KSC-22/24	100	2673710000
SAI-M12-KSC-26/28	100	2673720000
SAI-M12-KBC-18/20	100	2664860000
SAI-M12-KBC-20/22	100	2664870000
SAI-M12-KBC-22/24	100	2673730000
SAI-M12-KBC-26/28	100	2673740000

Technical data

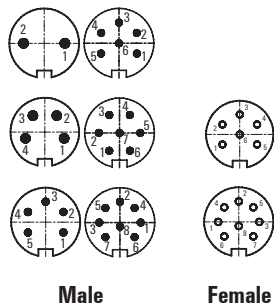
Type of connection	
Contact material	
Housing main material	
Connection thread	
Cable diameter	
Wire cross-section, min. / max.	
Rated current	
Rated voltage	
Temperature range of housing	
Protection degree	
Contact surface	
Approvals	
Note	

Copper alloy	
7 A	
Gold-plated	

Dimensioned drawing



M16 solder connection



SAIS

Male



SAIB

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
Housing main material	PA
Connection thread	M16
Cable diameter	6...8 mm (PG9)
Connection cross-section	7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole) / 3 A (12- and 16-pole)
Rated current	250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8- and 12-pole / 30 V (16-pole)
Rated voltage	-40 ... +85 °C
Temperature range of housing	IP40
Protection degree	Ag (silver)
Contact surface	EAC
Approvals	

Note

Type	Qty.	Order No.
SAIS-M16-2/9	1	1321700000
SAIS-M16-4/9	1	1117970000
SAIS-M16-5/9	1	1117990000
SAIS-M16-6/9	1	1304390000
SAIS-M16-7/9	1	1118010000
SAIS-M16-8/9	1	1304430000
SAIS-M16-12/9	1	1548810000
SAIS-M16-16/9	1	1548820000

Solder connection

PA

M16

6...8 mm (PG9)

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)

-40 ... +85 °C

IP40

Ag (silver)

EAC

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

Solder connection

PA

M16

6...8 mm (PG9)

7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole) / 3 A (12- and 16-pole)

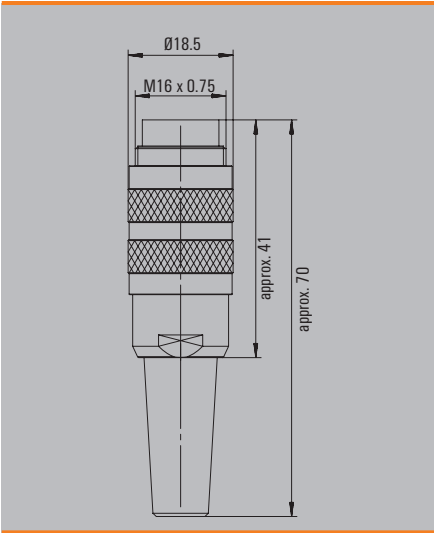
250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8- and 12-pole / 30 V (16-pole)

-40 ... +85 °C

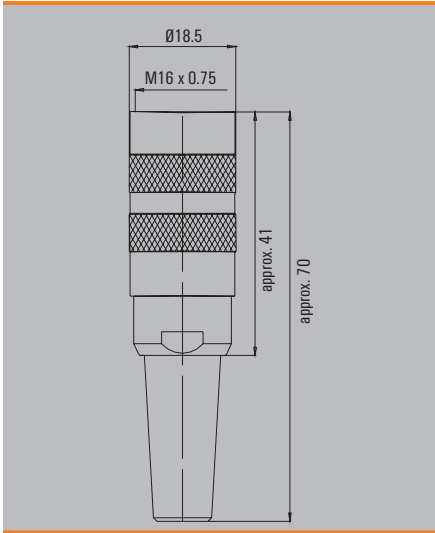
IP40

Ag (silver)

Dimensioned drawing



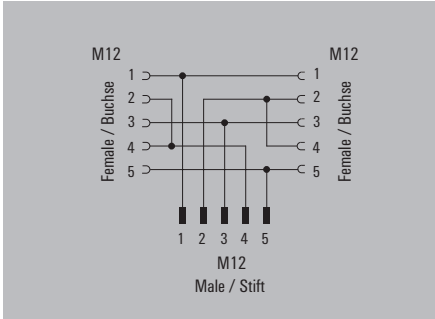
Dimensioned drawing



Y-distributor

M12/M12

Mounting screw M3, Distribution, pin 2 + 4 bridged

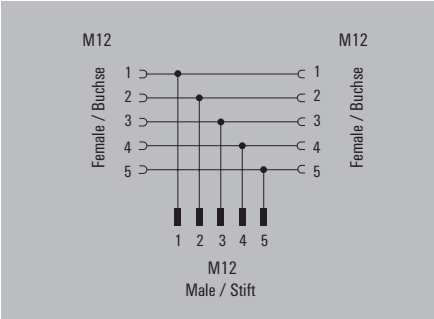


Ordering data

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

M12/M12

Mounting screw M3, Parallel distribution

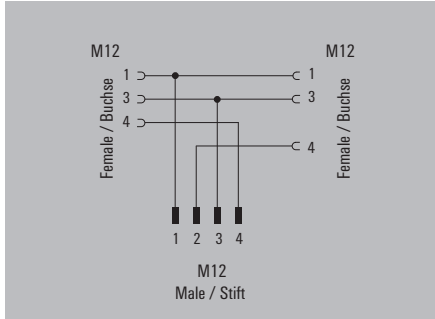


Ordering data

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

M12/M12

Mounting screw M3

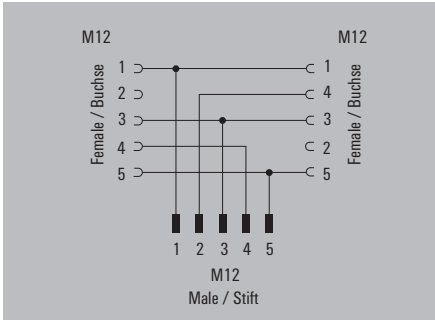


Ordering data

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

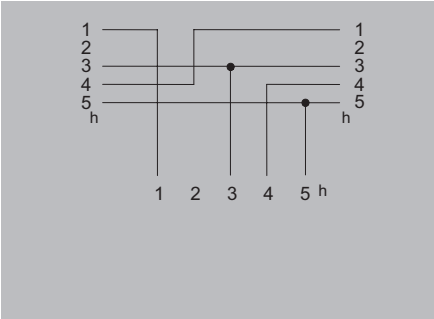


Ordering data

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

M12/M12

And-Conjunction, Mounting screw M3

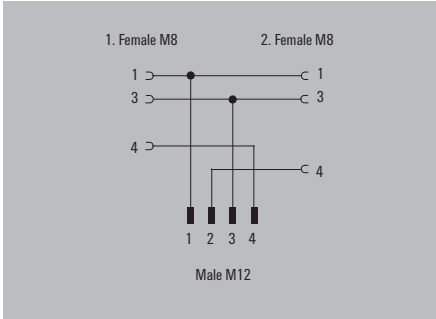


Ordering data

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

M12/M8

Mounting screw M3, Parallel distribution

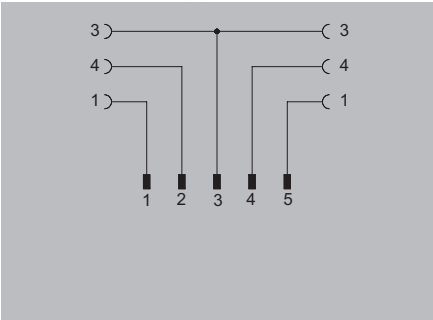


Ordering data

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

M12/M8

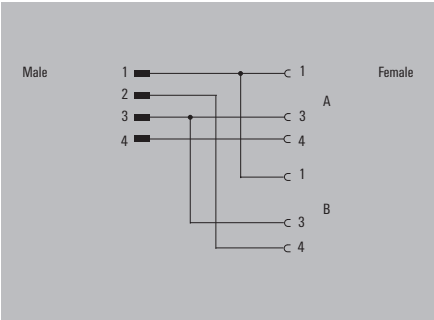
Mounting screw M3



Ordering data

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

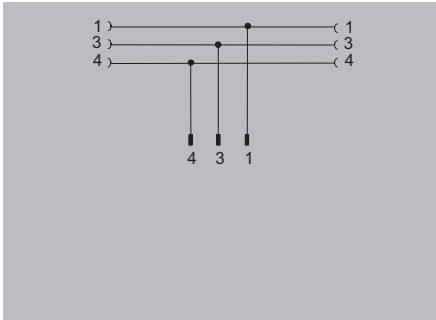
M8/M8



Ordering data

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

M8/M8

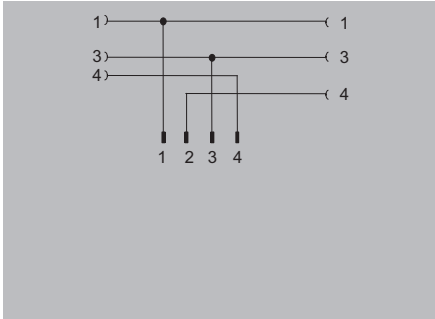


Ordering data

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

Y-distributor

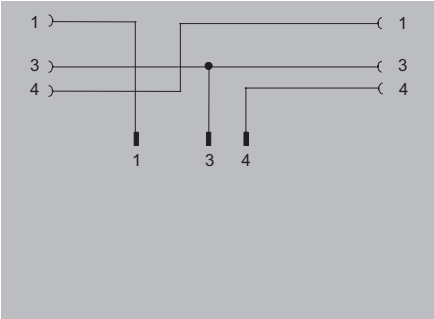
M8/M8



Ordering data

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

M8/M8



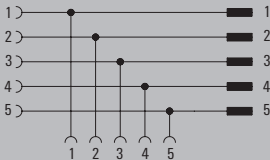
Ordering data

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

T distributor

M12/M12

CANopen

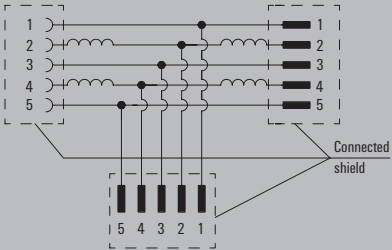


Ordering data

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

M12/M12

PROFIBUS



Ordering data

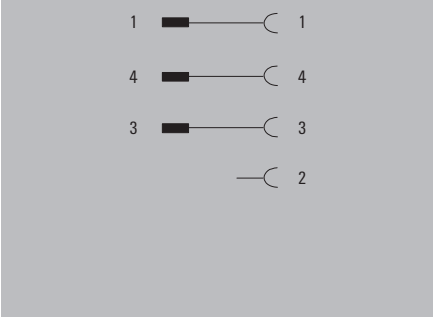
Type	Qty.	Order No.
SAI-T-5-M12/M12 B-COD	1	1057940000

Connectors – accessories

Adapters

M8/M8

M8 Male 3-poles - M8 Female 4-poles

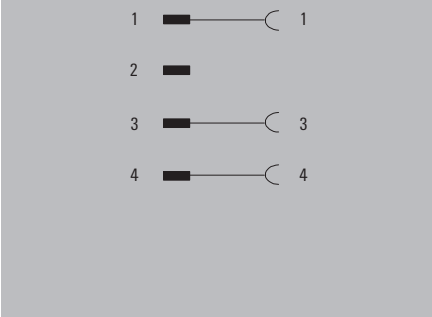


Ordering data

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

M8/M8

M8 Male 4-poles - M8 Female 3-poles

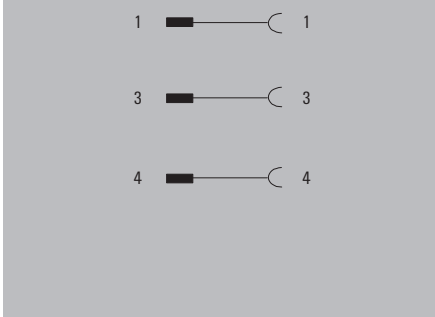


Ordering data

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

M8/M12

M8 Male 3-poles - M12 Female 3-poles

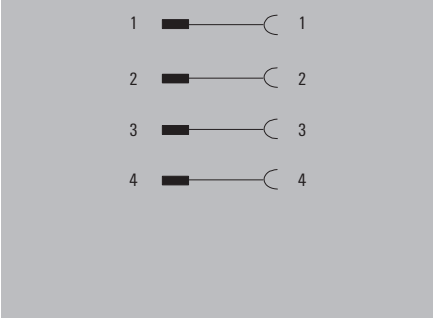


Ordering data

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

M8/M12

M8 Male 4-poles - M12 Female 4-poles

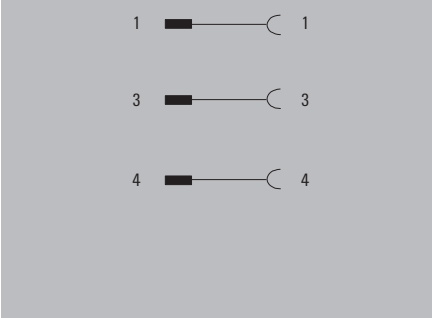


Ordering data

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

M12/M8

M12 Male 3-poles - M8 Female 3-poles

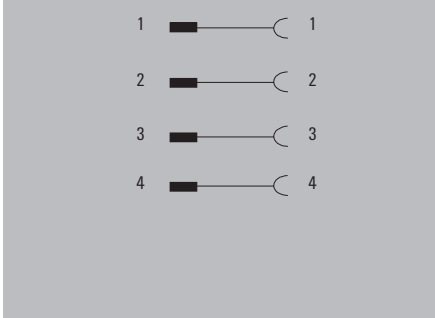


Ordering data

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

M12/M8

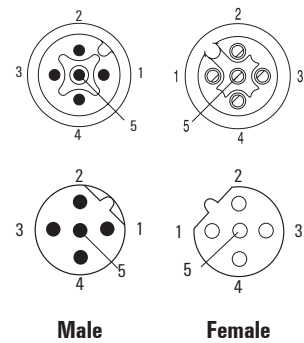
M12 Male 4-poles - M8 Female 4-poles



Ordering data

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

Panel feed-through
A-coded
B-coded



Ordering data

Type	Qty.	Order No.
SAI-WDF 5P M12 K	1	2427060000
Note		

Technical data

Type of connection	Screw connection
Housing main material	CuZn
Connection thread	M12 socket, M12 plug
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
AF size	Gold-plated
Contact surface	M 12
Mounting thread	
Note	

SAI-WDF
A-coded



SAI-WDF
B-coded



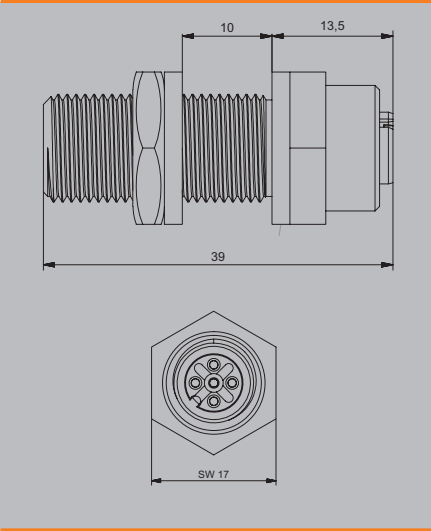
Type	Qty.	Order No.
SAI-WDF 5P M12 K	1	2427060000
Note		

Type of connection	Screw connection
Housing main material	CuZn
Connection thread	M12 socket, M12 plug
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
AF size	Gold-plated
Contact surface	M 12
Mounting thread	
Note	

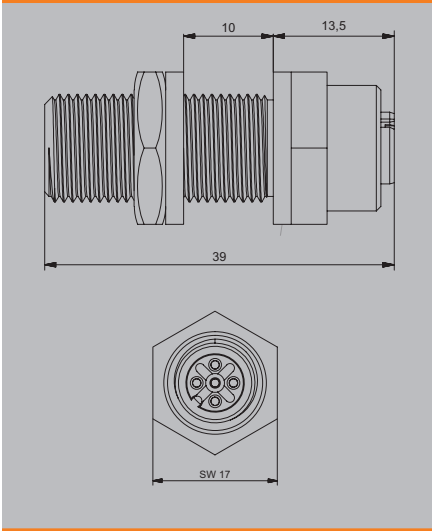
Type	Qty.	Order No.
SAI-WDF 5P B M12 K	1	2485310000
Note		

Type of connection	Screw connection
Housing main material	CuZn
Connection thread	M12 socket, M12 plug
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
AF size	Gold-plated
Contact surface	M 12
Mounting thread	
Note	

Dimensioned drawing



Dimensioned drawing



Connectors – accessories

Protective caps for SAI distributors

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 distributor indicated.

Protective cap M8

For SAI M8 distributors.
IP 68



Ordering data

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

Protective cap M12

For SAI M12 distributors.
IP 68



Ordering data

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

Protective cap M12

For SAI metal distributors.
IP 68



Ordering data

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

Protective cap M12 IDC

For SAI distributors 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 distributor 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.

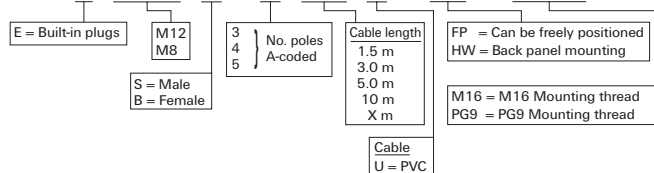
Weidmüller offers a broad portfolio of built-in connectors with different types of assembly, coding, numbers of poles and cable lengths in thread sizes M8 and M12.

Properties:

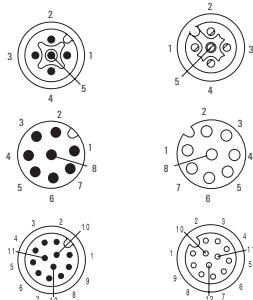
- Front mounting (screw-in and freely positioned) and back panel mounting
- A and B coding
- M8, M16 and PG9 installation thread
- 3-, 4-, 5-, 8- and 12-pole

Designation code SAIE

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



M12 A-coded
Front wall mounting



Male Female

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
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

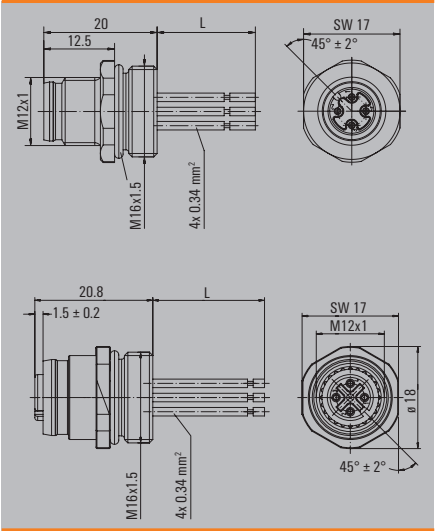
Mounting thread M16



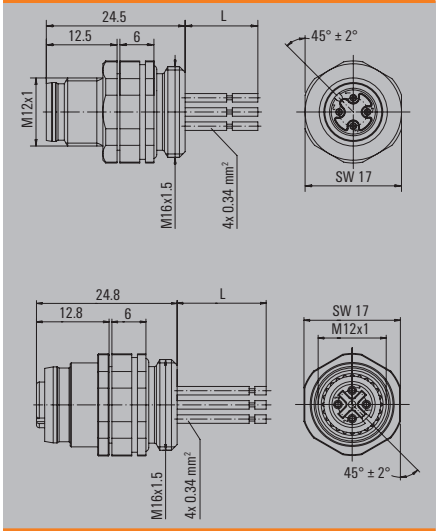
Type	Qty.	Order No.
SAIE-M12S-4-0.5U-FP-M16	1	1861160000
SAIE-M12S-5-0.5U-FP-M16	1	1861170000
SAIE-M12S-8-0.5U-FP-M16	1	1861180000
SAIE-M12S-12-0.5U-FP-M16	1	1283550000
SAIE-M12B-4-0.5U-FP-M16	1	1861190000
SAIE-M12B-5-0.5U-FP-M16	1	1856110000
SAIE-M12B-8-0.5U-FP-M16	1	1861210000
SAIE-M12B-12-0.5U-FP-M16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

M 16
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

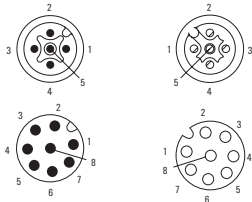


Dimensioned drawing



Built-in plugs

M12 A-coded
Front wall mounting



Male Female

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

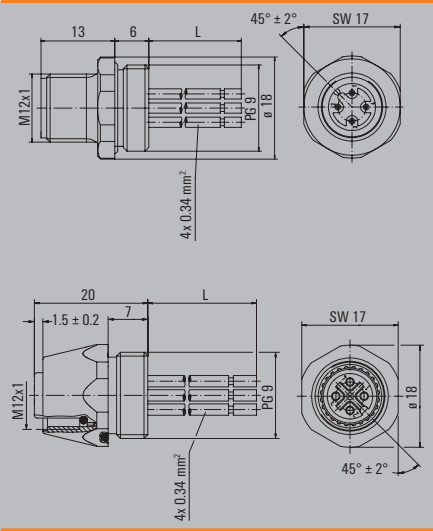
Mounting thread PG9



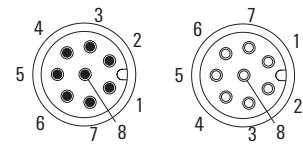
Type	Qty.	Order No.
SAIE-M12S-4-0.5U-PG9	1	1861220000
SAIE-M12S-5-0.5U-PG9	1	1856120000
SAIE-M12S-8-0.5U-PG9	1	1861240000
SAIE-M12B-4-0.5U-PG9	1	1861250000
SAIE-M12B-5-0.5U-PG9	1	1814890000
SAIE-M12B-8-0.5U-PG9	1	1861270000
Other versions on request		

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) / 125 V (5-pole) / 60 V (8-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

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 mm²
1.5 A
30 V
-25...+85 °C
IP67, when screwed in
Gold-plated

M8 Back panel mounting

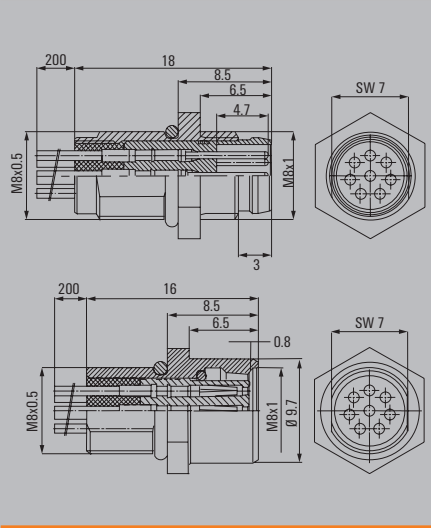
Mounting thread M10/M8



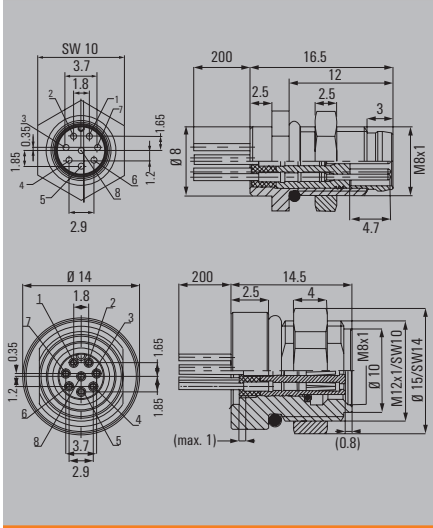
Type	Qty.	Order No.
SAIE-M8S-8-0.2U-HW	1	1467620000
SAIE-M8B-8-0.2U-HW	1	1467640000
Further versions on request		

M8
Brass, nickel-plated
M8 thread
0.14 mm²
1.5 A
30 V
-25...+85 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing

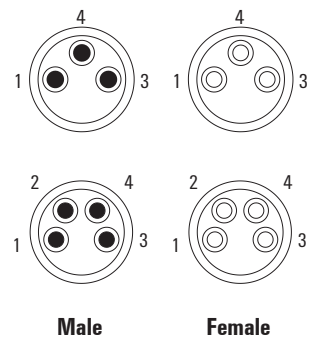


Dimensioned drawing



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, rest

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 mm²
4 A
60 V (3-pole) / 30 V (4-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

M8 Free positioning

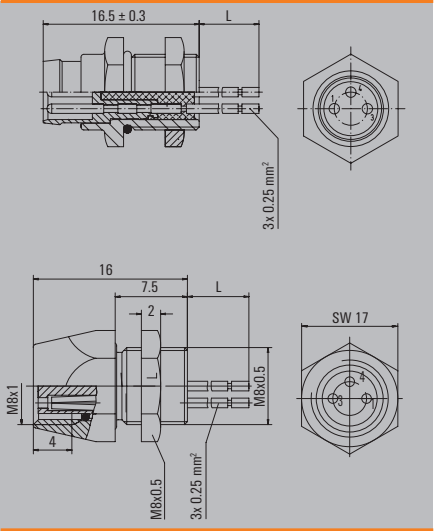
Mounting thread M8



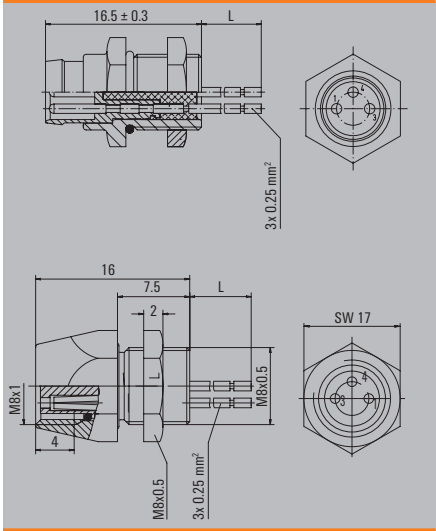
Type	Qty.	Order No.
SAIE-M8S-3-0.5U-FP-M8	1	1078730000
SAIE-M8S-4-0.5U-FP-M8	1	1078720000
SAIE-M8B-3-0.5U-FP-M8	1	1856130000
SAIE-M8B-4-0.5U-FP-M8	1	1856140000
Further versions on request		

M8
Brass, nickel-plated
M8 thread
0.25 mm²
4 A
60 V (3-pole) / 30 V (4-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

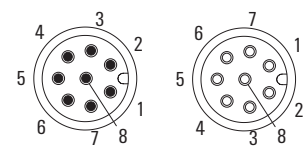
Dimensioned drawing



Dimensioned drawing



M8 PCB connector
8-pole
Back panel 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

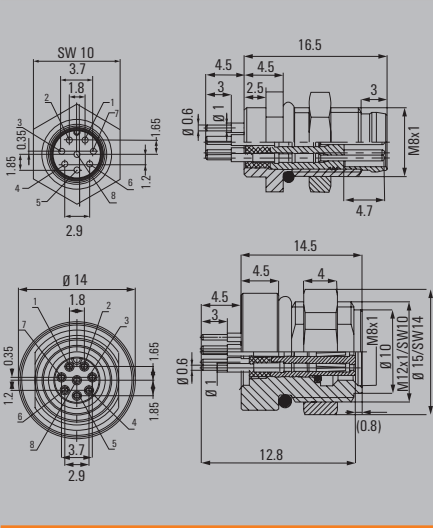
M8
Mounting thread M8/M10



Type	Qty.	Order No.
SAIE-M8S-8-TL-HW	20	1467610000
SAIE-M8B-8-TL-HW	1	1467650000

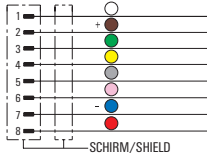
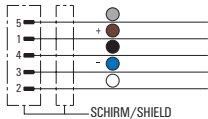
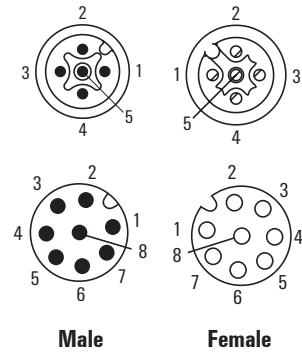
M8
Brass, nickel-plated
M8 thread
1.5 A
30 V
-25...+85 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing



Built-in plugs

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



Ordering data		5-pole		8-pole	
Male, straight					
PUR	0.5 m	SAIE-M12S-5S0.5U HW	1341230050	SAIE-M12S-8S0.5U HW	1341240050
PUR	2.0 m	SAIE-M12S-5S2.0U HW	1341230200	SAIE-M12S-8S2.0U HW	1341240200
Female, straight					
PUR	0.5 m	SAIE-M12B-5S0.5U HW	1222270050	SAIE-M12B-8S0.5U HW	1223650050
PUR	2.0 m	SAIE-M12B-5S2.0U HW	1222270000	SAIE-M12B-8S2.0U HW	1223650000
Note					

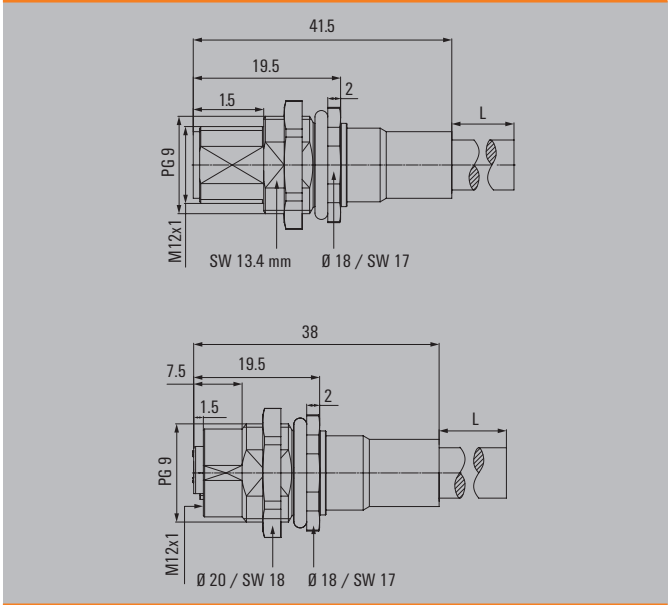
Standard cable lengths

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

Mounting thread	PG 9
Housing main material	Zinc diecast, nickel-plated
Connection thread	M12
Core cross-section	0.25 mm²
Rated current	4 A (3-, 4- and 5-pole) / 1.5 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

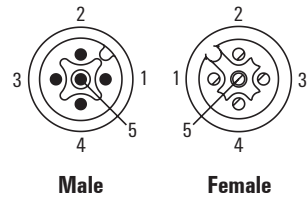
Dimensioned drawing



A-Coded
M12 PCB Connectors

M12 Dip solder

Assembly = Pressing in



Ordering data

Male	
	5-pole
Female	
	5-pole
Note	

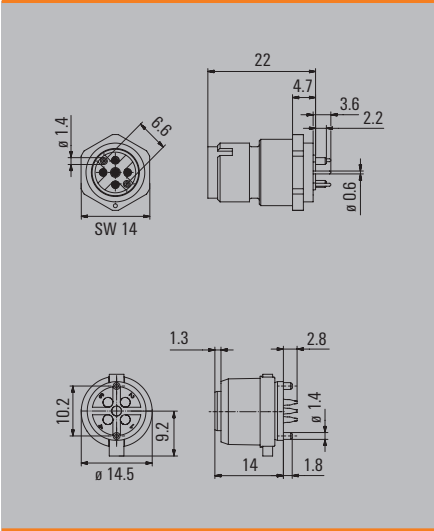
Type	Qty.	Order No.
SAIE-M12S-5-TL	20	1312980000
SAIE-M12B-5-TL	20	1312970000

Technical data

Housing main material
Connection thread
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

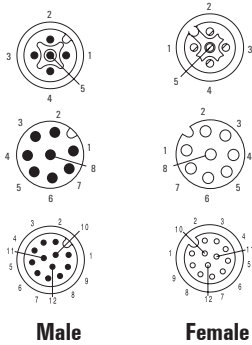
CuZn
M12
4 A
60 V
-25...+85 °C
IP68
Gold-plated
EAC

Dimensioned drawing



Built-in plugs

A-coded
M12 PCB connectors
Back panel mounting



Ordering data

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

Technical data

Housing main material
Connection thread
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Approvals
Note

M12

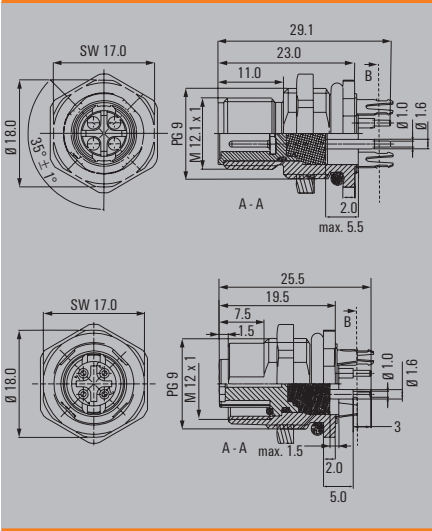
Straight, mounting thread PG9



Type	Qty.	Order No.
SAIE-M12S-4S-TL-HW-PG9	10	1467710000
SAIE-M12S-5S-TL-HW-PG9	20	1467720000
SAIE-M12S-8S-TL-HW-PG9	20	1467730000
SAIE-M12S-12S-TL-HW-PG9	20	1467740000
SAIE-M12B-4S-TL-HW-PG9	20	1467770000
SAIE-M12B-5S-TL-HW-PG9	20	1467780000
SAIE-M12B-8S-TL-HW-PG9	20	1467790000
SAIE-M12B-12S-TL-HW-PG9	20	1467810000

Zinc diecast
M12
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)
-40 ... +85 °C
IP67, when fully mounted
Gold-plated
EAC

Dimensioned drawing



M12

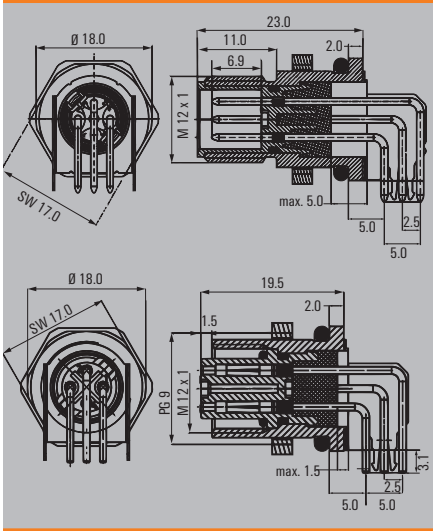
Angled, mounting thread PG9



Type	Qty.	Order No.
SAIEW-M12S-4S-TL-HW-PG9	15	1467750000
SAIEW-M12S-5S-TL-HW-PG9	15	1467760000
SAIEW-M12B-4S-TL-HW-PG9	15	1467820000
SAIEW-M12B-5S-TL-HW-PG9	15	1467830000

Zinc diecast
M12
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)
-40 ... +85 °C
IP67, when fully mounted
Gold-plated
EAC

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

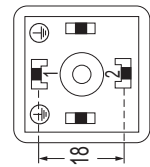
Legend

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
-25...+85 °C
IP65
Ni

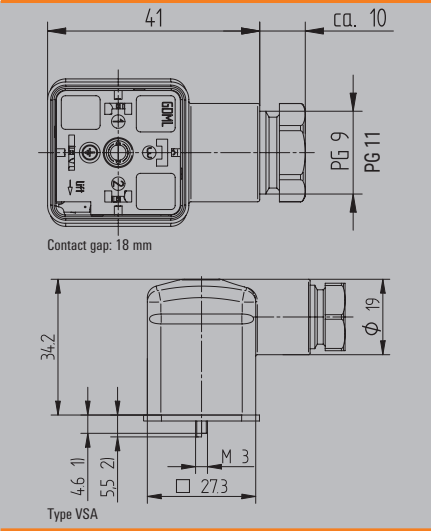
SAIB-VSA



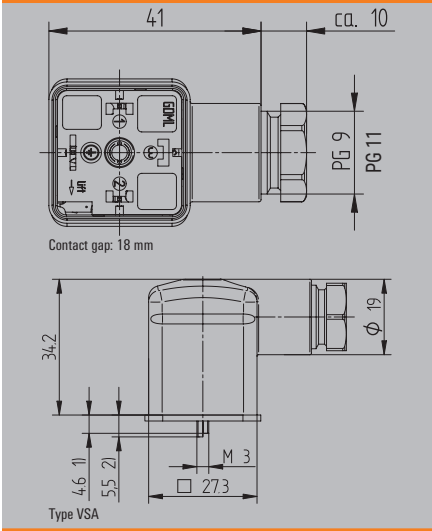
Type	Qty.	Order No.
SAIB-VSA-3P/230/9-H/OB	1	1873130000
SAIB-VSA-4P/230/9-H/OB	1	1873140000
SAIB-VSA-3P/230/11-H/OB	1	1873150000
SAIB-VSA-4P/230/11-H/OB	1	1873160000

Screw connection
PA 6 GF
Design A (18 mm)
6...8 mm (PG9) / 8...10 mm (PG11)
0.34...1.5 mm ²
10 A
230 V
-25...+85 °C
IP65
Ni

Dimensioned drawing

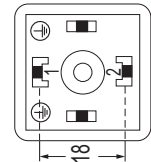


Dimensioned drawing



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



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

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
24 V DC
-25...+85 °C
IP65
Ni

SAIB-VSA

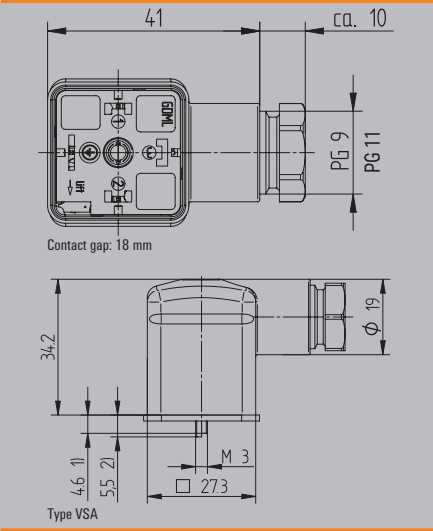
with Varistor, 230 V



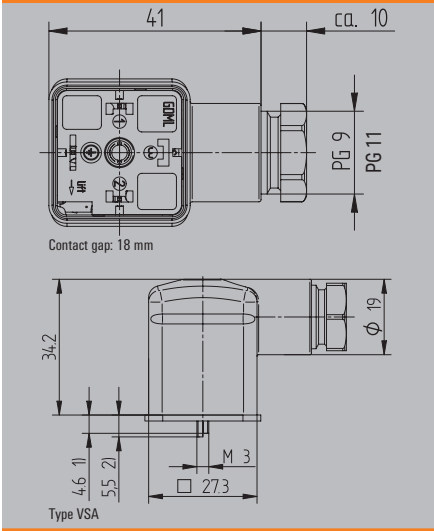
Type	Qty.	Order No.
SAIB-VSA-3P/230/9/LD	1	1873110000
Note		

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
230 V
-25...+85 °C
IP65
Ni

Dimensioned drawing

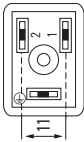


Dimensioned drawing



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	

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

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

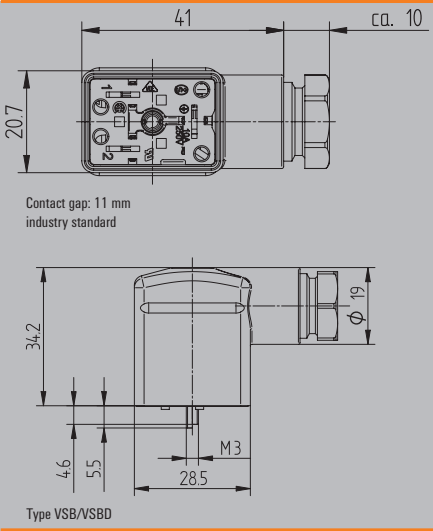
Technical data

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

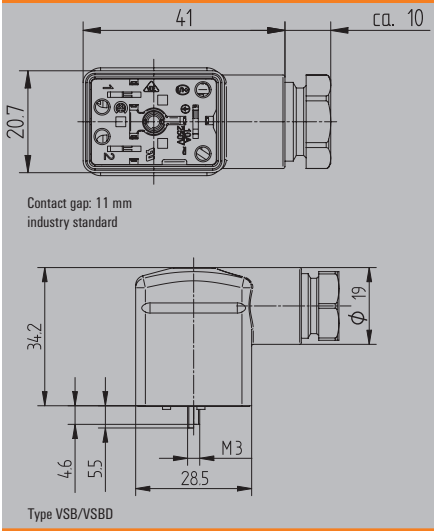
Screw connection
PA 6 GF
Industrial design B (11 mm)
6...8 mm (PG9)
0.34...1.5 mm ²
10 A
250 V
-25...+85 °C
IP65
Ni
Note

Screw connection
PA 6 GF
Industrial design B (11 mm)
6...8 mm (PG9)
0.34...1.5 mm ²
10 A
24 V DC
-25...+85 °C
IP65
Ni
Note

Dimensioned drawing



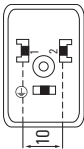
Dimensioned drawing



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	

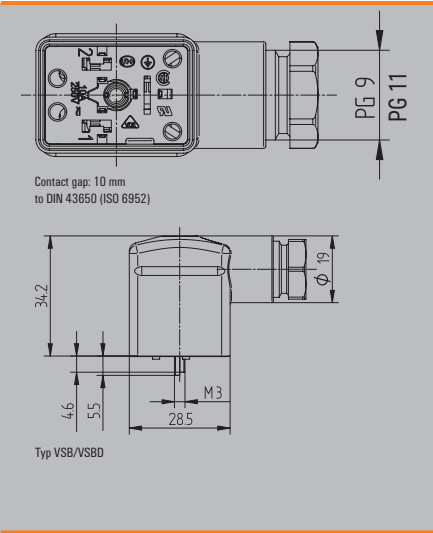
Type	Qty.	Order No.
SAIB-VSBD-3P/250/9-0B	1	1873190000

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

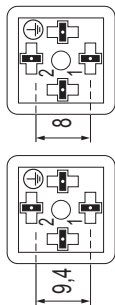
Screw connection
PA 6 GF
DIN design B (10 mm)
6...8 mm (PG9)
0.34...1.5 mm ²
10 A
250 V
-25...+85 °C
IP65
Ni

Dimensioned drawing



Design type C/CD
without protective circuit

Contact distance C = 9.4 mm, CD = 8 mm



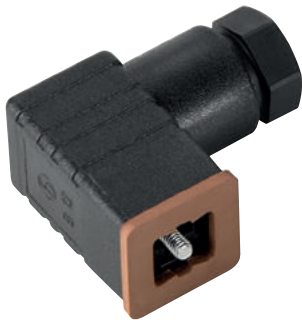
Ordering data

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...6 mm
0.34...1.5 mm ²
10 A
250 V
-25...+85 °C
IP65
Ni

SAIB-VSCD



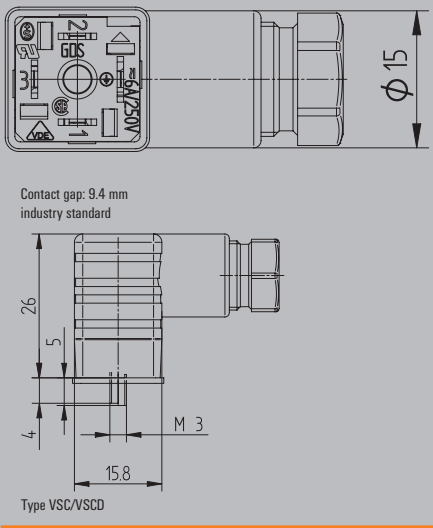
Type	Qty.	Order No.
SAIB-VSCD-3P/250/7-0B	1	1873220000
SAIB-VSCD-4P/250/7-0B	1	1873230000

Screw connection
PA 6 GF
DIN design C (8 mm)
4...6 mm
0.34...1.5 mm ²
10 A
250 V
-25...+85 °C
IP65
Ni

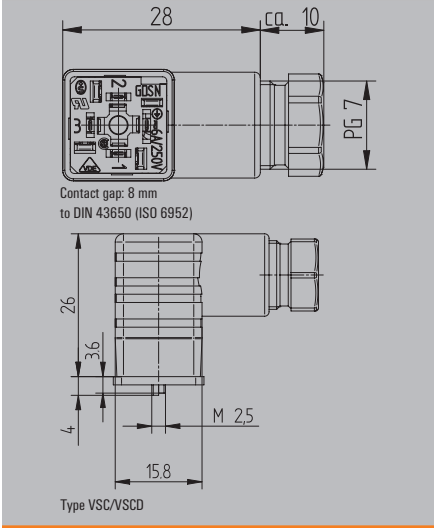
M8, M12 Plug-in connectors
and protective caps

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.

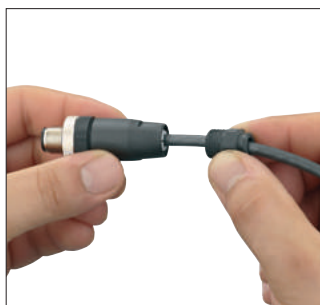
Ordering data

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

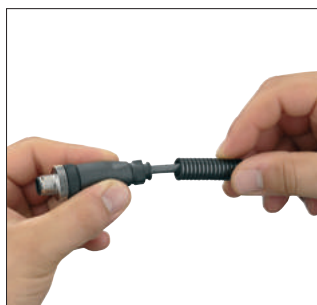
Fitting a protective sleeve adapter



1. Unscrewing the PG7 cable gland



2. Screwing on the protective sleeve adapter

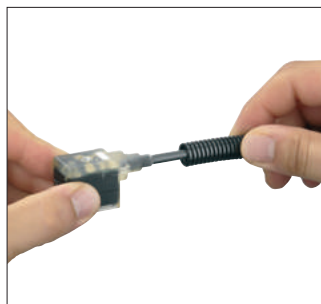


3. Fitting a PG7 protective sleeve

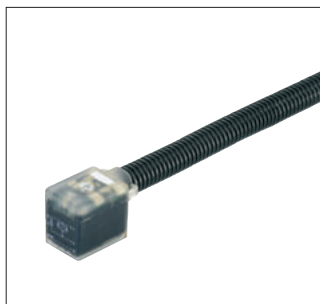


4. Finished

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 connectors	D.14
	Customisable panel feed-through	D.20
	Built-in plug	D.22
	Device connector	D.25
	T, h and H distributors	D.27
	M12 distributor	D.29
	M12 power distributor	D.31

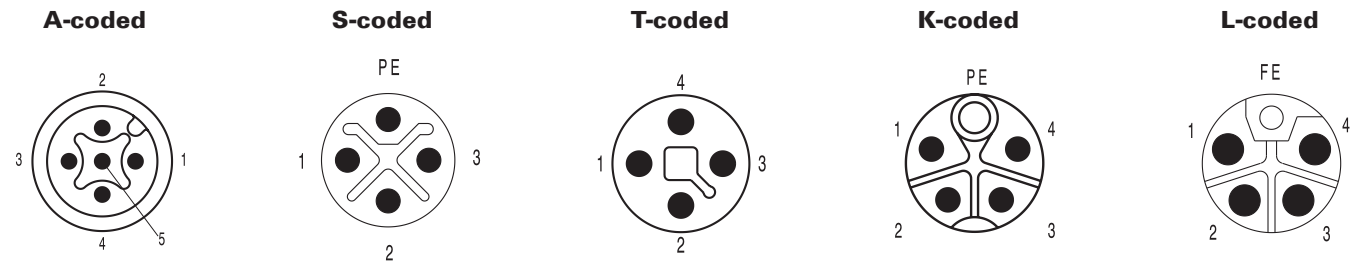
M12 POWER (A-, S-, K-, L- und T-Codiert)

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 distributors (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





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.



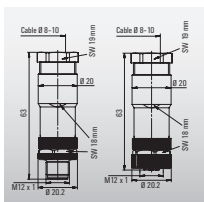
High performance data

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

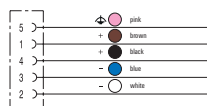
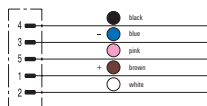
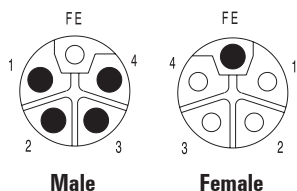


Distributors

One end without connector

M12

L-coded



Ordering data

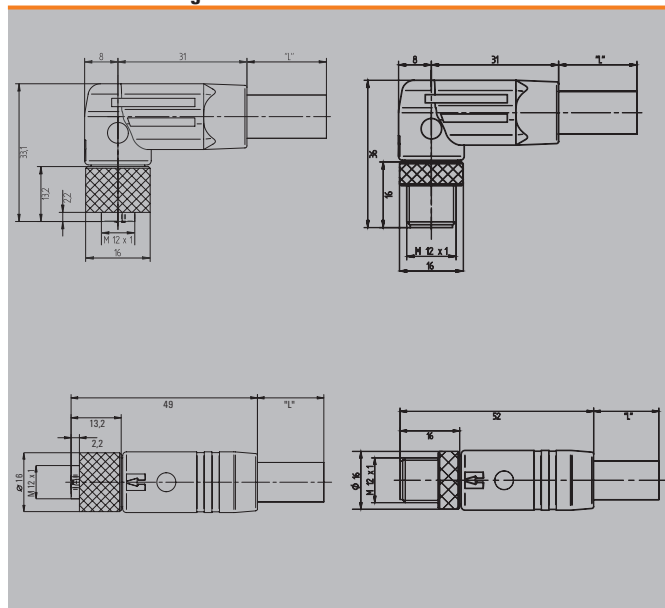
Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0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

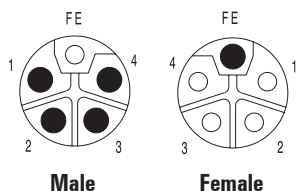
Technical data

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	cULus

Dimensioned drawing



L-coded



5-pole

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-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

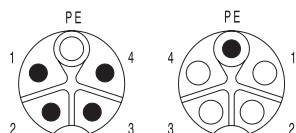
Core cross-section	1.5 mm ²
Rated voltage	63 V DC
Rated current	16 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP65, IP67, when screwed in
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	cULus

One end without connector

M12

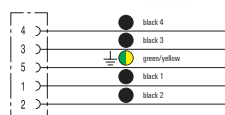
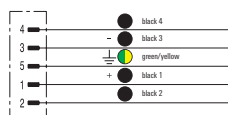
K-coded

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	

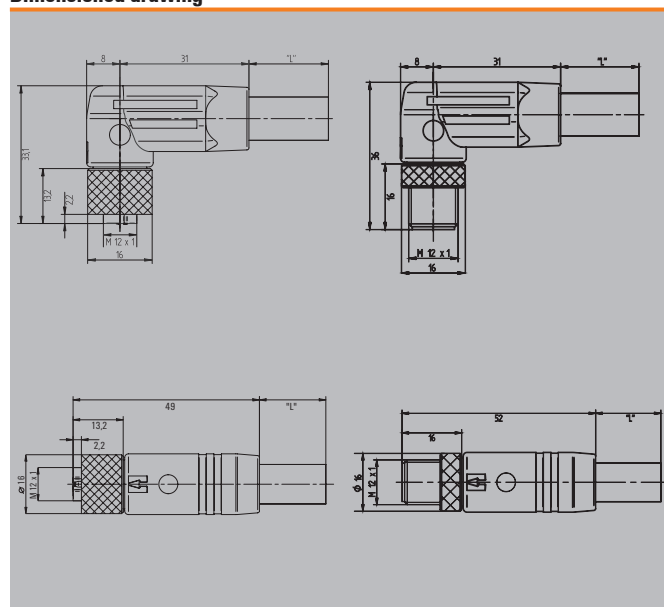
	5-pole
SAIL-M12G-K-1.5P	2455210150
SAIL-M12G-K-3.0P	2455210300
SAIL-M12G-K-5.0P	2455210500
SAIL-M12G-K-10P	2455211000
SAIL-M12W-K-1.5P	2455230150
SAIL-M12W-K-3.0P	2455230300
SAIL-M12W-K-5.0P	2455230500
SAIL-M12W-K-10P	2455231000
SAIL-M12BG-K-1.5P	2455150150
SAIL-M12BG-K-3.0P	2455150300
SAIL-M12BG-K-5.0P	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

A diagram illustrating a horizontal bar with a grey segment on the left and an orange segment on the right. Below the bar are five horizontal lines. The first line is grey, and the remaining four are white. To the right of these lines are four orange rectangular blocks stacked vertically.

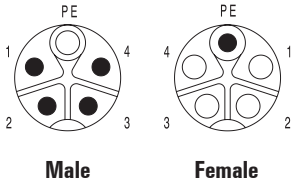
Technical data

Core cross-section	1.5 mm ²
Rated voltage	630 V AC
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	cULus

Dimensioned drawing



Connecting cables
M12
K-coded
1.5mm²



Ordering 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	

5-pole

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

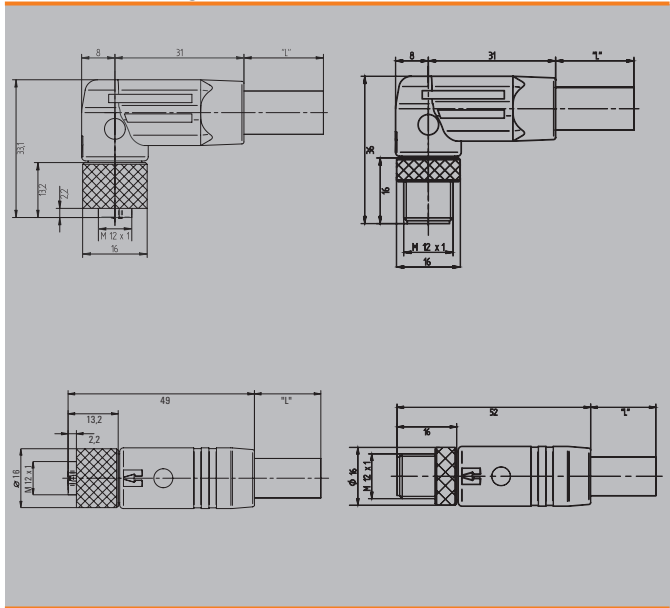
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Technical data

Core cross-section	1.5 mm ²
Rated voltage	630 V AC
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	cULus

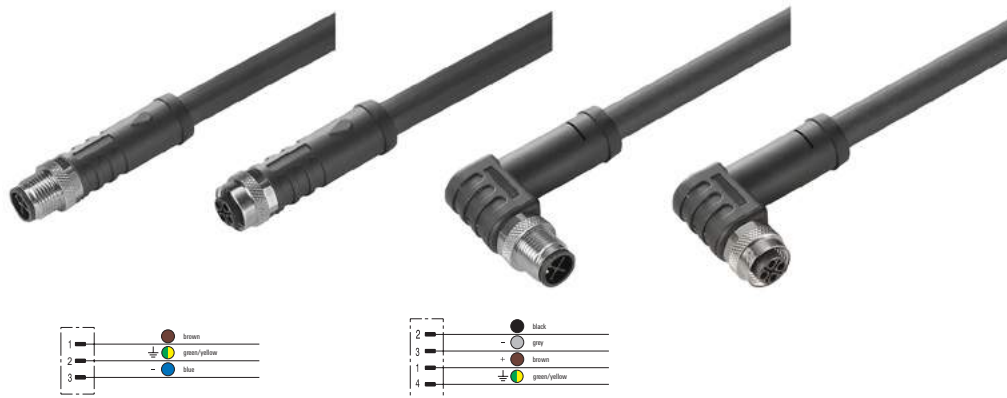
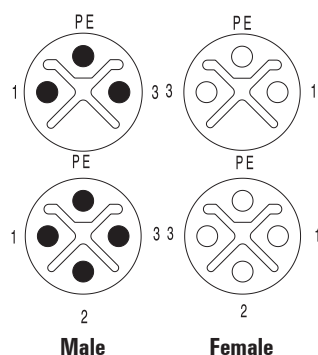
Dimensioned drawing



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

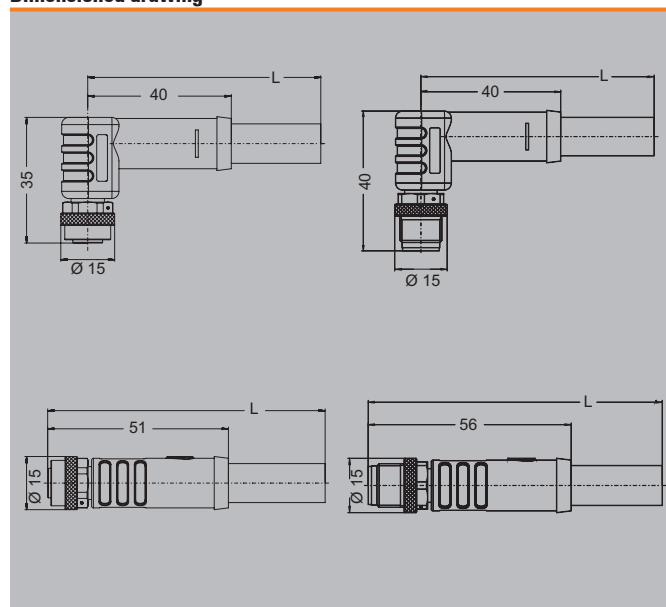
	4-pole
SAIL-M12G-S-1.5P	2050230150
SAIL-M12G-S-3.0P	2050230300
SAIL-M12G-S-5.0P	2050230500
SAIL-M12G-S-10P	2050231000
SAIL-M12W-S-1.5P	2050260150
SAIL-M12W-S-3.0P	2050260300
SAIL-M12W-S-5.0P	2050260500
SAIL-M12W-S-10P	2050261000
SAIL-M12BG-S-1.5P	2050160150
SAIL-M12BG-S-3.0P	2050160300
SAIL-M12BG-S-5.0P	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

An abstract graphic design consisting of several horizontal rectangular bars stacked vertically. The top bar is orange. Below it are two grey bars, followed by three white bars, and another orange bar at the bottom. These bars are arranged in a way that they appear to be part of a larger composition, possibly representing data or a timeline. The overall style is minimalist and modern.

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	

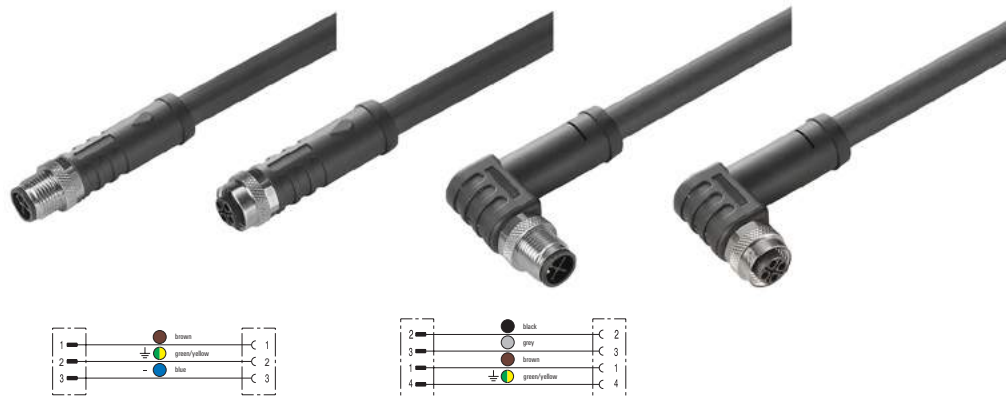
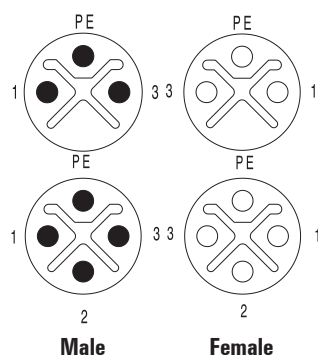
Dimensioned drawing



Connecting cables

M12

S-coded



Ordering 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	

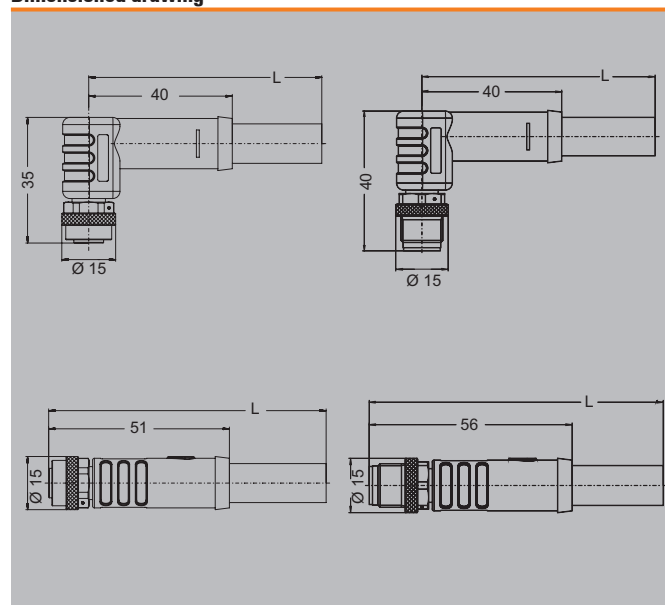
3-pole	
SAIL-M12GM12G-S3-1.5P	2050060150
SAIL-M12GM12G-S3-3.0P	2050060300
SAIL-M12GM12G-S3-5.0P	2050060500
SAIL-M12GM12G-S3-10P	2050061000
3-pole	
SAIL-M12GM12W-S3-1.5P	2050100150
SAIL-M12GM12W-S3-3.0P	2050100300
SAIL-M12GM12W-S3-5.0P	2050100500
SAIL-M12GM12W-S3-10P	2050101000
3-pole	
SAIL-M12WM12W-S3-1.5P	2050150150
SAIL-M12WM12W-S3-3.0P	2050150300
SAIL-M12WM12W-S3-5.0P	2050150500
SAIL-M12WM12W-S3-10P	2050151000
3-pole	
SAIL-M12WM12G-S3-1.5P	2050080150
SAIL-M12WM12G-S3-3.0P	2050080300
SAIL-M12WM12G-S3-5.0P	2050080500
SAIL-M12WM12G-S3-10P	2050081000

4-pole	
SAIL-M12GM12G-S-1.5P	2050270150
SAIL-M12GM12G-S-3.0P	2050270300
SAIL-M12GM12G-S-5.0P	2050270500
SAIL-M12GM12G-S-10P	2050271000
4-pole	
SAIL-M12GM12W-S-1.5P	2050460150
SAIL-M12GM12W-S-3.0P	2050460300
SAIL-M12GM12W-S-5.0P	2050460500
SAIL-M12GM12W-S-10P	2050461000
4-pole	
SAIL-M12WM12W-S-1.5P	2050470150
SAIL-M12WM12W-S-3.0P	2050470300
SAIL-M12WM12W-S-5.0P	2050470500
SAIL-M12WM12W-S-10P	2050471000
4-pole	
SAIL-M12WM12G-S-1.5P	2050350150
SAIL-M12WM12G-S-3.0P	2050350300
SAIL-M12WM12G-S-5.0P	2050350500
SAIL-M12WM12G-S-10P	2050351000

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	

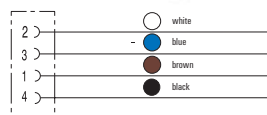
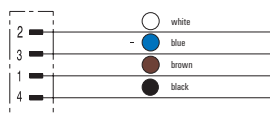
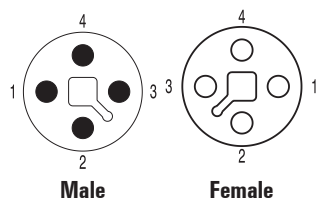
Dimensioned drawing



One end without connector

M12

T-coded



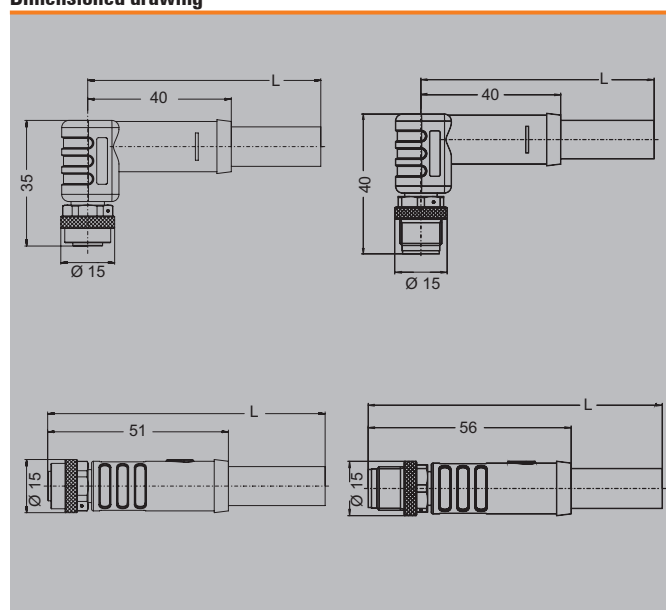
Ordering data

Ordering data		1.5 mm ²		2.5 mm ²	
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 mm ²
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	

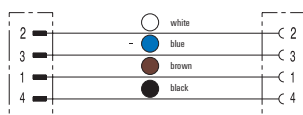
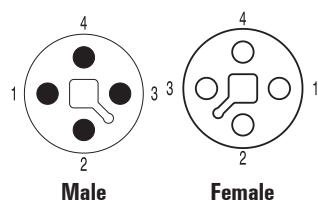
Dimensioned drawing



Connecting cables

M12

T-coded



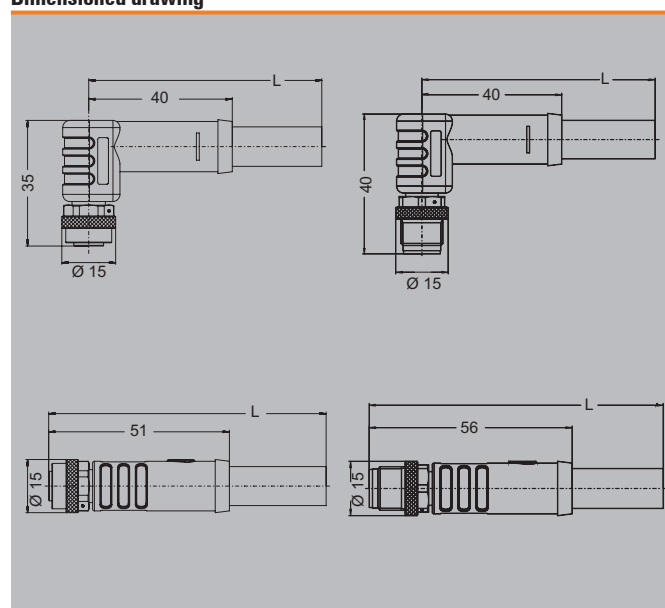
Ordering data

		1.5 mm ²	2.5 mm ²		
Ordering data					
Male, straight - Female, straight					
PUR halogen-free	1.5 m	SAIL-M12GM12G-T-1.5P	2050760150	SAIL-M12GM12G-T-1.5H	2050870150
PUR halogen-free	3.0 m	SAIL-M12GM12G-T-3.0P	2050760300	SAIL-M12GM12G-T-3.0H	2050870300
PUR halogen-free	5.0 m	SAIL-M12GM12G-T-5.0P	2050760500	SAIL-M12GM12G-T-5.0H	2050870500
PUR halogen-free	10.0 m	SAIL-M12GM12G-T-10P	2050761000	SAIL-M12GM12G-T-10H	2050871000
Male, straight - Female, angled					
PUR halogen-free	1.5 m	SAIL-M12GM12W-T-1.5P	2050830150	SAIL-M12GM12W-T-1.5H	2050910150
PUR halogen-free	3.0 m	SAIL-M12GM12W-T-3.0P	2050830300	SAIL-M12GM12W-T-3.0H	2050910300
PUR halogen-free	5.0 m	SAIL-M12GM12W-T-5.0P	2050830500	SAIL-M12GM12W-T-5.0H	2050910500
PUR halogen-free	10.0 m	SAIL-M12GM12W-T-10P	2050831000	SAIL-M12GM12W-T-10H	2050911000
Male, angled - Female, angled					
PUR halogen-free	1.5 m	SAIL-M12WM12W-T-1.5P	2050860150	SAIL-M12WM12W-T-1.5H	2050920150
PUR halogen-free	3.0 m	SAIL-M12WM12W-T-3.0P	2050860300	SAIL-M12WM12W-T-3.0H	2050920300
PUR halogen-free	5.0 m	SAIL-M12WM12W-T-5.0P	2050860500	SAIL-M12WM12W-T-5.0H	2050920500
PUR halogen-free	10.0 m	SAIL-M12WM12W-T-10P	2050861000	SAIL-M12WM12W-T-10H	2050921000
Male, angled - Female, straight					
PUR halogen-free	1.5 m	SAIL-M12WM12G-T-1.5P	2050820150	SAIL-M12WM12G-T-1.5H	2050890150
PUR halogen-free	3.0 m	SAIL-M12WM12G-T-3.0P	2050820300	SAIL-M12WM12G-T-3.0H	2050890300
PUR halogen-free	5.0 m	SAIL-M12WM12G-T-5.0P	2050820500	SAIL-M12WM12G-T-5.0H	2050890500
PUR halogen-free	10.0 m	SAIL-M12WM12G-T-10P	2050821000	SAIL-M12WM12G-T-10H	2050891000
Note					

Technical data

Core cross-section	1.5 mm ²
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	

Dimensioned drawing



Sensor cables

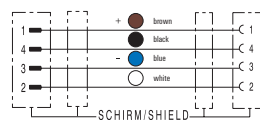
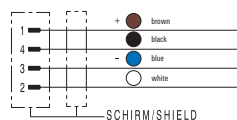
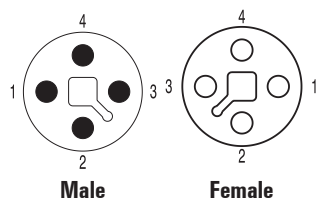
One end without connector

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

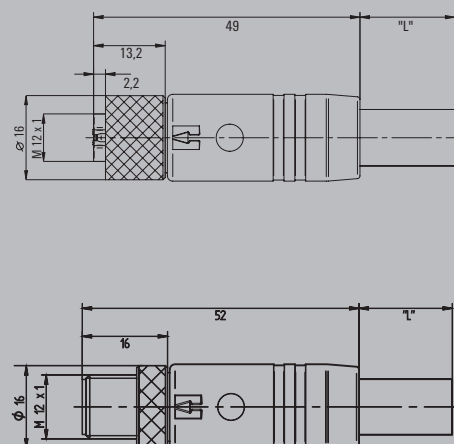
System	Percentage
Current system	55%
Alternative system	45%

Government	Percentage
Current government	80%
Previous government	20%

Technical data

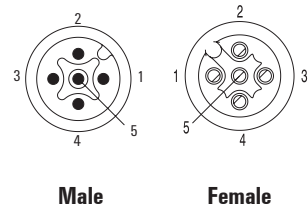
Core cross-section	1.5 mm ²
Rated voltage	63 V DC
Rated current	16 A
Temperature range of housing	-40 ... +85 °C
Contact surface	Gold-plated
Protection degree	IP67
AF size	
Tightening torque	M12: 0.8 - 1.2 Nm
Approvals	

Dimensioned drawing



Customisable connectors

M12 screw connection
A-coded



SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

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

Type	Qty.	Order No.
SAIS-4/11-1.5	1	1353700000
SAIS-5/11-1.5	1	1353740000
SAIB-4/11-1.5	1	1353730000
SAIB-5/11-1.5	1	1353750000

Type	Qty.	Order No.
SAISW-4/11-1.5	1	1467660000
SAISW-5/11-1.5	1	1467680000
SAIBW-4/11-1.5	1	1467670000
SAIBW-5/11-1.5	1	1467690000

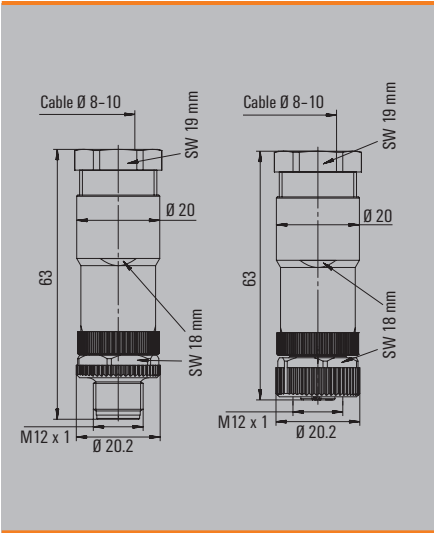
Technical data

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

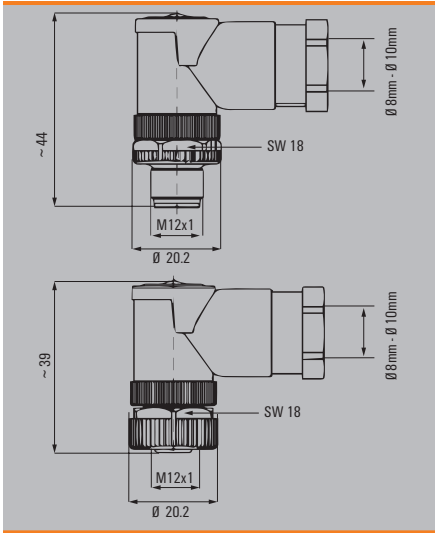
Screw connection
PA
M12
8...10 mm (PG11)
0.14...1.5 mm ²
Contacts 1-4 8A, contact 5 2A
250 V
-40 ... +85 °C
IP67
Gold-plated
CuZn
≥ 100
3
Rated current values only in conjunction with the matching mating connector.

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.

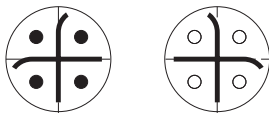
Dimensioned drawing



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	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	12 A
Rated voltage	630 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

Straight



Type	Qty.	Order No.
SAIS-3+PE/11-S-COD	1	1391990000
SAIB-3+PE/11-S-COD	1	1392000000

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	12 A
Rated voltage	630 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3

SAISW / SAIBW

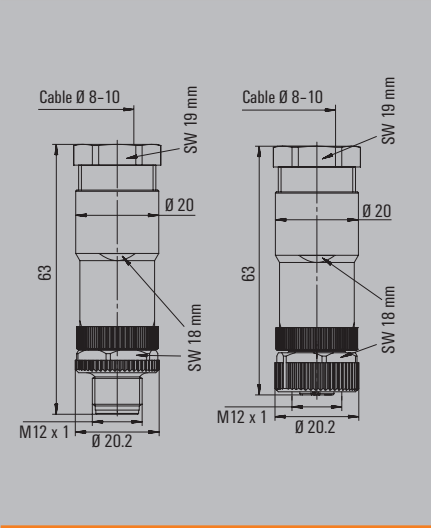
Angled



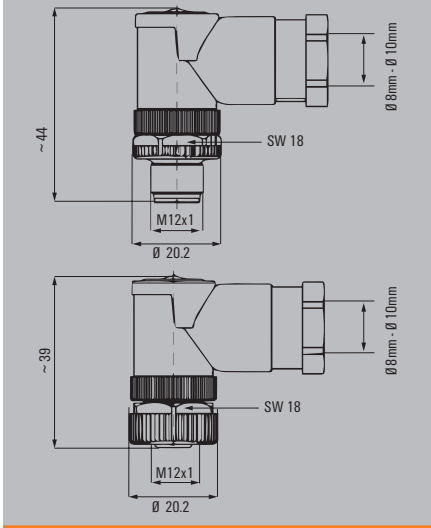
Type	Qty.	Order No.
SAISW-3+PE/11-S-COD	1	1467860000
SAIBW-3+PE/11-S-COD	1	1467870000

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	12 A
Rated voltage	630 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3

Dimensioned drawing

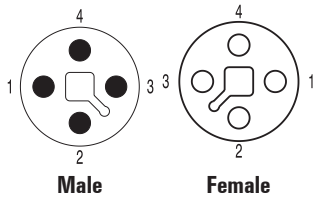


Dimensioned drawing



Customisable 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.
SAIS-4/11-T-COD	1	1391970000
SAIB-4/11-T-COD	1	1391980000

Type	Qty.	Order No.
SAISW-4/11-T-COD	1	1467880000
SAIBW-4/11-T-COD	1	1467890000

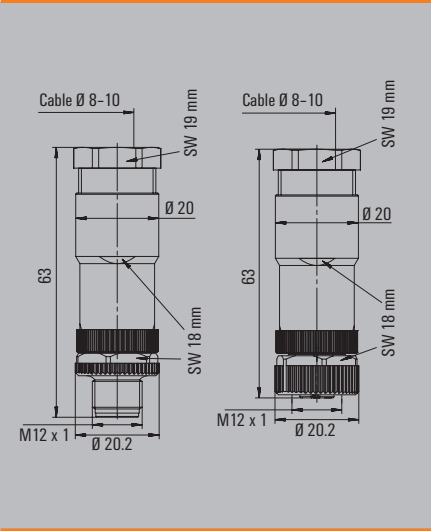
Technical data

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

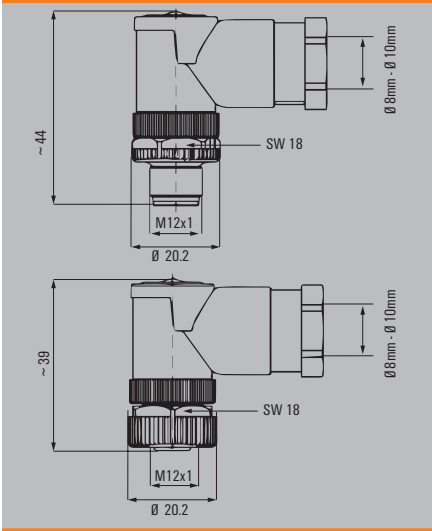
Screw connection
PA
M12
8...10 mm (PG11)
0.14...1.5 mm ²
12 A
60 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated
CuZn
≥ 100
3

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

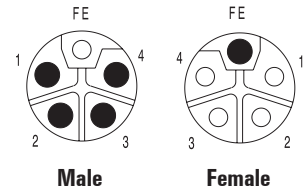
Dimensioned drawing



Dimensioned drawing



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



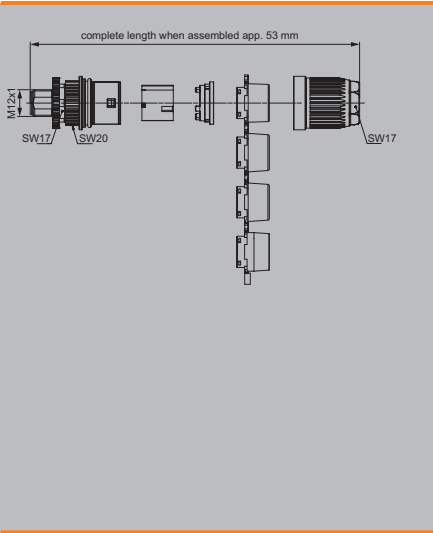
Type	Qty.	Order No.
SAIS-M-5S-IDC-M12-L-COD	1	2530750000

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

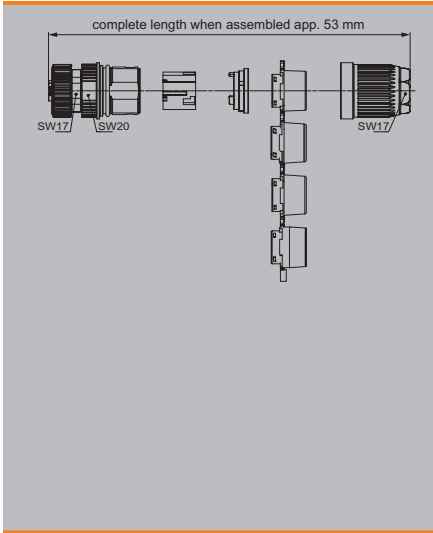
Type	Qty.	Order No.
SAIB-M-5S-IDC-M12-L-COD	1	2530760000

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

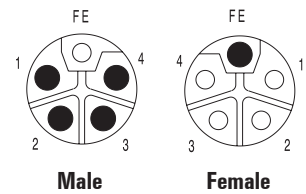


Dimensioned drawing



Customisable connectors

Crimp connection M12
with shield connection
L-Coded



SAIS
Male



SAIB
Female



Ordering data

	5-pole
Note	

Technical data

Type of connection	Crimp connection
Housing main material	Zinc diecast
Connection thread	M12 plug
Cable diameter	5.8...13.5 mm
Wire cross-section, min. / max.	0.5...2.5 mm²
Rated current	16 A
Rated voltage	63 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	Cu
Plugging cycles	500
Pollution severity	3
Note	

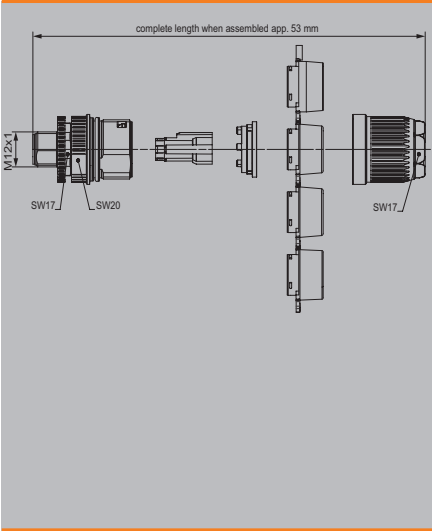
Type	Qty.	Order No.
SAISC-M-5S-M12-L-COD	1	2531020000
Contacts need to be order separately		

Crimp connection
Zinc diecast
M12 plug
5.8...13.5 mm
0.5...2.5 mm²
16 A
63 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated
Cu
500
3

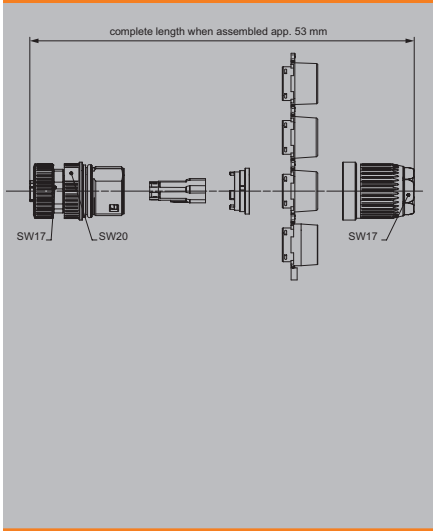
Type	Qty.	Order No.
SAIBC-M-5S-M12-L-COD	1	2525620000
Contacts need to be order separately		

Crimp connection
Zinc diecast
M12 socket
5.8...13.5 mm
0.5...2.5 mm²
16 A
63 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated
Cu
500
3

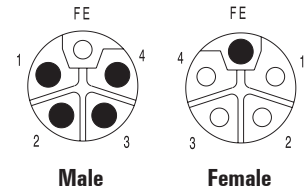
Dimensioned drawing



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

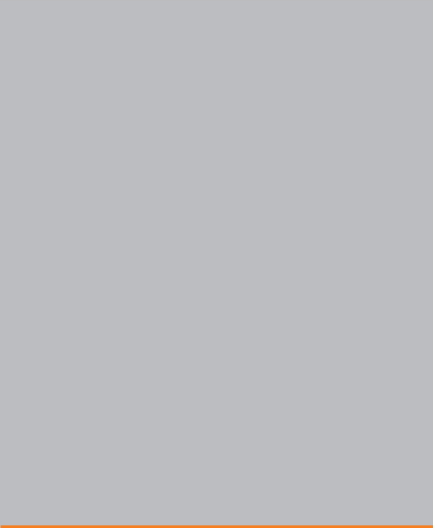
Type of connection
Housing main material
Connection thread
Cable diameter
Wire cross-section, min. / max.
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Contact material
Plugging cycles
Pollution severity
Note

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		

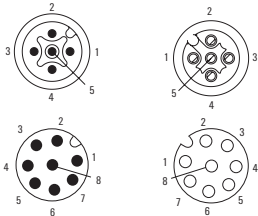
Crimp connection
63 V
Gold-plated
Cu
500
3

Dimensioned drawing



Customisable panel feed-through

M12 screw connection
A-coded



Male Female



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.	

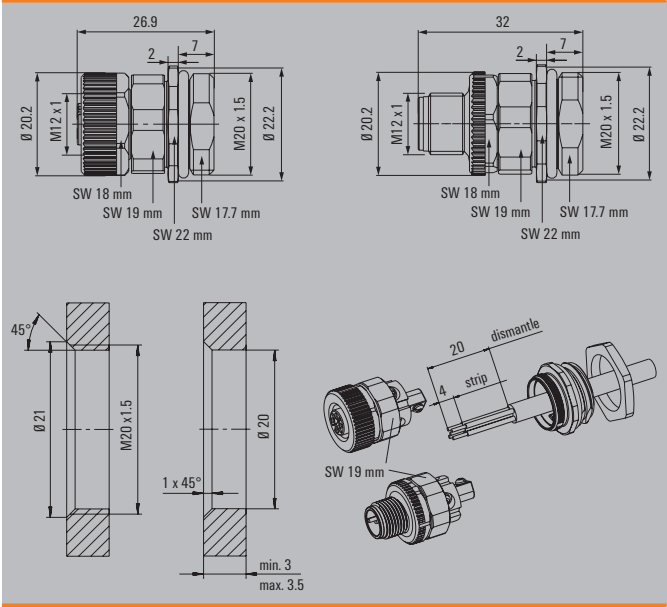
Standard cable lengths

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

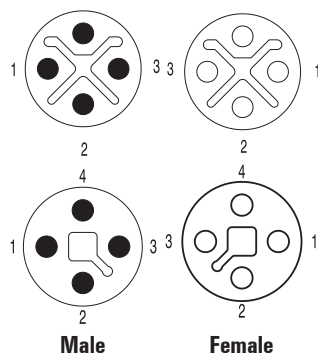
Technical data

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

Note

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



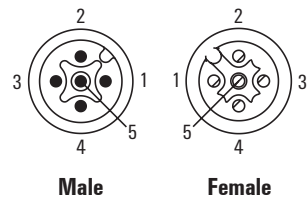
Type	Qty.	Order No.
SAIS-WDF-4-M20-T-COD	1	1392710000
SAIB-WDF-4-M20-T-COD	1	1392720000

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

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	

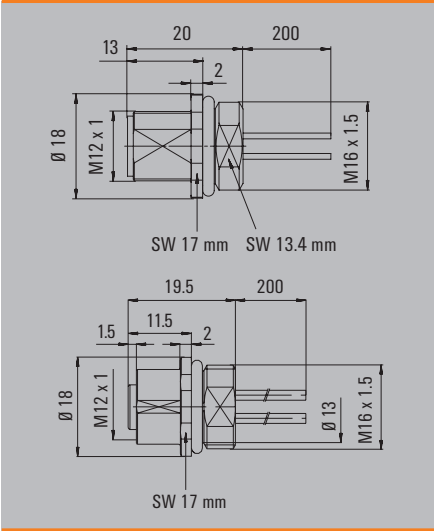
Type	Qty.	Order No.
SAIE-M12S-4-0.2U P9 .75	1	1353770000
SAIE-M12S-5-0.2U P9 .75	1	1353790000
SAIE-M12B-4-0.2U P9 .75	1	1353780000
SAIE-M12B-5-0.2U P9 .75	1	1353800000
Rated current values only in conjunction with the matching mating connector.		

Technical data

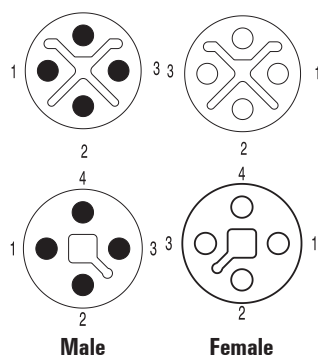
Mounting thread
Housing main material
Connection thread
Wire cross section
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Note

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



S-coded
T-coded
Front panel mounting



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	

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-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

M 16
Brass, nickel-plated
M12
AWG 16
12 A
630 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated

M12 Screw-in thread

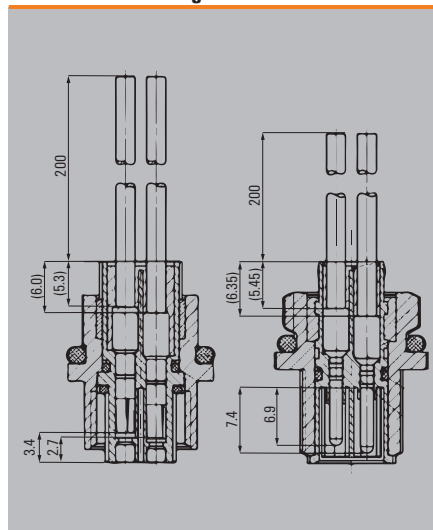
Mounting thread M16



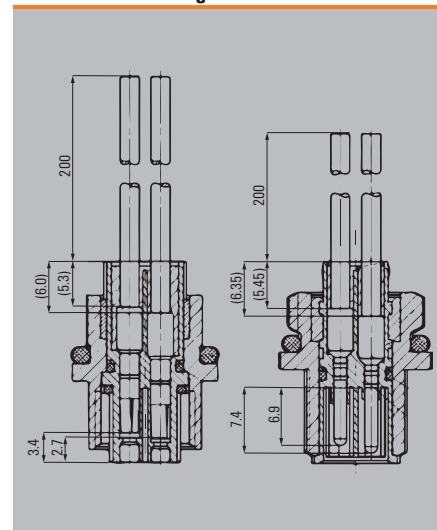
Type	Qty.	Order No.
SAIE-M12S-4-T-0.2U-M16	1	1467950000
SAIE-M12S-4-T-0.5U-M16	1	1460340000
SAIE-M12B-4-T-0.2U-M16	1	1467960000
SAIE-M12B-4-T-0.5U-M16	1	1460330000

M 16
Zinc diecast
M12
AWG 16
12 A
63 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing



Dimensioned drawing

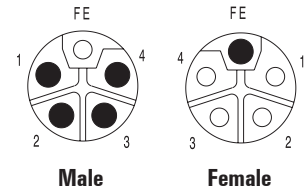


Built-in plug

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
Zinc diecast
M12
1.5 mm ²
16 A
63 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated

M12 Back panel mounting

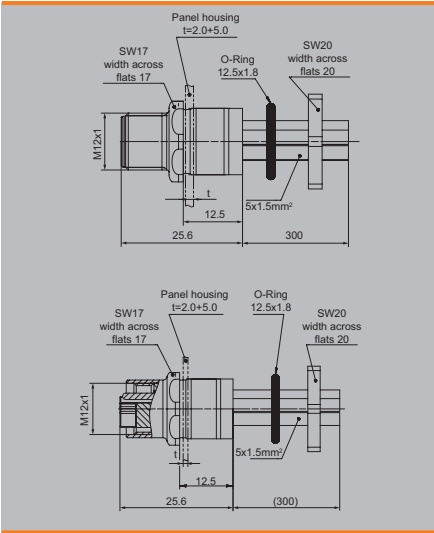
Mounting thread M16



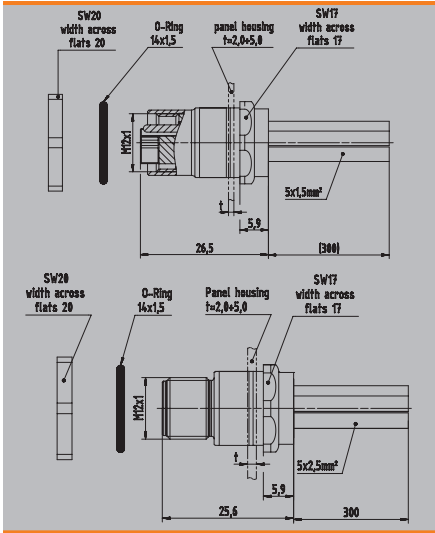
Type	Qty.	Order No.
SAIE-M12SL-0.3VHM16-1.5	1	2625950000
SAIE-M12SL-0.3VHM16-2.5	1	2625960000
SAIE-M12BL-0.3VHM16-1.5	1	2625940000
SAIE-M12BL-0.3VHM16-2.5	1	2625970000

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

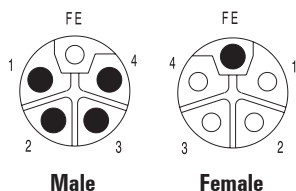
Dimensioned drawing



Dimensioned drawing



**Dip solder
with shield connection
L-Coded**



Ordering data

Male	5-pole
Female	5-pole
Note	

Technical data

Mounting thread	M 16
Housing main material	PA
Connection thread	M12
Type of mounting	Frontpanel mounting
Rated current	16 A
Rated voltage	63 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold over nickel
Note	

M12 Front panel mounting

Mounting thread M16



Type	Qty.	Order No.
SAIE-M12SL-5S-F12TL-M16	1	2530880000
SAIE-M12BL-5S-F12TL-M16	1	2530890000

Mounting thread	M 16
Housing main material	PA
Connection thread	M12
Type of mounting	Frontpanel mounting
Rated current	16 A
Rated voltage	63 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold over nickel
Note	

M12 Back panel mounting

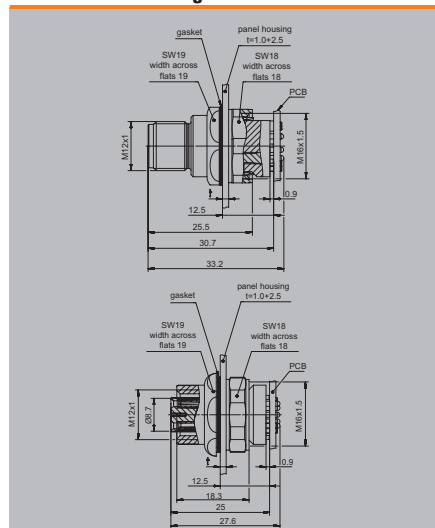
Mounting thread M16



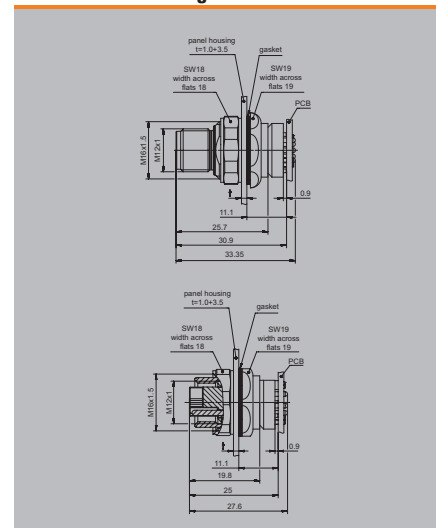
Type	Qty.	Order No.
SAIE-M12SL-5S-H11TL-M16	1	2530900000
SAIE-M12BL-5S-H11TL-M16	1	2530910000

Mounting thread	M 16
Housing main material	PA
Connection thread	M12
Type of mounting	Backpanel mouting
Rated current	16 A
Rated voltage	63 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold over nickel
Note	

Dimensioned drawing

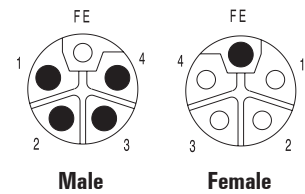


Dimensioned drawing



Device connector

Dome
Flange housing
L-Coded



Ordering data

Male	
5-pole	
Front mounting	
Back panel mounting	
Female	
5-pole	
Front mounting	
Back panel mounting	
Note	

Technical data

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

M12(M16)

Dome



Type	Qty.	Order No.
SAID-M12SL-5-SMT	60	2530810000
SAID-M12BL-5-SMT	60	2530820000
Note		

M 16
PA
M12
16 A
63 V
-40 ... +85 ° C
IP67, when fully mounted
Gold over nickel

M12(M16)

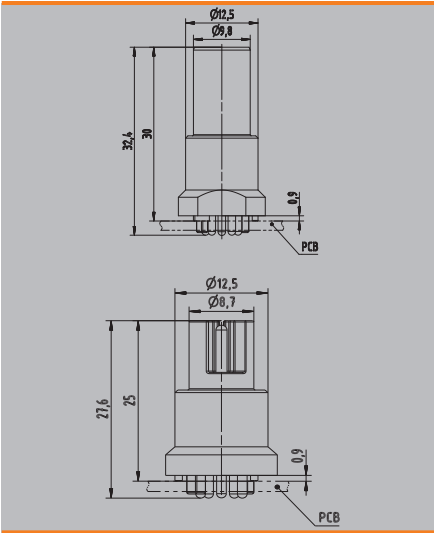
Flange housing



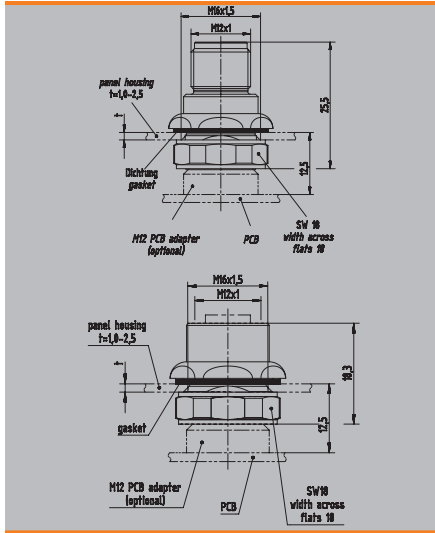
Type	Qty.	Order No.
SAIFG-M12SL-F12-M16	60	2530830000
SAIFG-M12SL-H11-M16	60	2530850000
SAIFG-M12BL-F12-M16	60	2530840000
SAIFG-M12BL-H11-M16	60	2530870000
Note		

M 16
Zinc diecast
M12
Frontpanel mounting
63 V
-40 ... +85 ° C
IP67, when screwed in
Gold over nickel

Dimensioned drawing



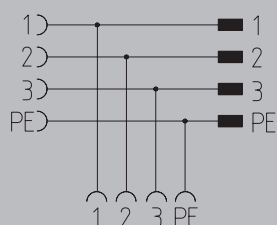
Dimensioned drawing



T, h and H distributors
S- and T-coded

M12

T-Distributor, S-coded

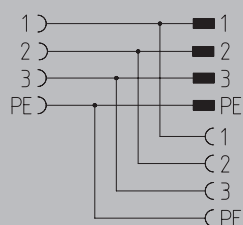


Ordering data

Type	Qty.	Order No.
SAI-T-M12-S	1	2616430000

M12

h-Distributor, S-coded

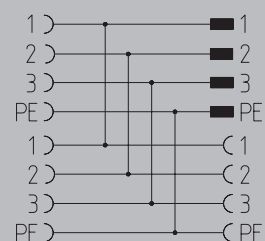


Ordering data

Type	Qty.	Order No.
SAI-H3-M12-S	1	2616410000

M12

H-Distributor, S-coded

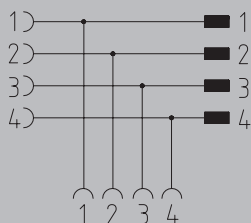


Ordering data

Type	Qty.	Order No.
SAI-H4-M12-S	1	2616350000

M12

T-Distributor, T-coded

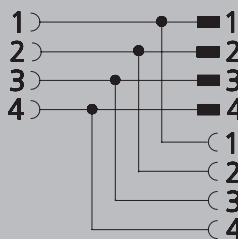


Ordering data

Type	Qty.	Order No.
SAI-T-M12-T	1	2616440000

M12

h-Distributor, T-coded

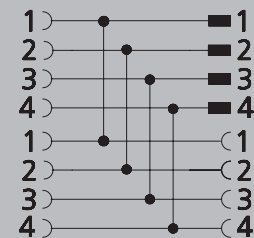


Ordering data

Type	Qty.	Order No.
SAI-H3-M12-T	1	2616420000

M12

H-Distributor, T-coded



Ordering data

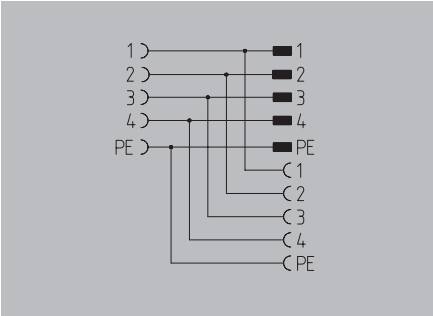
Type	Qty.	Order No.
SAI-H4-M12-T	1	2439350000

T, h and H distributors

T, h and H distributors
K- and L-coded

M12

T-Distributor, K-coded

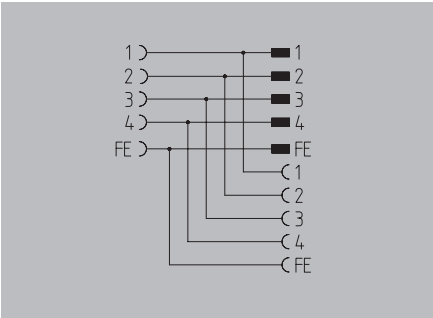


Ordering data

Type	Qty.	Order No.
SAI-T-M12-K	1	2616500000

M12

T-Distributor, L-coded

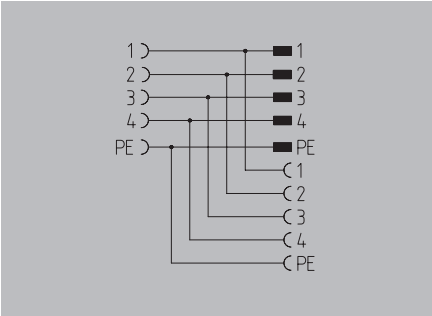


Ordering data

Type	Qty.	Order No.
SAI-T-M12-L	1	2616490000

M12

h-Distributor, K-coded

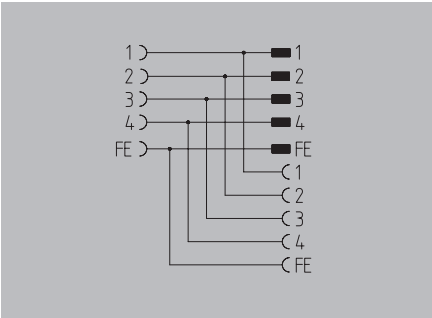


Ordering data

Type	Qty.	Order No.
SAI-H3-M12-K	1	2616480000

M12

h-Distributor, L-coded

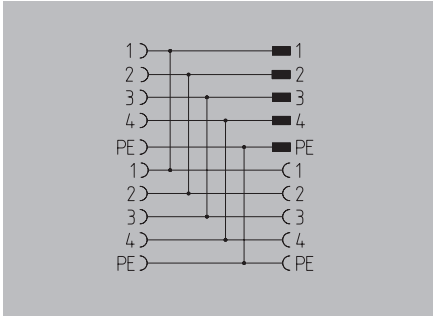


Ordering data

Type	Qty.	Order No.
SAI-H3-M12-L	1	2616470000

M12

H-Distributor, K-coded

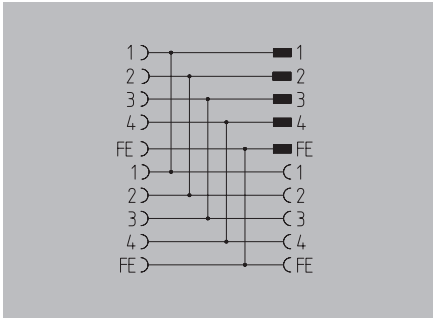


Ordering data

Type	Qty.	Order No.
SAI-H4-M12-K	1	2616460000

M12

H-Distributor, L-coded



Ordering data

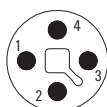
Type	Qty.	Order No.
SAI-H4-M12-L	1	2616450000

Hood version
T-coded

SAI-M-4-SVV-M12



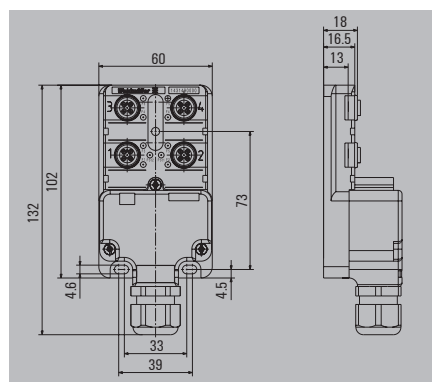
T-coding



Pin



Socket connector



Ordering data

	4 plug-in stations
Note	

SAI-M-4-SVV-M12

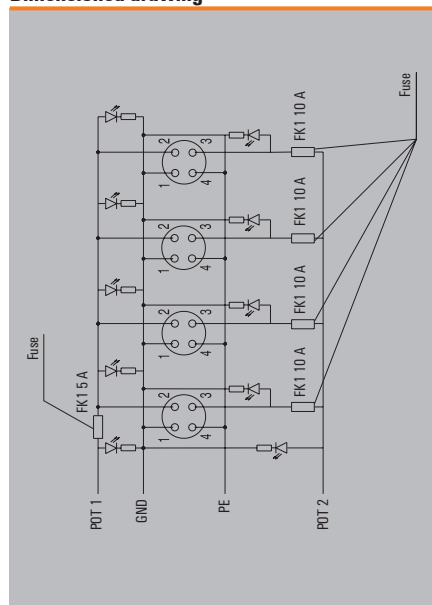
4-pole

Type	Qty.	Order No.
SAI-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

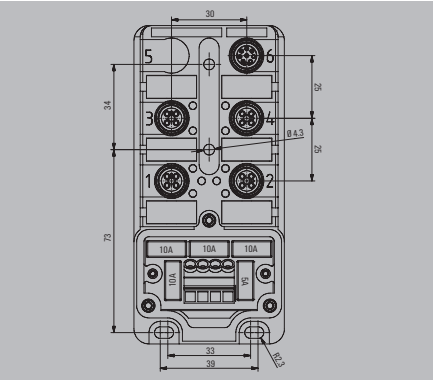
Dimensioned drawing



M12 distributor

Hood version with checkback signal

SAI-4-SVV-GM-RM



Ordering data

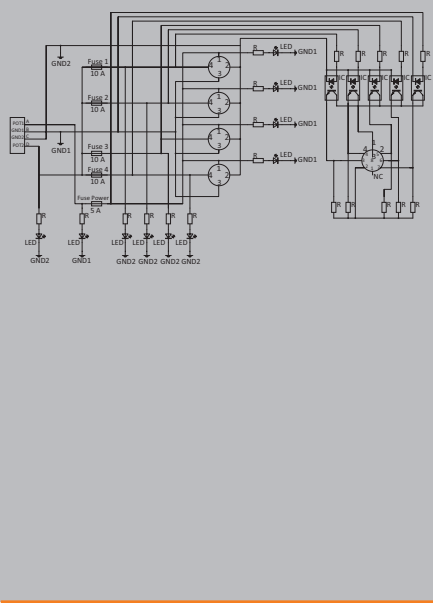
	4 plug-in stations
Note	

Type	Qty.	Order No.
SAI-4-M-4P-M12-SV-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

Dimensioned drawing

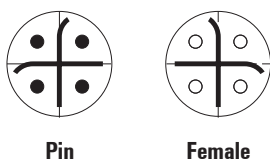


Hood version S-coded

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

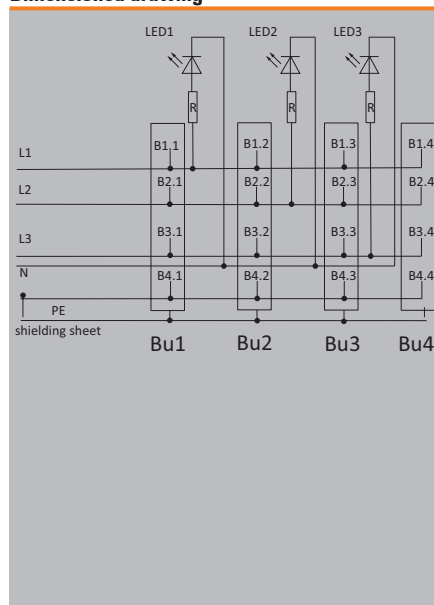
4-pole

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

Dimensioned drawing



M12 power distributor

Hood version
S-coded

SAI-4-M-MVV-M12 1:1



S-coding



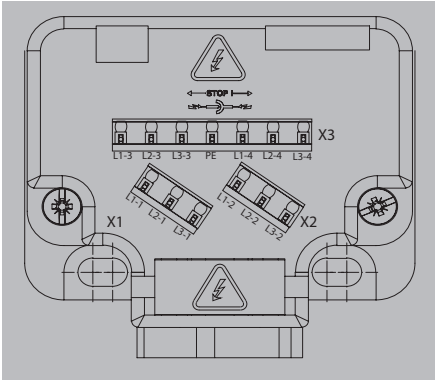
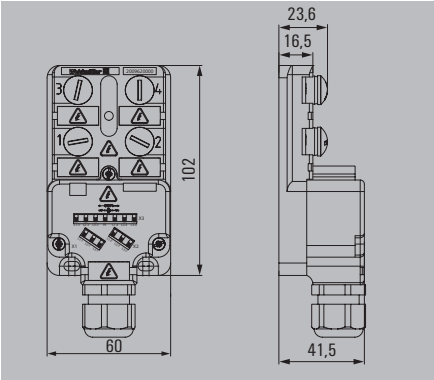
Pin



Female

Ordering data

Complete modules
4 plug-in stations
Note

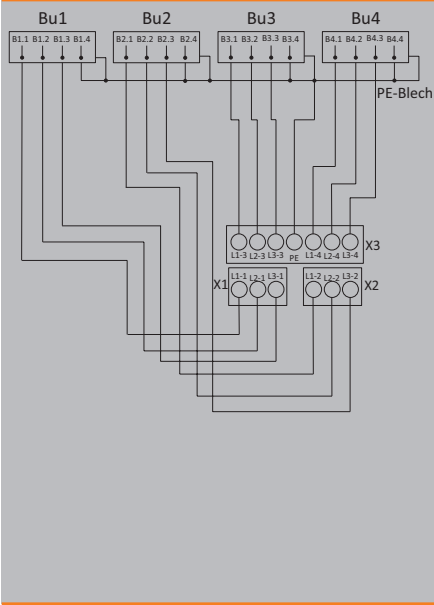


SAI-4-M-MVV-M12 1:1		4-pole
Type	Qty.	Order No.
SAI-4-M-MVV-M12 1:1	1	2009620000

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 mm ²
Suitable for dragline cable (fixed cable connection)	
Approvals	CE

Dimensioned drawing

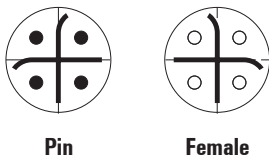


Hood version
S-coded

SAI-6-M-MVV-M12 S-COD



S-coding



Ordering data

Complete modules	
	6 plug-in stations
Note	

SAI-6-M-MVV-M12 S-COD

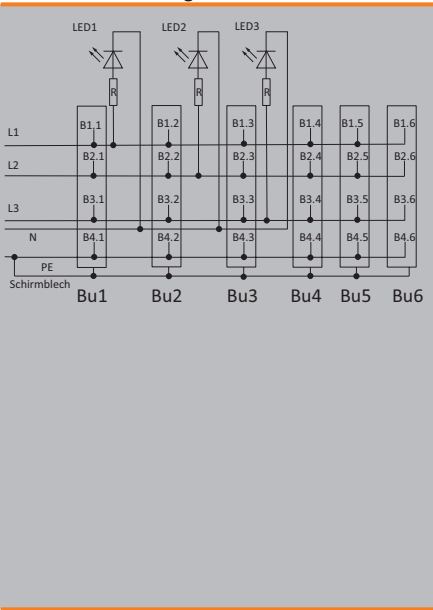
4-pole

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

Dimensioned drawing



Passive distributors

Passive distributors	Introduction	E.2
	M12 distributors	E.4
	ECO modules	E.16
	With M23 outlet	E.18
	M12 IDC	E.20
	M12 VA stainless steel	E.24
	M12 metal distributors	E.26
	M12 distributors 1:1 Passive	E.32
	M12 8 poles	E.33
	M12 distributor for NPN and PNP sensors	E.34
	M12 wall bushing	E.35
	Solutions to customer specification	E.38
	M12 distributors accessories	E.39
	M8 distributors	E.40
	M12 Ex i distributors	E.48

Passive M12 distributor

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 distributors.

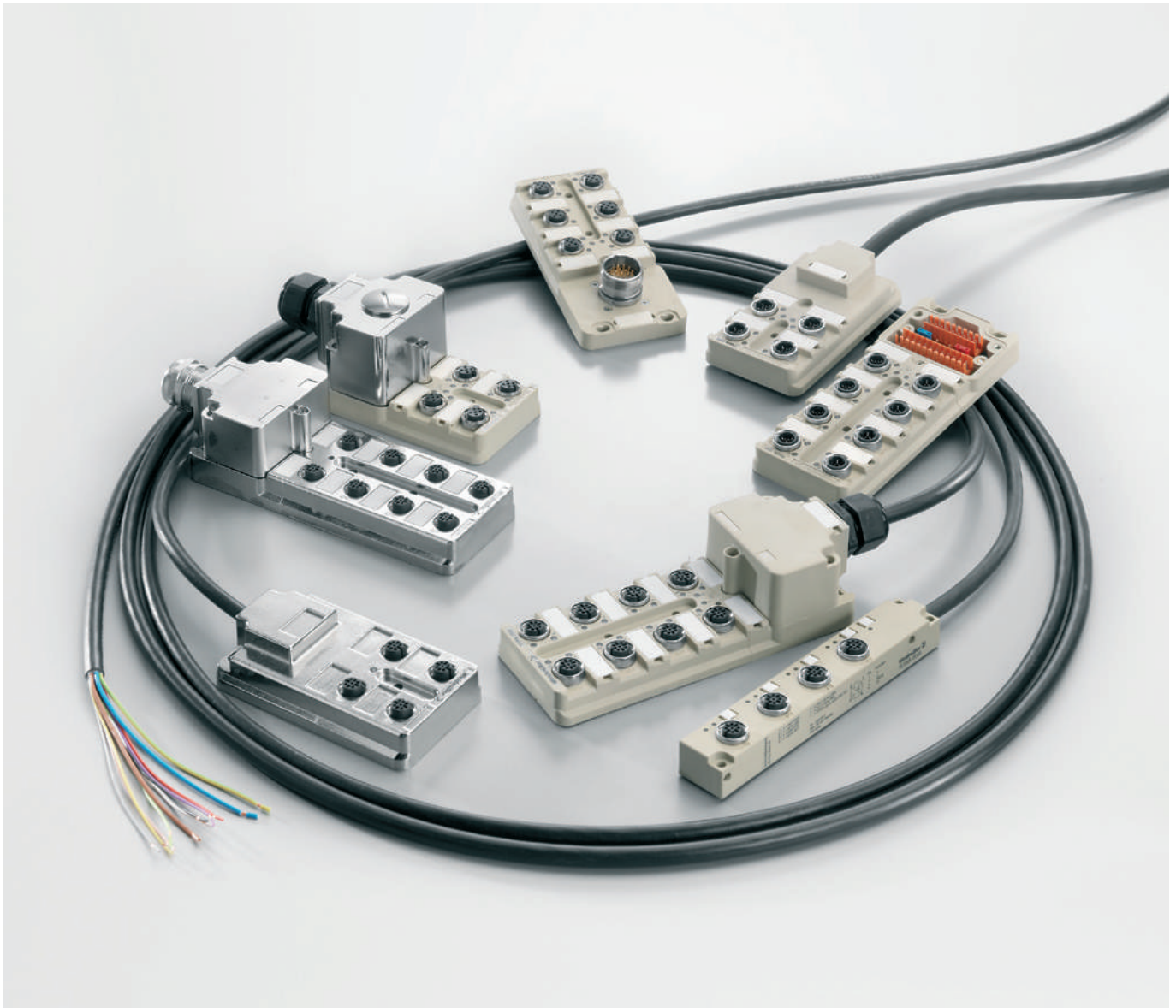
We offer M12 distributors for your application, tailored to your requirements! Special wiring or fitting options are available upon request!

Range of connection options:

- Cover versions
- Fixed cable versions
- M12 / M16 / M23 group output

Housing variants

- Line (single row) and standard distributors (double row)
- 4, 6, 8x distribution
- 4, 5 and 8-pole I/O sockets
- Plastic and metal housing





Compact

The connection block is a single piece



Small

Extremely small M12 distributor



Fast

Insulation displacement connection can be used to directly connect the sensor cables



Robust

Threaded metal ring without cut outs for reliable, safe handling



M12 distributor standard



**M12 distributor with
DIP switch coding**

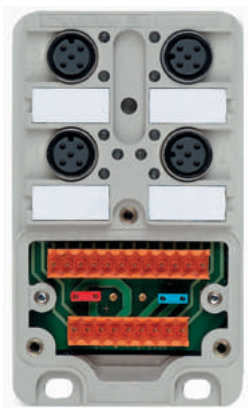


**M12 distributor with
stainless steel housing**



**M12 distributor
for Zone 1**

SAI distributor 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 tension clamp
- Very flat connection hood: no higher than smallest 90° M12 round plug
- Distributor and connection hood can be supplied separately
- Connection hood compatible with 4 and 8 channel SAI distributors (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 distributor
- SAI distributor available in pollution severity class 3
- Cable exit on top
- Weidmüller SAI distributors 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 Distributors



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 distributors 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

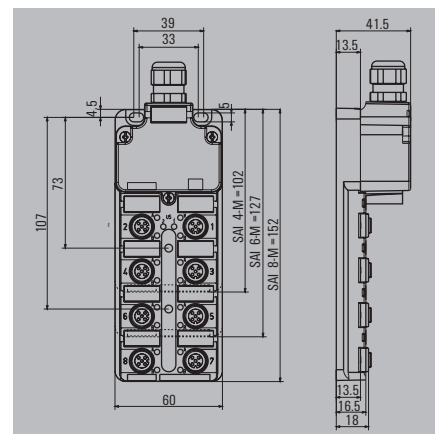
	M12 group outlet		5 m	10 m		
4-way, 4-pole	1267330000		1070650000	1070660000		
4-way, 5-pole			1070630000	1070640000		
6-way, 4-pole	1265940000		1265920000	1265930000		

M8 Line

	M12 group outlet	Solder version for PCB	5 m	10 m		
4-way, 3-pole	1828740000		1828720000	1828710000		
4-way, 4-pole			1849680000	1849690000		
6-way, 3-pole	1828730000	1057720000	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, Tension clamp conn.	4 plug-in stations	
with LEDs, Tension clamp conn.	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	
	Tension clamp connection	
	Tension-clamp 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 BLZF3.5	1	1752080000	
SAI-4/6/8-MH BLZF3.5 SV	50	1752080050	
Other versions on request			

SAI-4/6/8-M

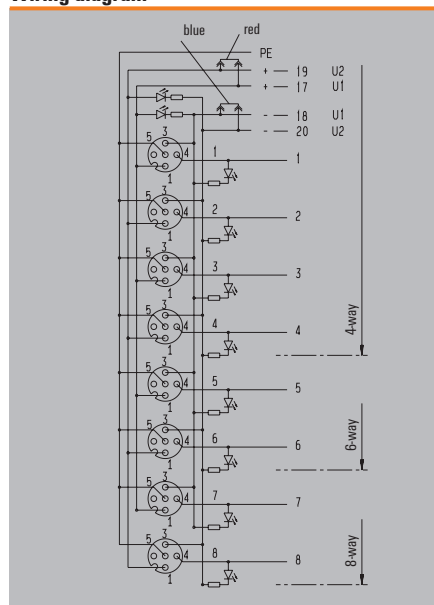
		5-pole	
Type	Qty.	Order No.	
SAI-4-M 5P M12	1	1701230000	
SAI-6-M 5P M12	1	1701240000	
SAI-8-M 5P M12	1	1701250000	
SAI-4-M 5P M12 ZF	1	1854000000	
SAI-8-M 5P M12 ZF III	1	1767880000	
SAI-4-M 5P M12 UT	2	1701231000	
SAI-6-M 5P M12 UT	2	1701241000	
SAI-8-M 5P M12 UT	2	1701251000	
SAI-4/6/8-MH BL3.5	1	1724750000	
SAI-4/6/8-MH BL3.5 SV	50	1724750050	
SAI-4/6/8-MH BLZF3.5	1	1752080000	
SAI-4/6/8-MH BLZF3.5 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

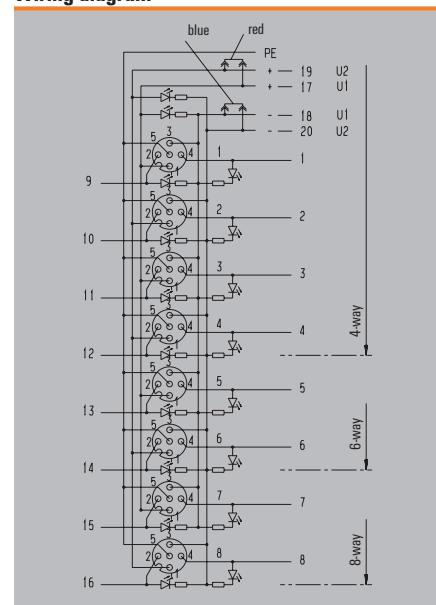
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	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 (fixed cable connection)	No

With dual power supply: 2x8 = 16A total current

Wiring diagram



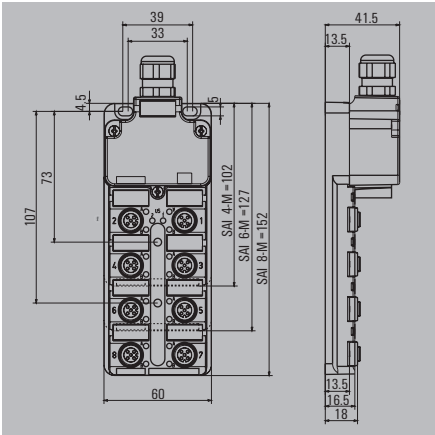
Wiring diagram



M12 distributors

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		

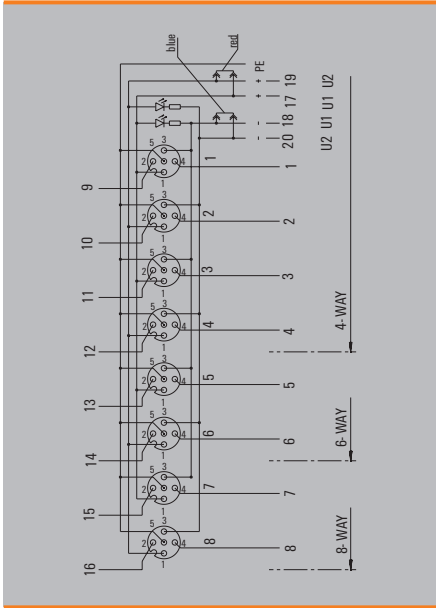
Type	Qty.	Order No.

Technical data

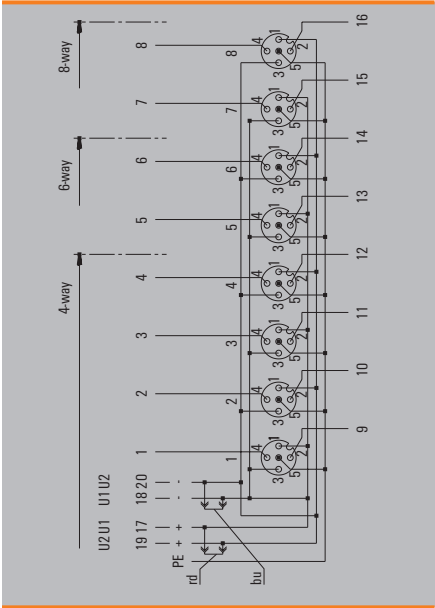
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	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

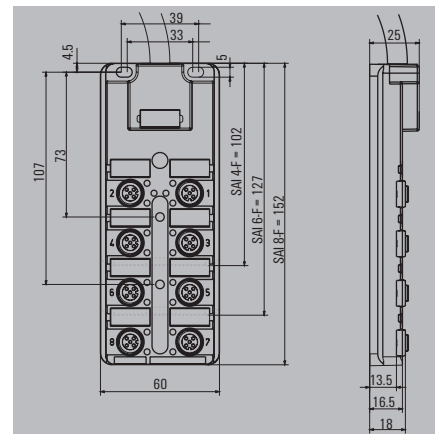
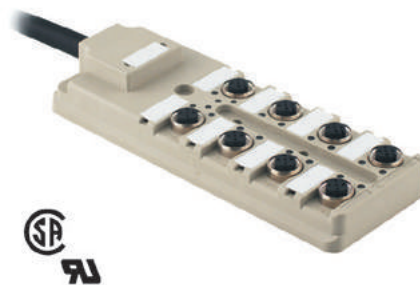


Wiring diagram



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

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
4-pole		
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
5-pole		
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

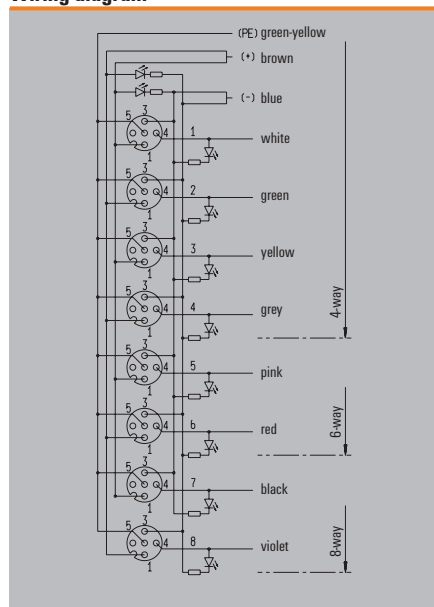
Type	Qty.	Order No.
SAI-4-F 5P PUR 3M	1	9456320000
SAI-4-F 5P PUR 5M	1	9456330000
SAI-4-F 5P PUR 10M	1	9456340000
SAI-4-F 5P PUR 15M	1	9456350000
SAI-4-F 5P PUR 20M	1	9456370000
5-pole		
SAI-6-F 5P PUR 3M	1	9456600000
SAI-6-F 5P PUR 5M	1	9456610000
SAI-6-F 5P PUR 10M	1	9456620000
SAI-6-F 5P PUR 15M	1	9456630000
SAI-6-F 5P PUR 20M	1	9456650000
5-pole		
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
Other versions on request		

Technical data

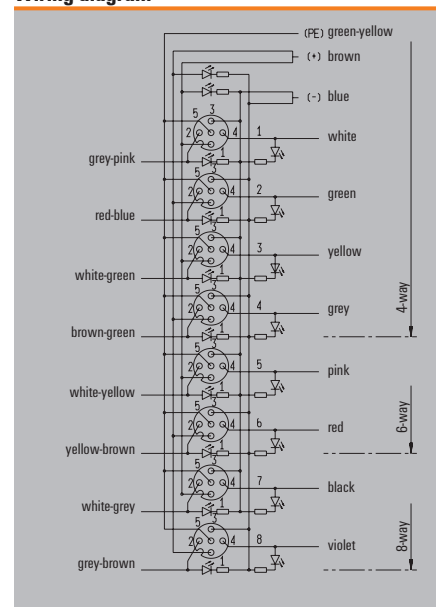
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
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



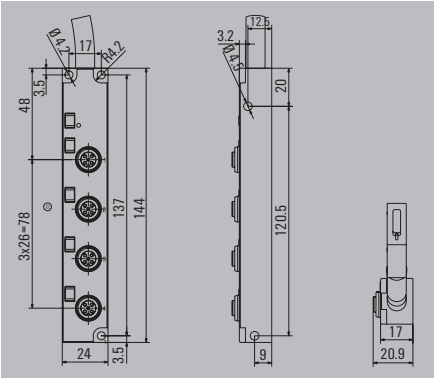
M12 distributors

Fixed cable version

Thin design

- PNP switching
- With LEDs

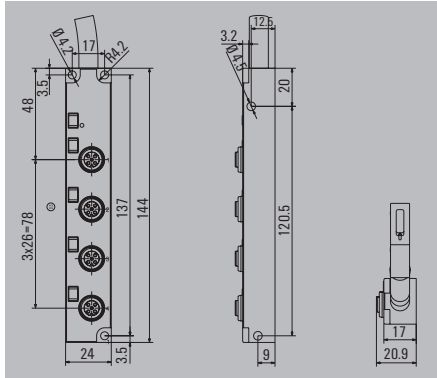
SAI-4-F M12 L



SAI-4-F M12 L

Type	Qty.	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



SAI-4-F M12 L

Type	Qty.	Order No.
SAI-4-F 5P M12 L 5M	1	1070630000
SAI-4-F 5P M12 L 10M	1	1070640000
Other versions on request		

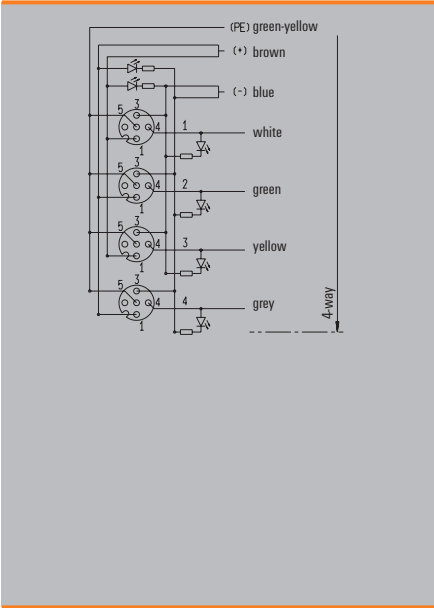
Ordering data

4-channel	
	5 m cable length
	10 m cable length
Note	

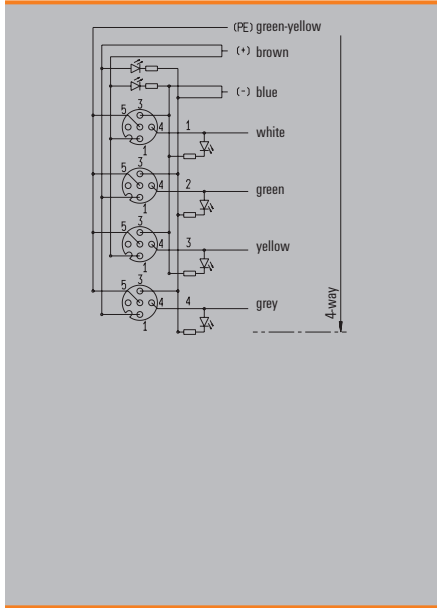
Technical data

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
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

Dimensioned drawing



Dimensioned drawing

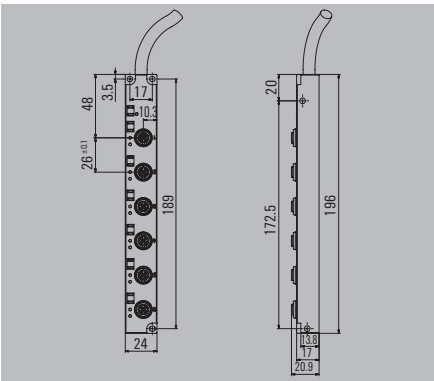


Fixed cable version

Thin design

- PNP switching
- With LEDs

SAI-6-F M12 L



Ordering data

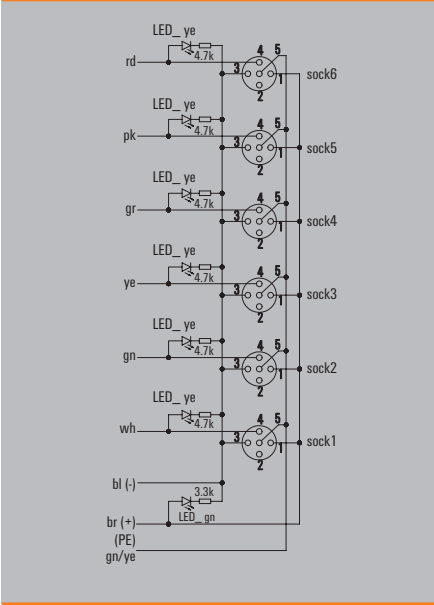
6-channel	
	5 m cable length
	10 m cable length
Note	

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	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)	Yes

Dimensioned drawing

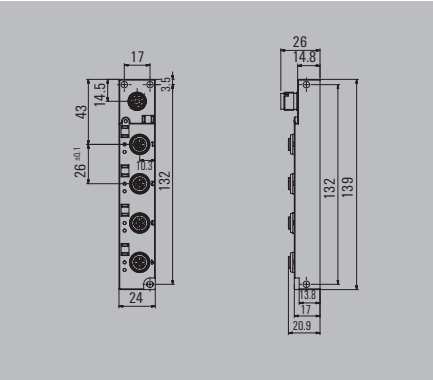


M12 distributors

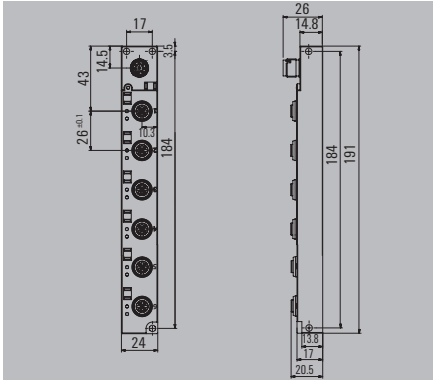
Line

- 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

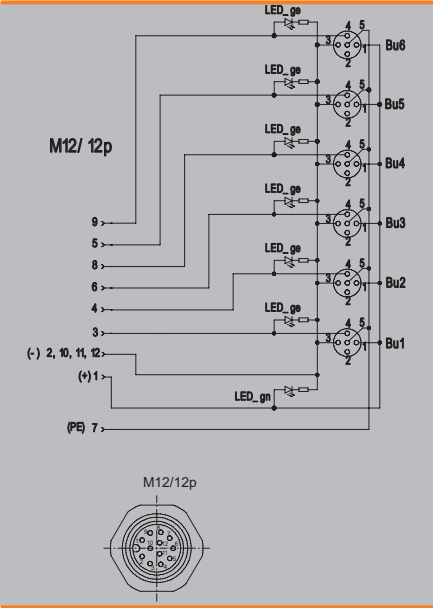
SAI-6-S

Type	Qty.	Order No.
SAI-6-S12 4P M12 L	1	1265940000

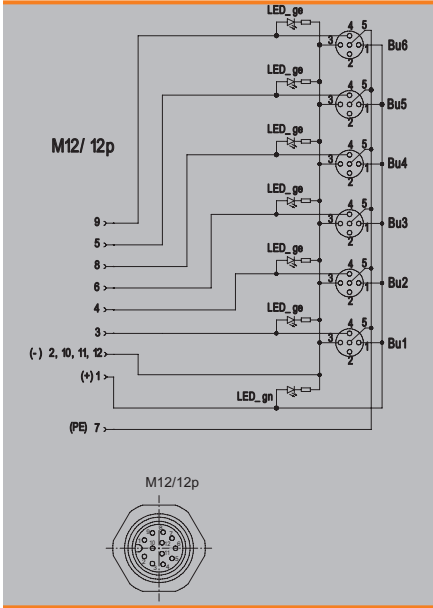
Technical data

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	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)	No

Dimensioned drawing



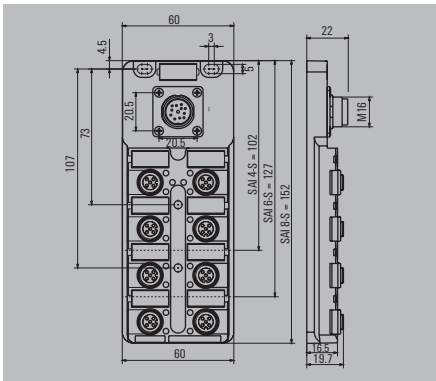
Dimensioned drawing



with M16 outlet

- PNP switching
- With LEDs

SAI-8-M16



Ordering data

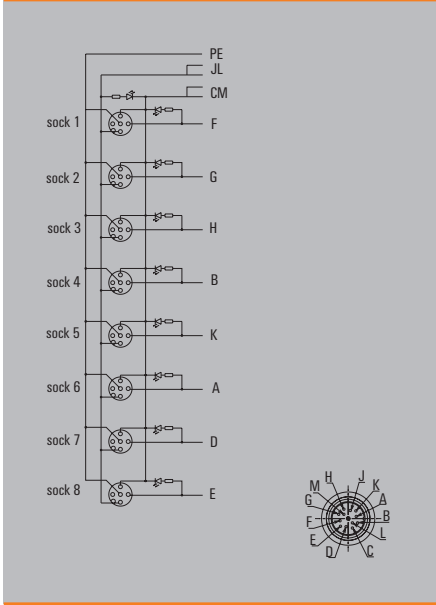
8-channel	M16 outlet, 12-pole
Note	

Type	Qty.	Order No.
SAI-8-M16 4P M12	1	1831020000
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	6 A
Pollution severity	3
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	...
Suitable for dragline cable (fixed cable connection)	No

Dimensioned drawing

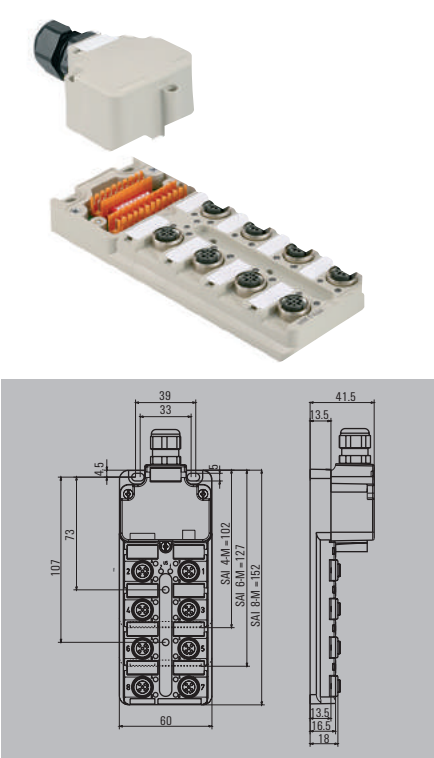


M12 distributors

Hood version with DIP-switch coding

- PNP switching
- With LEDs
- Hoods with plastic screw connection

SAI-8-M M12 DIP



Ordering data

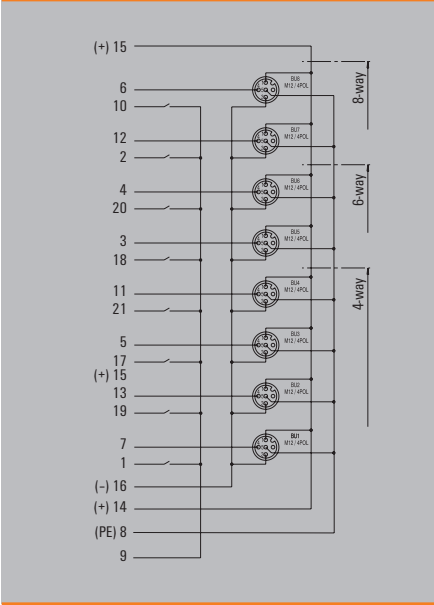
Complete modules	
	8 plug-in stations
Note	

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

Dimensioned drawing



Passive M12 distributor - ECO

Passive distributors 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 distributors 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.

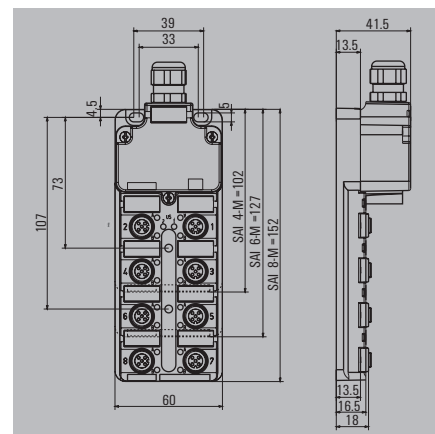
Properties of the ECO series:

- 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 distributors
- 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
Screw connection	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
	Tension-clamp connection
Complete module NPN switching	
Screw connection	4 plug-in stations
Screw connection	8 plug-in stations
Note	

SAI-4/6/8-M

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 BLZF3.5 SV	50	1752080050
SAI-4-M 5P M12 NPN ECO	1	1892100005
SAI-8-M 5P M12 NPN ECO	1	1892080005

These distributors are supplied without protective caps and markers.
Other versions on request

These distributors are supplied without protective caps and markers.
Other versions on request

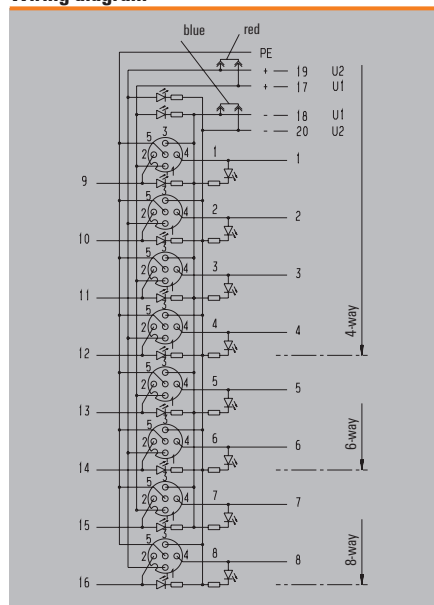
[illegible]

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: $2 \times 8 = 16A$ total current

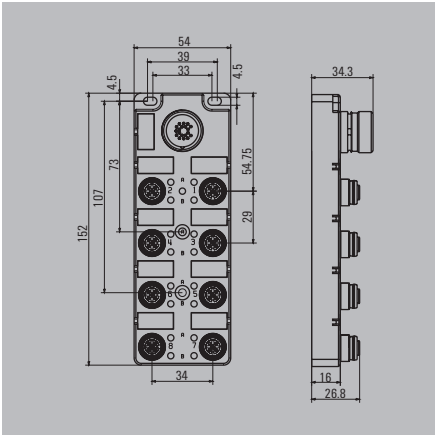
Wiring diagram



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

Type	Qty.	Order No.
SAI-4-S 4P FC	1	1847960000
SAI-8-S 4P FC	1	1847920000
Other versions on request		

4-pole

SAI-4/8-S

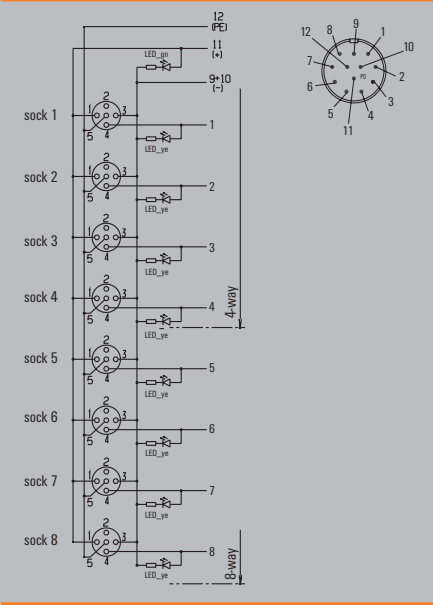
Type	Qty.	Order No.
SAI-4-S 5P FC	1	1847970000
SAI-8-S 5P FC	1	1848040000
Other versions on request		

5-pole

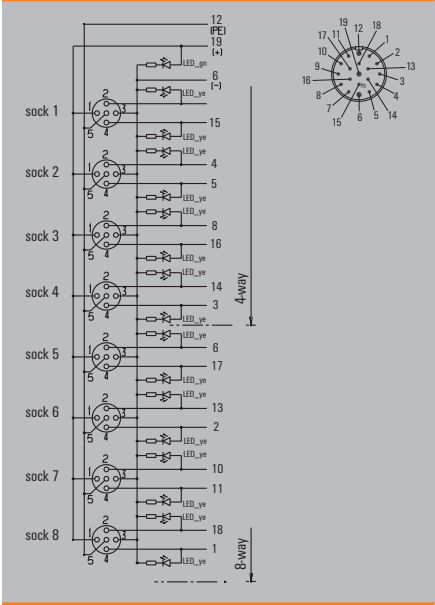
Technical data

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	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

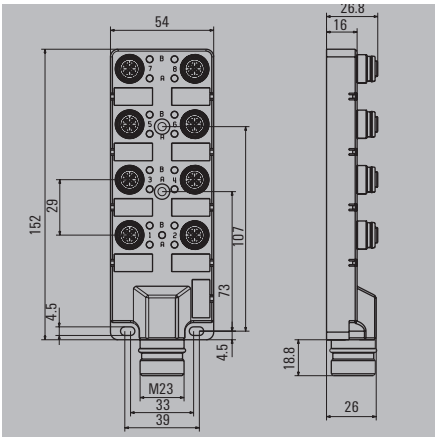


Wiring diagram



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
Note		

SAI-4/8-SH

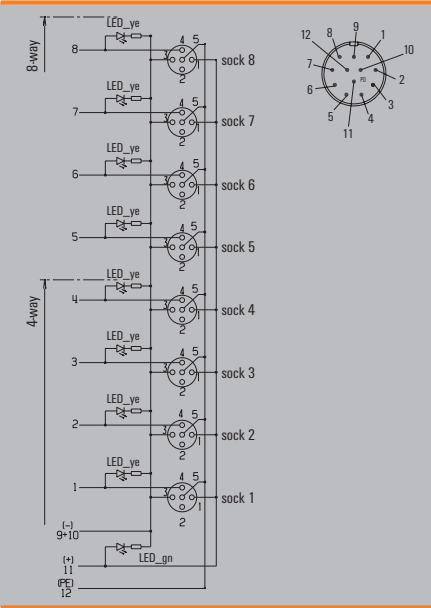
5-pole

Type	Qty.	Order No.
SAI-8-SH 5P FC	1	1859140000
Note		

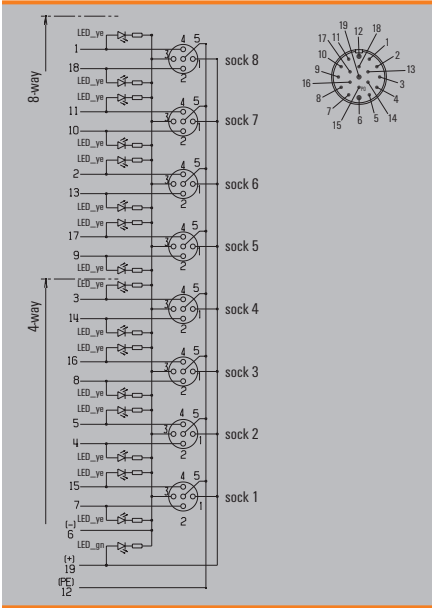
Technical data

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
Note	

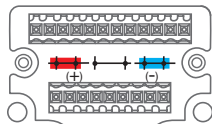
Wiring diagram



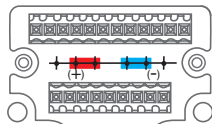
Wiring diagram



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 distributor correspond to and are compatible with the standard SAI distributor
- 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 distributors are currently the smallest but also the most robust connection elements on the market. Thanks to their extremely small dimensions, corresponding distributors 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



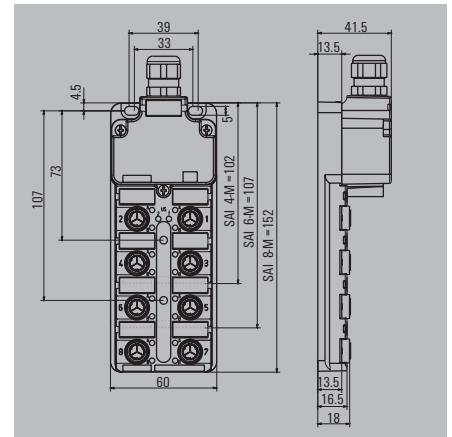
Ordering data

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
	Tension clamp connection
	Tension-clamp 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 BLZF3.5	1	1752080000
SAI-4/6/8-MH BLZF3.5 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 BLZF3.5	1	1752080000
SAI-4/6/8-MH BLZF3.5 SV	50	1752080050
Other versions on request		

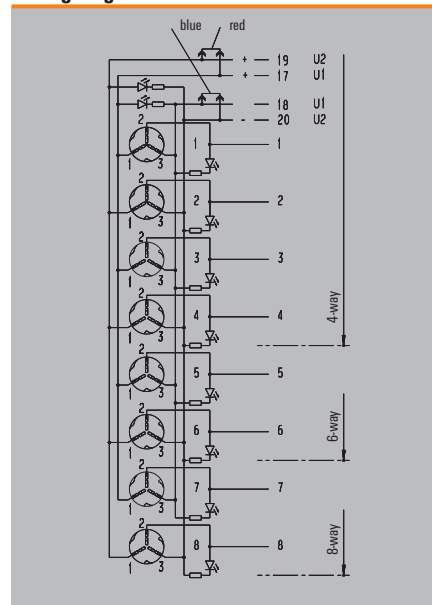
4-pole

Technical data

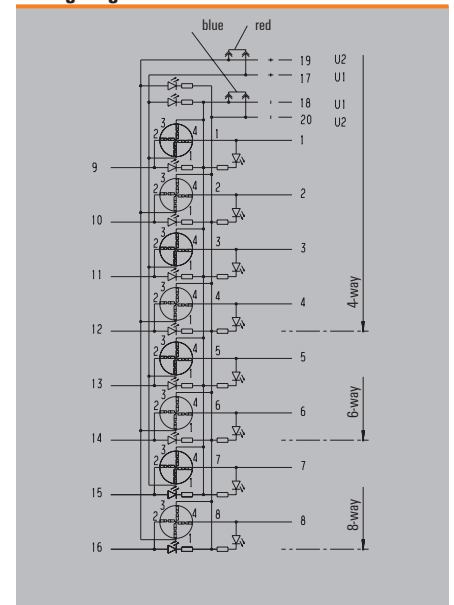
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	2
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	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

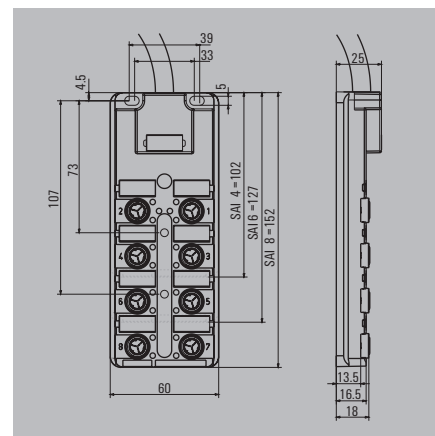


Wiring diagram



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

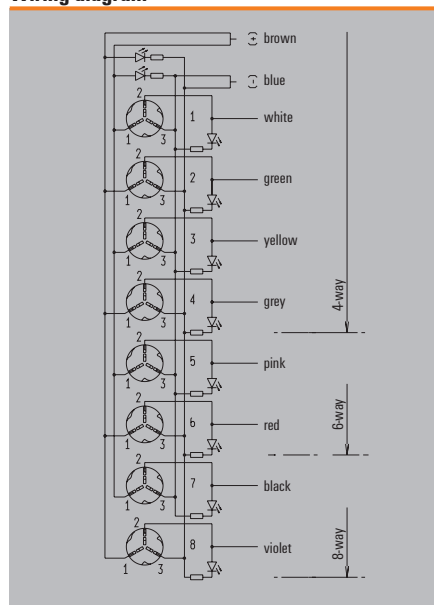
Type	Qty.	Order No.
SAI-4-F 4P IDC PUR 5M	1	1766660000
SAI-4-F 4P IDC PUR 10M	1	1766670000
SAI-6-F 4P IDC PUR 5M	1	1766680000
SAI-6-F 4P IDC PUR 10M	1	1766690000
SAI-8-F 4P IDC PUR 5M	1	1766700000
SAI-8-F 4P IDC PUR 10M	1	1766710000
Other versions on request		

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

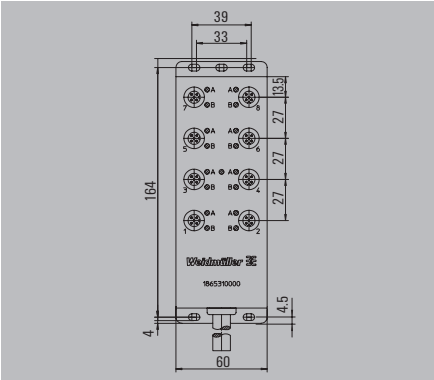


M12 VA stainless steel

Fixed-cable version,
Specially suitable for use in
food-processing machinery

- PNP switching
- With LEDs

SAI-8-F 5P M12 5M VA



Ordering data

8-channel	5 m cable length
Note	

SAI-8-F 5P M12 5M VA

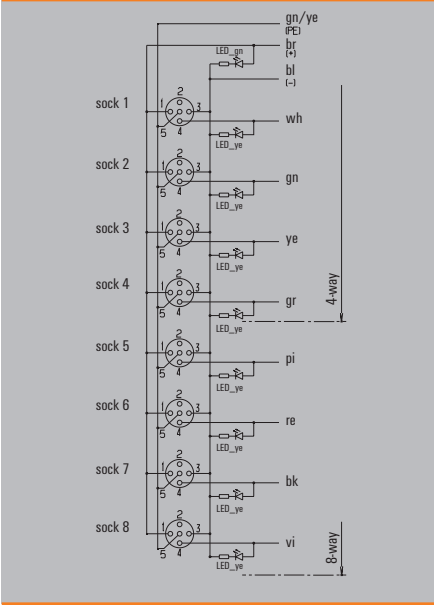
5-pole

Type	Qty.	Order No.
SAI-8-F 5P M12 5M VA	1	1865310000

Technical data

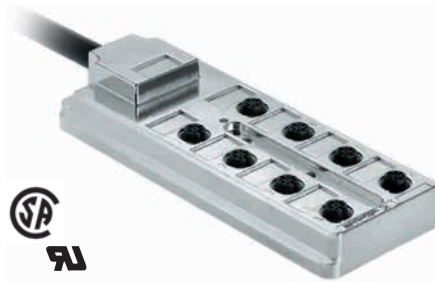
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	12 A
Pollution severity	3
Protection degree	IP69K
Ambient temperature range	-25...70 °C
Housing main material	Stainless steel, rust-proof
Contact carrier material	
Base material of contacts	CuZn
Screw socket	Stainless steel, rust-proof
Housing colour	silver
Fire behaviour	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes
Accessory (incl.): 4 protective caps for unused slots	

Dimensioned drawing



Sensor-actuator distributors for special applications

All-metal SAI-4/8-FMM M12



Shielded cable, e.g. for analogue initiators

Some applications need full shielding from sensor to control. This is possible with the all metal SAI distributors. The distributors 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).

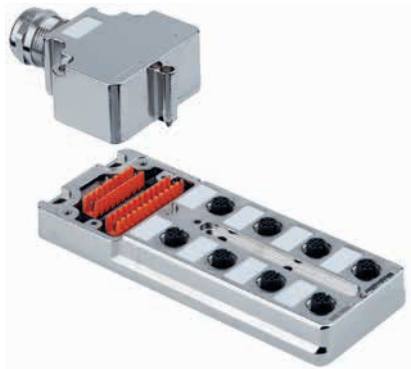
All-metal fixed cable distributors

Weidmüller metal distributors have proved their worth in many situations. They are available as 4 and 8 channel M12 versions with cable lengths of 5 or 10 m. Metal distributors are also necessary when ESD requirements must be complied with. The conductive metal surface provides low surface resistance.

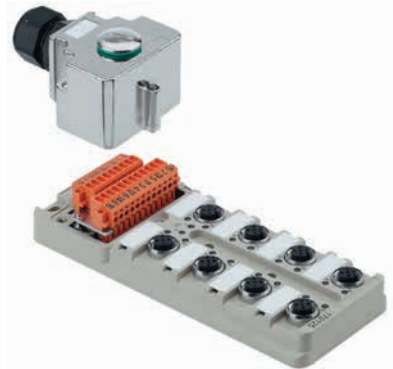
Advantages:

- 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 distributor 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 distributor 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 distributor 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 distributors

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
SAI-4-FMM-4P M12 5M	Zn-G	4	4					5 m	9456190002
SAI-4-FMM-4P M12 10M	Zn-G	4	4					10 m	9456200002
SAI-8-FMM-4P M12 5M	Zn-G	8	4					5 m	9456750002
SAI-8-FMM-4P M12 10M	Zn-G	8	4					10 m	9456760002

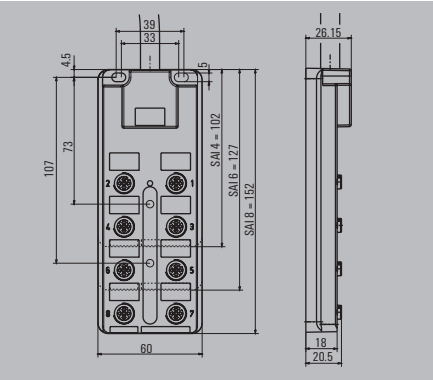
Note: The cable outside diameter can vary from manufacturer to manufacturer. It is therefore possible that the cable glands hold other cables firmly despite a different strand lay-up. In each case, it is best to first measure the cable diameter and then choose an appropriate distributor.

M12 metal distributors

Fixed cable version

- PNP switching
- With LEDs

SAI-4-FMM



Ordering data

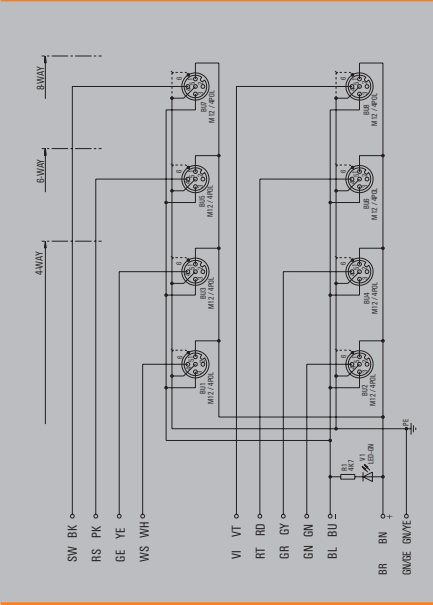
4-channel	5 m cable length
	10 m cable length
8-channel	5 m cable length
	10 m cable length
Note	

SAI-4-FMM		4-pole
Type	Qty.	Order No.
SAI-4-FMM-4P M12 5M	4	9456190002
SAI-4-FMM-4P M12 10M	3	9456200002
SAI-8-FMM-4P M12 5M	1	9456750002
SAI-8-FMM-4P M12 10M	3	9456760002
Additional variants on request Bus cable is not shielded		

Technical data

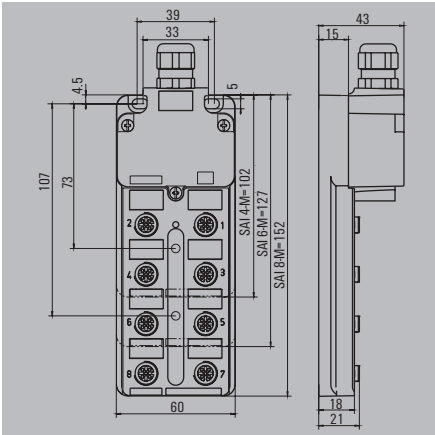
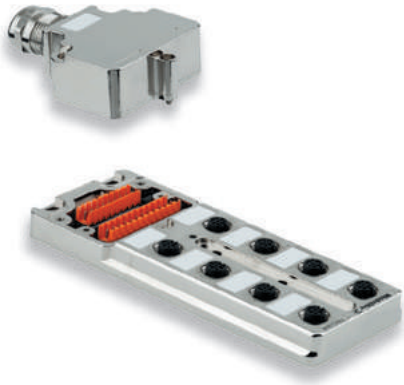
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Zinc diecast
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	silver
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Dimensioned drawing



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	
Tension-clamp connection, high cover	8 plug-in stations	
Base unit		
	8 plug-in stations	
Mounting hood		
	Screw connection	
	Screw connection with EMC gland	
Note		

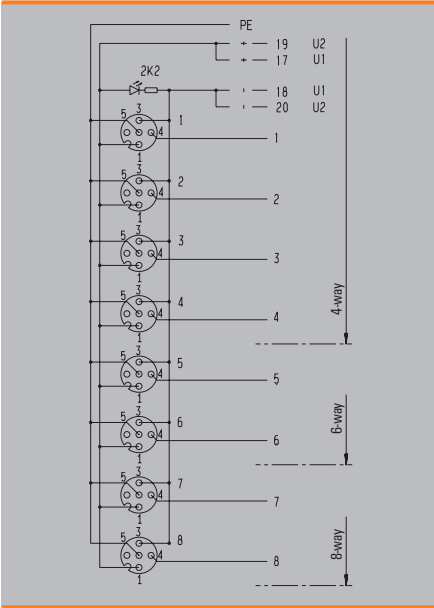
SAI-4/6/8-MMS		M12	
Type	Qty.	Order No.	
SAI-4-MMS 4P M12	1	1783540000	
SAI-8-MMS 4P M12	1	1783530000	
SAI-4-MMS 5P M12	1	1783520000	
SAI-8-MMS 5P M12	1	1783510000	
SAI-8-MM 5P M12 UT	2	1783491000	
Complete modules with EMC cable gland			

SAI-4/6/8-MM		M12	
Type	Qty.	Order No.	
SAI-4-MM 5P M12	1	1783500000	
SAI-8-MM 5P M12	1	1783490000	
SAI-8-MMH 5P M12 ZF	1	1782740000	
SAI-8-MM 5P M12 UT	2	1783491000	
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			

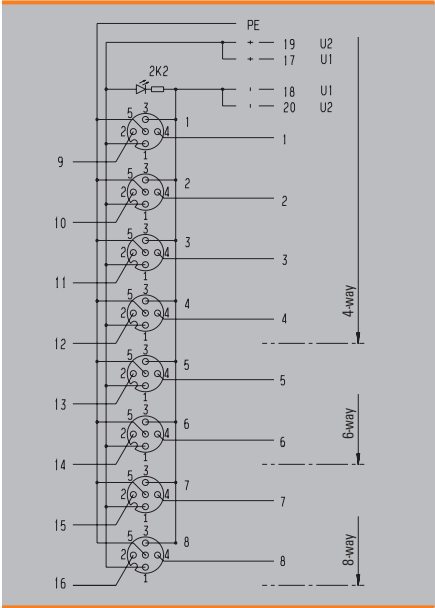
Technical data

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



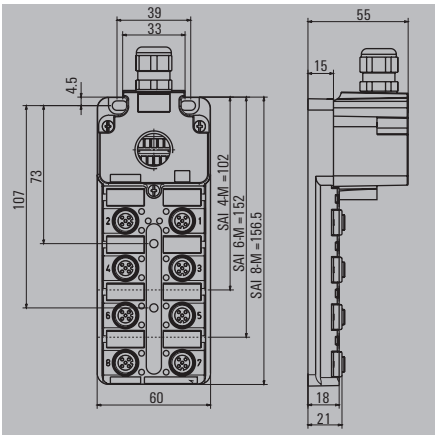
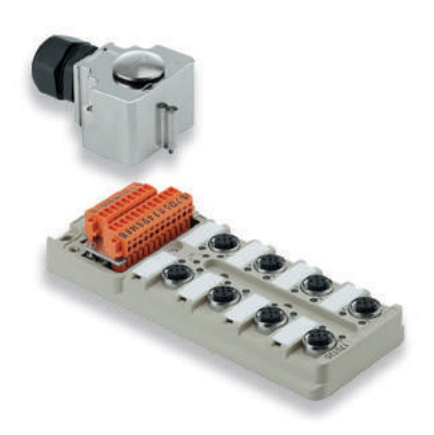
Wiring diagram



M12 metal distributors

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	
Tension-clamp connection	8 plug-in stations	
Mounting hood		
	Screw connection	
	Tension clamp connection	
Note		

SAI-4/6/8-MH

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 BLZF3,5	1	1782750000
Other versions on request		

4-pole

SAI-4/6/8-MH

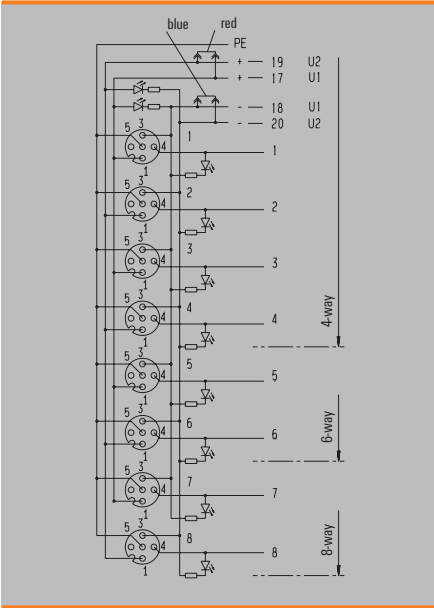
Type	Qty.	Order No.
SAI-4-MH-5P M12	1	1701232000
SAI-6-MH-5P M12	1	1701242000
SAI-8-MH-5P M12	1	1701252000
SAI-8-MH-5P M12 ZF III	1	1782760000
SAI-4/6/8 MH-MH BL 3.5	1	1724752000
SAI-4/6/8 MH MH BLZF3,5	1	1782750000
Other versions on request		

5-pole

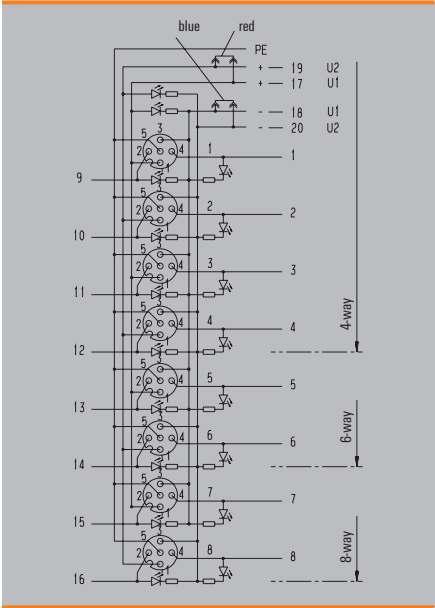
Technical data

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	3
Protection degree	
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

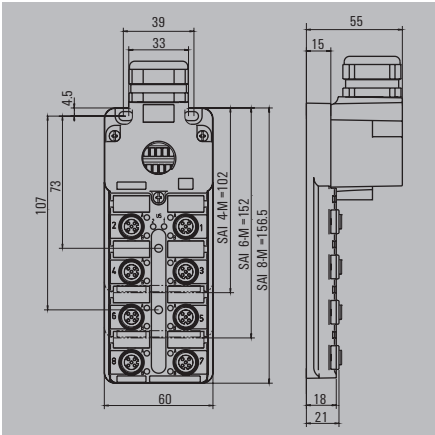


Wiring diagram



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		

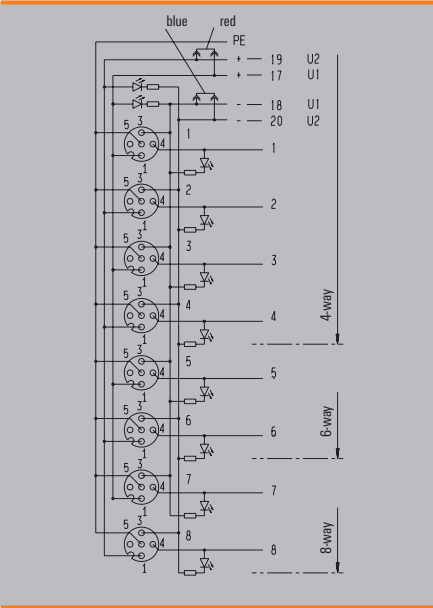
SAI-4/6/8-MHD		5-pole
Type	Qty.	Order No.
SAI-8-MHD-5P M12	1	1701253000
SAI-4/6/8 MH-MHD BL 3.5	1	1724753000
Other versions on request		

Technical data

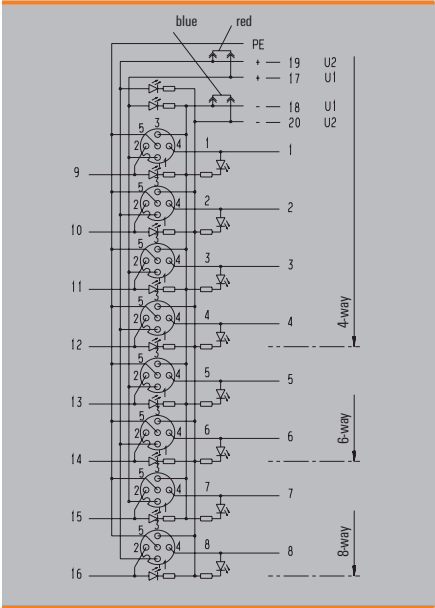
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	
Ambient temperature range	-20...90 °C
Housing main material	Pocan (base module), Zinc diecast (hood)
Contact carrier material	PBT (UL 94 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

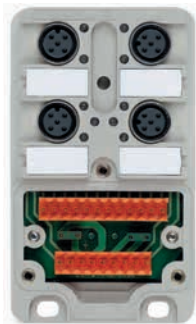
Sometimes a machine builder will need more than two floating contacts in one M12 plug-in connector. This is the case, for example, in the wiring for some “emergency stop” circuits. It was for this application that Weidmüller developed the 1:1 SAI distributor.

This SAI distributor has four M12 plug-in connectors with five floating contacts in one socket connector. The distributor 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 distributor should not be used as the base module for active bus distributors.

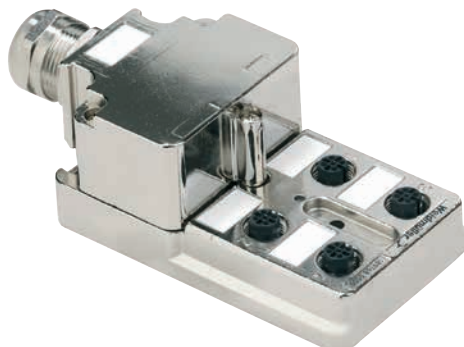
base element



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



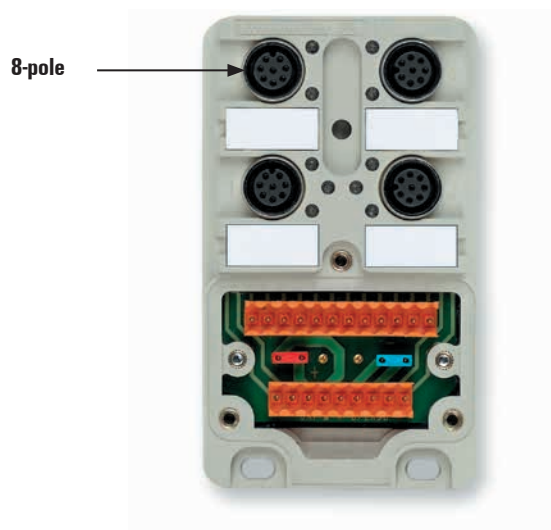
Technical data

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

SAI distributor with 8 poles per M12



Applications

This distributor 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 distributor 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

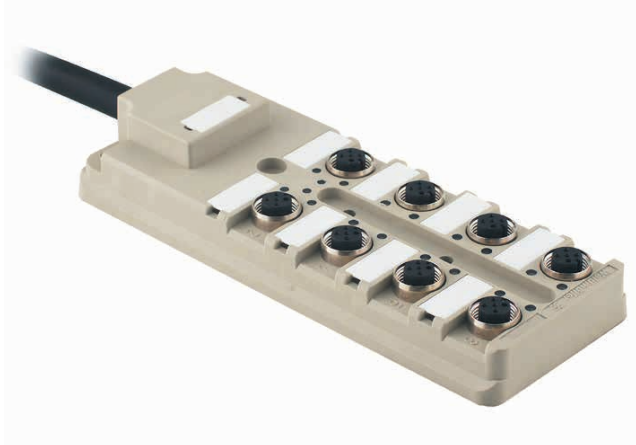
Ordering data

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 distributor does not include any signalling LEDs. Supply LEDs and electrical isolation are provided

Fixed cable version

Fixed cable version



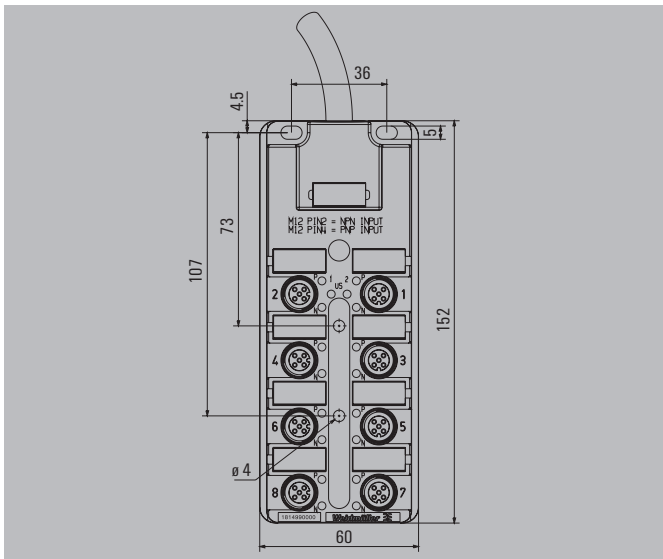
This distributor includes the option of attaching either a PNP sensor or an NPN sensor with 2 or 3 conductor connection to an M12 socket.

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 distributor has eight channels and 5 m of cable. Other versions are also available.

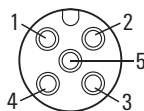


Pin assignment

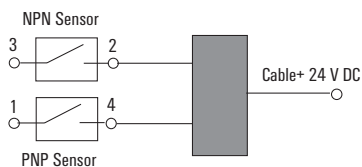
M12 socket	Pin	Function	Pin	Function	Output	Wire colour	Wire size
1	4	PNP	2	NPN	1	white	0.34 mm ²
2	4	PNP	2	NPN	2	green	0.34 mm ²
3	4	PNP	2	NPN	3	yellow	0.34 mm ²
4	4	PNP	2	NPN	4	grey	0.34 mm ²
5	4	PNP	2	NPN	5	pink	0.34 mm ²
6	4	PNP	2	NPN	6	red	0.34 mm ²
7	4	PNP	2	NPN	7	black	0.34 mm ²
8	4	PNP	2	NPN	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

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)



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

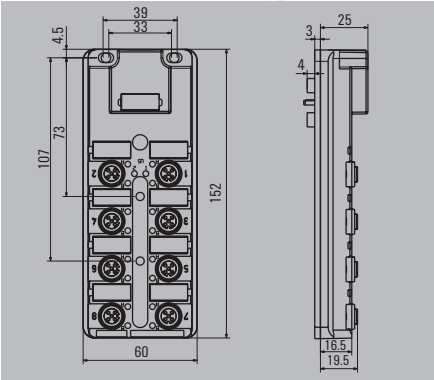
Ordering data

Type	Qty.	Order No.
SAL8-F 5P NPN-PNP 5M	1	1814990000

Wall bushing

- PNP switching
- With LEDs

SAI-8-B 5P M12 SL



Ordering data

8-channel
Note

SAI-8-B 5P M12 SL

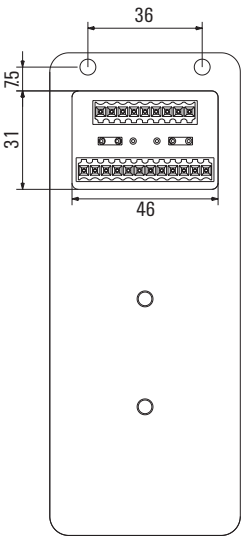
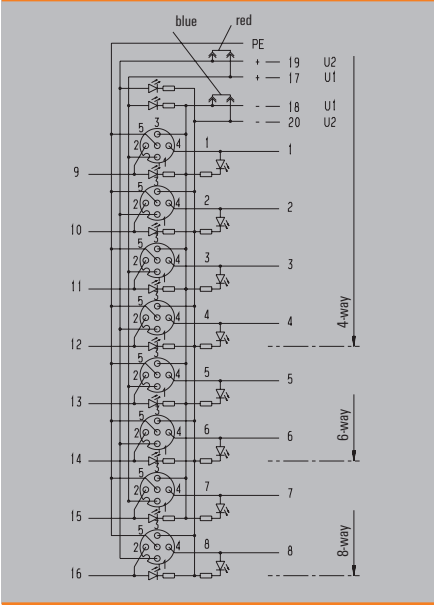
5-pole

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

Dimensioned drawing



Overview

Distributors for system cabling

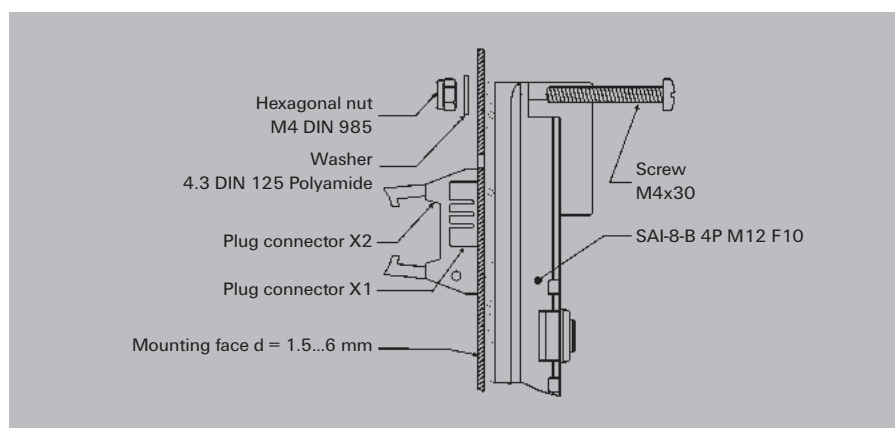
On site distribution is becoming more important. For example, in some places the IP 20 I/O module has to be mounted in housings directly on the machine. This is where a simplified form of wiring is essential.

Weidmüller now offers two simple solutions

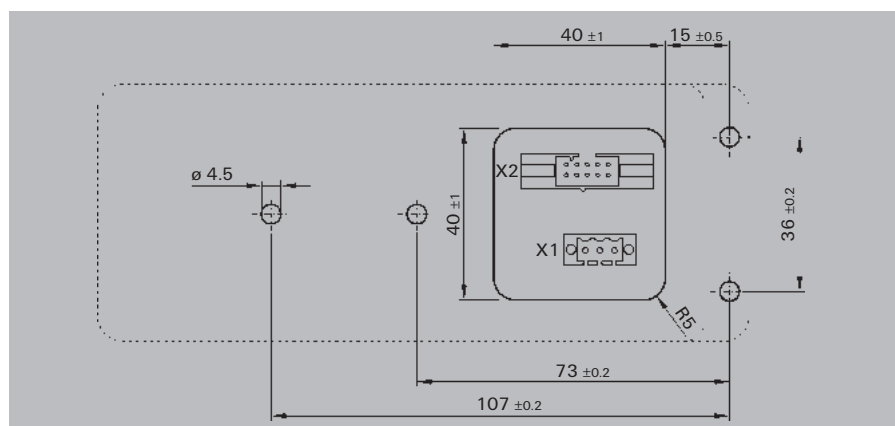
- A distributor equipped at the rear with a standardised ribbon cable connector, which is compatible with the Weidmüller PLC system interface.
- Weidmüller also offers a unique solution for feeding bus cables through panels that can be plugged in from both sides.

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

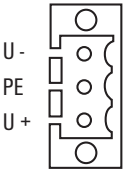
- Additional I/O modules available
- Cable length options
- Easy replacement of I/O interfaces provides flexibility

Contact assignment

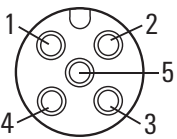
Male connector X1

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

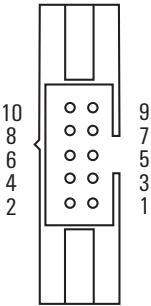


Contact assignment

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

Distributor
Male connector X1

Type	Qty.	Order No.
SAI-8-B 4P M12 F10	1	1812170000
BL 3.5Q/07/180 SN OR BX	72	1597410000

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 distributors.

Technical data can be found on pages W.2 and W.9



SAI distributor 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

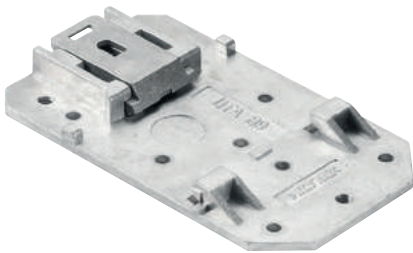
Type	Qty.	Order No.
SAI-4-M-5PM12UT	1	1701231000
SAI-6-M-5PM12UT	1	1701241000
SAI-8-M-5PM12UT	1	1701251000

Protective cap for hooded distributor, empty,
Terminal rail foot for distributor

SAI-4/6/8-MH LEER



SAI-TS35 MF



Ordering data

Mounting hood	Empty
Note	

SAI-4/6/8-MH LEER

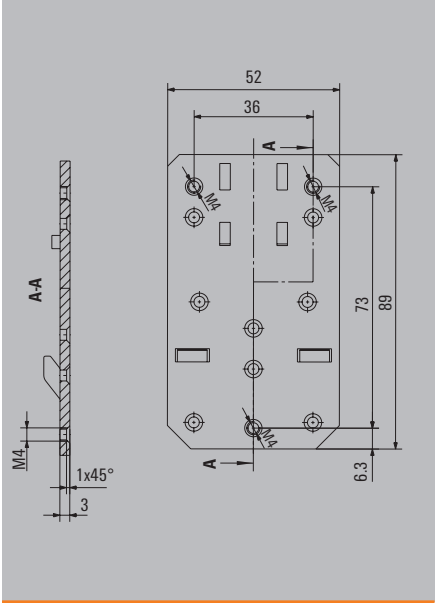
4-pole

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

Dimensioned drawing



Passive M8 distributors

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 distributors.

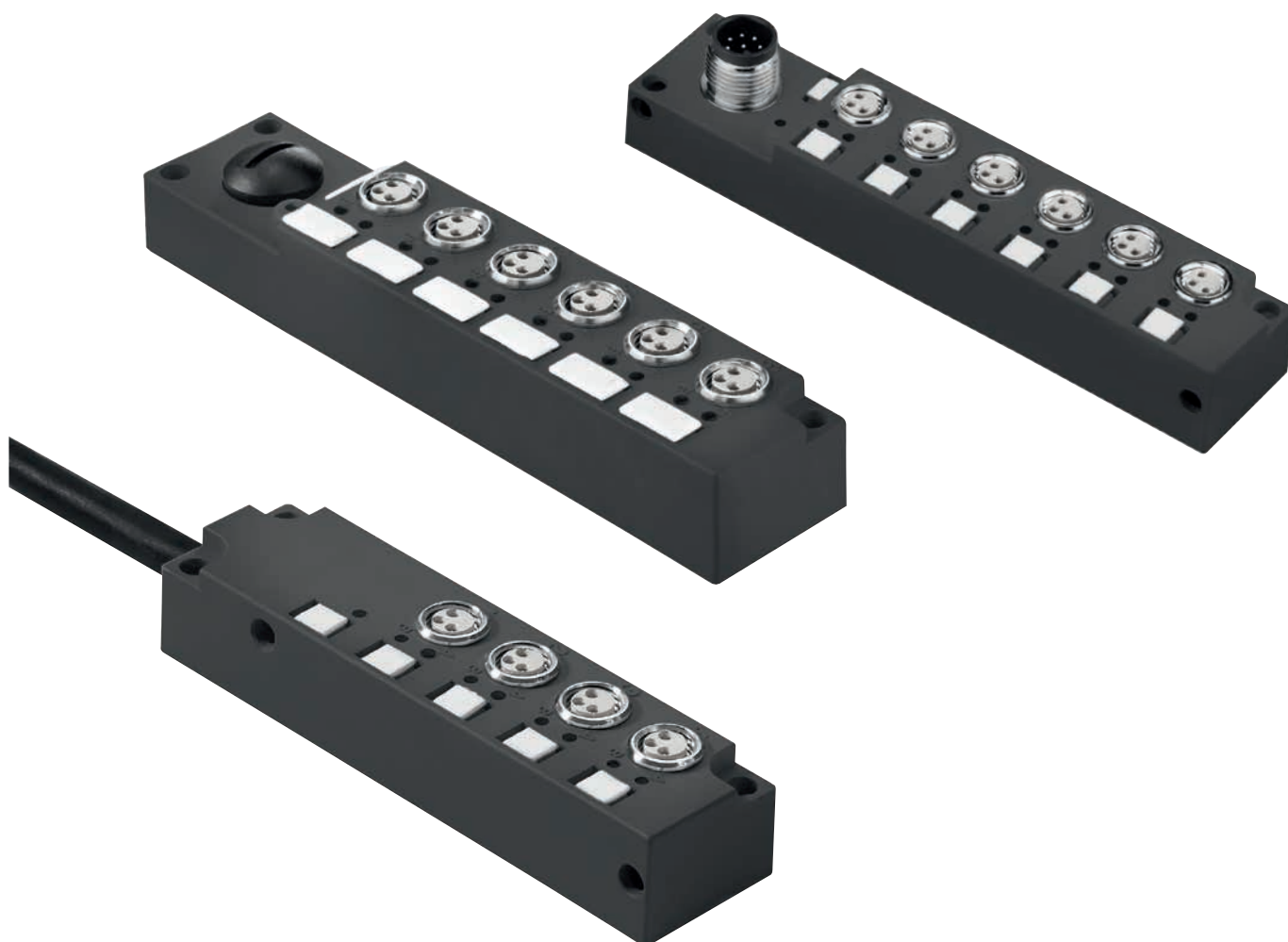
We offer M8 distributors for your application, tailored to your requirements! Special wiring or fitting options are available upon request!

Range of connection options:

- Cover versions
- Fixed cable versions
- M12 / M16 / M23 group output

Housing variants

- Line (single row) and standard distributors (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 distributors

**Directly on the PCB**

Custom versions are also available.
This is the PCB connection module.

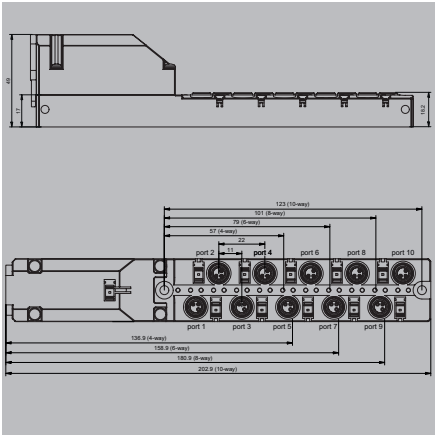
**Space-saving**

The line version has a very small size.

M8 distributors

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		

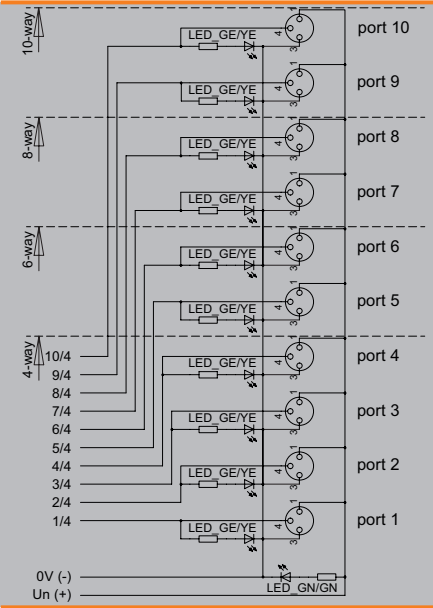
SAI-04/06/08/10Z		3-pole	
Type	Qty.	Order No.	
SAI-04Z-VPPP-3A-M08L-PNP		2818930000	
SAI-06Z-VPPP-3A-M08L-PNP		2818940000	
SAI-08Z-VPPP-3A-M08L-PNP		2818950000	
SAI-10Z-VPPP-3A-M08L-PNP		2818960000	
SAI-04Z-VPUT-3A-M08L-PNP		2819010000	
SAI-06Z-VPUT-3A-M08L-PNP		2819020000	
SAI-08Z-VPUT-3A-M08L-PNP		2819030000	
SAI-10Z-VPUT-3A-M08L-PNP		2819040000	
SAI-04Z-MXPP-3A-M08L-PNP-05U01		2819090000	
SAI-06Z-MXPP-3A-M08L-PNP-05U01		2819100000	
SAI-08Z-MXPP-3A-M08L-PNP-05U01		2819110000	
SAI-10Z-MXPP-3A-M08L-PNP-05U01		2819120000	
SAI-04Z-MXPP-3A-M08L-PNP-10U01		2819130000	
SAI-06Z-MXPP-3A-M08L-PNP-10U01		2819140000	
SAI-08Z-MXPP-3A-M08L-PNP-10U01		2819150000	
SAI-10Z-MXPP-3A-M08L-PNP-10U01		2819160000	
SAI-XXZ-MXPP-XX-M08X-XXX		2819250000	
Plastic screw connection included in the standard scope of delivery.			

SAI-04/06/08/10Z		4-pole	
Type	Qty.	Order No.	
SAI-04Z-VPPP-4A-M08L-PNP		2818970000	
SAI-06Z-VPPP-4A-M08L-PNP		2818980000	
SAI-08Z-VPPP-4A-M08L-PNP		2818990000	
SAI-10Z-VPPP-4A-M08L-PNP		2819000000	
SAI-04Z-VPUT-4A-M08L-PNP		2819050000	
SAI-06Z-VPUT-4A-M08L-PNP		2819060000	
SAI-08Z-VPUT-4A-M08L-PNP		2819070000	
SAI-10Z-VPUT-4A-M08L-PNP		2819080000	
SAI-04Z-MXPP-4A-M08L-PNP-05U01		2819170000	
SAI-06Z-MXPP-4A-M08L-PNP-05U01		2819180000	
SAI-08Z-MXPP-4A-M08L-PNP-05U01		2819190000	
SAI-10Z-MXPP-4A-M08L-PNP-05U01		2819200000	
SAI-04Z-MXPP-4A-M08L-PNP-10U01		2819210000	
SAI-06Z-MXPP-4A-M08L-PNP-10U01		2819220000	
SAI-08Z-MXPP-4A-M08L-PNP-10U01		2819230000	
SAI-10Z-MXPP-4A-M08L-PNP-10U01		2819240000	
SAI-XXZ-MXPP-XX-M08X-XXX		2819250000	
Plastic screw connection included in the standard scope of delivery.			

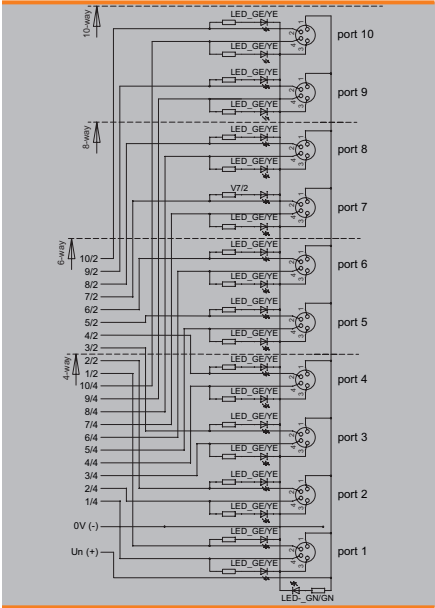
Technical data

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	
Clamping range of hood-version	0.08...1.5 mm²
Suitable for dragline cable (fixed cable connection)	

Wiring diagram



Wiring diagram



Line

with M12 group outlet

- PNP switching
- With LEDs

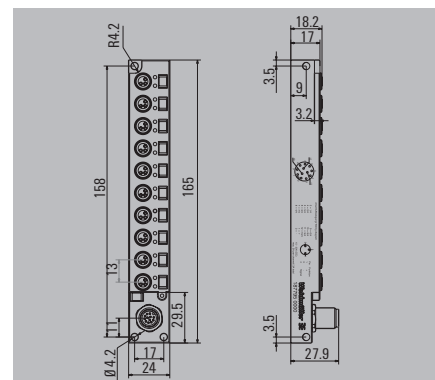
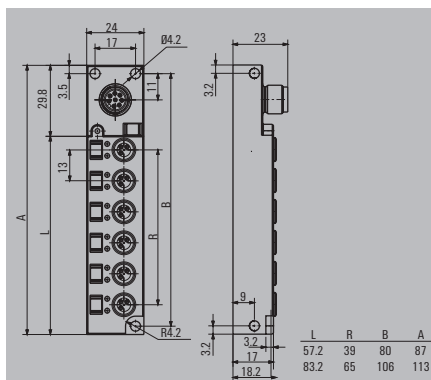
SAI-4/6-S

M12 outlet, 8-pole



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-4-S 3P M8 L	1	1828740000
SAI-6-S 3P M8 L	1	1828730000
SAI-4-S 3P M8 L OL	1	1051760000
SAI-6-S 3P M8 L OL	1	1932380000
Other versions on request. Material colour of the products is changed from grey to black.		

SAI-8/10-S

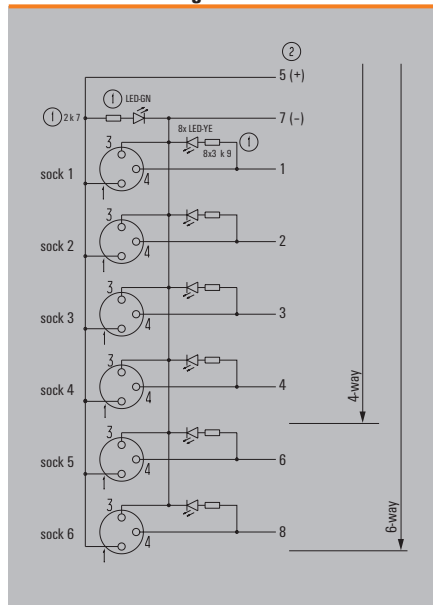
M12

Type	Qty.	Order No.
SAI-10-S12 3P M8 L	1	1877950000
SAI-8-S12 3P M8 L	1	1871680000
SAI-8-S12 3P M8 L OL	1	1116330000
Other versions on request. Material colour of the products is changed from grey to black.		

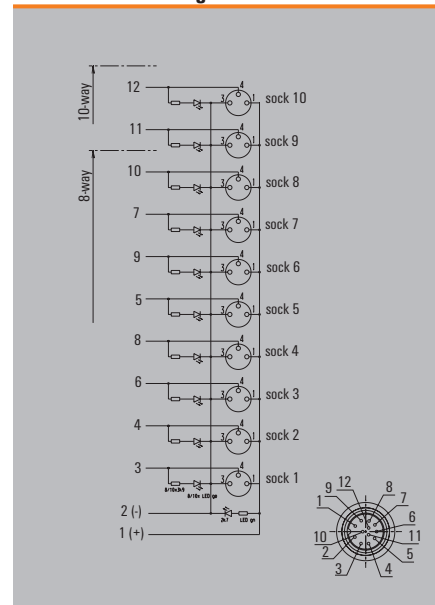
Technical data

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	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)	No

Dimensioned drawing



Dimensioned drawing



M8 distributors

Line

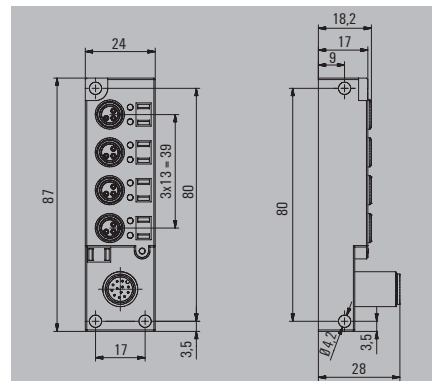
1:1

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

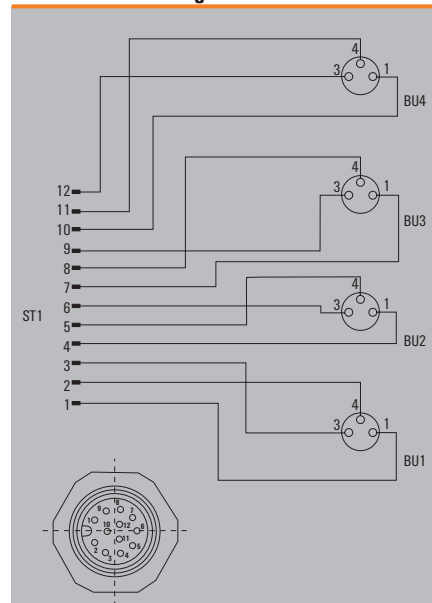
M12

Type	Qty.	Order No.
SAI-4-S12 M8 L 1:1	2	1449400000
Other versions on request. Material colour of the products is changed from grey to black.		

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

Dimensioned drawing



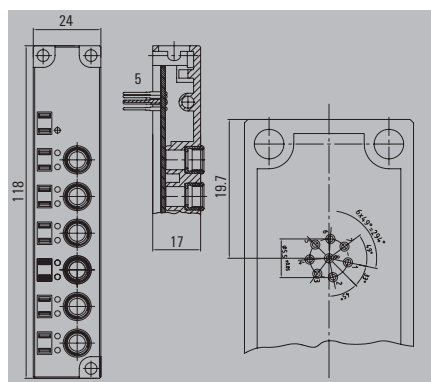
Line

For the printed circuit board

- PNP switching
- With LEDs

SAI-6-S M8 L SL

Solder contacts (8-pole) on the bottom side



Ordering data

3-pole	
	6 plug-in stations
Note	

SAI-6-S M8 L SL

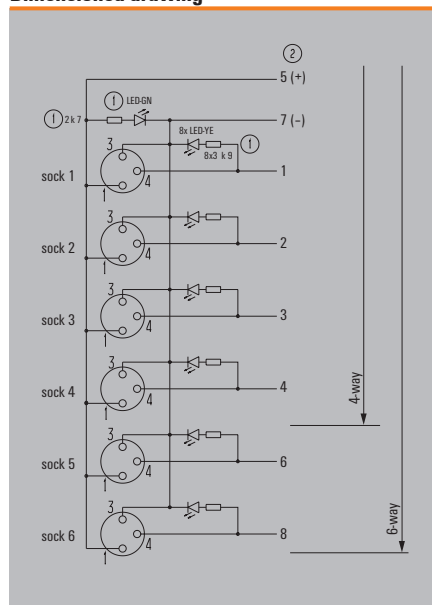
3-pole

Type	Qty.	Order No.
SAI-6-S 3P M8 L SL	1	1057720000
Other versions on request. Material colour of the products is changed from grey to black.		

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	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)	No

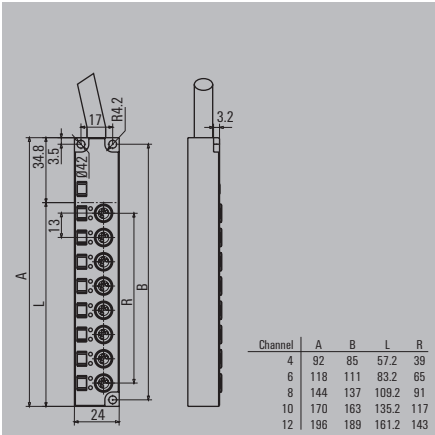
Dimensioned drawing



M8 distributors

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	

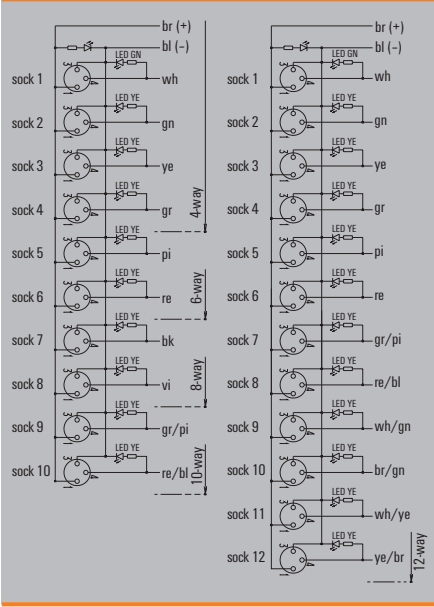
SAI-4/6/8/10/12-L		3-pole
Type	Qty.	Order No.
SAI-4-F 3P M8 L 5M	1	1828720000
SAI-6-F 3P M8 L 5M	1	1828700000
SAI-10-F 3P M8 L 5M	1	1828660000
SAI-8-F 3P M8 L 5M	1	1828680000
SAI-12-F 3P M8 L 5M	1	1828640000
SAI-4-F 3P M8 L 10M	1	1828710000
SAI-6-F 3P M8 L 10M	1	1828690000
SAI-10-F 3P M8 L 10M	1	1828650000
SAI-8-F 3P M8 L 10M	1	1828670000
SAI-12-F 3P M8 L 10M	1	1828630000
Material colour of the products is changed from grey to black.		

SAI-4/6/8/10/12-L		4-pole
Type	Qty.	Order No.
SAI-4-F 4P M8 L 5M	1	1849680000
SAI-6-F 4P M8 L 5M	1	1849700000
SAI-8-F 4P M8 L 5M	1	1828620000
SAI-4-F 4P M8 L 10M	1	1849690000
SAI-6-F 4P M8 L 10M	1	1849670000
SAI-8-F 4P M8 L 10M	1	1828610000
Material colour of the products is changed from grey to black.		

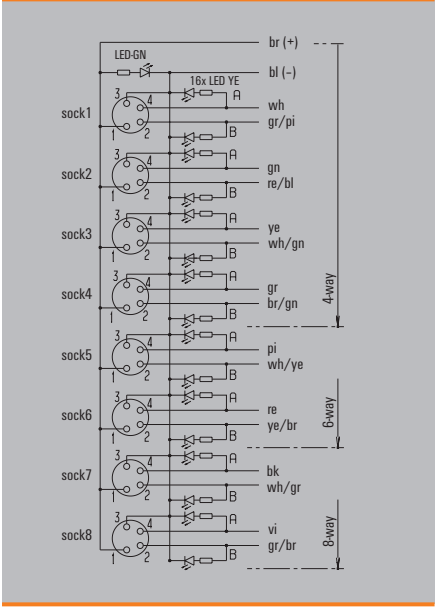
Technical data

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	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



Passive M12 Ex i distributors

In addition to our standard passive distributors, we also offer a solution for explosive areas in the processing industry. Our passive M12 Ex i distributors make it simple to connect NAMUR sensors. Costly distribution boxes certification are a thing of the past.

Thanks to the **IP68 protection class**, products can also be used in classic mechanical engineering applications.

Certified for zone 1 in potentially explosive areas and for G and D areas

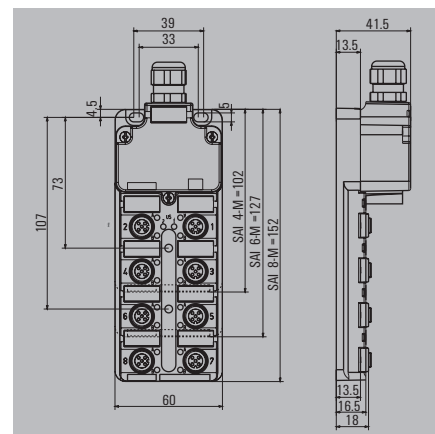
Housing variants

- Cover versions
- Standard distributor (double-row design)
- 4 and 8x distribution
- 4-pole I/O sockets
- Without LED, or with only yellow initiator LED



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	
Power LEDs only, Screw connection	4 plug-in stations	
Power LEDs only, Screw connection	8 plug-in stations	

Note**SAI-4/8-M Ex i****4-pole**

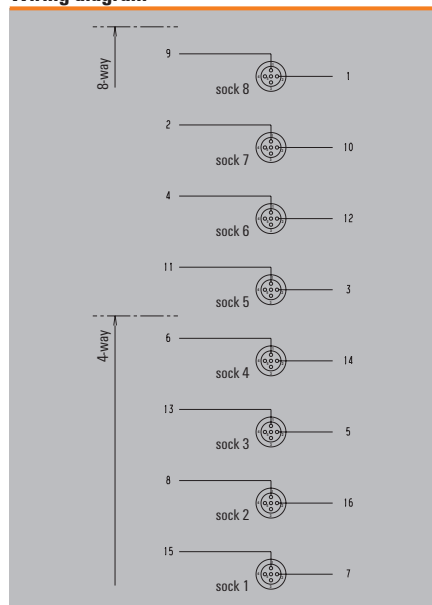
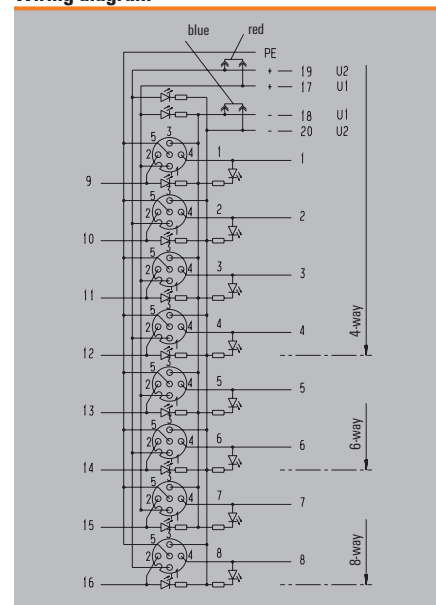
Type	Qty.	Order No.
SAI-4-M 4P EXI Z1 IL	1	1868360000
SAI-8-M 4P EXI Z1 IL	1	1868370000
SAI-4-M 4P EXI Z1 OL	1	1868350000
SAI-8-M 4P EXI Z1 OL	1	1894380000

SAI-4/8-M Ex ia**5-pole**

Type	Qty.	Order No.
SAI-4-M 5P M12 EX IA	1	1896050000
SAI-6-M 5P M12 EX IA	1	1896070000
SAI-8-M 5P M12 EX IA	1	1896090000

Technical data

Operating voltage	10...30 V
Current of continuous busbars	100 mA
Max. current-carrying capacity per slot	100 mA
Total current	2.3 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...40 °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	0.1...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram**Wiring diagram**

Distributor with integrated logic

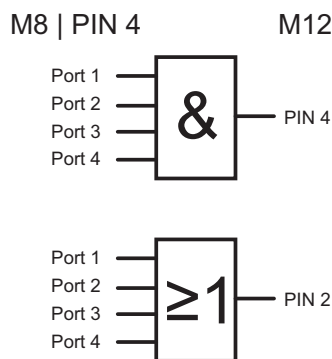
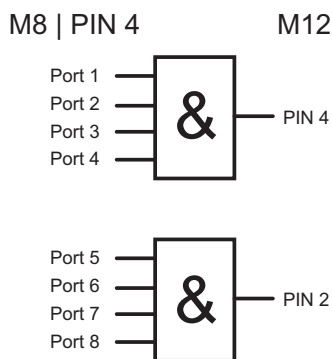
Distributor with integrated logic	Introduction	F.2
	Distributor with integrated logic	F.3
	Terminator resistor - Bridge	F.5

Distributor with integrated logic

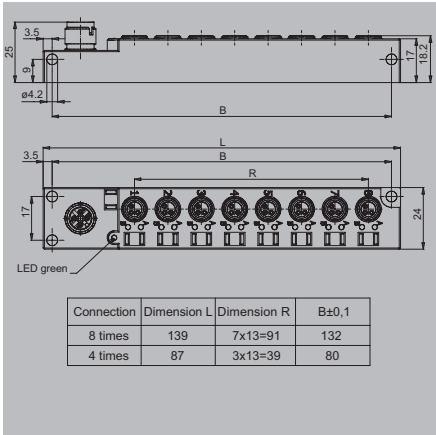
In mechanical engineering, many sensors have to be wired and combined on a regular basis. For this, it is usually necessary to carry out the complete wiring to the PLC. Distributors with integrated logic from Weidmüller can convert logical links in the distributor, thereby shortening installation time.

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	

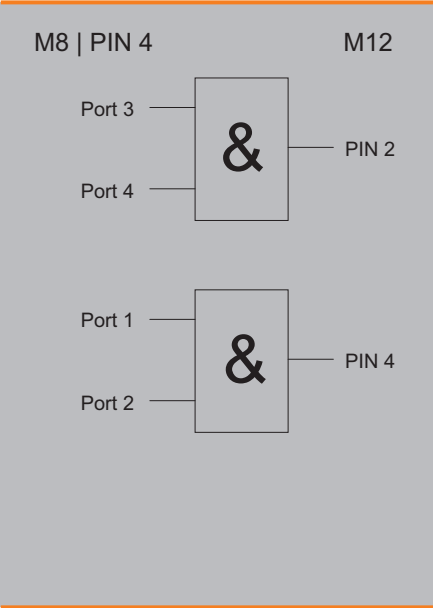
SAI-4-S		3-pole
Type	Qty.	Order No.
SAI-4-S-3P-M8L-M12-2AND	1	2512800000
Material colour of the products is changed from grey to black.		

SAI-8-S		3-pole
Type	Qty.	Order No.
SAI-8-S-3P-M8L-M12-2AND	1	2512820000
Material colour of the products is changed from grey to black.		

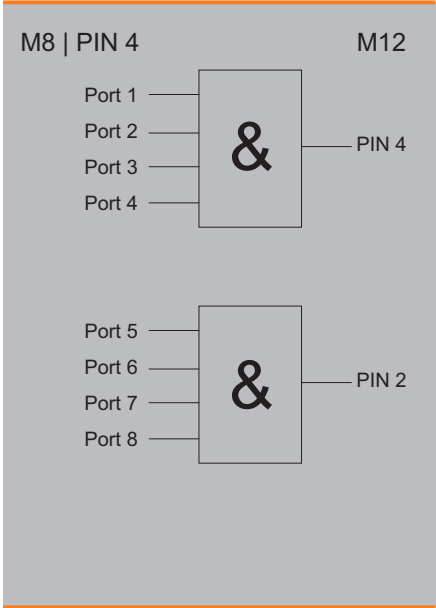
Technical data

Operating voltage	15...30 V
Current of continuous busbars	
Max. current-carrying capacity per slot	
Total current	2 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	Nickel-plated CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram

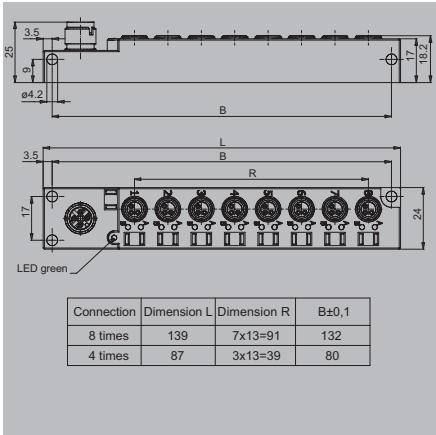


Wiring diagram



Distributor 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-4-S-3P-M8L-M12-LOG	1	2512390000
Material colour of the products is changed from grey to black.		

SAI-8-S

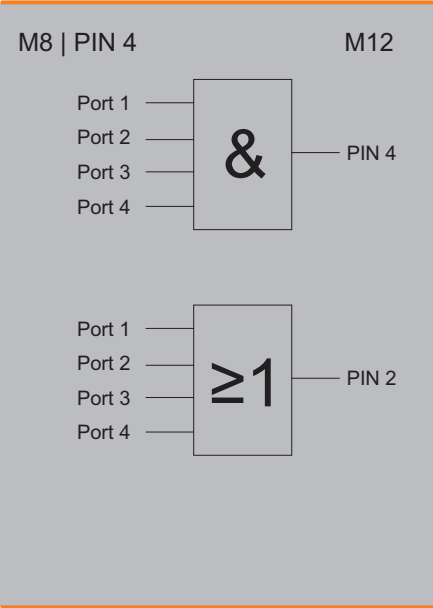
3-pole

Type	Qty.	Order No.
SAI-8-S-3P-M8L-M12-LOG	1	2512810000
Material colour of the products is changed from grey to black.		

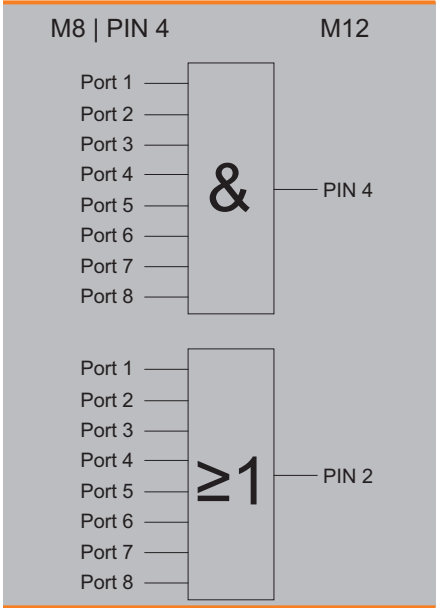
Technical data

Operating voltage	15...30 V
Current of continuous busbars	
Max. current-carrying capacity per slot	
Total current	2 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	Nickel-plated CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



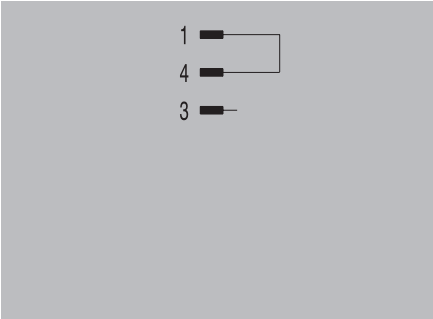
Wiring diagram



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		

Weidmüller Industry Light (WIL)

Weidmüller Industry Light (WIL)	Introduction	G.2
	Weidmüller Industry Light	G.4
	Colour alternative 6500K	G.4
	Colour alternative 5700K	G.7
	Colour alternative 5000K	G.9
	Colour alternative 4000K	G.10
	Colour alternative 2700K	G.11
	WIL colour alternative	G.12
	WIL special variants	G.16
	Accessories	G.17
	Explanation of the abbreviations of the WIL family	G.22

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.





Wide range thanks to broad beam angle

Three rows of LEDs arranged offset to one another generate a wide, trapezoidal beam angle. This produces a wide lit area without having to turn the light in a specific direction.

Easy to connect

With the pre-assembled M12 plug-in connector and 30-cm cable, a plug-and-play connection can be set up for the system. No strands need to be connected separately, which makes installation considerably easier.

Concealed integration possible thanks to flat design

The WIL is easy to "conceal" as it is just 8 mm in height. A folded edge on the control cabinet door may be sufficient to ensure the light is no longer visible from the side.

High-performance and economical

We offer the WIL in different light colours to match the respective application and always with a high luminosity. It is operated with 24 V DC and can be connected directly to a PLC output thanks to its low power consumption.

Robust for excellent durability

The enclosure made of a hard-anodised aluminium continuous cast profile with nickel-plated zinc die cast caps makes the WIL extremely robust. The area providing the lighting is therefore completely cast – without the need for an airtight area with viewing glass that can break.

Direct and easy to mount

Built-in mounting holes as well as the magnetic fastening allow for simple direct mounting. There are no additional mounting clips, so the installation height is also low.

Perfect fit for the control cabinet

Different lengths allow for the mounting and illumination of a wide variety of control cabinet models.

Protected

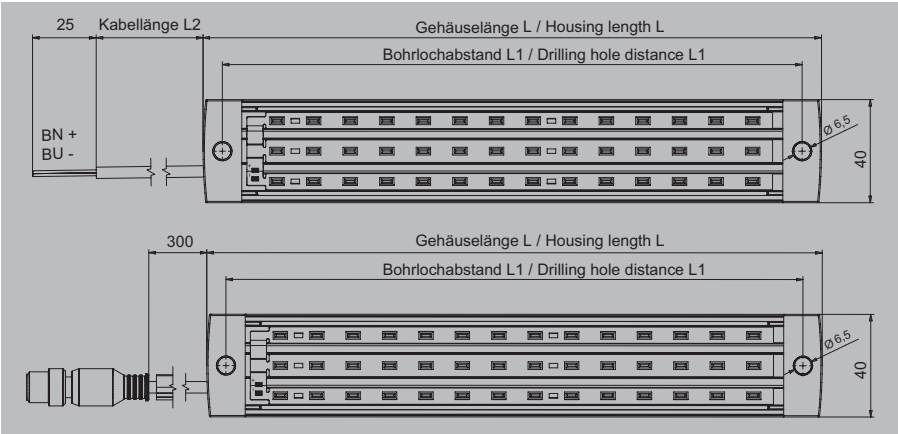
Thanks to its complete casting and M12 connection system, the WIL is watertight and dust-proof and can be used directly in the machine room.



WIL – Weidmüller Industry Light

Light colour 6500K

Black cable, screw connection



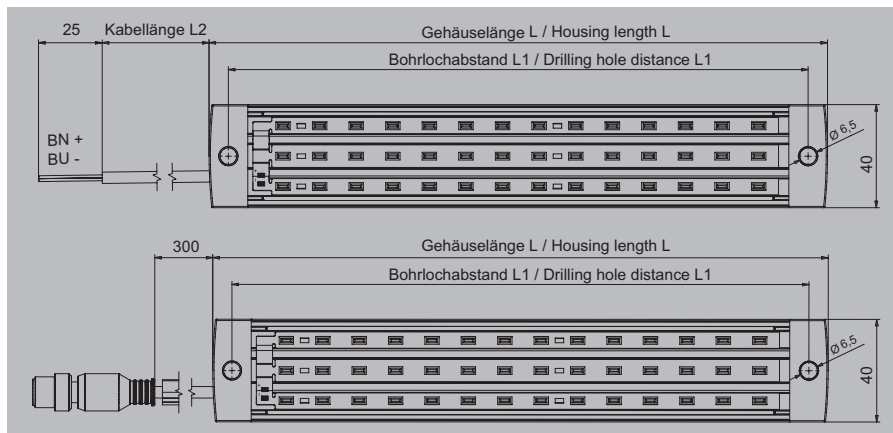
Technical data

Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	8 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	CE; cULus
Note	

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 145 mm									
WIL-LWXXX-6500D024-145SXX0.3BM12GXXXX	0.3 m	M12	3.9 W	0.162 A	340 lm	118 lux	130 mm	1	2535770000
WIL-LWXXX-6500D024-145SXX5.0BXXXXXXX	5 m	without	3.9 W	0.162 A	340 lm	118 lux	130 mm	1	2535800000
Housing length 240 mm									
WIL-LWXXX-6500D024-240SXX0.3BM12GXXXX	0.3 m	M12	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2436210000
WIL-LWXXX-6500D024-240SXX1.5BXXXXXXX	1.5 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527880000
WIL-LWXXX-6500D024-240SXX3.0BXXXXXXX	3 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527890000
WIL-LWXXX-6500D024-240SXX5.0BXXXXXXX	5 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527900000
WIL-LWXXX-6500D024-240SX10.0BXXXXXXX	10 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527910000
WIL-LWXXX-6500D024-240SXX0.3BM12GM12G	0.3 m	M12 / M12	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2576960000
Housing length 350 mm									
WIL-LWXXX-6500D024-350SXX0.3BM12GXXXX	0.3 m	M12	11.5 W	0.477 A	958 lm	330 lux	335 mm	1	2535810000
WIL-LWXXX-6500D024-350SXX5.0BXXXXXXX	5 m	without	11.5 W	0.477 A	958 lm	330 lux	335 mm	1	2535820000
Housing length 450 mm									
WIL-LWXXX-6500D024-450SXX0.3BM12GXXXX	0.3 m	M12	15.2 W	0.631 A	1260 lm	435 lux	435 mm	1	2535830000
WIL-LWXXX-6500D024-450SXX5.0BXXXXXXX	5 m	without	15.2 W	0.631 A	1260 lm	435 lux	435 mm	1	2535840000
Housing length 555 mm									
WIL-LWXXX-6500D024-555SXX0.3BM12GXXXX	0.3 m	M12	18.6 W	0.773 A	1579 lm	544 lux	540 mm	1	2535850000
WIL-LWXXX-6500D024-555SXX5.0BXXXXXXX	5 m	without	18.6 W	0.773 A	1579 lm	544 lux	540 mm	1	2535860000
Housing length 655 mm									
WIL-LWXXX-6500D024-655SXX0.3BM12GXXXX	0.3 m	M12	23.0 W	0.957 A	1933 lm	666 lux	640 mm	1	2535870000
WIL-LWXXX-6500D024-655SXX5.0BXXXXXXX	5 m	without	23.0 W	0.957 A	1933 lm	666 lux	640 mm	1	2535880000
Housing length 765 mm									
WIL-LWXXX-6500D024-765SXX0.3BM12GXXXX	0.3 m	M12	25.7 W	1.07 A	2177 lm	749 lux	750 mm	1	2535890000
WIL-LWXXX-6500D024-765SXX5.0BXXXXXXX	5 m	without	25.7 W	1.07 A	2177 lm	749 lux	750 mm	1	2535900000
Housing length 860 mm									
WIL-LWXXX-6500D024-860SXX0.3BM12GXXXX	0.3 m	M12	29.6 W	1.23 A	2473 lm	844 lux	845 mm	1	2535910000
WIL-LWXXX-6500D024-860SXX5.0BXXXXXXX	5 m	without	29.6 W	1.23 A	2473 lm	844 lux	845 mm	1	2535920000
Note									

Light colour 6500K



Technical data

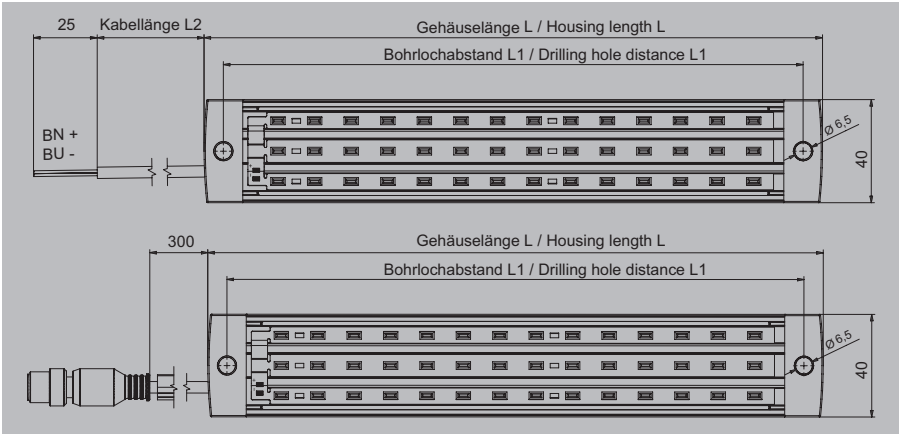
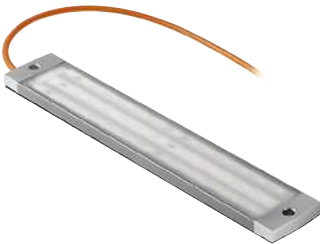
Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	9.5 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	CE; cULus
Note	

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 145 mm									
WIL-LWXXX-6500D024-145MFX0.3BM12GXXXX	0.3 m	M12	3.9 W	0.162 A	340 lm	118 lux	130 mm	1	2545170000
WIL-LWXXX-6500D024-145MFX1.5BM12GXXXX	3 m	without	3.9 W	0.162 A	340 lm	118 lux	130 mm	1	2669230000
Housing length 240 mm									
WIL-LWXXX-6500D024-240MFX1.5BM12GXXXX	1.5 m	M12	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2669240000
WIL-LWXXX-6500D024-240MFX1.5BXXXXXXX	1.5 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527920000
WIL-LWXXX-6500D024-240MFX10.0BXXXXXXX	10 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527950000
WIL-LWXXX-6500D024-240MFX3.0BXXXXXXX	3 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527930000
WIL-LWXXX-6500D024-240MFX5.0BXXXXXXX	5 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527940000
Note									

Light colour 6500K

Orange cable, screw connection



Technical data

Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	8 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	CE; cULus

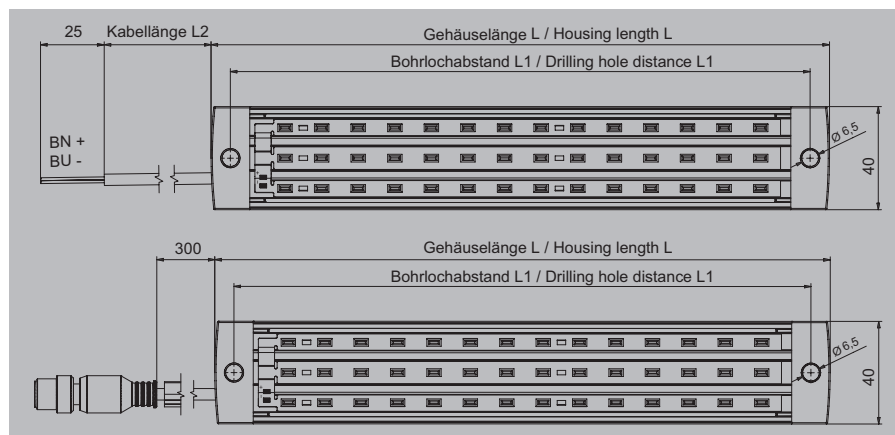
Note

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 240 mm									
WIL-LWXXXX-6500D024-240SXX1.50XXXXXXXXXX	1.5 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527960000
WIL-LWXXXX-6500D024-240SXX3.50XXXXXXXXXX	3 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527970000
WIL-LWXXXX-6500D024-240SXX5.00XXXXXXXXXX	5 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527980000
WIL-LWXXXX-6500D024-240SXX10.00XXXXXXXXXX	10 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2527990000
Note									

Light colour 5700K

Black cable, screw connection



Technical data

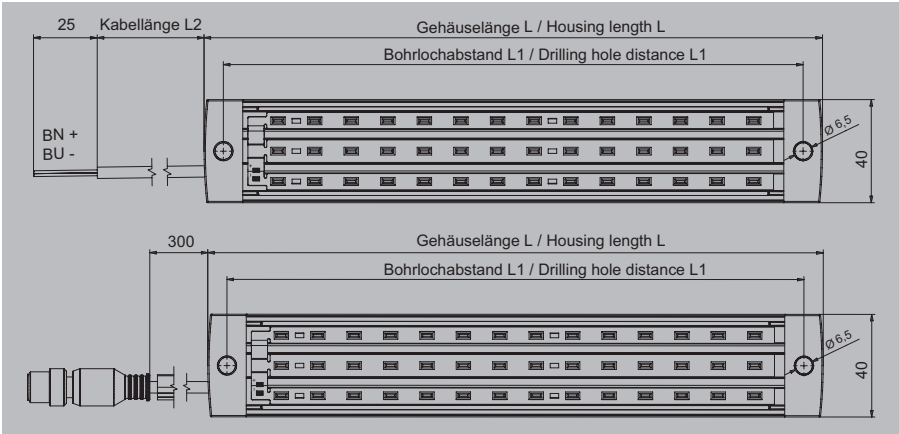
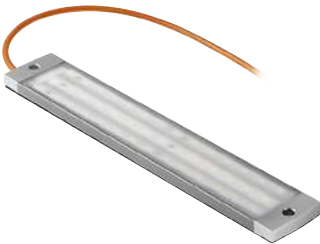
Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	8 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	CE
Note	

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 145 mm									
WIL-LWXXXX-5700D024-145SXX0.3BM12GXXXX	0.3 m	M12	3.9 W	0.16 A	370 lm	129 lux	130 mm	1	2820220000
WIL-LWXXXX-5700D024-145SXX3.0BXXXXXXX	3 m	without	3.9 W	0.16 A	370 lm	129 lux	130 mm	1	2820230000
Housing length 240 mm									
WIL-LWXXXX-5700D024-240SXX0.3BM12GXXXX	0.3 m	M12	7.5 W	0.31 A	706 lm	247 lux	225 mm	1	2614400000
WIL-LWXXXX-5700D024-240SXX3.0BXXXXXXX	3 m	without	7.5 W	0.31 A	706 lm	247 lux	225 mm	1	2820240000
Housing length 350 mm									
WIL-LWXXXX-5700D024-350SXX0.3SM12GXXXX	0.3 m	M12	11.3 W	0.47 A	1059 lm	370 lux	335 mm	1	2616330000
WIL-LWXXXX-5700D024-350SXX3.0BXXXXXXX	3 m	without	11.3 W	0.47 A	1059 lm	370 lux	335 mm	1	2820250000
Housing length 450 mm									
WIL-LWXXXX-5700D024-450SXX0.3BM12GXXXX	0.3 m	M12	15.1 W	0.63 A	1412 lm	493 lux	435 mm	1	2820260000
WIL-LWXXXX-5700D024-450SXX3.0BXXXXXXX	3 m	without	15.1 W	0.63 A	1412 lm	493 lux	435 mm	1	2820270000
Housing length 555 mm									
WIL-LWXXXX-5700D024-555SXX0.3BM12GXXXX	0.3 m	M12	18.9 W	0.7 A	1765 lm	617 lux	540 mm	1	2820280000
WIL-LWXXXX-5700D024-555SXX3.0BXXXXXXX	3 m	without	18.9 W	0.7 A	1765 lm	617 lux	540 mm	1	2820290000
Housing length 655 mm									
WIL-LWXXXX-5700D024-655SXX0.3BM12GXXXX	0.3 m	M12	22.6 W	0.94 A	2119 lm	740 lux	640 mm	1	2820300000
WIL-LWXXXX-5700D024-655SXX3.0BXXXXXXX	3 m	without	22.6 W	0.94 A	2119 lm	740 lux	640 mm	1	2820310000
Housing length 765 mm									
WIL-LWXXXX-5700D024-765SXX0.3BM12GXXXX	0.3 m	M12	26.4 W	1.1 A	2472 lm	864 lux	750 mm	1	2820320000
WIL-LWXXXX-5700D024-765SXX3.0BXXXXXXX	3 m	without	26.4 W	1.1 A	2472 lm	864 lux	750 mm	1	2820330000
Housing length 860 mm									
WIL-LWXXXX-5700D024-860SXX0.3BM12GXXXX	0.3 m	M12	29.1 W	1.21 A	2746 lm	940 lux	845 mm	1	2820340000
WIL-LWXXXX-5700D024-860SXX3.0BXXXXXXX	3 m	without	29.1 W	1.21 A	2746 lm	940 lux	845 mm	1	2820350000
Note									

Light colour 5700K

Orange cable, screw connection



Technical data

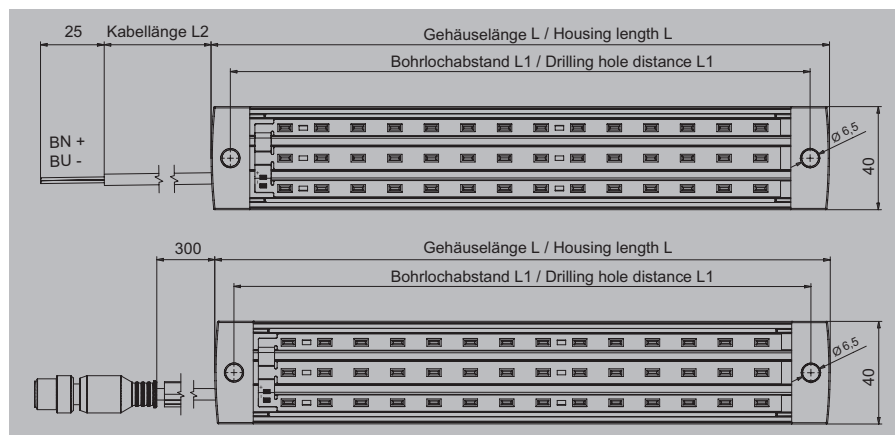
Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	9.5 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	CE; cULus
Note	

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 240 mm									
WIL-LWXXXX-6500D024-240MFX1.50XXXXXXX	1.5 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2528000000
WIL-LWXXXX-6500D024-240MFX3.00XXXXXXX	3 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2528010000
WIL-LWXXXX-6500D024-240MFX5.00XXXXXXX	5 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2528020000
WIL-LWXXXX-6500D024-240MF10.00XXXXXXX	10 m	without	7.5 W	0.31 A	711 lm	246 lux	225 mm	1	2528030000
Note									

Light colour 5000K

Black cable, screw connection



Technical data

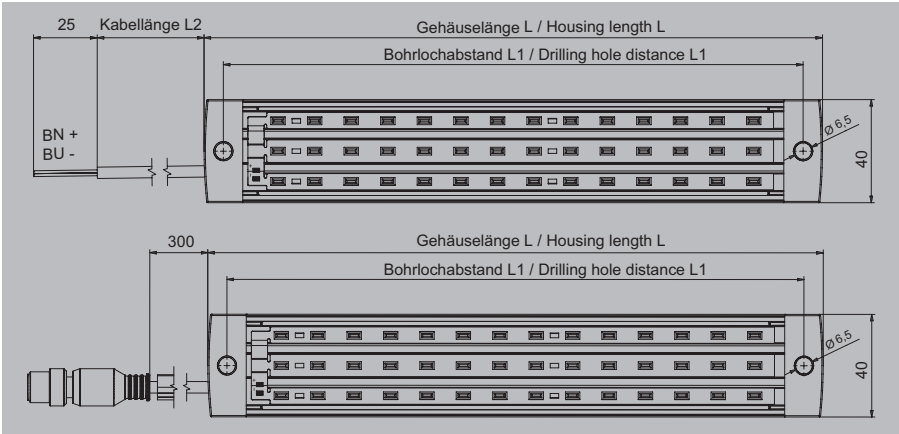
Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	8 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	
Note	

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 145 mm									
WIL-LWXXXX-5000D024-145SXX0.3BM12GXXXX	0.3 m	M12					130 mm	1	2821040000
WIL-LWXXXX-5000D024-145SXX3.0BXXXXXXX	3 m	without					130 mm	1	2821050000
Housing length 240 mm									
WIL-LWXXXX-5000D024-240SXX0.3BM12GXXXX	0.3 m	M12					225 mm	1	2793630000
WIL-LWXXXX-5000D024-240SXX3.0BXXXXXXX	3 m	without					225 mm	1	2821060000
Housing length 350 mm									
WIL-LWXXXX-5000D024-350SXX0.3BM12GXXXX	0.3 m	M12					335 mm	1	2821070000
WIL-LWXXXX-5000D024-350SXX3.0BXXXXXXX	3 m	without					335 mm	1	2821080000
Housing length 450 mm									
WIL-LWXXXX-5000D024-450SXX0.3BM12GXXXX	0.3 m	M12					435 mm	1	2821090000
WIL-LWXXXX-5000D024-450SXX3.0BXXXXXXX	3 m	without					435 mm	1	2821100000
Housing length 555 mm									
WIL-LWXXXX-5000D024-555SXX0.3BM12GXXXX	0.3 m	M12					540 mm	1	2821110000
WIL-LWXXXX-5000D024-555SXX3.0BXXXXXXX	3 m	without					540 mm	1	2821120000
Housing length 655 mm									
WIL-LWXXXX-5000D024-655SXX0.3BM12GXXXX	0.3 m	M12					640 mm	1	2821130000
WIL-LWXXXX-5000D024-655SXX3.0BXXXXXXX	3 m	without					640 mm	1	2821140000
Housing length 765 mm									
WIL-LWXXXX-5000D024-765SXX0.3BM12GXXXX	0.3 m	M12					750 mm	1	2821150000
WIL-LWXXXX-5000D024-765SXX3.0BXXXXXXX	3 m	without					750 mm	1	2821160000
Housing length 860 mm									
WIL-LWXXXX-5000D024-860SXX0.3BM12GXXXX	0.3 m	M12					845 mm	1	2821170000
WIL-LWXXXX-5000D024-860SXX3.0BXXXXXXX	3 m	without					845 mm	1	2821180000
Note	Products and technical data available end of second quarter 2022.								

Light colour 4000K

Black cable, screw connection



Technical data

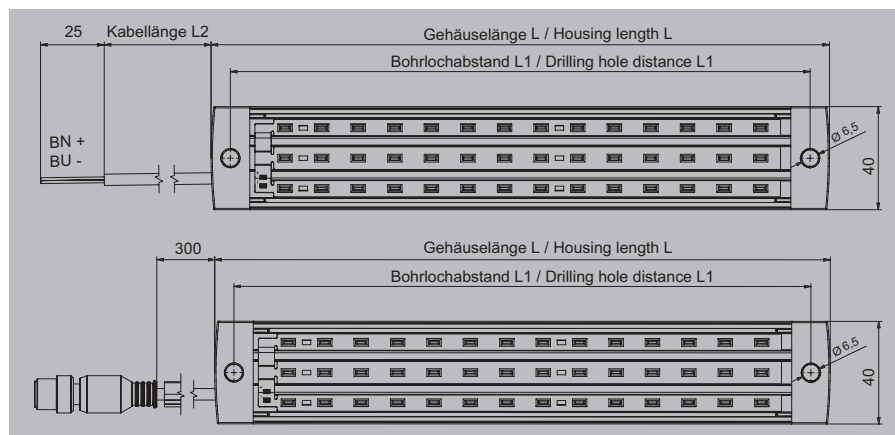
Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	8 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	CE; cULus
Note	

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 145 mm									
WIL-LWXXX-4000D024-145SXX0.3BM12GXXXX	0.3 m	M12	3.8 W	0.158 A	384 lm	134 lux	130 mm	1	2762040000
WIL-LWXXX-4000D024-145SXX3.0BXXXXXXX	3 m	without	3.8 W	0.158 A	384 lm	134 lux	130 mm	1	2821190000
Housing length 240 mm									
WIL-LWXXX-4000D024-240SXX0.3BM12GXXXX	0.3 m	M12	7.4 W	0.308 A	746 lm	260 lux	225 mm	1	2617810000
WIL-LWXXX-4000D024-240SXX5.0BXXXXXXX	5 m	without	7.4 W	0.308 A	746 lm	260 lux	225 mm	1	2732910000
WIL-LWXXX-4000D024-240SX10.0BXXXXXXX	10 m	without	7.4 W	0.308 A	746 lm	260 lux	225 mm	1	2770730000
Housing length 350 mm									
WIL-LWXXX-4000D024-350SXX0.3BM12GXXXX	0.3 m	M12	11.1 W	0.462 A	1119 lm	390 lux	335 mm	1	2633680000
WIL-LWXXX-4000D024-350SXX5.0BXXXXXXX	5 m	without	11.1 W	0.462 A	1119 lm	390 lux	335 mm	1	2732920000
Housing length 450 mm									
WIL-LWXXX-4000D024-450SXX0.3BM12GXXXX	0.3 m	M12	14.8 W	0.616 A	1492 lm	520 lux	435 mm	1	2821200000
WIL-LWXXX-4000D024-450SXX3.0BXXXXXXX	3 m	without	14.8 W	0.616 A	1492 lm	520 lux	435 mm	1	2821210000
Housing length 555 mm									
WIL-LWXXX-4000D024-555SXX0.3BM12GXXXX	0.3 m	M12	18.5 W	0.77 A	1865 lm	650 lux	540 mm	1	2732860000
WIL-LWXXX-4000D024-555SXX5.0BXXXXXXX	5 m	without	18.5 W	0.77 A	1865 lm	650 lux	540 mm	1	2732940000
Housing length 655 mm									
WIL-LWXXX-4000D024-655SXX0.3BM12GXXXX	0.3 m	M12	22.2 W	0.924 A	2238 lm	780 lux	640 mm	1	2821220000
WIL-LWXXX-4000D024-655SXX3.0BXXXXXXX	3 m	without	22.2 W	0.924 A	2238 lm	780 lux	640 mm	1	2821230000
Housing length 765 mm									
WIL-LWXXX-4000D024-765SXX0.3BM12GXXXX	0.3 m	M12	25.9 W	1.078 A	2611 lm	910 lux	750 mm	1	2821240000
WIL-LWXXX-4000D024-765SXX3.0BXXXXXXX	3 m	without	25.9 W	1.078 A	2611 lm	910 lux	750 mm	1	2821250000
Housing length 860 mm									
WIL-LWXXX-4000D024-860SXX0.3BM12GXXXX	0.3 m	M12	28.5 W	1.188 A	2889 lm	990 lux	845 mm	1	2793350000
WIL-LWXXX-4000D024-860SXX5.0BXXXXXXX	5 m	without	28.5 W	1.188 A	2889 lm	990 lux	845 mm	1	2694370000
Note									

Light colour 2700K

Black cable, screw connection



Technical data

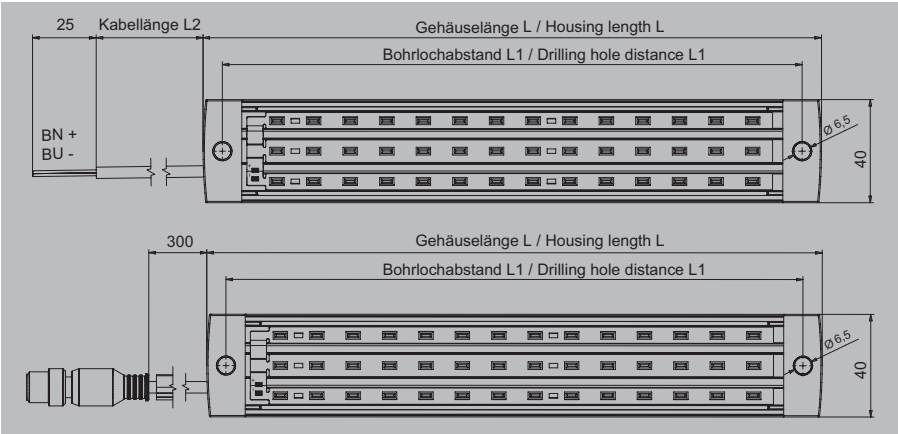
Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	8 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	
Note	

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 145 mm									
WIL-LWXXXX-2700D024-145SXX0.3BM12GXXXX	0.3 m	M12	3.9 W	0.162 A	385 lm	135 lux	130 mm	1	2821260000
WIL-LWXXXX-2700D024-145SXX3.0BXXXXXXX	3 m	without	3.9 W	0.162 A	385 lm	135 lux	130 mm	1	2821270000
Housing length 240 mm									
WIL-LWXXXX-2700D024-240SXX0.3BM12GXXXX	0.3 m	M12	7.5 W	0.31 A	748 lm	263 lux	225 mm	1	2633830000
WIL-LWXXXX-2700D024-240SXX3.0BXXXXXXX	3 m	without	7.5 W	0.31 A	748 lm	263 lux	225 mm	1	2680950000
Housing length 350 mm									
WIL-LWXXXX-2700D024-350SXX0.3BM12GXXXX	0.3 m	M12	11.3 W	0.471 A	1122 lm	395 lux	335 mm	1	2821280000
WIL-LWXXXX-2700D024-350SXX3.0BXXXXXXX	3 m	without	11.3 W	0.471 A	1122 lm	395 lux	335 mm	1	2821290000
Housing length 450 mm									
WIL-LWXXXX-2700D024-450SXX0.3BM12GXXXX	0.3 m	M12	15.0 W	0.625 A	1496 lm	526 lux	435 mm	1	2633840000
WIL-LWXXXX-2700D024-450SXX3.0BXXXXXXX	3 m	without	15.0 W	0.625 A	1496 lm	526 lux	435 mm	1	2821300000
Housing length 555 mm									
WIL-LWXXXX-2700D024-555SXX0.3BM12GXXXX	0.3 m	M12	18.8 W	0.7 A	1870 lm	658 lux	540 mm	1	2821310000
WIL-LWXXXX-2700D024-555SXX3.0BXXXXXXX	3 m	without	18.8 W	0.7 A	1870 lm	658 lux	540 mm	1	2821320000
Housing length 655 mm									
WIL-LWXXXX-2700D024-655SXX0.3BM12GXXXX	0.3 m	M12	22.5 W	0.937 A	2244 lm	786 lux	640 mm	1	2550650000
WIL-LWXXXX-2700D024-655SXX3.0BXXXXXXX	3 m	without	22.5 W	0.937 A	2244 lm	786 lux	640 mm	1	2821330000
Housing length 765 mm									
WIL-LWXXXX-2700D024-765SXX0.3BM12GXXXX	0.3 m	M12	26.4 W	1.1 A	2618 lm	921 lux	750 mm	1	2821340000
WIL-LWXXXX-2700D024-765SXX3.0BXXXXXXX	3 m	without	26.4 W	1.1 A	2618 lm	921 lux	750 mm	1	2821350000
Housing length 860 mm									
WIL-LWXXXX-2700D024-860SXX0.3BM12GXXXX	0.3 m	M12	29.1 W	1.21 A	2898 lm	996 lux	845 mm	1	2796070000
WIL-LWXXXX-2700D024-860SXX3.0BXXXXXXX	3 m	without	29.1 W	1.21 A	2898 lm	996 lux	845 mm	1	2821360000
Note									

Colour variants

Lamp colour red



Technical data

Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	8 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	CE; cULus

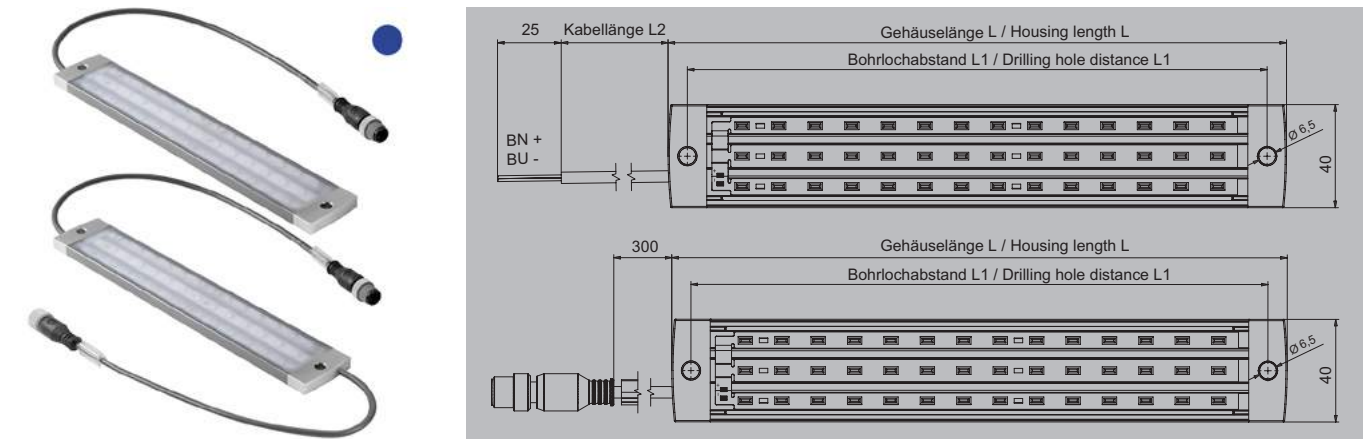
Note

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 240 mm									
WIL-LRXXX-WXXXD024-240SXX0.3BM12GM12G	0.3 m	M12 / M12	9.2 W	0.382 A	208 lm	71 lux	225 mm	1	2576980000
WIL-LRXXX-WXXXD024-240SXX0.3BM12GXXX	0.3 m	M12	9.2 W	0.382 A	208 lm	71 lux	225 mm	1	2436340000
Note									

Colour variants

Lamp colour blue



Technical data

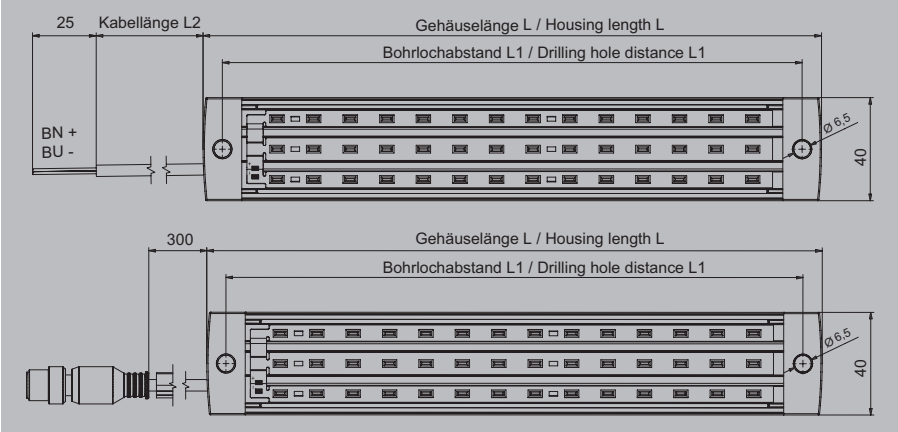
Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	8 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	CE; cULus
Note	

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 240 mm									
WIL-LBXXXX-WXXXD024-240SXX0.3BM12GM12G	0.3 m	M12 / M12	7.6 W	0.317 A	98 lm	34 lux	225 mm	1	2576970000
WIL-LBXXXX-WXXXD024-240SXX0.3BM12GXXXX	0.3 m	M12	7.6 W	0.317 A	98 lm	34 lux	225 mm	1	2436350000
Note									

Colour variants

Lamp colour red, yellow, green



Technical data

Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	8 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	CE

Note

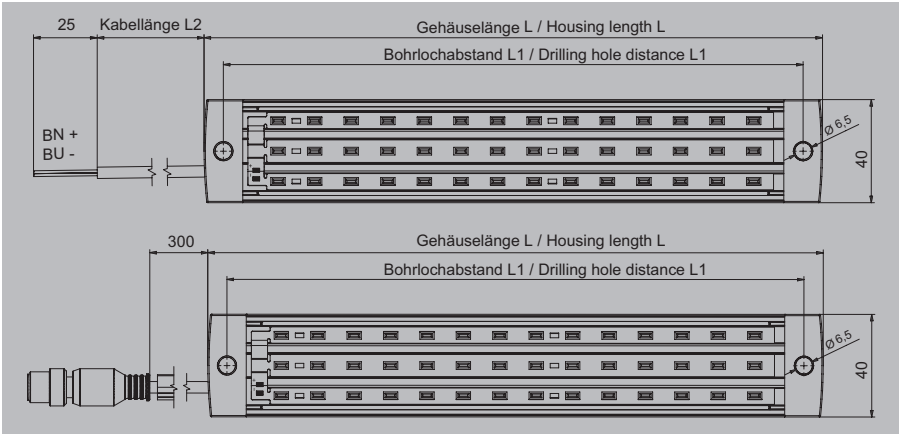
Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 240 mm									
WIL-LRYGXX-XXXXD024-240SXX0.3BM12GXXXX	0.3 m	M12	8,5 W	0,36 A			225 mm	1	2625240000

Note

Colour variants

Lampenfarbe rainbow, Colour space adjustable



Technical data

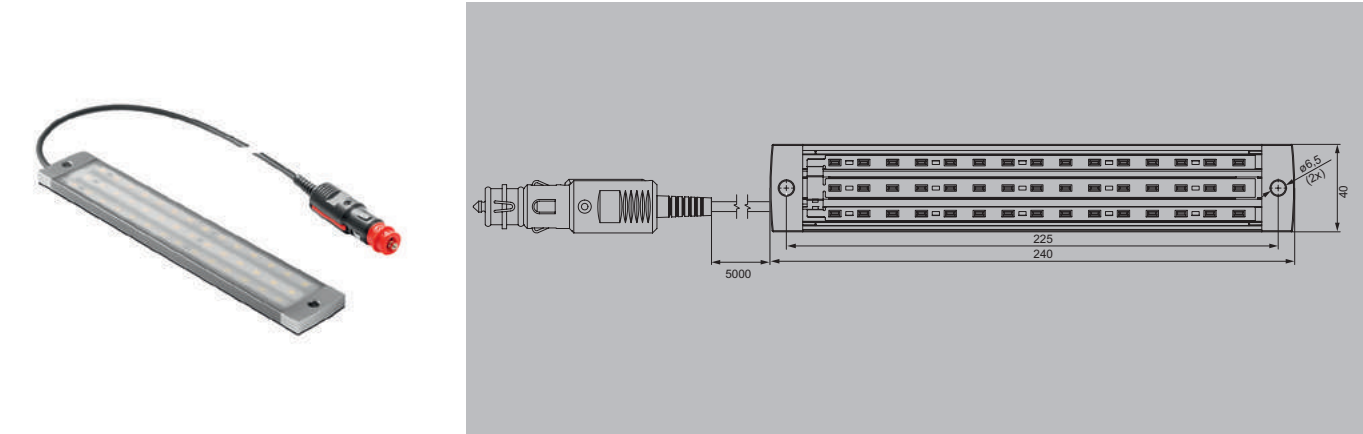
Rated voltage	24 V DC
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	8 mm
Recommended class according to UL for use of an power supply	NEC Class 2
Approvals	CE
Note	Each color (red, green, yellow, white) can be controlled individually or PWM modules can be used to create a mixed color. It should be noted that the total current must not be higher than 1A.

Ordering data

Type	Cable length	Connection thread	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 240 mm									
WIL-LRGBWX-XXXXD024-240SXX0.3BM12GXXXX	0.3 m	M12	8,5 W	0,36 A	760 lm	265 lux	225 mm	1	2635090000
Note									

Special variants

With 12 V car plug



Technical data

Rated voltage	12 V DC
Wiring	
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Height	9.5 mm
Recommended class according to UL for use of an power supply	
Approvals	CE
Sheathing colour	black
Type of mounting	Magnet
Note	

Ordering data

Type	Cable length	Version	Power	Rated current	Light current	Illumination level	Drill hole spacing	Qty.	Order No.
Housing length 240 mm									
WIL-LWXXXX-6500D012-240MFX5.0BCVPXXXX	5 m	Car cigarette lighter	8,5 W	0,70 A	637 lm	220 lux	225 mm	1	2548620000
Note									

Accessories

Motion sensors without cable

Motion sensors with cable



Ordering data

Note

Type	Qty.	Order No.
WIL-BM-SK	1	2537720000

Type	Qty.	Order No.
WIL-BM-SK-M12-3.0U	1	2537700000

Technical data

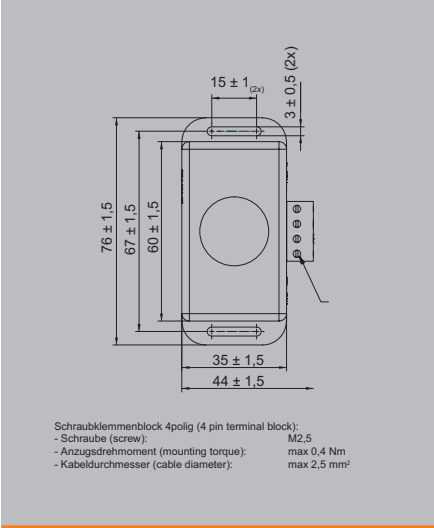
Rated voltage
Rated current
Dwell time, min. / max.
Detection range
Detection area (angle)
Wiring
Protection degree
Depth
Width
Height
Note

24 V DC
< 6.0 A
1...10 min
0...8m / Configurable; No
120 °
PIN 4: + (black), PIN 3: - (blue)
IP20
44 mm
76 mm
33 mm

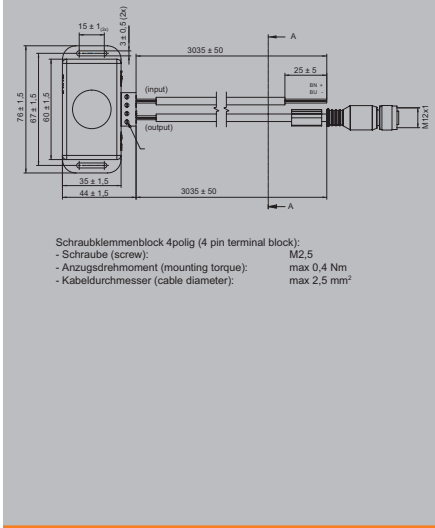
24 V DC
< 6.0 A
1...10 min
0...8m / Configurable; No
120 °
PIN 4: + (black), PIN 3: - (blue)
IP20
44 mm
76 mm
33 mm

G

Dimensioned drawing



Dimensioned drawing



Accessories

Motion sensors with cable

JACKPAC®



Ordering data

Note

Type	Qty.	Order No.
WIL-BM-JP-M12-3.0U	1	2537710000

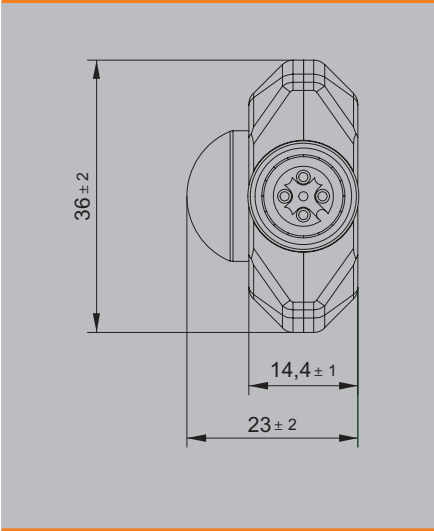
Technical data

Rated voltage
Rated current
Dwell time, min. / max.
Detection range
Detection area (angle)
Wiring
Protection degree
Depth
Width
Height
Note

24 V DC
< 3,0 A
2...360 sec
0.1...7m / Configurable: Yes
110 °
PIN 4: + (black), PIN 3: - (blue)
IP20
36 mm
51 mm
23 mm

G

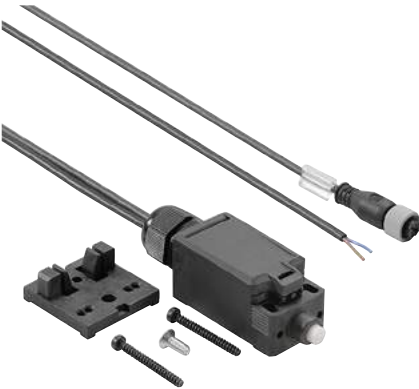
Dimensioned drawing



Accessories

Door switch

Power supply



Ordering data

Type	Qty.	Order No.
WIL-TS-M12	1	2537730000
Note		

Type	Qty.	Order No.
WIL-TS-M12	1	2537730000

Type	Qty.	Order No.
WIL-NT-STANDARD	1	2598350000

Technical data

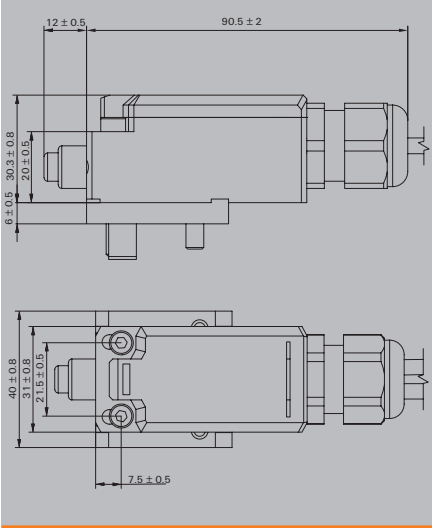
Rated voltage	24 V DC
Rated current	1.5 A
Wiring	PIN 4: + (black), PIN 3: - (blue)
Protection degree	IP67
Depth	40 mm
Width	102.5 mm
Height	36.3 mm
Note	

Rated voltage	24 V DC
Rated current	1.5 A
Wiring	PIN 4: + (black), PIN 3: - (blue)
Protection degree	IP67
Depth	40 mm
Width	102.5 mm
Height	36.3 mm

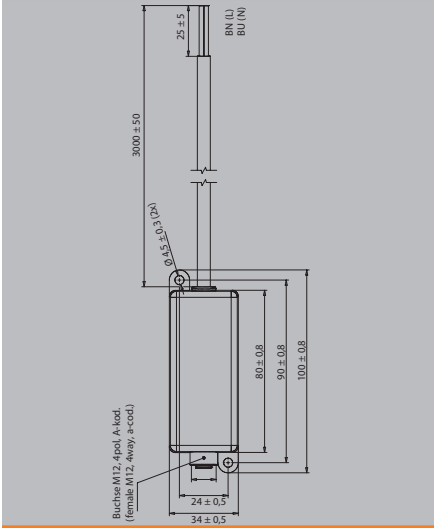
Rated voltage	24 V DC
Rated current	1,10 A
Protection degree	IP65 when locked
Depth	34 mm
Width	100 mm
Height	32 mm
Only suitable for housing lengths 145 mm and 240 mm	

G

Dimensioned drawing



Dimensioned drawing

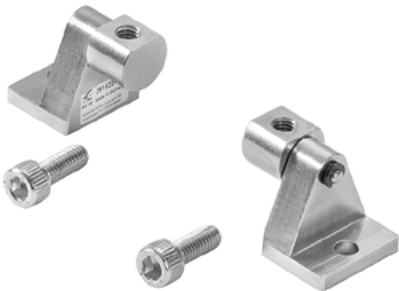


Accessories

Magnet



Swivelling holder



Ordering data

Note

Type	Qty.	Order No.
WIL-MAGNET	1	2526810000

Type	Qty.	Order No.
WIL-SCHWENKHALTER	1	2614220000

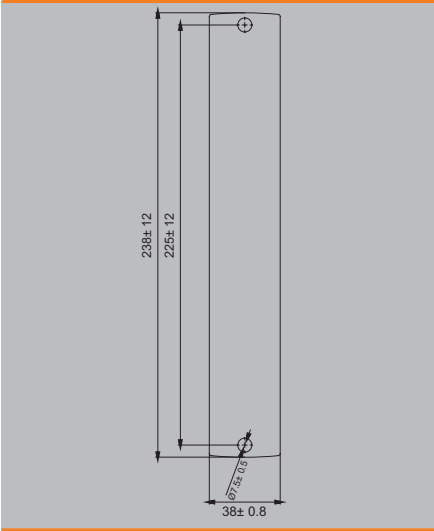
Technical data

Depth
Width
Height
Note

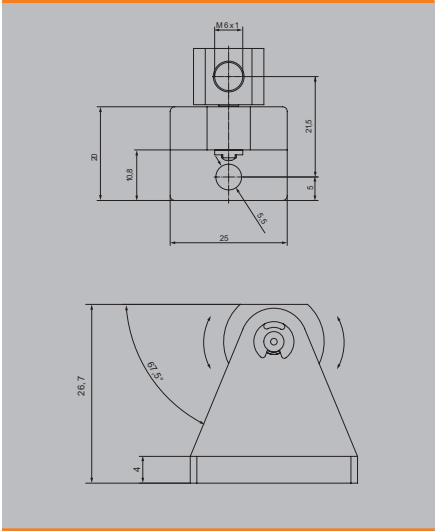
38 mm
238 mm
1.5 mm

20 mm
32.5 mm
26.7 mm

Dimensioned drawing

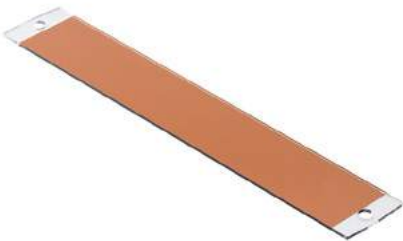


Dimensioned drawing



Accessories

UV filter



Ordering data

Note

Type	Qty.	Order No.
WIL-F-240	4	2799050000

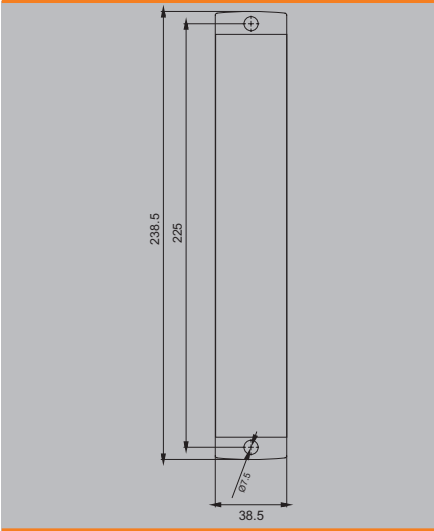
Technical data

Depth
Width
Height
Note

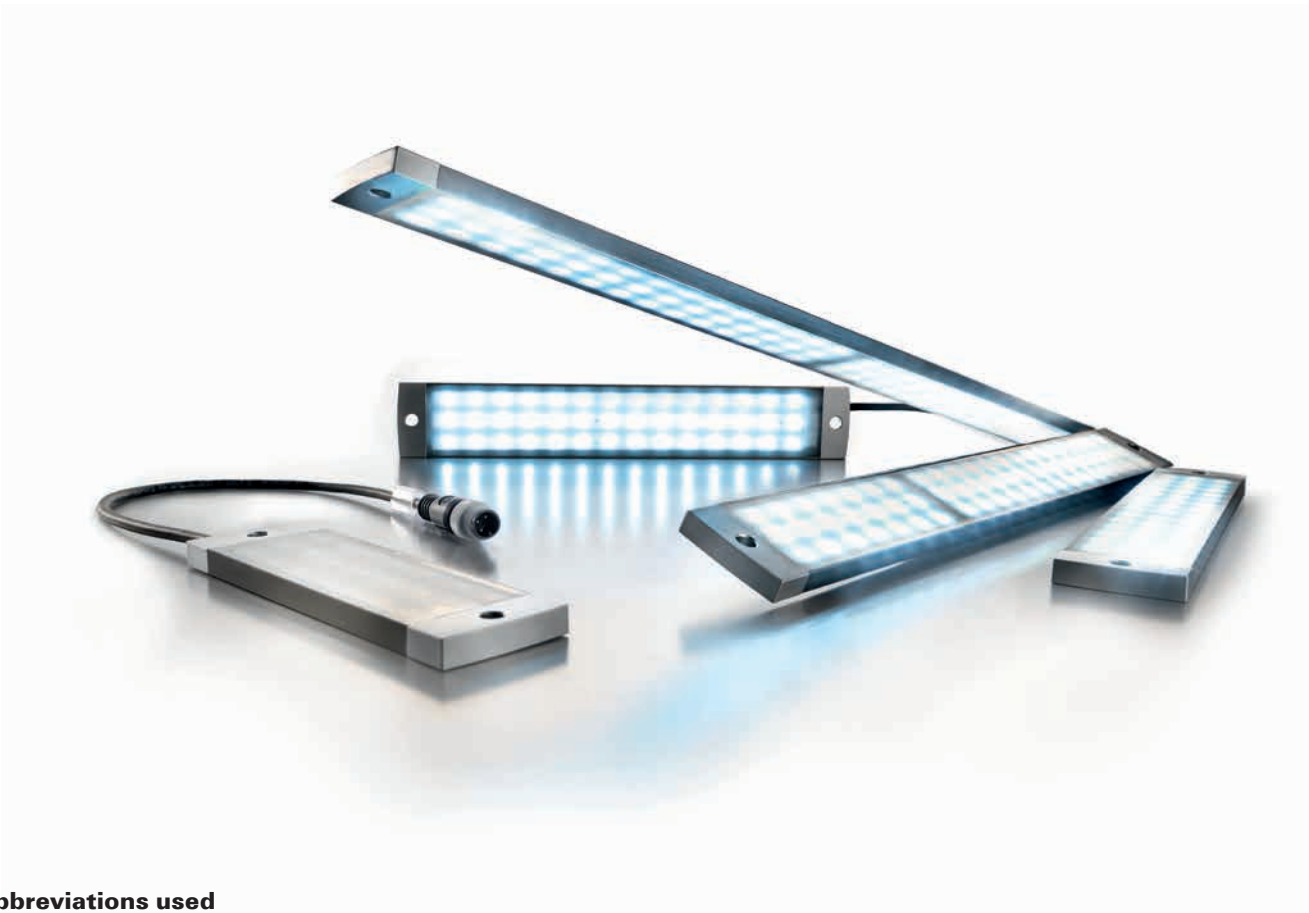
38.5 mm
240 mm
2.2 mm

G

Dimensioned drawing



The WIL family



Abbreviations used

WIL - LRXXXX		- XXXX		D		024	- 450		MF		X5.0		O	M12WM12W			
LWXXXX	LED white	2700	2700 Kelvin	A	AC	012	12 V	145	145 mm	MF	Magnet mounting	X0.3	elec. wire 0.3 m	O	orange wire	M12 GXXXX	M12 male straight
LBXXXX	LED blue	4000	4000 Kelvin	D	DC	024	24 V	240	240 mm	SX	screw mounting	X1.5	elec. wire 1.5 m	B	black wire	M12 GM12G	M12 male straight to M12 female straight
LGXXXX	LED green	5700	5700 Kelvin	...	...	...	...	350	350 mm	MP	magnetic point mounting	X3.0	elec. wire 3.0 m	G	green wire	M12 WXXXX	M12 angled male
LRXXXX	LED red	6500	6500 Kelvin					450	450 mm	CX	clip mounting	X5.0	elec. wire 5.0 m	...	...	M12 GM12W	M12 male straight to M12 female angled
LYXXXX	LED yellow	WXXX	different wavelengths					555	555 mm			10.0	elec. wire 10 m			M12 WM12W	M12 angled male to M12 female angled
LRYGXX	LED (red, yellow, green)	XXXX	place holder					655	655 mm			...				CVPXXXXX	Cigarette vehicle plug
LRGBXX	LED (red, green, blue)	...						765	765 mm							XXXXXXXXXX	open cable end
LRGBWX	LED (red, green, blue, white)							860	860 mm							...	
...																	

LED expertise

Lumen

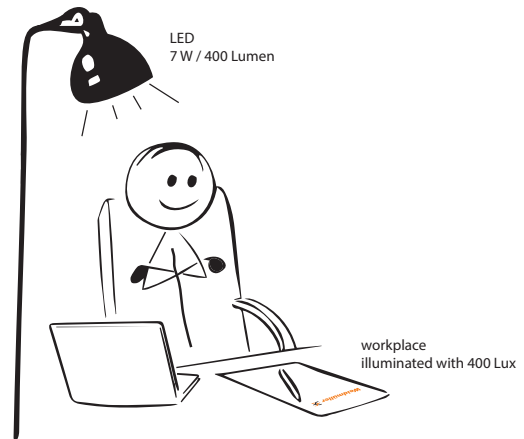
The unit lumen denotes the total light output of a light source.

This light output is called luminous flux. Luminous flux is measured per watt, and is used for the quality assurance of light sources.

Lux

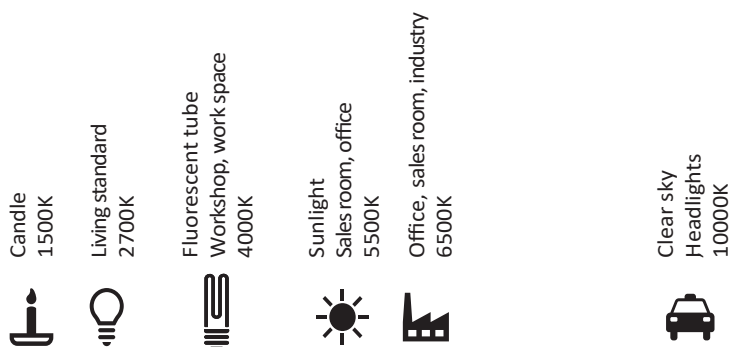
The lux unit is more limited and precise than the lumen unit.

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

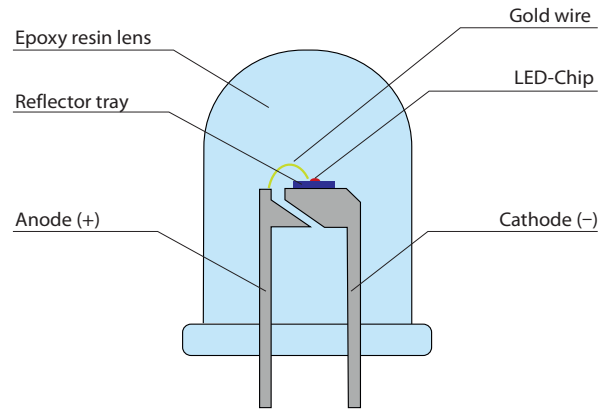
The kelvin unit indicates the colour temperature of a light source. The kelvin value of a lamp indicates whether the lamp emits warm light or cool light. A lamp with a low kelvin value provides warm white light. The higher the kelvin value, the cooler the lighting effect.



Structure of a standard LED vs. an SMD-LED

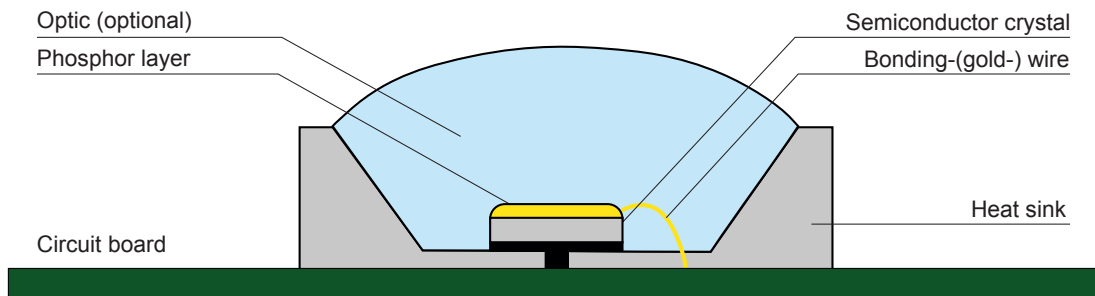
Standard LED

Mostly familiar from hobby applications and model building. It is suitable for smaller setups and hand soldering. It is therefore suitable for manual production in small quantities; it is not suitable for automatic assembly in large quantities and is therefore also unsuitable for higher light production.



SMD LED

The SMD LED is used in industrial applications and therefore also in WIL. It is available as a reel-packaged product, has a significantly flatter design than a standard LED and is therefore suitable for automatic assembly and soldering processes. Due to the flat design, the SMD LED is also optimally suited for casting technology.



What is an RGB LED and what is an RGBW LED?

LEDs are small, powerful lights that are used in many different applications. An RGB LED is a combination of 3 LEDs with different colours:

- 1x red LED
- 1x green LED
- 1x blue LED

By mixing these colours, millions of different colours can be depicted.

RGBW LEDs also have a single-colour white LED which allows them to reproduce a pure/clear white instead of a mixed white.

Our WIL also has this additional possibility to output pure white.

JACKPAC® (IP67)

JACKPAC® (IP67)	JACKPAC® – Overview	H.2
	JACKPAC® relay	H.3
	JACKPAC® timer	H.4
	JACKPAC® signal inverter	H.5
	JACKPAC® galvanic signal separation	H.6
	JACKPAC® Cat. 6 surge protection	H.7
	JACKPAC® test	H.8
	JACKPAC® – General Data and Accessories	H.9
	Empty housing SAI JACKPAC® for custom built-in components	H.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.

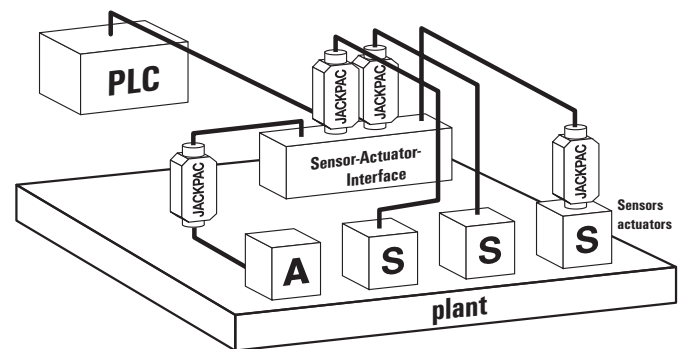
The result is that signal conditioning modules sealed to IP20 require terminal boxes, such as switchgear cabinets, or even cost-intensive special solutions (for example, sensor-actuator distributors with integrated signal-conditioning functions providing as many functions as possible, even when these 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]

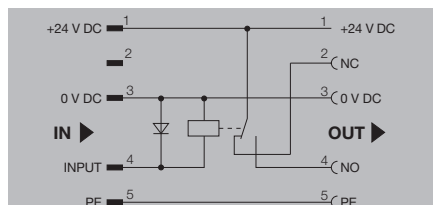
Input
Rated control voltage
Rated current DC
Power rating
Pull-in/drop-out voltage, typ.
Pull-in/drop-out current, typ.
Free-wheel diode
Output
DC switching capacity (resistive), max..
Min. switching power
Contact material
Mechanical service life
Max. switching frequency at rated load
Response time
Insulation 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	mm
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
48 W @ 24 V
1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
AgSnO
10 x 10 ⁶ switching cycles
0.1 Hz
300
III
2
-25 °C...70 °C
-25 °C...70 °C
M12 plug/socket, A-coded
cULus

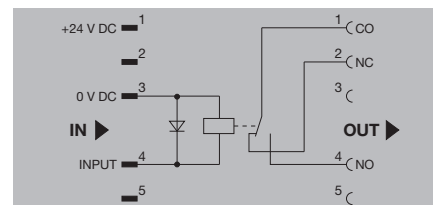
83 / 36 / 14.4
Data for TU = 20 °C

Type	Qty.	Order No.
JPR 24VDC 1CO M12	1	8771420000

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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
48 W @ 24 V
1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
AgSnO
10×10^6 switching cycles
0.1 Hz
300
III
2
-25 °C...70 °C
-25 °C...70 °C
M12 plug/socket, A-coded
cULus

83 / 36 / 14.4
Data for TU = 20 °C

Type	Qty.	Order No.
JPR 24VDC ISO 1CO M12	1	8771430000

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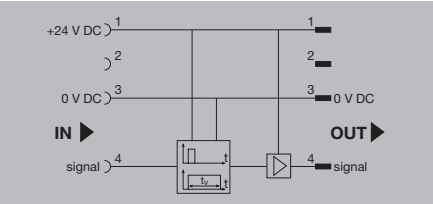
Retaining clip
JP CLIP M: 8778490000

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.

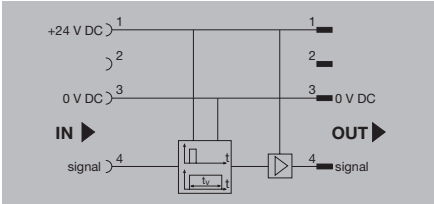
JPTA 50 MS 24VDC PNP M12

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; EAC

Type	Qty.	Order No.
JPTA 50MS 24VDC PNP M12	1	8771440000

Type	Qty.	Order No.
JPTA100MS 24VDC PNP M12	1	8836630000

Dimensions	
Clamping range (nominal / min. / max.)	
Length x width x height	83 / 36 / 14.4
Note	

Length x width x height	83 / 36 / 14.4

Length x width x height	83 / 36 / 14.4

Ordering data

Type	Qty.
JPTA 50MS 24VDC PNP M12	1
Note	

Type	Qty.	Order No.
JPTA 50MS 24VDC PNP M12	1	8771440000

Type	Qty.	Order No.
JPTA100MS 24VDC PNP M12	1	8836630000

Accessories

Note	
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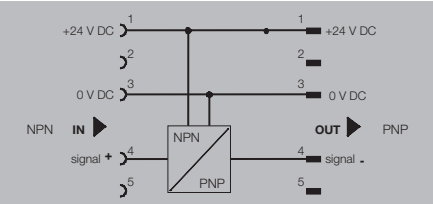
Retaining clip	
JP CLIP M: 8778490000	

Retaining clip	
JP CLIP M: 8778490000	

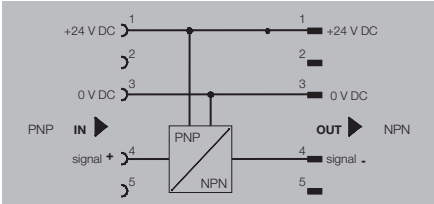
Signal inverter

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
I
2
0 °C...60 °C
-20 °C...85 °C
M12 plug/socket, A-coded
cULus

2-/ 3-Conductor Sensor PNP-Type
18...24...30 V DC
< 200 mA
NO contact
Solid state relay
18...30 V DC
400 mA
32 V
I
2
0 °C...60 °C
-20 °C...85 °C
M12 plug/socket, A-coded
CE; cULus

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

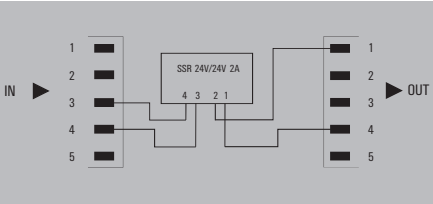
Retaining clip JP CLIP M: 8778490000

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	

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

Dimensions	
Clamping range (nominal / min. / max.)	
Length x width x height	mm
93 / 36 / 14.4	
Note	
Length of connected cable smaller than 30 m	

Ordering data

Type	Qty.	Order No.
JPO 24VDC 0.2A M12S	1	2465830000
Note		

Accessories

Note
Retaining clip JP GLIP M: 8778490000

Type	Qty.	Order No.
JPO 24VDC 0.2A M12S	1	2465830000

Note

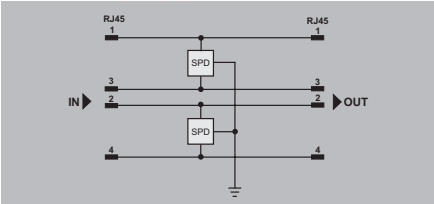
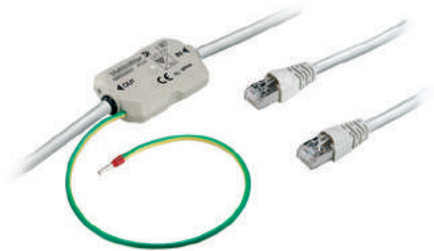
Note
Retaining clip JP GLIP M: 8778490000

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

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

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

Note	

Type	Qty.	Order No.
JPOVP RJ45 CAT6 IP20	1	8805550000

Accessories

Note

Retaining clip JP GLIP M 8778490000
--

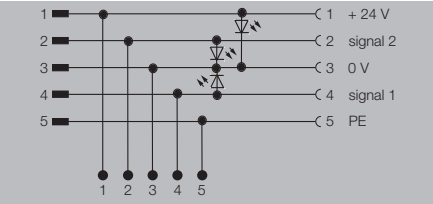
JACKPAC® test

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	18...24...30 V DC
Rated current DC	2.2 mA (LED)
Status indicator	Green LED
Output	
Continuous current	2 A
Power	2.2 mA at 24 V
General data	
Ambient temperature (operational)	...
Storage temperature	-25 °C...70 °C
Wire connection method	M12 plug/socket, A-coded
Approvals	CE

	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	

Dimensions	
Clamping range (nominal / min. / max.)	
Length x width x height	mm
Note	

83 / 36 / 14.4

Ordering data

Note	

Type	Qty.	Order No.
JP TEST	1	8794120000

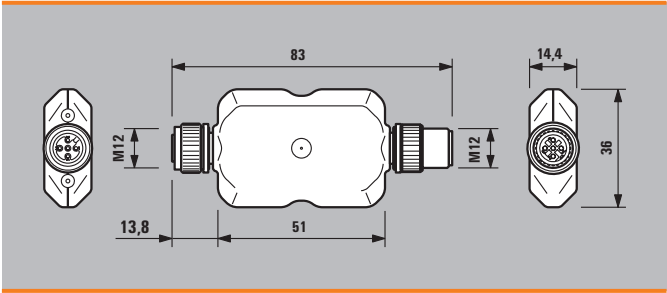
Accessories

Note

Retaining clip JP GLIP M: 8778490000

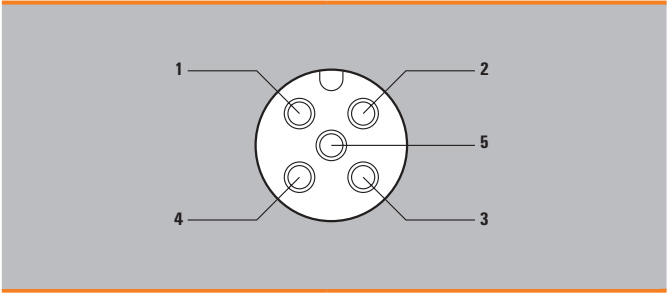
General data

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 JP CLIP M	1	8778490000

Y-distributor



Type	Qty.	Order No.
5-pole SAI-Y-5S PARA M12/M12	1	1783430000

Screwty® M12



Type	Qty.	Order No.
With torque SCREWTY M12 DM	1	1900001000

Sensor cables



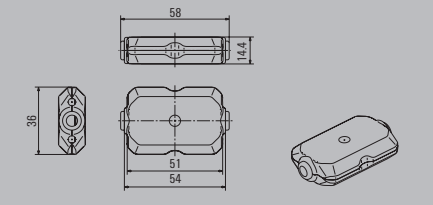
Type	Qty.	Order No.
4-pole, length 0.3 m SAIL-M12G-M12G-4-0.3U	1	1906300030
4-pole, length 0.6 m SAIL-M12G-M12G-4-0.6U	1	1906300050
4-pole, length 1.5 m SAIL-M12G-M12G-4-1.5U	1	1906300150
5-pole, length 0.3 m SAIL-M12G-M12G-5-0.3U	1	9457340030
5-pole, length 0.6 m SAIL-M12G-M12G-5-0.6U	1	9457340060
5-pole, length 1.5 m SAIL-M12G-M12G-5-1.5U	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

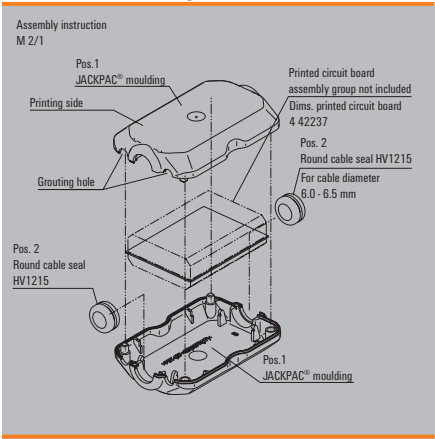


Technical data

General data	
Temperature range	
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

Housing with M12 connectors	
Contents	1 piece
	1 piece
	100 pieces
	100 pieces

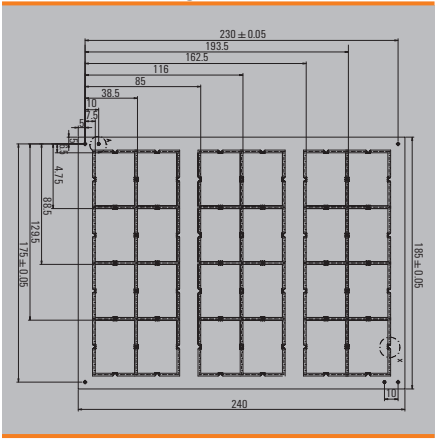
Type	No. of poles	Qty.	Order No.
SAI JP 4P LG	4	1	1915220000
SAI JP 5P LG	5	1	1918520000
SAI JP 4P LG 100	4	1	8794090000
SAI JP 5P LG 100	5	1	8794080000

Note	
------	--

Housing without M12 connectors SAI JP FC SET 1933680000
1 Qty. = 100 pieces

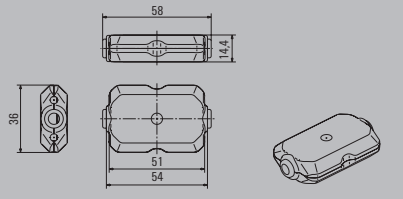
Accessories

Dimensioned drawing, PCBs



Empty housing SAI JACKPAC® for custom built-in components

SAI JP



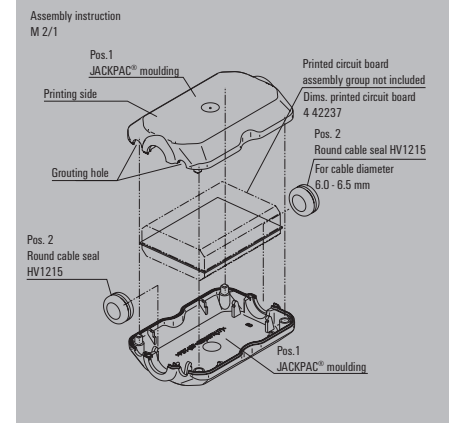
Technical data

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

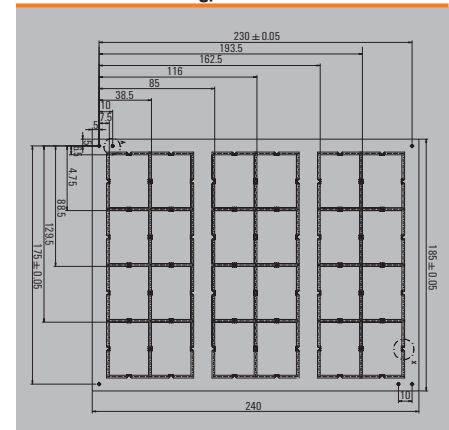
Without M12 plug connector with seal	100 pieces
Without M12 plug connector without seal	100 pieces
Mit/With M12 male connector, seal and retaining clip	100 pieces

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



Device connectors

Device connectors	Introduction	I.2
	Quick finder	I.4
	Device connectors	I.6

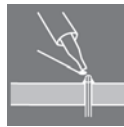
M8 and M12 PCB connectors

Today, PCB connectors are used in many areas of mechanical engineering. They are used anywhere where harsh environmental conditions require a device design with especially reliable connections.

All of the components in the M8 and M12 plug-in connector series are perfectly coordinated to one another, making design and assembly significantly easier.

Benefits of our PCB connectors:

- M8 and M12 versions available
- Different variants for different soldering processes
- Front and back panel mounting
- One and two-part variants





SAI lines are the perfect complement

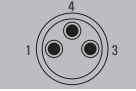
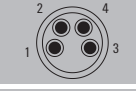
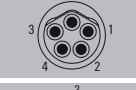
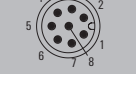
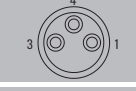
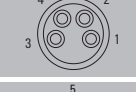
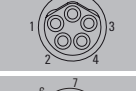
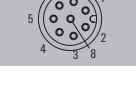
At Weidmüller, you will find a wide range of complementary products in the form of lines and customisable plug-in connectors for field wiring.



Quick finder

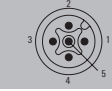
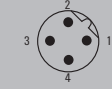
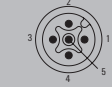
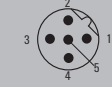
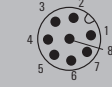
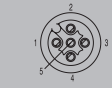
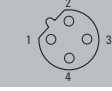
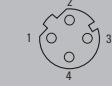
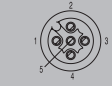
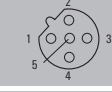
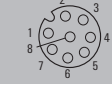
Quick finder for dome and
Flange-mounted housing

Flange-mounted housing M8							
Screw-in threads M10				Screw-in threads M12			
Coupling housing		Plug housing		Coupling housing		Plug housing	
Height	Height	Height	Height	Height	Height	Height	Height
9 mm	13 mm	9 mm	13 mm	6 mm	10 mm	6 mm	10 mm
							

Mating profile	No. of poles	M8 Dom	2424430000	2424460000	2424520000	2424530000	2424480000	2424500000	2424540000	2424550000
M8 plug		3-pole	2421750000		X	X			X	X
		3-pole with shielding	2421810000		X	X			X	X
		4-pole	2421870000		X	X			X	X
		4-pole with shielding	2421930000		X	X			X	X
		B-coded, 5-pole	2421990000		X	X			X	X
		B-coded, 5-pole with shielding	2422050000		X	X			X	X
		8-pole	2422110000		X	X			X	X
		8-pole with shielding	2422170000		X	X			X	X
M8 socket		3-pole	2421720000	X	X		X	X		
		3-pole with shielding	2421780000	X	X		X	X		
		4-pole	2421840000	X	X		X	X		
		4-pole with shielding	2421900000	X	X		X	X		
		B-coded, 5-pole	2421960000	X	X		X	X		
		B-coded, 5-pole with shielding	2422020000	X	X		X	X		
		8-pole	2422080000	X	X		X	X		
		8-pole with shielding	2422140000	X	X		X	X		
Possible locknut			2424560000				2424570000			

Note: The M8/M12 flange-mounted housing and dome can be found on the following pages.

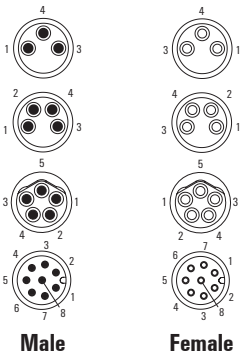


	Mating profile	No. of poles	M12 Dom	2423920000	2423950000	2423980000
M12 plug		4-pole	2422540000			X
		4-pole with shielding	2423500000			X
		B-coded, 4-pole with shielding	2422720000			X
						X
		5-pole	2422600000			X
		5-pole with shielding	2422560000			X
M12 socket		B-coded, 5-pole with shielding	2422780000			X
						X
		8-pole	2422420000			X
		8-pole with shielding	2423620000			X
M12 socket		4-pole	2422060000	X	X	
		4-pole with shielding	2422180000	X	X	
		B-coded, 4-pole with shielding	2422840000	X	X	
				X	X	
		D-coded, 4-pole with shielding	2422960000	X	X	
				X	X	
		5-pole	2422120000	X	X	
		5-pole with shielding	2422240000	X	X	
		B-coded, 5-pole with shielding	2422900000	X	X	
				X	X	
		8-pole	2422480000	X	X	
		8-pole with shielding	2423380000	X	X	
Possible locknut				2424010000		

Note: The M8/M12 flange-mounted housing and dome can be found on the following pages.

Device connectors

M8
Dip solder
one-piece



Rear panel mounting

Board-to-board distance: 5.5 mm



Ordering data

Male, straight	
3-pole	
4-pole	
B-coded, 5-pole	
8-pole	
Female, straight	
4-pole	
B-coded, 5-pole	
8-pole	
Note	

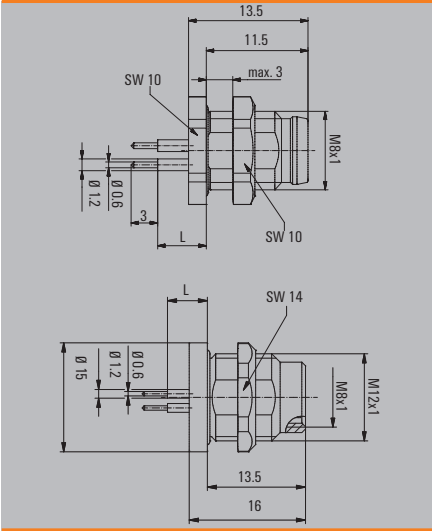
Type	Qty.	Order No.
SAIE-M8S-3-H5.5TL	10	2421570000
SAIE-M8S-4-H5.5TL	10	2421580000
SAIE-M8S-5B-H5.5TL	10	2421590000
SAIE-M8S-8-H5.5TL	10	2421690000
SAIE-M8B-4-H5.5TL	10	2421610000
SAIE-M8B-5B-H5.5TL	10	2421630000
SAIE-M8B-8-H5.5TL	10	2421650000

Technical data

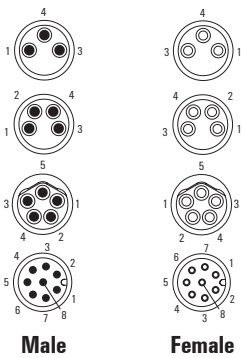
Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
Pin: M8 / Socket: M12
0.8 Nm

Dimensioned drawing



M8, dip solder
two-piece
shielded



Ordering data

Male, straight	3-pole
	4-pole
Female, straight	4-pole
	5-pole
	8-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting

Board-to-board distance: 6 mm



Type	Qty.	Order No.
SAIE-M8S-3S-H6TL	25	2423490000
SAIE-M8S-4S-H6TL	25	2423610000
SAIE-M8B-5S-H6TL	25	2423700000
SAIE-M8B-8S-H6TL	25	2423400000

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
Pin: M8 / Socket: M12
0.8 Nm

Rear panel mounting

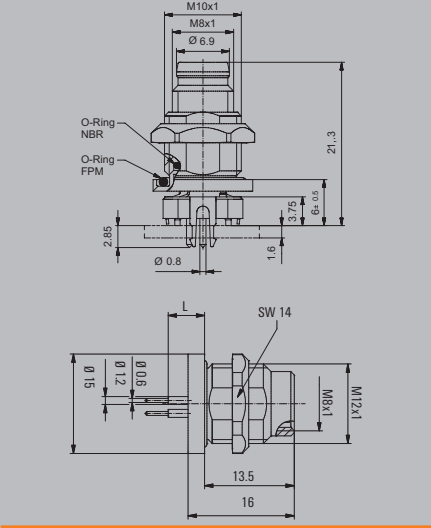
Board-to-board distance: 10 mm



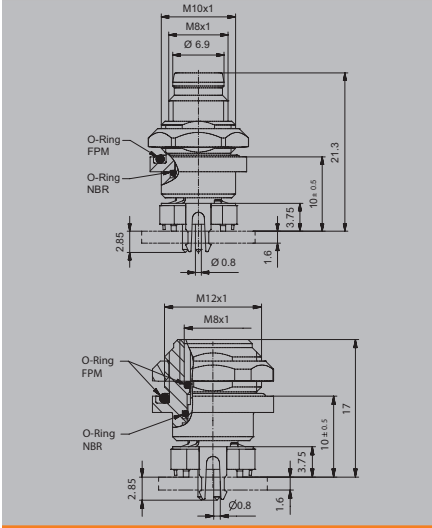
Type	Qty.	Order No.
SAIE-M8S-3S-H10TL	25	2423520000
SAIE-M8S-4S-H10TL	25	2423640000
SAIE-M8B-4S-H10TL	25	2423580000
SAIE-M8B-8S-H10TL	25	2423730000

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
Pin: M8 / Socket: M12
0.8 Nm

Dimensioned drawing

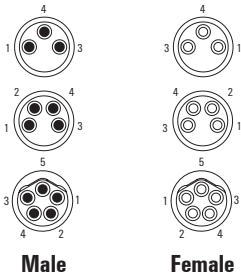


Dimensioned drawing



Device connectors

M8, dip solder
two-piece
shielded



Ordering data

Male, straight	3-pole
Female, straight	4-pole
	5-pole
Note	

Technical data

Rated voltage	60 V (3-pole) / 30 V (4,5- and 8-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

Front mounting

Board-to-board distance: 9 mm



Type	Qty.	Order No.
SAIE-M8S-3S-F9TL	25	2423430000
SAIE-M8B-4S-F9TL	25	2423550000

Rated voltage	60 V (3-pole) / 30 V (4,5- and 8-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

Front mounting

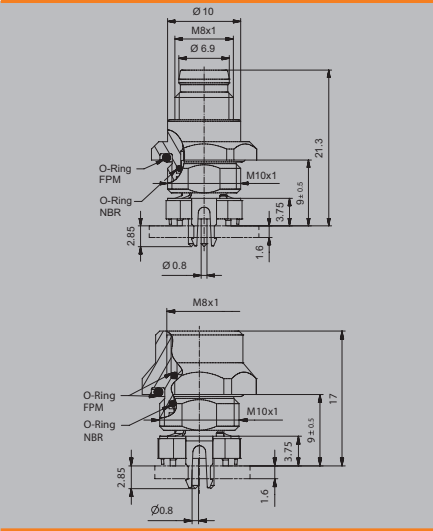
Board-to-board distance: 13 mm



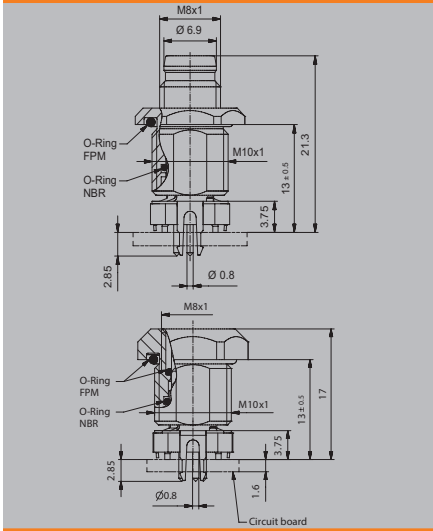
Type	Qty.	Order No.
SAIE-M8S-3S-F13TL	25	2423460000
SAIE-M8B-5S-F13TL	25	2423670000

Rated voltage	60 V (3-pole) / 30 V (4,5- and 8-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

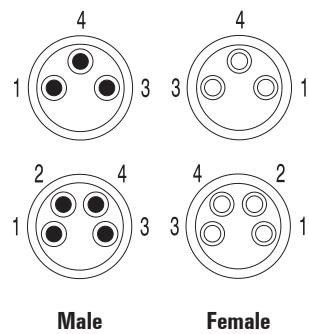
Dimensioned drawing



Dimensioned drawing



M8
Dip solder
two-piece
shielded



Ordering data

Male, angled	3-pole
	4-pole
Female, angled	3-pole
	4-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting

Board-to-board distance: 8 mm



Type	Qty.	Order No.
SAIEW-M8S-3S-H8TL	10	2424300000
SAIEW-M8S-4S-H8TL	10	2424420000
SAIEW-M8B-3S-H8TL	10	2424250000
SAIEW-M8B-4S-H8TL	10	2424360000

60 V (3-pole) / 30 V (4-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
Pin: M8 / Socket: M12
0.8 Nm

Rear panel mounting

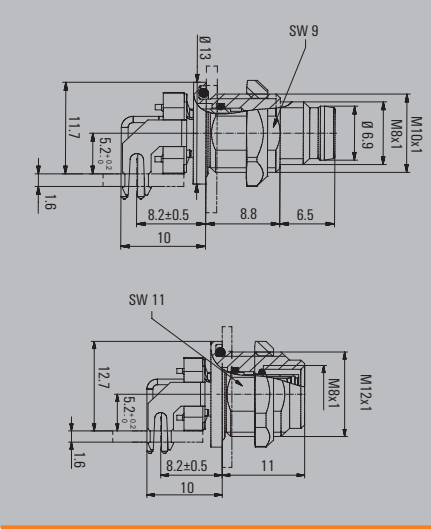
Board-to-board distance: 12 mm



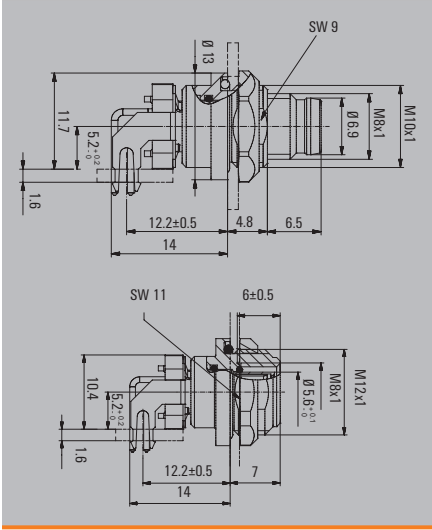
Type	Qty.	Order No.
SAIEW-M8S-3S-H12TL	10	2424330000
SAIEW-M8S-4S-H12TL	10	2424450000
SAIEW-M8B-3S-H12TL	10	2424280000
SAIEW-M8B-4S-H12TL	10	2424390000

60 V (3-pole) / 30 V (4-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
Pin: M8 / Socket: M12
0.8 Nm

Dimensioned drawing

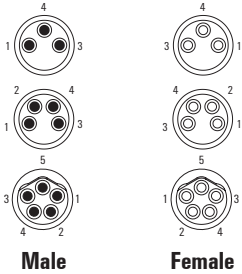


Dimensioned drawing



Device connectors

M8
THR
two-piece



Ordering data

Male, straight	3-pole
	4-pole
Female, straight	3-pole
	5-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Front mounting

Board-to-board distance: 9 mm



Type	Qty.	Order No.
SAIE-M8S-3-F9THR	25	2422860000
SAIE-M8S-4-F9THR	25	2423070000
SAIE-M8B-3-F9THR	25	2422800000
SAIE-M8B-5-F9THR	25	2423250000

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
M10
0.8 Nm

Front mounting

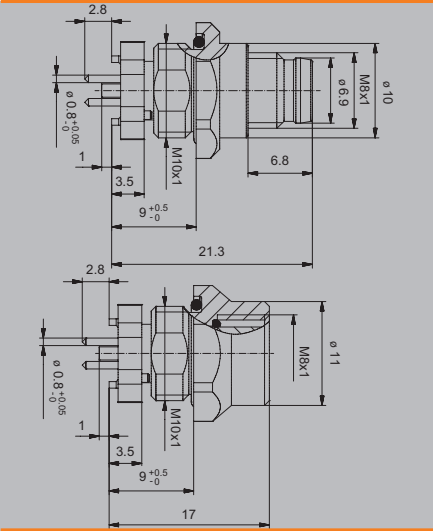
Board-to-board distance: 13 mm



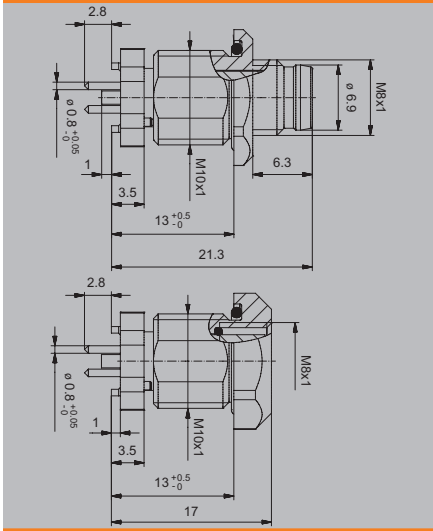
Type	Qty.	Order No.
SAIE-M8S-3-F13THR	25	2422890000
SAIE-M8S-4-F13THR	25	2423100000
SAIE-M8B-3-F13THR	25	2422830000
SAIE-M8B-5-F13THR	25	2423280000

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
M10
0.8 Nm

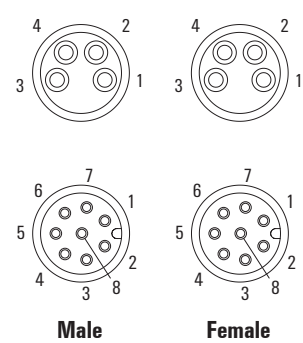
Dimensioned drawing



Dimensioned drawing



M8
THR
two-piece



Ordering data

Male, straight	4-pole
Female, straight	4-pole
	8-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting

Board-to-board distance: 6 mm



Rear panel mounting, shielded

Board-to-board distance: 10 mm



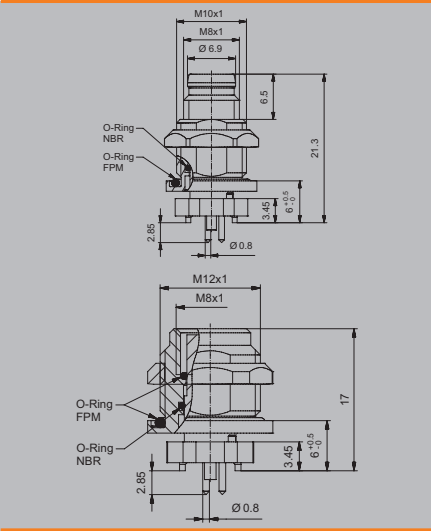
Type	Qty.	Order No.
SAIE-M8S-4-H6THR	25	2423130000
SAIE-M8B-4-H6THR	25	2422980000

30 V
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
Pin: M10 / Socket: M12
0.8 Nm

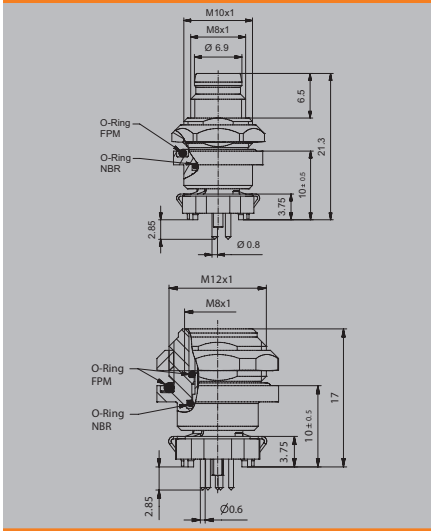
Type	Qty.	Order No.
SAIE-M8S-4S-H10THR	25	2423220000
SAIE-M8B-8S-H10THR	25	2423370000

30 V
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
Pin: M10 / Socket: M12
0.8 Nm

Dimensioned drawing

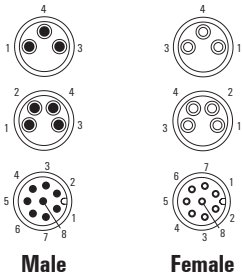


Dimensioned drawing



Device connectors

M8
THR
two-piece
shielded



Ordering data

Male, straight	3-pole
	4-pole
Female, straight	4-pole
	8-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Front mounting

Board-to-board distance: 9 mm



Type	Qty.	Order No.
SAIE-M8S-3S-F9THR	25	2422920000
SAIE-M8S-4S-F9THR	25	2423160000
SAIE-M8B-4S-F9THR	25	2423010000
SAIE-M8B-8S-F9THR	25	2423310000

60 V (3-pole) / 30 V (4-,5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
M10
0.8 Nm

Front mounting

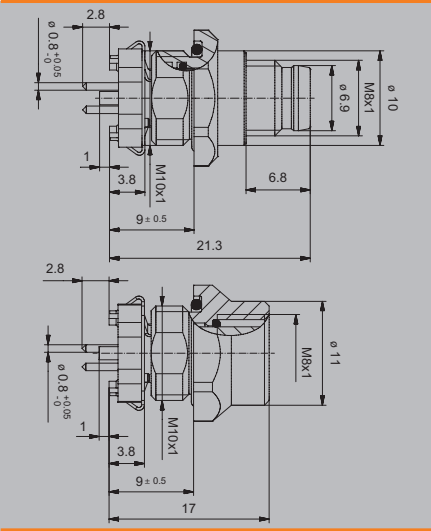
Board-to-board distance: 13 mm



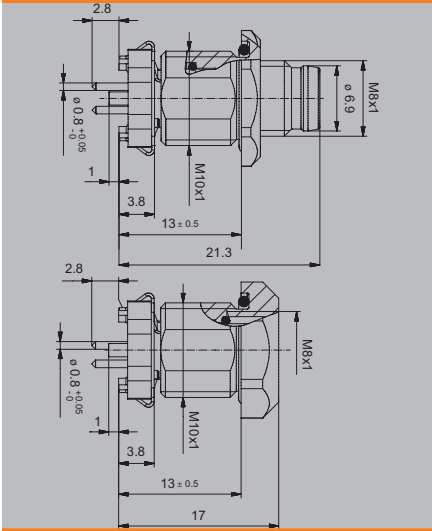
Type	Qty.	Order No.
SAIE-M8S-3S-F13THR	25	2422950000
SAIE-M8B-4S-F13THR	25	2423040000
SAIE-M8B-8S-F13THR	25	2423340000

60 V (3-pole) / 30 V (4-,5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
M10
0.8 Nm

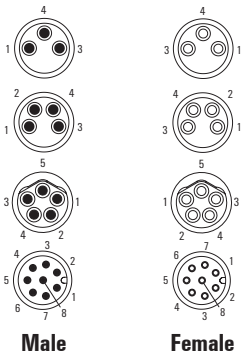
Dimensioned drawing



Dimensioned drawing



M8
THR
DOM



Ordering data

Male, straight	
3-pole	
4-pole	
5-pole	
8-pole	
Female, straight	
3-pole	
4-pole	
5-pole	
8-pole	
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Unshielded



Shielded



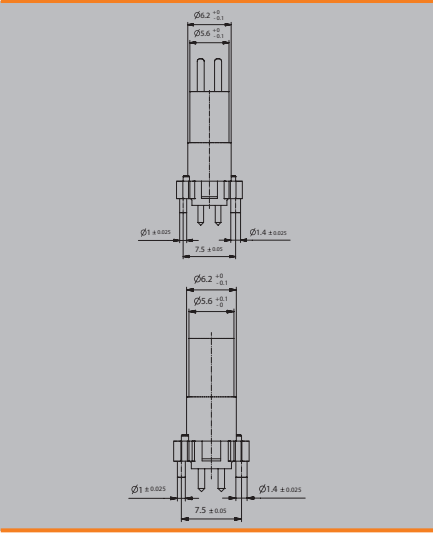
Type	Qty.	Order No.
SAID-M8S-3-THR	25	2423790000
SAID-M8S-4-THR	25	2423910000
SAID-M8S-5-THR	25	2424030000
SAID-M8S-8-THR	25	2424150000
SAID-M8B-3-THR	25	2423760000
SAID-M8B-4-THR	25	2423880000
SAID-M8B-5-THR	25	2424000000
SAID-M8B-8-THR	25	2424130000

Type	Qty.	Order No.
SAID-M8S-3S-THR	25	2423850000
SAID-M8S-4S-THR	25	2423970000
SAID-M8S-5S-THR	25	2424090000
SAID-M8S-8S-THR	25	2424220000
SAID-M8B-3S-THR	25	2423820000
SAID-M8B-4S-THR	25	2423940000
SAID-M8B-5S-THR	25	2424060000
SAID-M8B-8S-THR	25	2424190000

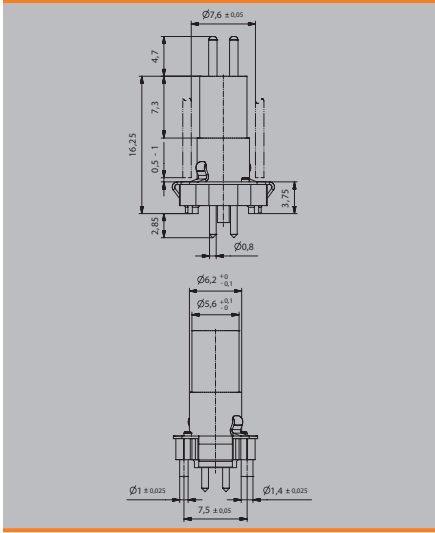
60 V (3-pole) / 30 V (4-,5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-25...95 °C
IP67
Au (Gold)
LCP
M8
M8: 0.5 Nm

60 V (3-pole) / 30 V (4-,5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-25...95 °C
IP67
Au (Gold)
LCP
M8
M8: 0.5 Nm

Dimensioned drawing

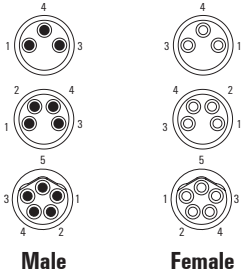


Dimensioned drawing



Device connectors

M8
SMT
two-piece



Ordering data

Male, straight	3-pole
	4-pole
Female, straight	3-pole
	5-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Front mounting

Board-to-board distance: 9 mm



Type	Qty.	Order No.
SAIE-M8S-3-F9SMT	25	2422260000
SAIE-M8S-4-F9SMT	25	2422470000
SAIE-M8B-3-F9SMT	25	2422200000
SAIE-M8B-5-F9SMT	25	2422650000

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
M10
0.8 Nm

Front mounting

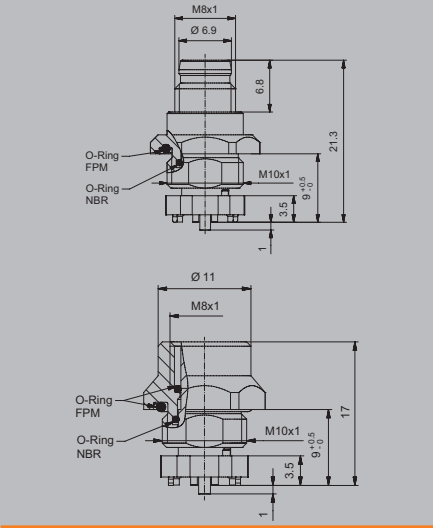
Board-to-board distance: 13 mm



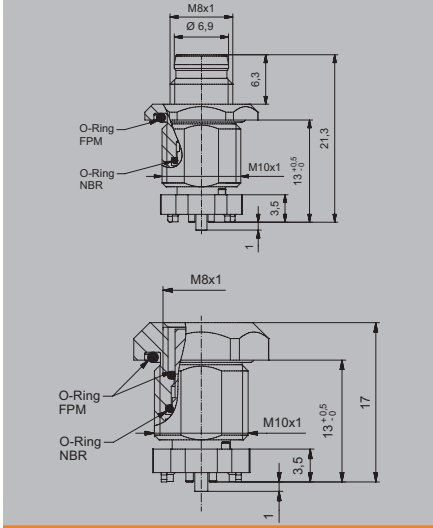
Type	Qty.	Order No.
SAIE-M8S-3-F13SMT	25	2422290000
SAIE-M8S-4-F13SMT	25	2422500000
SAIE-M8B-3-F13SMT	25	2422230000
SAIE-M8B-5-F13SMT	25	2422680000

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
M10
0.8 Nm

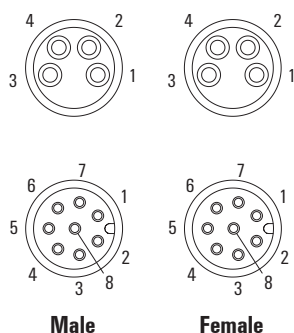
Dimensioned drawing



Dimensioned drawing



**M8
SMT
two-piece**



Ordering data

Male, straight	4-pole
Female, straight	4-pole
	8-pole
Note	

Technical data

- Rated voltage
- Rated current
- Temperature range
- Protection degree
- Contact surface
- Housing main material
- Connection thread
- Tightening torque
- Mounting thread
- Mounting torque range

Note

Rear panel mounting

Board-to-board distance: 6 mm



Type	Qty.	Order No.
SAIE-M8S-4-H6SMT	25	2422530000
SAIE-M8B-4-H6SMT	25	2422380000

30 V
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
M10
0.8 Nm

Rear panel mounting, shielded

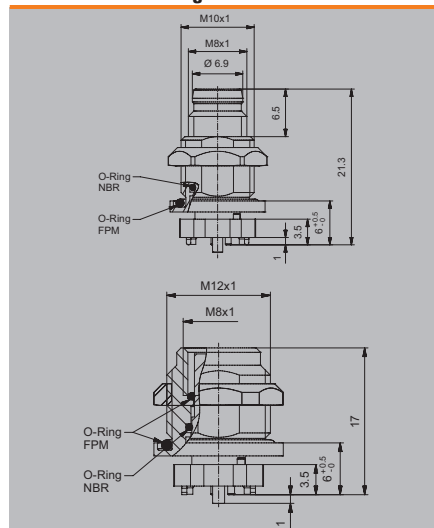
Board-to-board distance: 10 mm



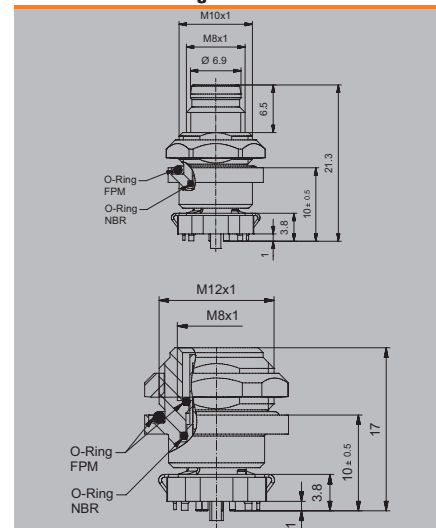
Type	Qty.	Order No.
SAIE-M8S-4S-H10SMT	25	2422620000
SAIE-M8B-8S-H10SMT	25	2422770000

30 V
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
M10
0.8 Nm

Dimensioned drawing

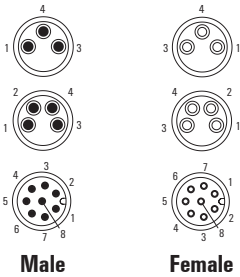


Dimensioned drawing



Device connectors

M8
SMT
two-piece
shielded



Ordering data

Male, straight	3-pole
	4-pole
Female, straight	4-pole
	8-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range

Note

Front mounting

Board-to-board distance: 9 mm



Type	Qty.	Order No.
SAIE-M8S-3S-F9SMT	25	2422320000
SAIE-M8S-4S-F9SMT	25	2422560000
SAIE-M8B-4S-F9SMT	25	2422410000
SAIE-M8B-8S-F9SMT	25	2422710000

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
M10
0.8 Nm

Front mounting

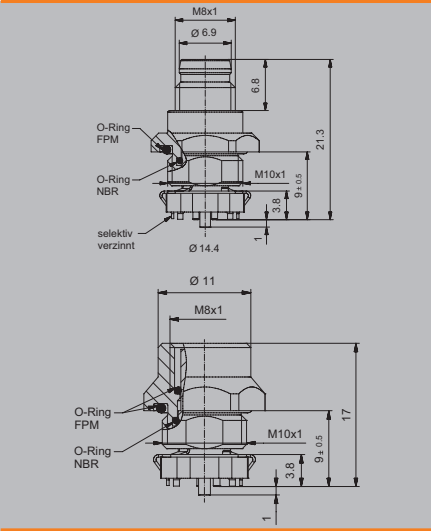
Board-to-board distance: 13 mm



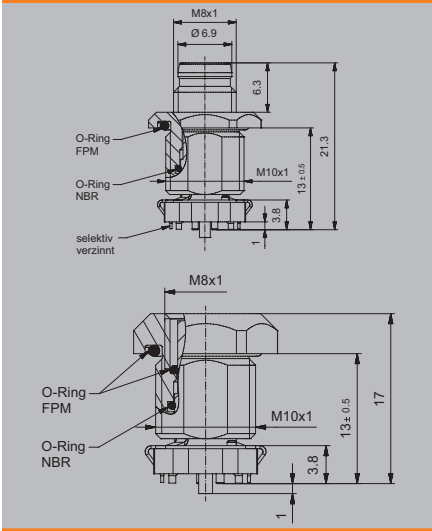
Type	Qty.	Order No.
SAIE-M8S-3S-F13SMT	25	2422350000
SAIE-M8S-4S-F13SMT	25	2422590000
SAIE-M8B-4S-F13SMT	25	2422440000
SAIE-M8B-8S-F13SMT	25	2422740000

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
M10
0.8 Nm

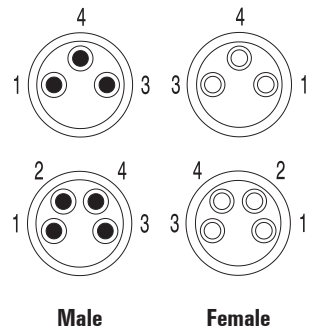
Dimensioned drawing



Dimensioned drawing



M8
SMT
DOM



Ordering data

Male, straight	
3-pole	
4-pole	
5-pole	
8-pole	
Female, straight	
3-pole	
4-pole	
5-pole	
8-pole	
Note	

Technical data

Rated voltage	
Rated current	
Temperature range	
Protection degree	
Contact surface	
Housing main material	
Connection thread	
Tightening torque	
Mounting thread	
Mounting torque range	
Note	

Unshielded



Type	Qty.	Order No.
SAID-M8S-3-SMT	25	2421750000
SAID-M8S-4-SMT	25	2421870000
SAID-M8S-5-SMT	25	2421990000
SAID-M8S-8-SMT	25	2422110000
SAID-M8B-3-SMT	25	2421720000
SAID-M8B-4-SMT	25	2421840000
SAID-M8B-5-SMT	25	2421960000
SAID-M8B-8-SMT	25	2422080000

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-25...95 °C
IP67
Au (Gold)
LCP
M8
M8: 0.5 Nm

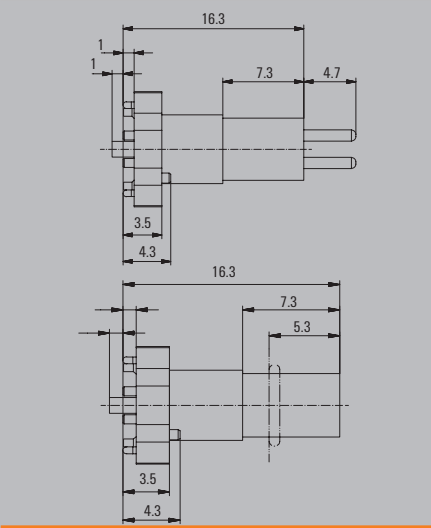
Shielded



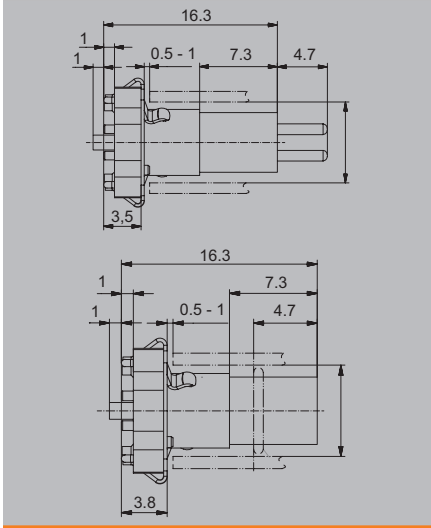
Type	Qty.	Order No.
SAID-M8S-3S-SMT	25	2421810000
SAID-M8S-4S-SMT	25	2421930000
SAID-M8S-5S-SMT	25	2422050000
SAID-M8S-8S-SMT	25	2422170000
SAID-M8B-3S-SMT	25	2421780000
SAID-M8B-4S-SMT	25	2421900000
SAID-M8B-5S-SMT	25	2422020000
SAID-M8B-8S-SMT	25	2422140000

60 V (3-pole) / 30 V (4-, 5- and 8-pole)
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-25...95 °C
IP67
Au (Gold)
LCP
M8
M8: 0.5 Nm

Dimensioned drawing



Dimensioned drawing

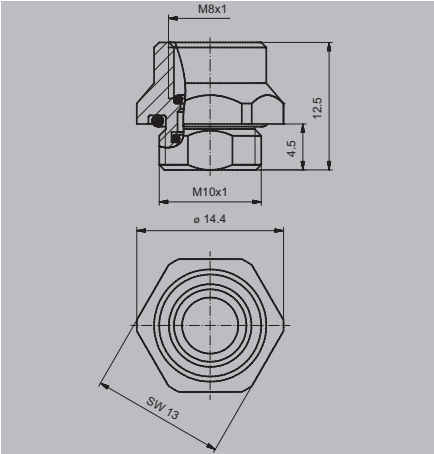


Device connectors

M8
Flange-mounted housing
Hexagon nut

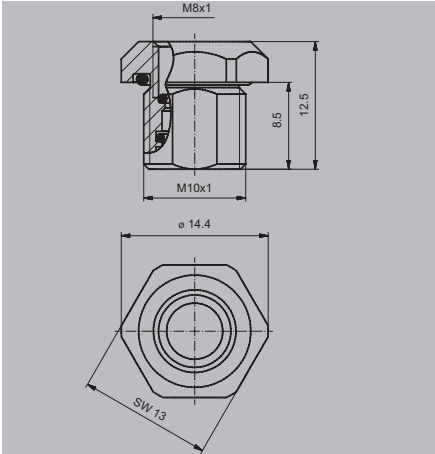
Coupling

M10 height: 9 mm



Coupling

M10 height: 13 mm



Technical data

Housing main material
Housing surface
Seal material

CuZn
nickel-plated
FPM, NBR

CuZn
nickel-plated
FPM, NBR

Note

Ordering data

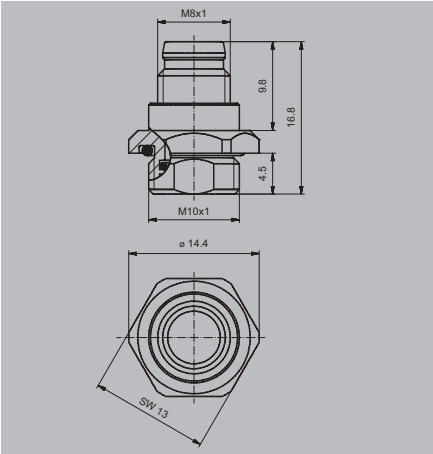
Type	Qty.	Order No.
SAIFG-M8B-M10-9	25	2424430000

Type	Qty.	Order No.
SAIFG-M8B-M10-13	25	2424460000

Note

Plug connector

M10 height: 9 mm



CuZn
nickel-plated
FPM, NBR

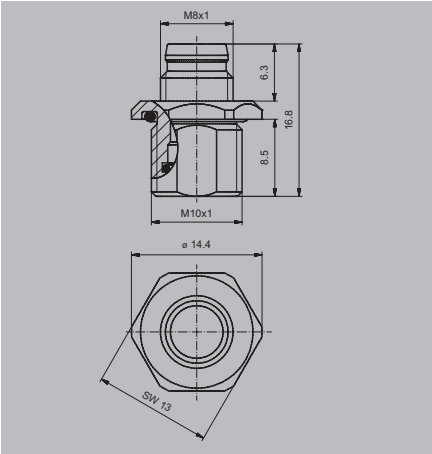


Type	Qty.	Order No.
SAIFG-M8S-M10-9	25	2424520000



Plug connector

M10 height: 13 mm



CuZn
nickel-plated
FPM, NBR

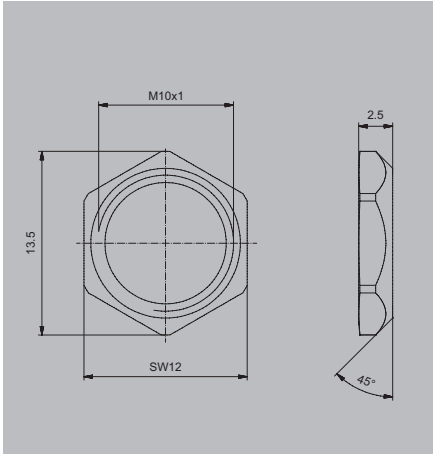


Type	Qty.	Order No.
SAIFG-M8S-M10-13	25	2424530000



Hexagon nut

M10 distance across flat: 12



CuZn
nickel-plated



Type	Qty.	Order No.
SAIE-KMM10X1-SW12	25	2424560000

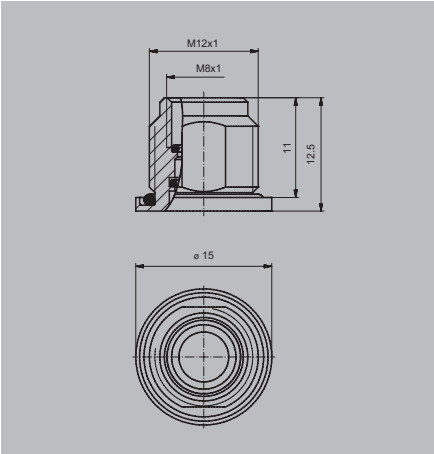


Device connectors

M8
Flange-mounted housing
Hexagon nut

Coupling

M12 height: 6 mm



Technical data

Housing main material
Housing surface
Seal material

CuZn
nickel-plated
FPM, NBR

Note

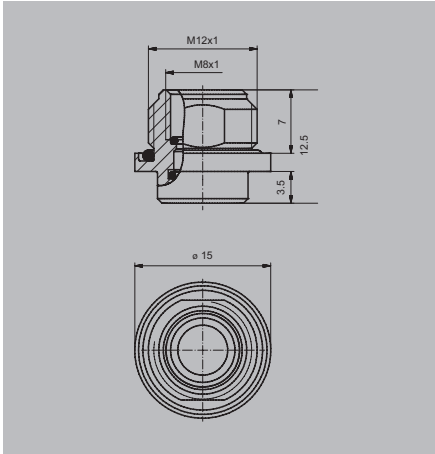
Ordering data

Type	Qty.	Order No.
SAIHG-M8B-M12-6	25	2424480000

Note

Coupling

M12 height: 10 mm

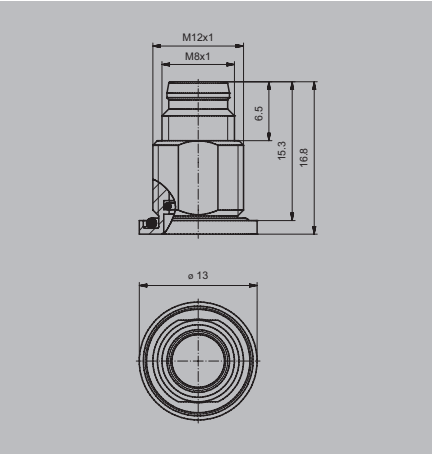


CuZn
nickel-plated
FPM, NBR

Type	Qty.	Order No.
SAIHG-M8B-M12-10	25	2424500000

Plug connector

M12 height: 6 mm



CuZn
nickel-plated
FPM, NBR

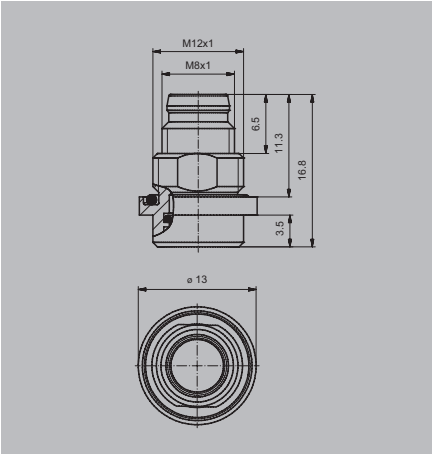


Type	Qty.	Order No.
SAIHG-M8S-M12-6	25	2424540000



Plug connector

M12 height: 10 mm



CuZn
nickel-plated
FPM, NBR

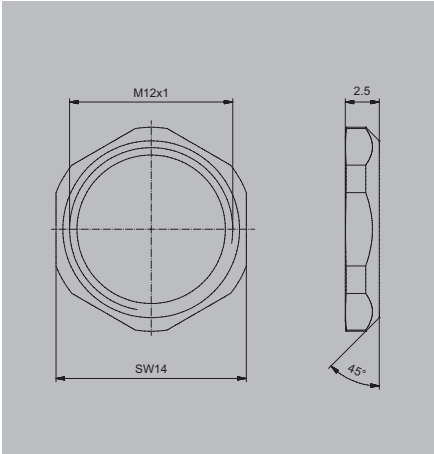


Type	Qty.	Order No.
SAIHG-M8S-M12-10	25	2424550000



Hexagon nut

M12 distance across flat: 14



CuZn
nickel-plated

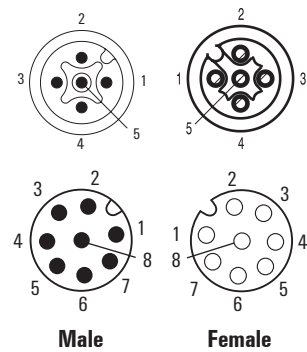


Type	Qty.	Order No.
SAIE-KMM12X1-SW14	25	2424570000



Device connectors

M12
Dip solder
one-piece
A-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range

Note

Back panel mounting, M16

Board-to-board distance: 5.5 mm



Back panel mounting, M16

Board-to-board distance: 12 mm



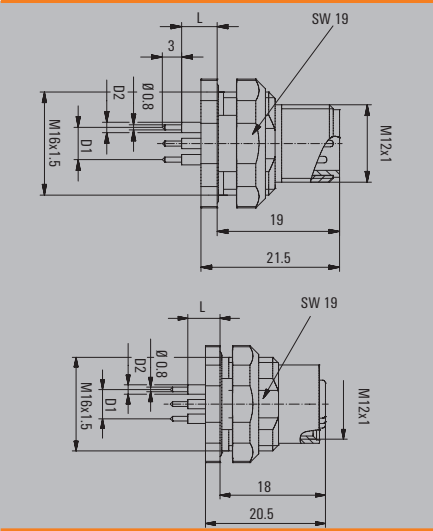
Type	Qty.	Order No.
SAIE-M12S-4-H5.5TL-M16	10	2421740000
SAIE-M12S-5-H5.5TL-M16	10	2421770000
SAIE-M12S-8-H5.5TL-M16	10	2421800000
SAIE-M12B-4-H5.5TL-M16	10	2421600000
SAIE-M12B-5-H5.5TL-M16	10	2421620000
SAIE-M12B-8-H5.5TL-M16	10	2421640000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

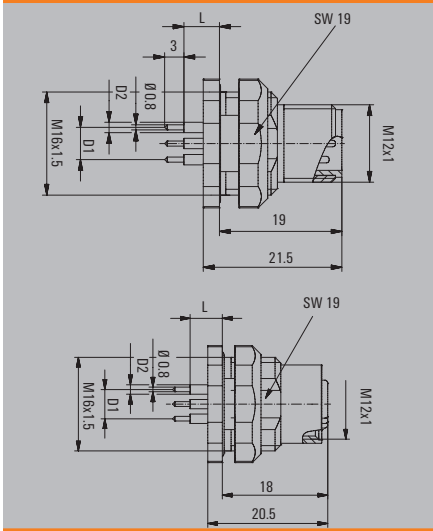
Type	Qty.	Order No.
SAIE-M12S-4-H12TL-M16	10	2421830000
SAIE-M12S-5-H12TL-M16	10	2421860000
SAIE-M12S-8-H12TL-M16	10	2421890000
SAIE-M12B-4-H12TL-M16	10	2421660000
SAIE-M12B-5-H12TL-M16	10	2421680000
SAIE-M12B-8-H12TL-M16	10	2421710000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

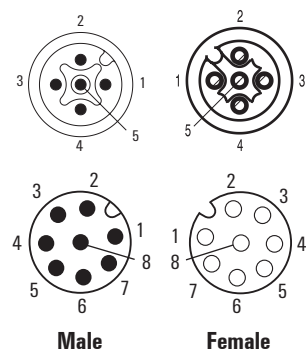
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
one-piece
A-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range

Note

Back panel mounting, PG9

Board-to-board distance: 5.5 mm



Type	Qty.	Order No.
SAIE-M12S-4-H5.5TL-PG9	10	2422100000
SAIE-M12S-5-H5.5TL-PG9	10	2422160000
SAIE-M12S-8-H5.5TL-PG9	10	2422220000
SAIE-M12B-4-H5.5TL-PG9	10	2421920000
SAIE-M12B-5-H5.5TL-PG9	10	2421980000
SAIE-M12B-8-H5.5TL-PG9	10	2422040000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
PG9
1.2 Nm

Back panel mounting, PG9

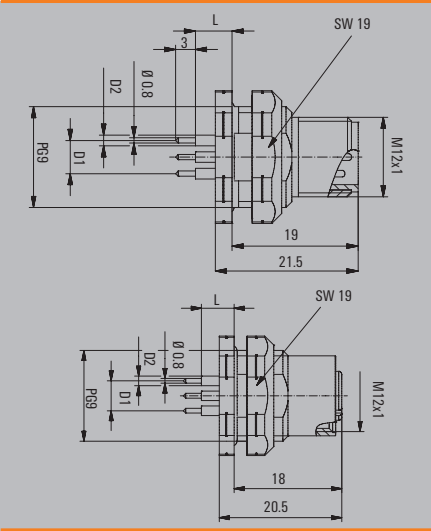
Board-to-board distance: 12 mm



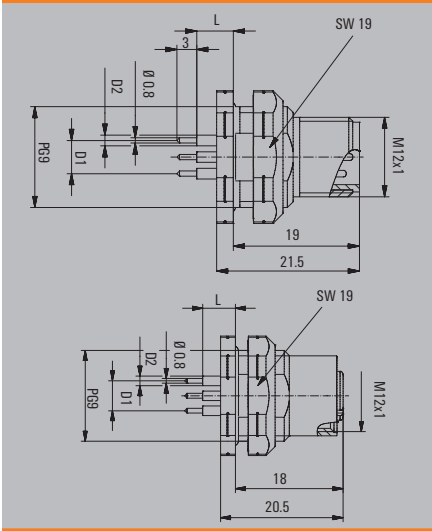
Type	Qty.	Order No.
SAIE-M12S-4-H12TL-PG9	10	2422130000
SAIE-M12S-5-H12TL-PG9	10	2422190000
SAIE-M12S-8-H12TL-PG9	10	2422250000
SAIE-M12B-4-H12TL-PG9	10	2421950000
SAIE-M12B-5-H12TL-PG9	10	2422010000
SAIE-M12B-8-H12TL-PG9	10	2422070000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
PG9
1.2 Nm

Dimensioned drawing



Dimensioned drawing



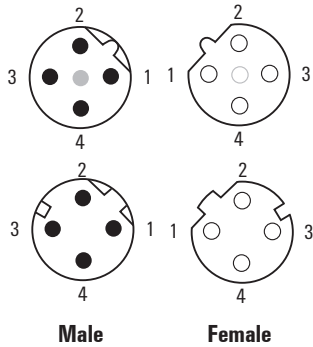
Device connectors

M12

Dip solder

one-piece

B- and D-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Back panel mounting, M16

Board-to-board distance: 5.5 mm



Back panel mounting, M16

Board-to-board distance: 12 mm



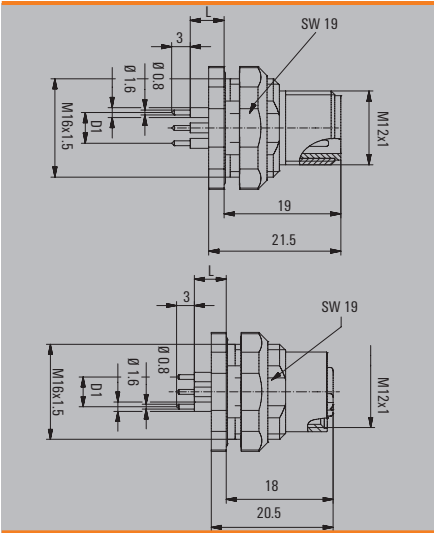
Type	Qty.	Order No.
SAIE-M12S-4B-H5.5TL-M16	10	2422370000
SAIE-M12B-4B-H5.5TL-M16	10	2422310000
SAIE-M12B-4D-H5.5TL-M16	10	2422430000

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

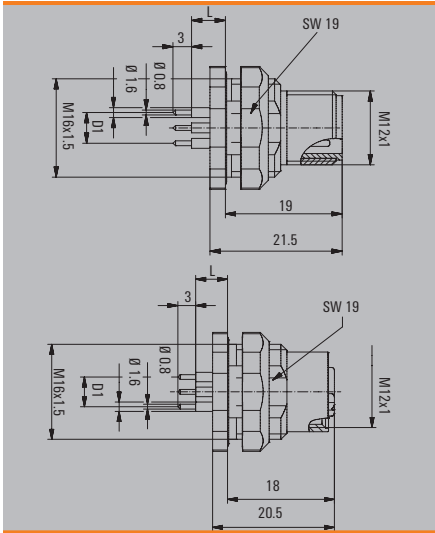
Type	Qty.	Order No.
SAIE-M12S-4B-H12TL-M16	10	2422400000
SAIE-M12B-4B-H12TL-M16	10	2422340000
SAIE-M12B-4D-H12TL-M16	10	2422280000

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

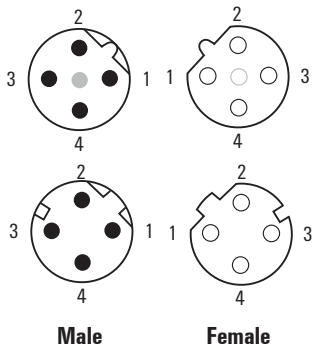
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
one-piece
B- and D-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Back panel mounting, PG9

Board-to-board distance: 5.5 mm



Back panel mounting, PG9

Board-to-board distance: 12 mm



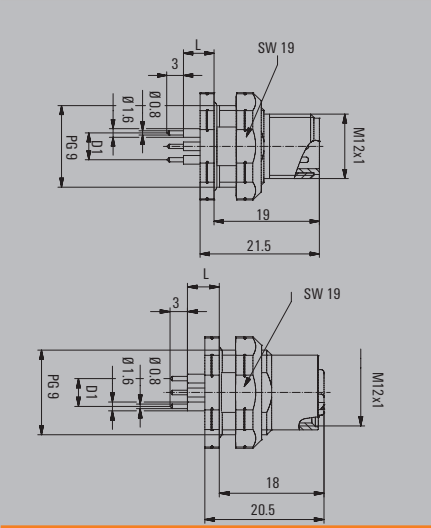
Type	Qty.	Order No.
SAIE-M12SB-4-H5.5TL-PG9	10	2421700000
SAIE-M12BB-4-H5.5TL-PG9	10	2424490000
SAIE-M12BD-4-H5.5TL-PG9	10	2424440000

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
PG9
1.2 Nm

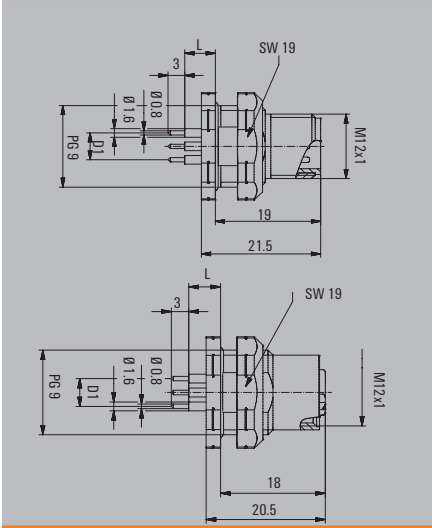
Type	Qty.	Order No.
SAIE-M12SB-4-H12TL-PG9	10	2421730000
SAIE-M12BB-4-H12TL-PG9	10	2424510000
SAIE-M12BD-4-H12TL-PG9	10	2424470000

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
PG9
1.2 Nm

Dimensioned drawing

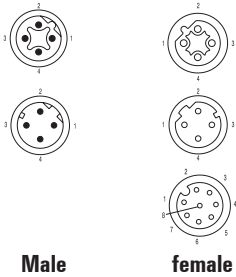


Dimensioned drawing



Device connectors

M12
Dip solder
one-piece
shielded
A-, B- and D-coded



Ordering data

Male, straight	
	A-coded, 4-pole
	A-coded, 5-pole
	B-coded, 4-pole
	D-coded, 4-pole
Female, straight	
	A-coded, 4-pole
	A-coded, 5-pole
	A-coded, 8-pole
	B-coded, 4-pole
	D-coded, 4-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting, M16

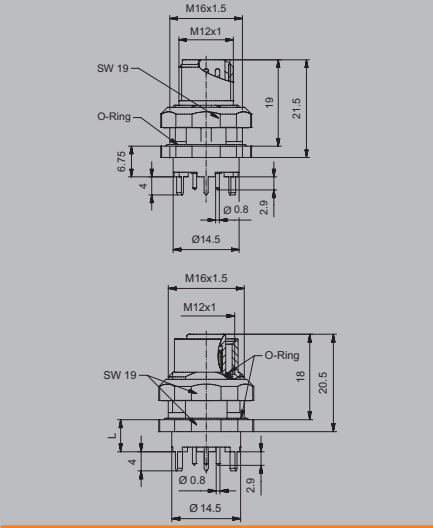
Board-to-board distance: 6.75 mm



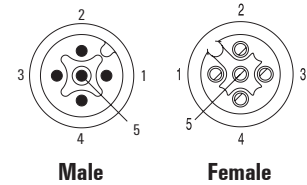
Type	Qty.	Order No.
SAIE-M12S-4AS-H6.75TL	10	2424040000
SAIE-M12S-5AS-H6.75TL	10	2424070000
SAIE-M12S-4BS-H6.75TL	10	2424120000
SAIE-M12S-4DS-H6.75TL	10	2424100000
SAIE-M12B-4S-H6.75TL	10	2421880000
SAIE-M12B-5S-H6.75TL	10	2421910000
SAIE-M12B-8S-H6.75TL	10	2421940000
SAIE-M12BB-4S-H6.75TL	10	2421970000
SAIE-M12BD-4S-H6.75TL	10	2422000000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (5-pole) / 2 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

Dimensioned drawing



M12
Dip solder
two-piece
A-coded



Ordering data

Male, straight	4-pole
	5-pole
Female, straight	4-pole
	5-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting

Board-to-board distance: 5.5 mm



Type	Qty.	Order No.
SAIE-M12S-4-H5.5TL	10	2423300000
SAIE-M12S-5-H5.5TL	10	2423360000
SAIE-M12B-4-H5.5TL	10	2423180000
SAIE-M12B-5-H5.5TL	10	2423240000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Front mounting

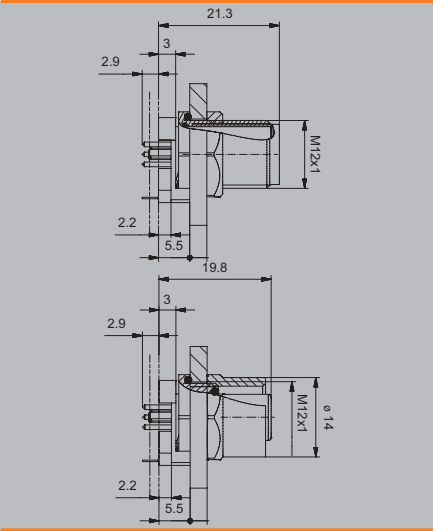
Board-to-board distance: 5.5 mm



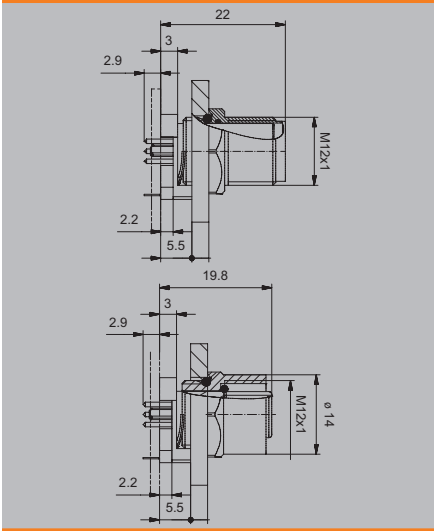
Type	Qty.	Order No.
SAIE-M12S-4-F5.5TL	10	2423060000
SAIE-M12S-5-F5.5TL	10	2423120000
SAIE-M12B-4-F5.5TL	10	2422940000
SAIE-M12B-5-F5.5TL	10	2423000000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Dimensioned drawing

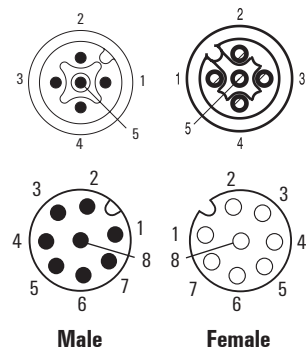


Dimensioned drawing



Device connectors

M12
Dip solder
two-piece
A-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting

Board-to-board distance: 10 mm



Type	Qty.	Order No.
SAIE-M12S-4-H10TL	10	2422820000
SAIE-M12S-5-H10TL	10	2422880000
SAIE-M12B-4-H10TL	10	2422700000
SAIE-M12B-5-H10TL	10	2422760000
SAIE-M12B-8-H10TL	10	2421820000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Front mounting

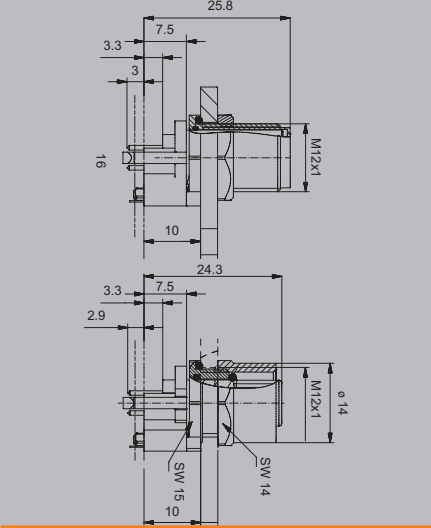
Board-to-board distance: 10 mm



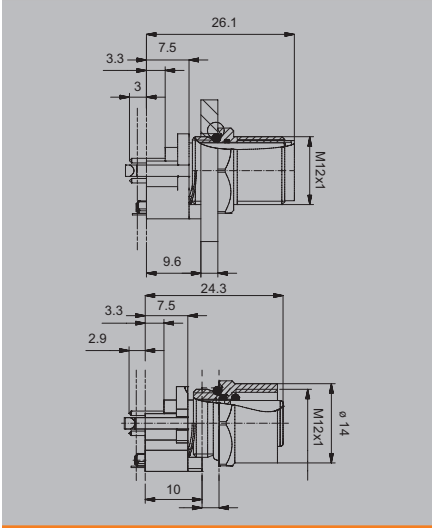
Type	Qty.	Order No.
SAIE-M12S-4-F10TL	10	2422580000
SAIE-M12S-5-F10TL	10	2422640000
SAIE-M12B-4-F10TL	10	2422460000
SAIE-M12B-5-F10TL	10	2422520000
SAIE-M12B-8-F10TL	10	2421760000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

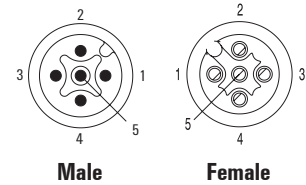
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
A-coded



Ordering data

Male, angled	4-pole
	5-pole
Female, angled	4-pole
	5-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting



Type	Qty.	Order No.
SAIEW-M12S-4-HTL	10	2423660000
SAIEW-M12S-5-HTL	10	2423720000
SAIEW-M12B-4-HTL	10	2423420000
SAIEW-M12B-5-HTL	10	2423480000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

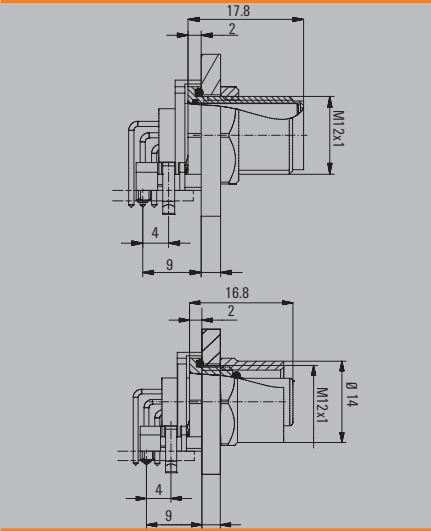
Front mounting



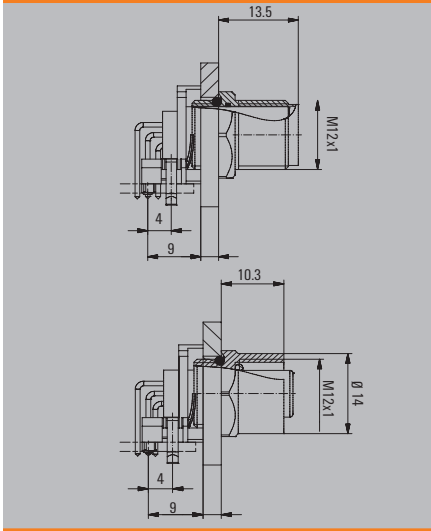
Type	Qty.	Order No.
SAIEW-M12S-4-FTL	10	2423780000
SAIEW-M12S-5-FTL	10	2423840000
SAIEW-M12B-4-FTL	10	2423540000
SAIEW-M12B-5-FTL	10	2423600000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Dimensioned drawing

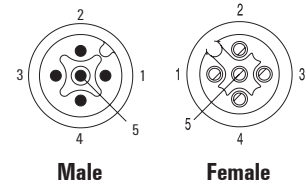


Dimensioned drawing



Device connectors

M12
Dip solder
two-piece
shielded
A-coded



Ordering data

Male, angled	4-pole
	5-pole
Female, angled	4-pole
	5-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting



Front mounting



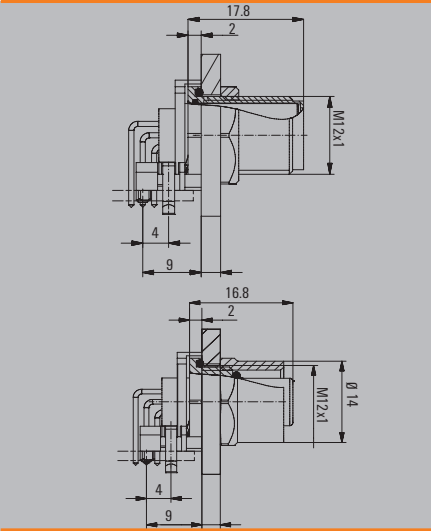
Type	Qty.	Order No.
SAIEW-M12S-4S-HTL	10	2423690000
SAIEW-M12S-5S-HTL	10	2423750000
SAIEW-M12B-4S-HTL	10	2423450000
SAIEW-M12B-5S-HTL	10	2423510000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

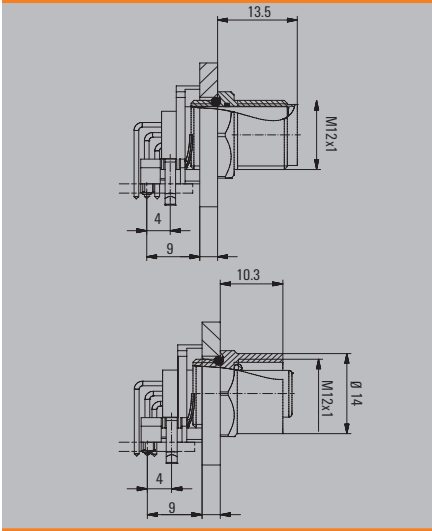
Type	Qty.	Order No.
SAIEW-M12S-4S-FTL	10	2423810000
SAIEW-M12S-5S-FTL	10	2423870000
SAIEW-M12B-4S-FTL	10	2423570000
SAIEW-M12B-5S-FTL	10	2423630000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

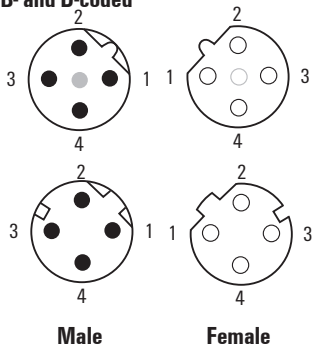
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded
B- and D-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting



Front mounting



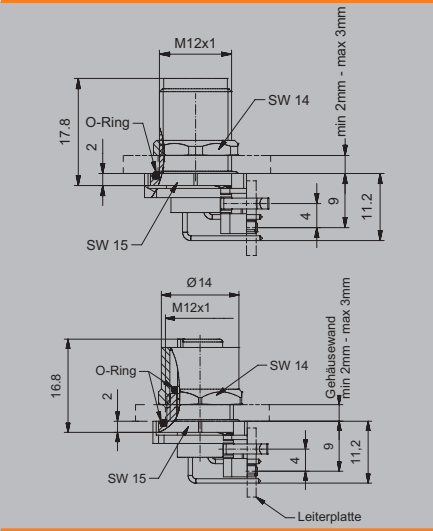
Type	Qty.	Order No.
SAIEW-M12SB-4-HTL	10	2424350000
SAIEW-M12BB-4-HTL	10	2424290000
SAIEW-M12BD-4-HTL	10	2424410000
Note		

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

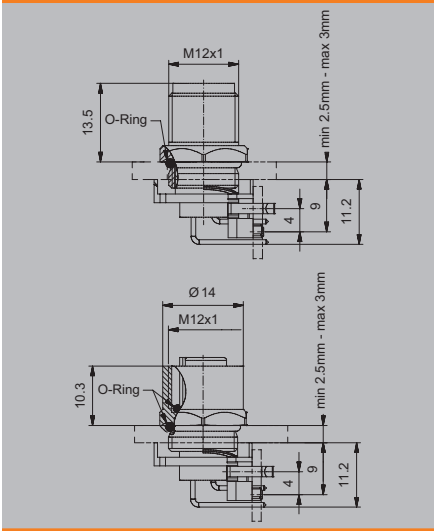
Type	Qty.	Order No.
SAIEW-M12SB-4-FTL	10	2424320000
SAIEW-M12BB-4-FTL	10	2424260000
SAIEW-M12BD-4-FTL	10	2424380000
Note		

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Dimensioned drawing

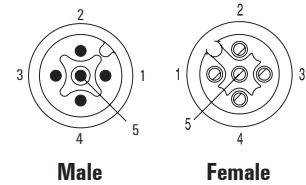


Dimensioned drawing



Device connectors

M12
Dip solder
two-piece
shielded
A-coded



Ordering data

Male, straight	4-pole
	5-pole
Female, straight	4-pole
	5-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting

Board-to-board distance: 5.5 mm



Front mounting

Board-to-board distance: 5.5 mm



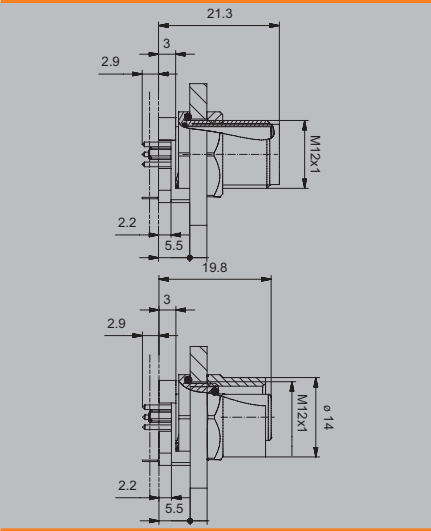
Type	Qty.	Order No.
SAIE-M12S-4S-H5.5TL	10	2423330000
SAIE-M12S-5S-H5.5TL	10	2423390000
SAIE-M12B-4S-H5.5TL	10	2423210000
SAIE-M12B-5S-H5.5TL	10	2423270000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

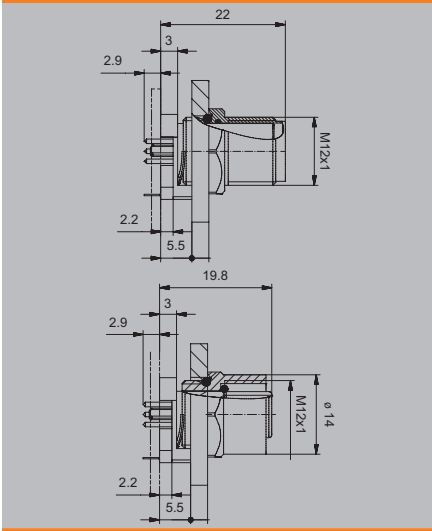
Type	Qty.	Order No.
SAIE-M12S-4S-F5.5TL	10	2423090000
SAIE-M12S-5S-F5.5TL	10	2423150000
SAIE-M12B-4S-F5.5TL	10	2422970000
SAIE-M12B-5S-F5.5TL	10	2423030000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

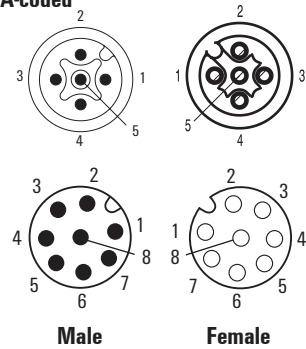
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded
A-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting

Board-to-board distance: 10 mm



Type	Qty.	Order No.
SAIE-M12S-4S-H10TL	10	2422850000
SAIE-M12S-5S-H10TL	10	2422910000
SAIE-M12B-4S-H10TL	10	2422730000
SAIE-M12B-5S-H10TL	10	2422790000
SAIE-M12B-8S-H10TL	10	2421850000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Front mounting

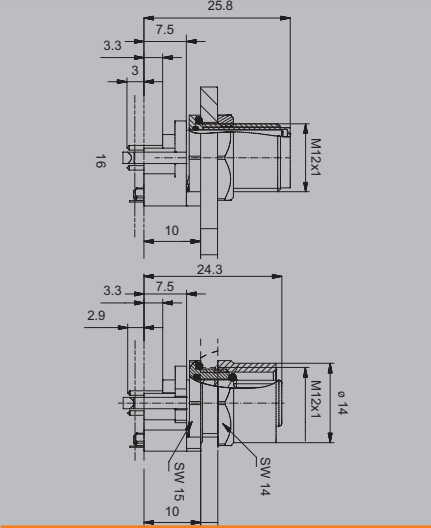
Board-to-board distance: 10 mm



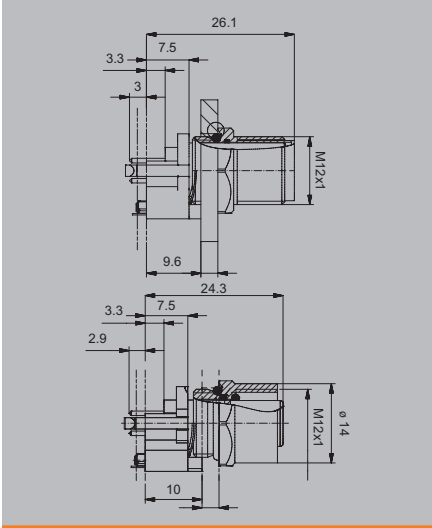
Type	Qty.	Order No.
SAIE-M12S-4S-F10TL	10	2422610000
SAIE-M12S-5S-F10TL	10	2422670000
SAIE-M12B-4S-F10TL	10	2422490000
SAIE-M12B-5S-F10TL	10	2422550000
SAIE-M12B-8S-F10TL	10	2421790000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Dimensioned drawing



Dimensioned drawing



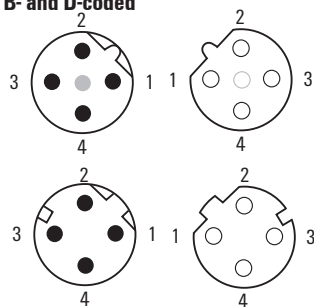
M12

Dip solder

two-piece

shielded

B- and D-coded



Male

Female

Ordering data

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

Technical data

- Rated voltage
- Rated current
- Temperature range
- Protection degree
- Contact surface
- Housing main material
- Connection thread
- Tightening torque
- Mounting thread
- Mounting torque range

Note

Rear panel mounting

Board-to-board distance: 5.5 mm



Rear panel mounting

Board-to-board distance: 10 mm



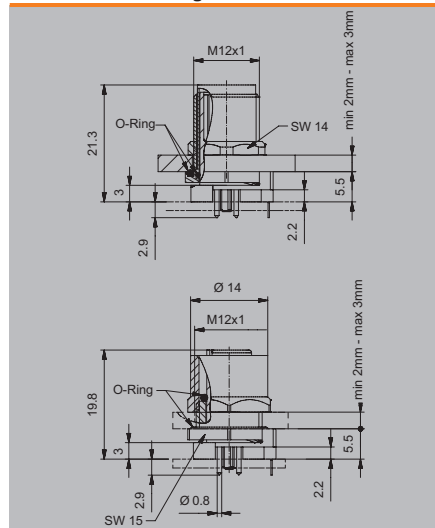
Type	Qty.	Order No.
SAIE-M12SB-4-H5.5TL	10	2424110000
SAIE-M12BB-4-H5.5TL	10	2424050000
SAIE-M12BD-4-H5.5TL	10	2424230000

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

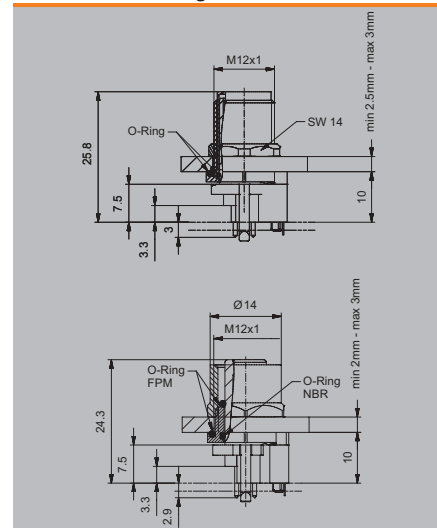
Type	Qty.	Order No.
SAIE-M12SB-4-H10TL	10	2423990000
SAIE-M12BB-4-H10TL	10	2423930000
SAIE-M12BD-4-H10TL	10	2424170000

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

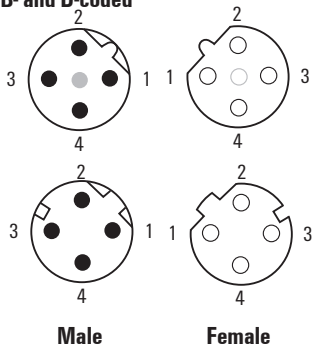
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded
B- and D-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Front mounting

Board-to-board distance: 5.5 mm



Type	Qty.	Order No.
SAIE-M12SB-4-F5.5TL	10	2424080000
SAIE-M12BB-4-F5.5TL	10	2424020000
SAIE-M12BD-4-F5.5TL	10	2424200000
Note		

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Front mounting

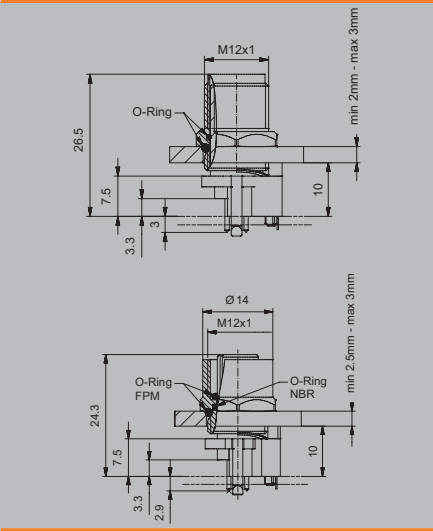
Board-to-board distance: 10 mm



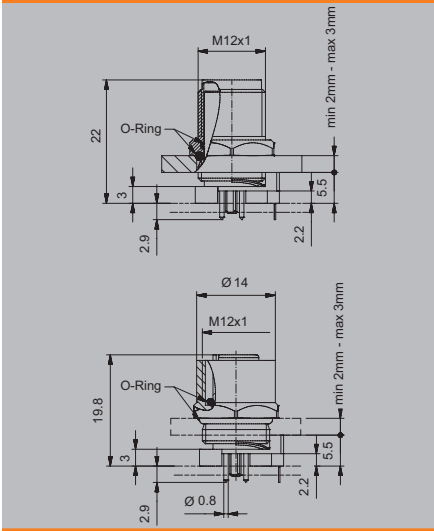
Type	Qty.	Order No.
SAIE-M12SB-4-F10TL	10	2423960000
SAIE-M12BB-4-F10TL	10	2423900000
SAIE-M12BD-4-F10TL	10	2424140000
Note		

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Dimensioned drawing

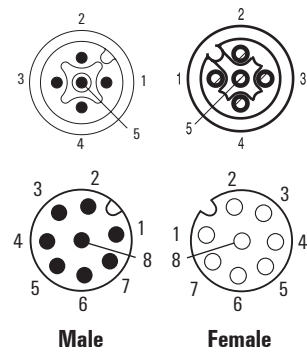


Dimensioned drawing



Device connectors

M12
SMT
two-piece
A-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range

Note

Mounting thread, M14

Board-to-board distance: 9 mm



Mounting thread, M14

Board-to-board distance: 13 mm



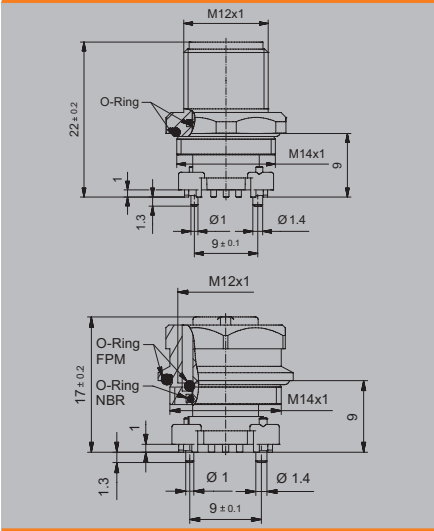
Type	Qty.	Order No.
SAIE-M12S-4-9/14SMT	25	2423200000
SAIE-M12S-5-9/14SMT	25	2423230000
SAIE-M12S-8-9/14SMT	25	2423260000
SAIE-M12B-4-9SMT	25	2422300000
SAIE-M12B-5-9SMT	25	2422330000
SAIE-M12B-8-9/14SMT	25	2423440000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M14
1.2 Nm

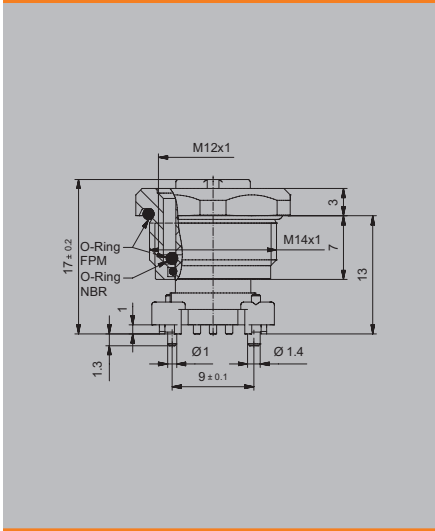
Type	Qty.	Order No.
SAIE-M12B-4-13/14SMT	25	2423020000
SAIE-M12B-5-13/14SMT	25	2423050000
SAIE-M12B-8-13/14SMT	25	2423080000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M14
1.2 Nm

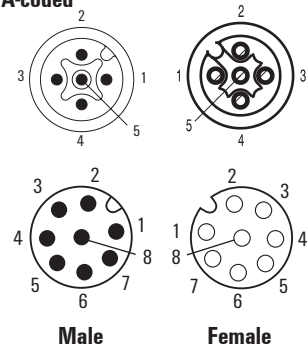
Dimensioned drawing



Dimensioned drawing



M12
SMT
two-piece
shielded
A-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range

Note

Mounting thread, M14

Board-to-board distance: 9 mm



Type	Qty.	Order No.
SAIE-M12S-4S-9/14SMT	25	2423290000
SAIE-M12S-5S-9/14SMT	25	2423320000
SAIE-M12S-8S-9/14SMT	25	2423350000
SAIE-M12B-4S-9SMT	25	2422360000
SAIE-M12B-5S-9SMT	25	2422390000
SAIE-M12B-8S-9/14SMT	25	2423470000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M14
1.2 Nm

Mounting thread, M14

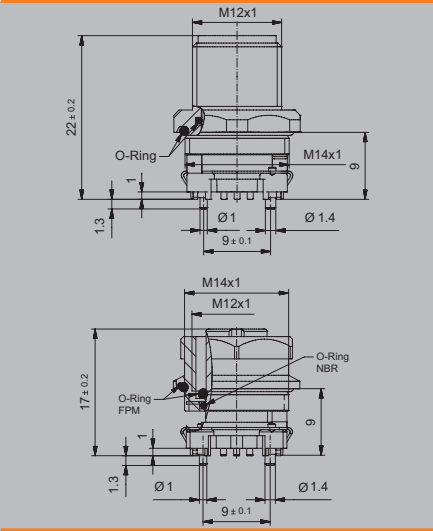
Board-to-board distance: 13 mm



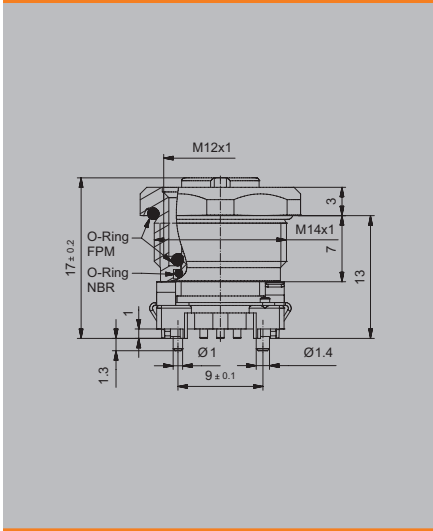
Type	Qty.	Order No.
SAIE-M12B-4S-13/14SMT	25	2423110000
SAIE-M12B-5S-13/14SMT	25	2423140000
SAIE-M12B-8S-13/14SMT	25	2423170000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M14
1.2 Nm

Dimensioned drawing

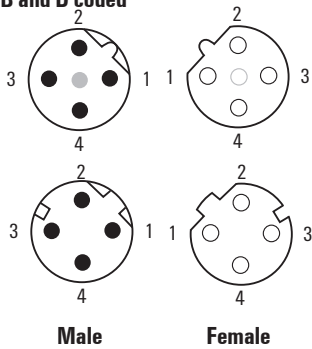


Dimensioned drawing



Device connectors

M12
SMT
two-piece
shielded
B and D coded



Ordering data

Male, straight	
	B-coded, 4-pole
	B-coded, 5-pole
Female, straight	
	B-coded, 4-pole
	B-coded, 5-pole
	D-coded, 8-pole
Note	

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Mounting thread, M14

Board-to-board distance: 9 mm



Type	Qty.	Order No.
SAIE-M12SB-4S-9SMT	25	2423800000
SAIE-M12SB-5S-9SMT	25	2423830000
SAIE-M12BB-4S-9/14SMT	25	2423680000
SAIE-M12BB-5S-9/14SMT	25	2423710000
SAIE-M12BD-4S-9/14SMT	25	2423860000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M14
1.2 Nm

Mounting thread, M14

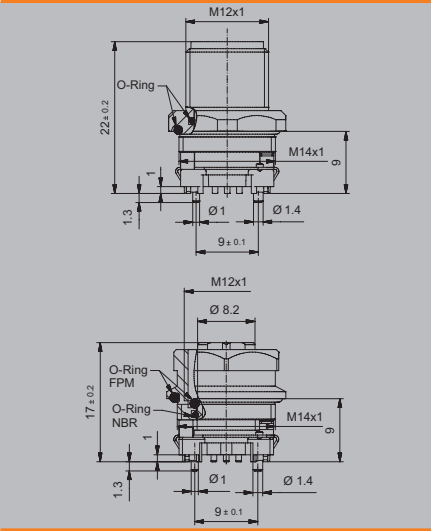
Board-to-board distance: 13 mm



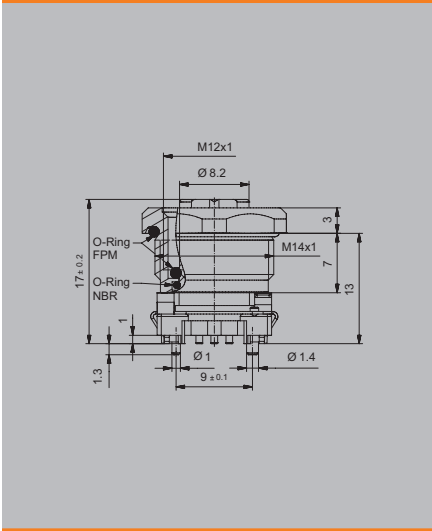
Type	Qty.	Order No.
SAIE-M12BB-4S-13/14SMT	25	2423740000
SAIE-M12BB-5S-13/14SMT	25	2423770000
SAIE-M12BD-4S-13/14SMT	25	2423890000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M14
1.2 Nm

Dimensioned drawing

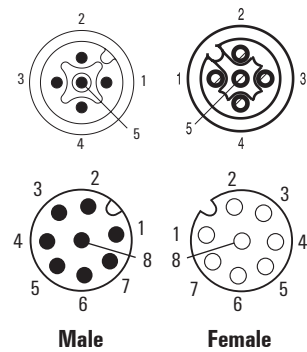


Dimensioned drawing





M12
SMT
DOM
A-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range

Note

Unshielded



Shielded



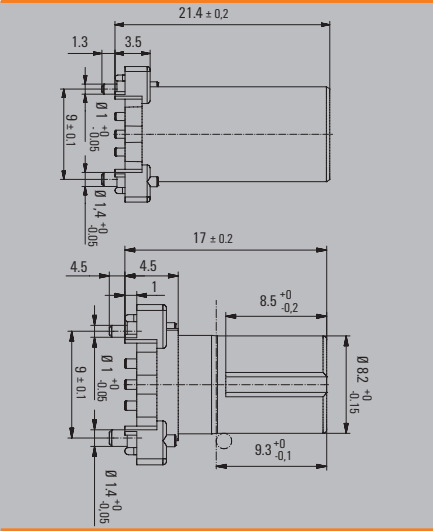
Type	Qty.	Order No.
SAID-M12S-4-9SMT	25	2422540000
SAID-M12S-5-9SMT	25	2422600000
SAID-M12S-8-9SMT	25	2422420000
SAID-M12B-4-9SMT	25	2422060000
SAID-M12B-5-9SMT	25	2422120000
SAID-M12B-8-9SMT	25	2422480000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-25...95 °C
IP67
Au (Gold)
LCP
M12
M12: 0.8 Nm

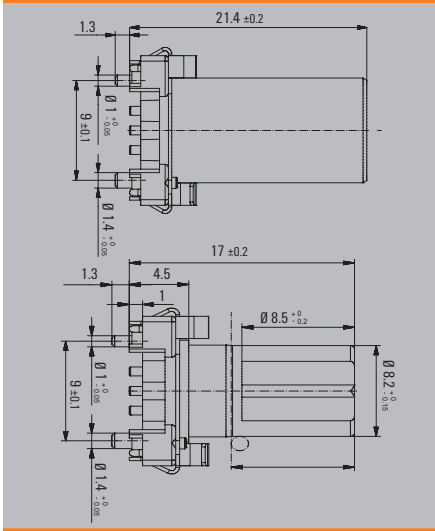
Type	Qty.	Order No.
SAID-M12S-4S-9SMT	25	2423500000
SAID-M12S-5S-9SMT	25	2423560000
SAID-M12S-8S-9SMT	25	2423620000
SAID-M12B-4S-9SMT	25	2422180000
SAID-M12B-5S-9SMT	25	2422240000
SAID-M12B-8S-9SMT	25	2423380000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-25...95 °C
IP67
Au (Gold)
LCP
M12
M12: 0.8 Nm

Dimensioned drawing



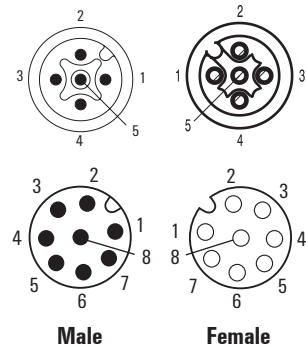
Dimensioned drawing



Device connectors



M12
SMT
DOM
A-coded



Ordering data

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

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range

Note

Unshielded

Tape-on-Reel



Shielded

Tape-on-Reel



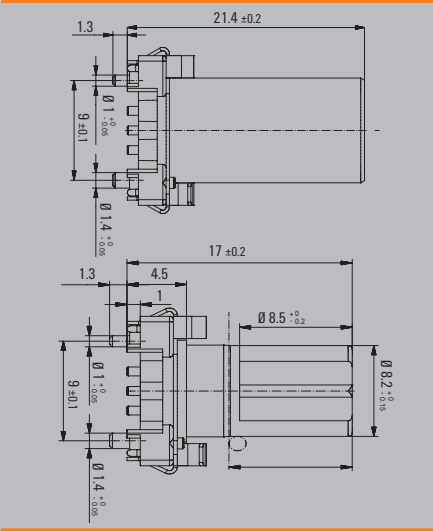
Type	Qty.	Order No.
SAID-M12S-4-9SMT-TR	75	2422570000
SAID-M12S-5-9SMT-TR	75	2422630000
SAID-M12S-8-9SMT-TR	75	2422450000
SAID-M12B-4-9SMT-TR	75	2422090000
SAID-M12B-5-9SMT-TR	75	2422150000
SAID-M12B-8-9SMT-TR	75	2422510000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-25...95 °C
IP67
Au (Gold)
LCP
M12
M12: 0.8 Nm

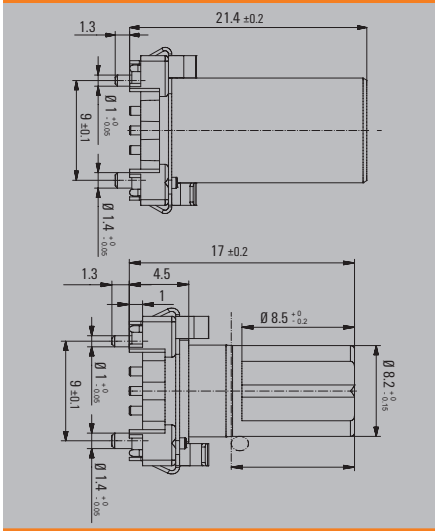
Type	Qty.	Order No.
SAID-M12S-4S-9SMT-TR	75	2423530000
SAID-M12S-5S-9SMT-TR	75	2423590000
SAID-M12S-8S-9SMT-TR	75	2423650000
SAID-M12B-4S-9SMT-TR	75	2422210000
SAID-M12B-5S-9SMT-TR	75	2422270000
SAID-M12B-8S-9SMT-TR	75	2423410000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-25...95 °C
IP67
Au (Gold)
LCP
M12
M12: 0.8 Nm

Dimensioned drawing

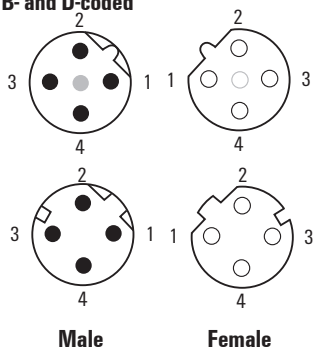


Dimensioned drawing





M12
SMT
DOM
shielded
B- and D-coded



Shielded



Ordering data

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

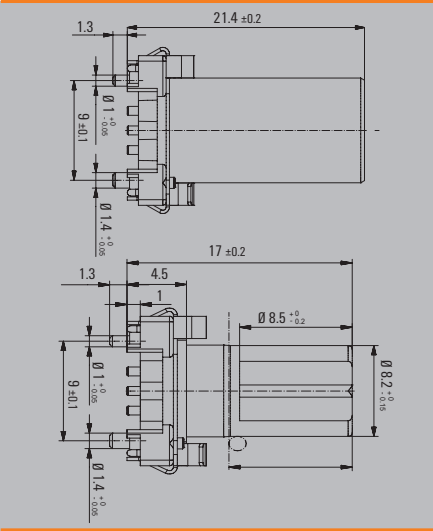
Type	Qty.	Order No.
SAID-M12SB-4S-9SMT	25	2422720000
SAID-M12SB-5S-9SMT	25	2422780000
SAID-M12BB-4S-9SMT	25	2422840000
SAID-M12BD-4S-9SMT	25	2422960000
SAID-M12BB-5S-9SMT	25	2422900000
Note		

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

250 V (4-pole) / 60 V (5-pole)
4 A
-25...95 °C
IP67
Au (Gold)
LCP
M12
M12: 0.8 Nm
Note

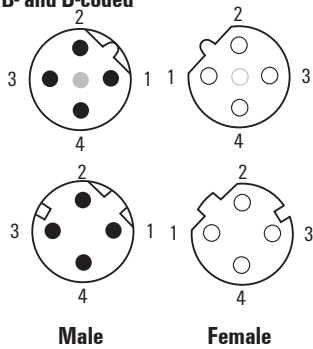
Dimensioned drawing



Device connectors



M12
SMT
DOM
shielded
B- and D-coded



Tape-on-reel



Ordering data

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

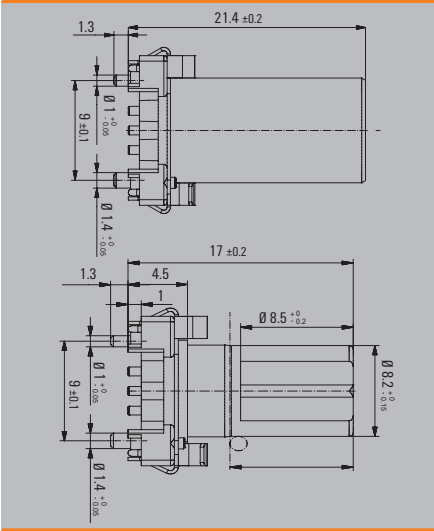
Type	Qty.	Order No.
SAID-M12SB-4S-9SMT-TR	75	2422750000
SAID-M12SB-5S-9SMT-TR	75	2422810000
SAID-M12BB-4S-9SMT-TR	75	2422870000
SAID-M12BD-4S-9SMT-TR	75	2422990000
SAID-M12BB-5S-9SMT-TR	75	2422930000

Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

250 V (4-pole) / 60 V (5-pole)
4 A
-25...95 °C
IP67
Au (Gold)
LCP
M12
M12: 0.8 Nm

Dimensioned drawing

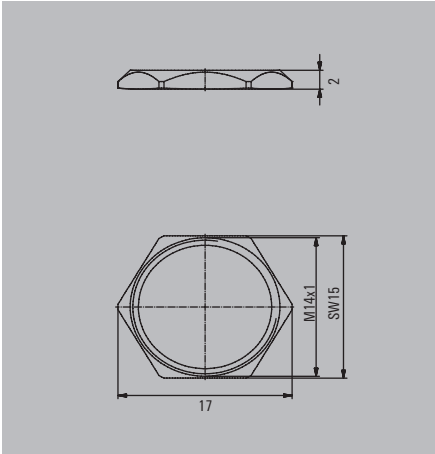
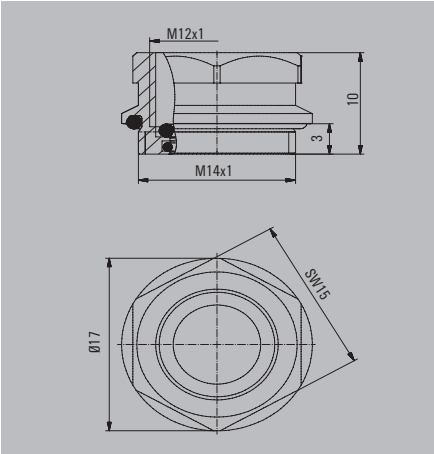


Device connectors

M12
Flange-mounted housing
Hexagon nut

Male
M14 mounting thread, installation height 9 mm

Hexagon nut
M14 thread, spanner size 15



Technical data

Housing main material
Housing surface
Seal material

CuZn
nickel-plated
FKM

CuZn
nickel-plated

Note

Ordering data

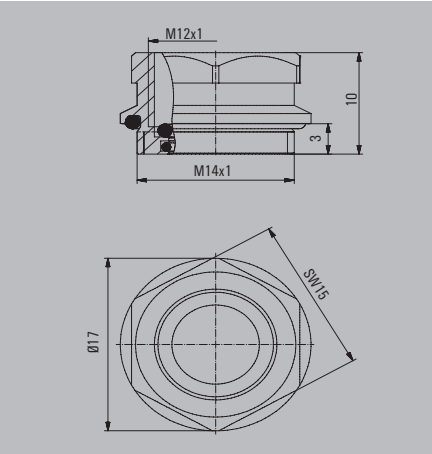
Type	Qty.	Order No.
SAIFG-M14X1-S-1	25	2423980000

Type	Qty.	Order No.
SAIE-KMM14X1-SW15	25	2424010000

Note

Female

M14 mounting thread, installation height 9 mm



CuZn
nickel-plated
FKM

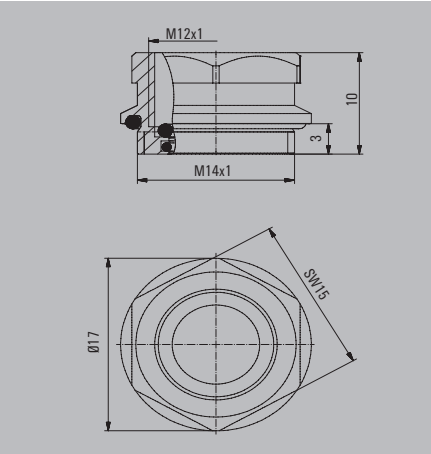


Type	Qty.	Order No.
SAIFG-M14X1-B-1	25	2423920000



Female

M14 mounting thread, installation height 13 mm



CuZn
nickel-plated
FKM

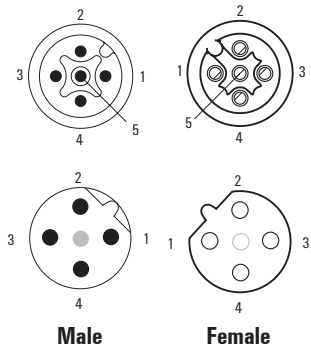


Type	Qty.	Order No.
SAIFG-M14X1-B-2	25	2423950000



Device connectors

M12
Solder cup
A- and B-coded



Ordering data

Male, straight		
	A-coded, 5-pole	
	B-coded, 4-pole	
	B-coded, 5-pole	
Note		

Technical data

Rated voltage	
Rated current	
Temperature range	
Protection degree	
Contact surface	
Housing main material	
Connection thread	
Tightening torque	
Mounting thread	
Mounting torque range	
Note	

Rear panel mounting

Mounting thread M16



Front mounting

Mounting thread M16



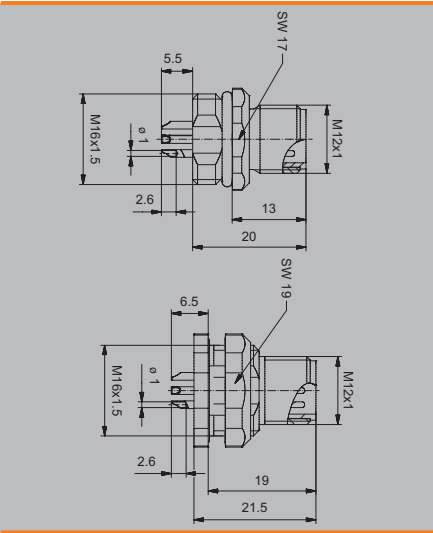
Type	Qty.	Order No.
SAIE-M12S-4A-H-LK	10	2424210000
SAIE-M12S-5B-H-LK	10	2424240000

60 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

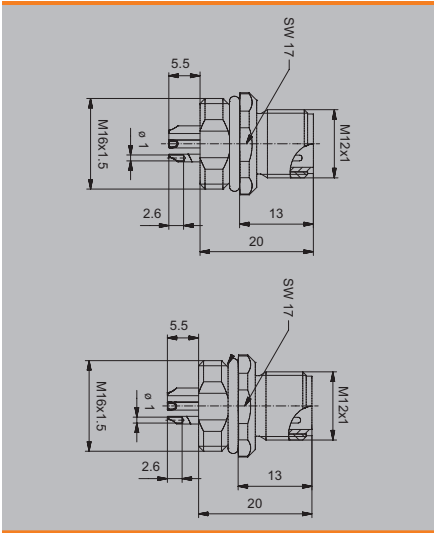
Type	Qty.	Order No.
SAIE-M12S-5A-F-LK	10	2424160000
SAIE-M12S-4B-F-LK	10	2424180000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

Dimensioned drawing



Dimensioned drawing



M12
Solder cup
Square flange
A- and B-coded

Enclosure size 20 mm x 20 mm



Enclosure size 26 mm x 26 mm



Ordering data

Male, straight	
	A-coded, 4-pole
	A-coded, 5-pole
	B-coded, 4-pole
Note	

Type	Qty.	Order No.
SAIE-M12S-5A-FV-20-LK	10	2424270000
SAIE-M12S-4B-FV-20-LK	10	2424310000

Type	Qty.	Order No.
SAIE-M12S-4A-FV-26-LK	10	2424340000
SAIE-M12S-5A-FV-26-LK	10	2424370000
SAIE-M12S-4B-FV-26-LK	10	2424400000

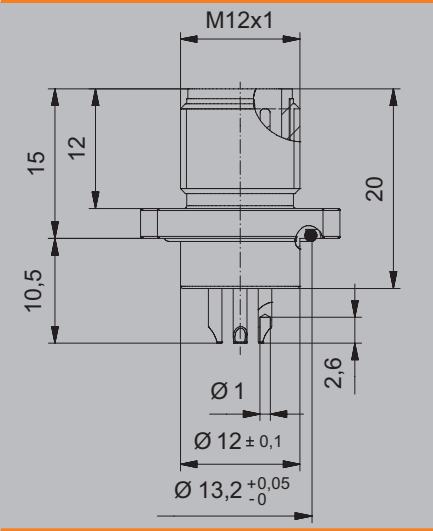
Technical data

Rated voltage
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
Connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

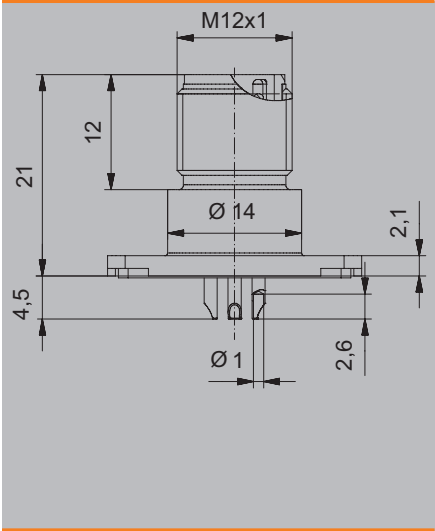
250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm

Dimensioned drawing



Dimensioned drawing



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



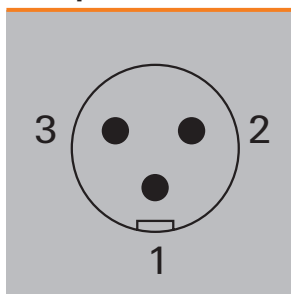
In some situations, it may be necessary to assemble cables yourself. This includes cases where the length of the cable cannot be predicted in advance, or if solutions for self-connection are required for servicing. Often, 7/8" plug connectors are used to transmit high power levels.

Advantages of 7/8" plug connectors:

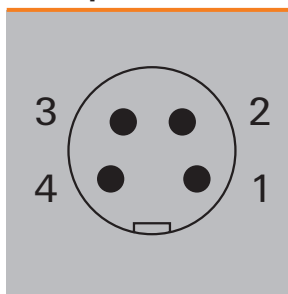
- Simple and safe wiring thanks to screw connection
- Different variants available for different cable diameters
- Gold-plated contact surfaces
- 3, 4 and 5-pole versions

Pin out

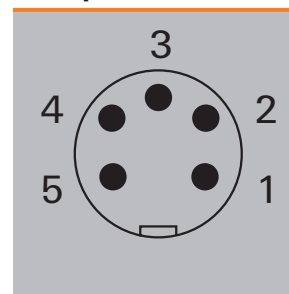
Male insert (mating side) 2+PE-pole



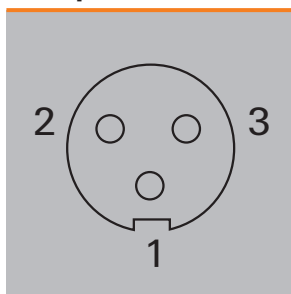
3 + PE-pole



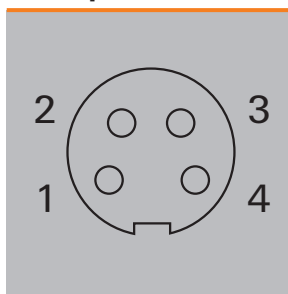
4+PE-pole



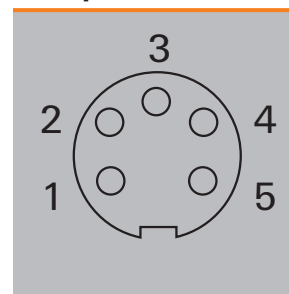
Female insert (mating side) 2+PE-pole



3 + PE-pole

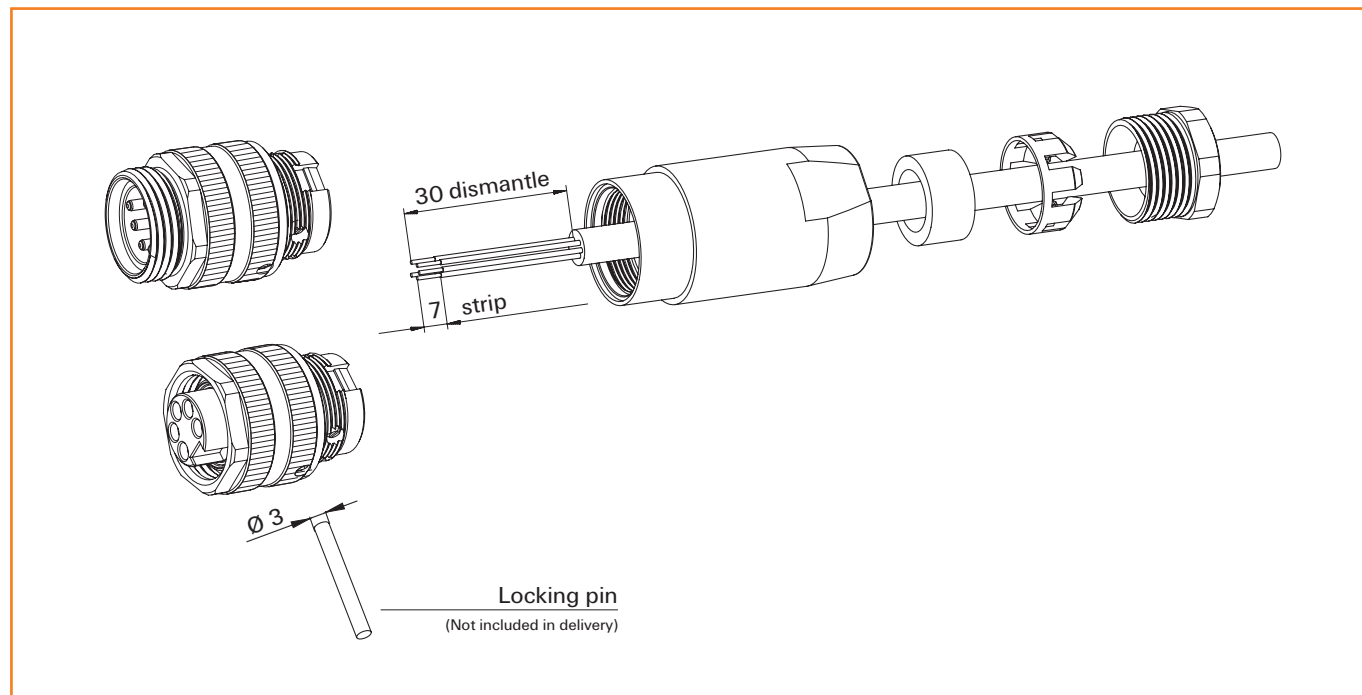


4+PE-pole



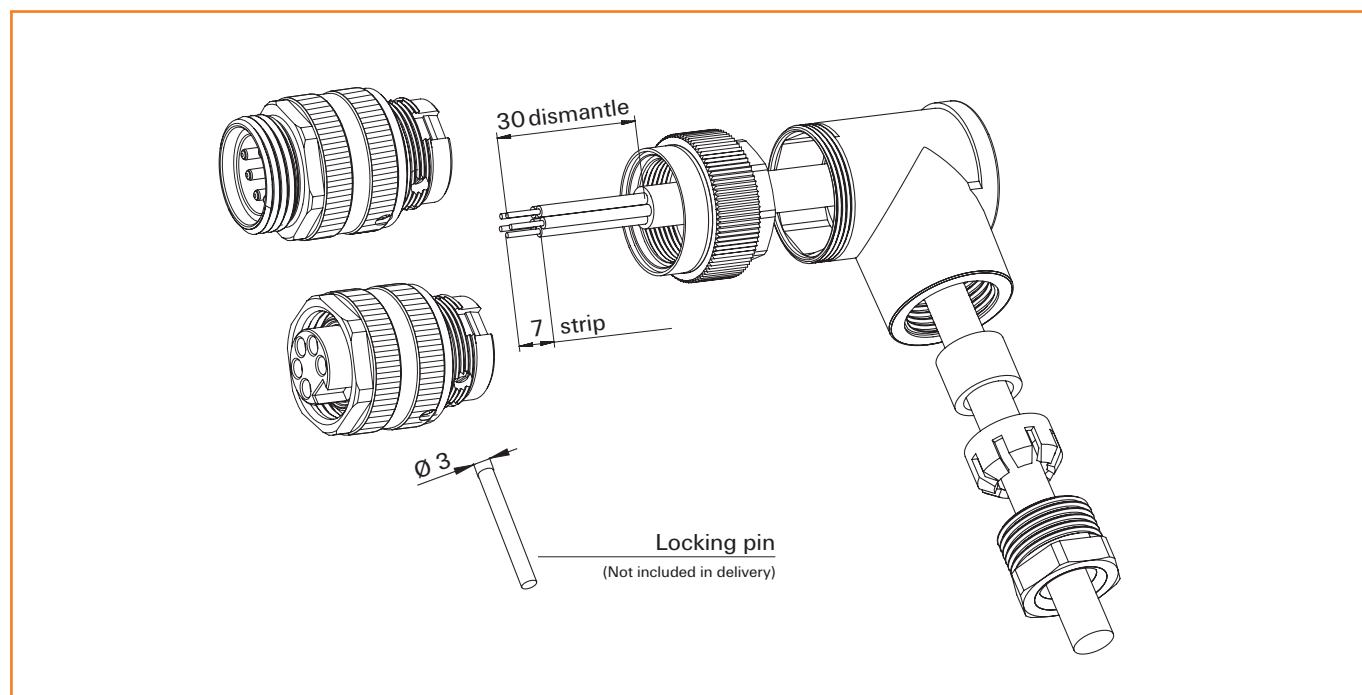
Customisable connector assembly instructions

Straight connector



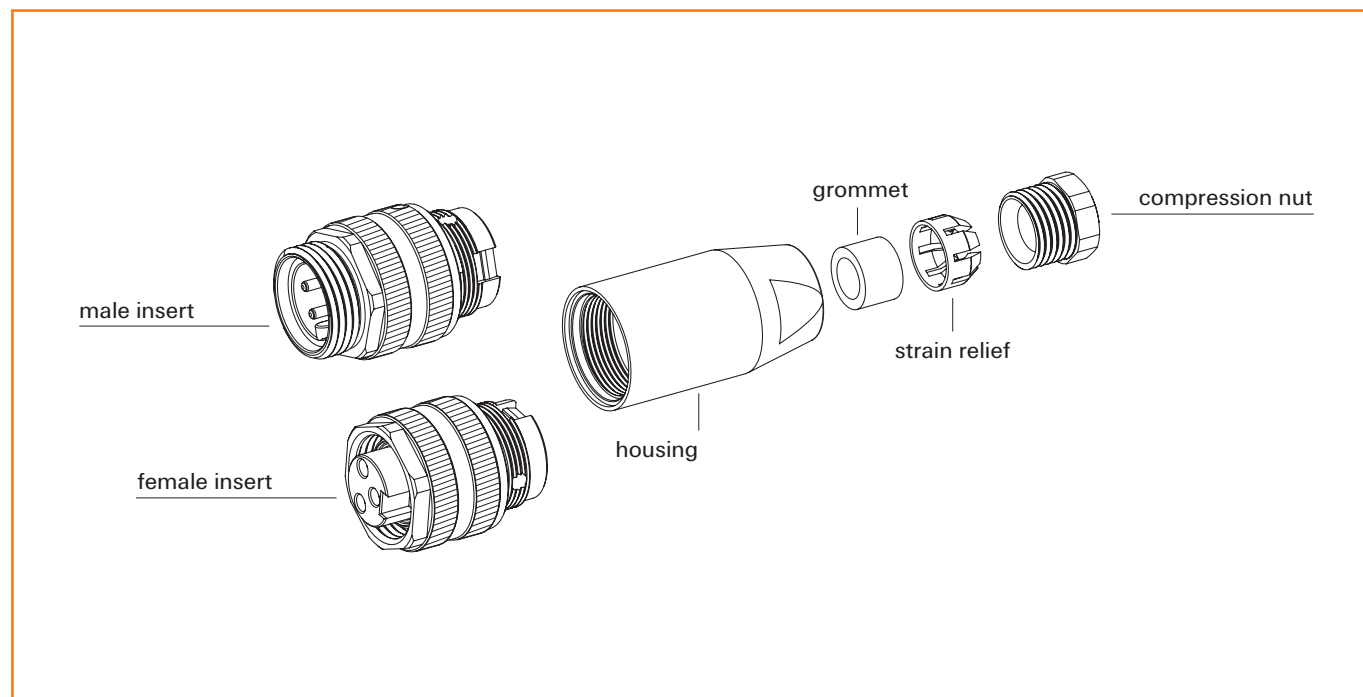
J

Angled connector

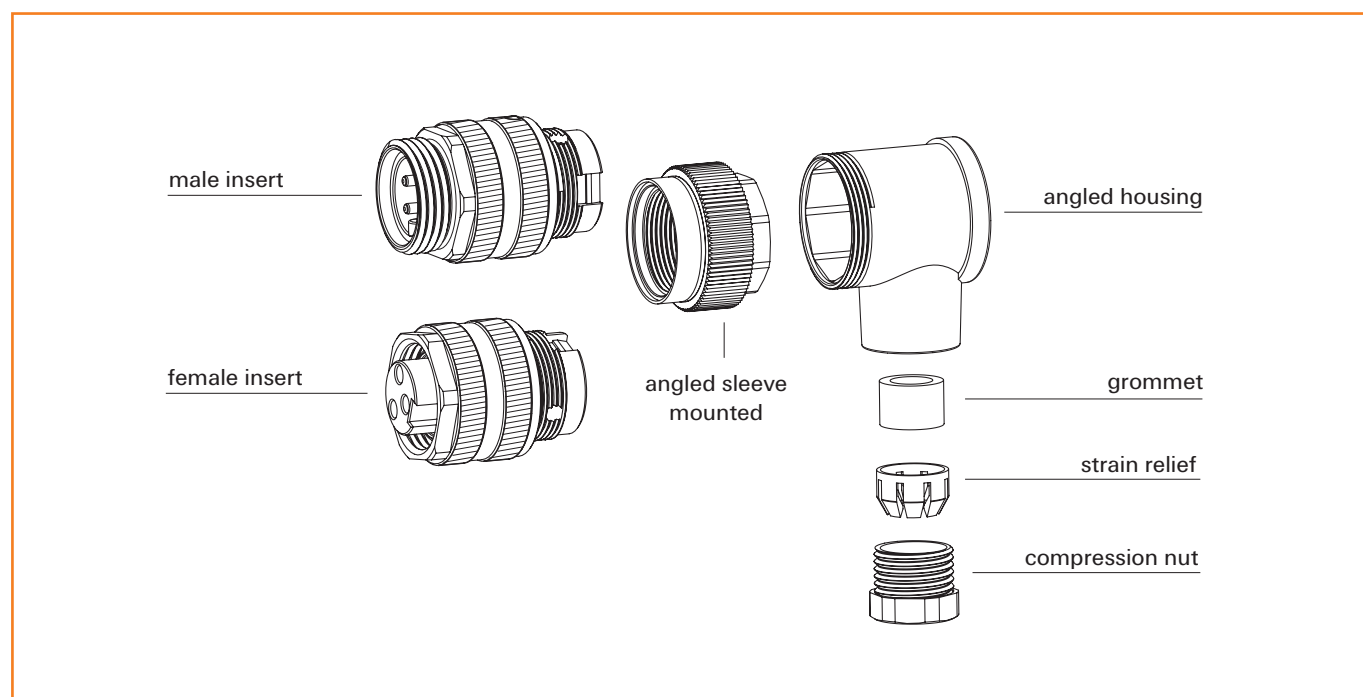


Individual component drawing of the customisable connector

Straight connector

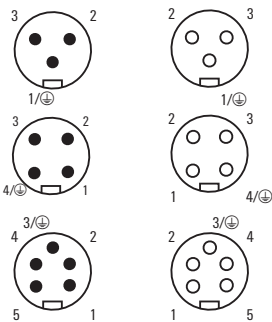


Angled connector



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

SAIS / SAIB

straight



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
Note		

Screw connection
PBT
7/8"
6...8 mm
0.5...1.5 mm²
9 A (4- and 5-pole), 12 A (3-pole)
250 V
-40 ... +85 °C
IP67
Gold-plated
CuZn
≥ 50
3

SAISW / SAIBW

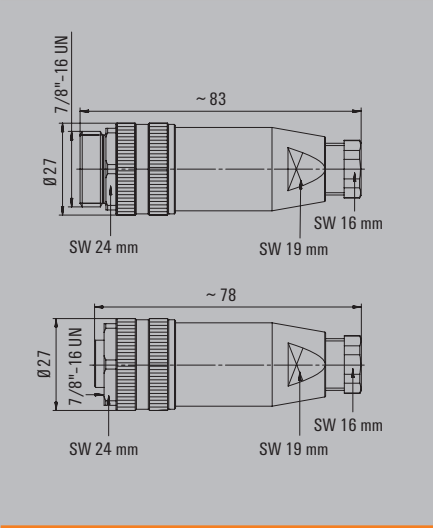
angled



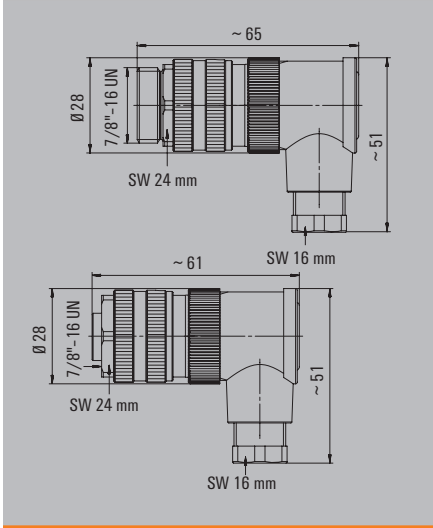
Type	Qty.	Order No.
SAISW-3/9-7/8	1	1291890000
SAISW-4/9-7/8	1	1808830000
SAISW-5/9-7/8	1	1291980000
SAIBW-3/9-7/8	1	1291930000
SAIBW-4/9-7/8	1	1812470000
SAIBW-5/9-7/8	1	1292020000
Note		

Screw connection
PBT
7/8"
6...8 mm
0.5... 1.5 mm²
9 A (4- and 5-pole), 12 A (3-pole)
250 V
-40 ... +85 ° C
IP67
Gold-plated
CuZn
≥ 50
3

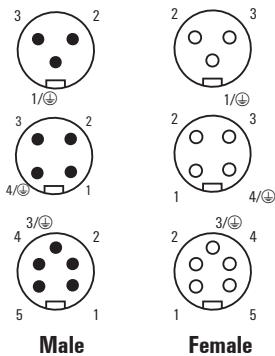
Dimensioned drawing



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

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)
250 V
-40 ... +85 ° C
IP67
Gold-plated
CuZn
≥ 50
3

SAISW / SAIBW

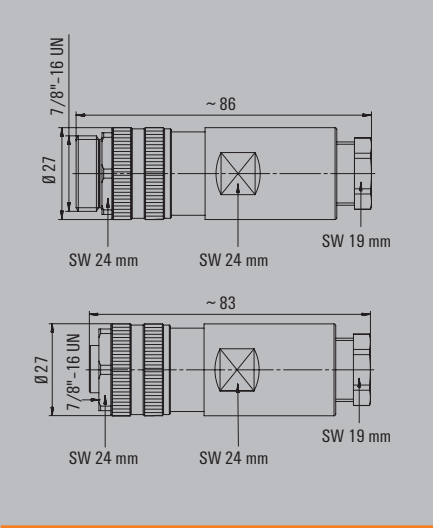
Angled



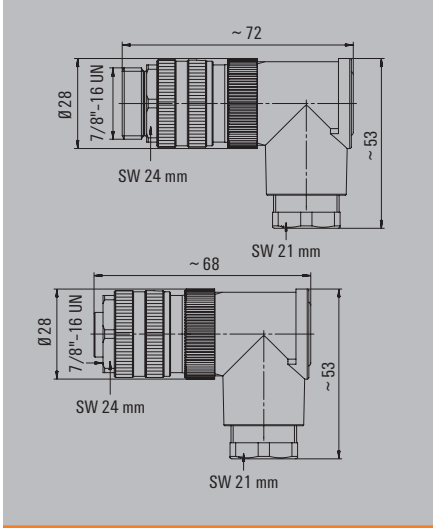
Type	Qty.	Order No.
SAISW-3/11-7/8	1	1291900000
SAISW-4/11-7/8	1	1292040000
SAISW-5/11-7/8	1	1291990000
SAIBW-3/11-7/8	1	1291940000
SAIBW-4/11-7/8	1	1292070000
SAIBW-5/11-7/8	1	1292030000
Note		

Screw connection
PBT
7/8"
8...10 mm
0.5...1.5 mm²
9 A (4- and 5-pole), 12 A (3-pole)
250 V
-40 ... +85 °C
IP67
Gold-plated
CuZn
≥ 50
3

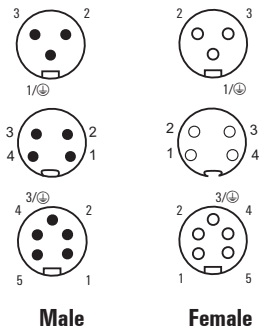
Dimensioned drawing



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	

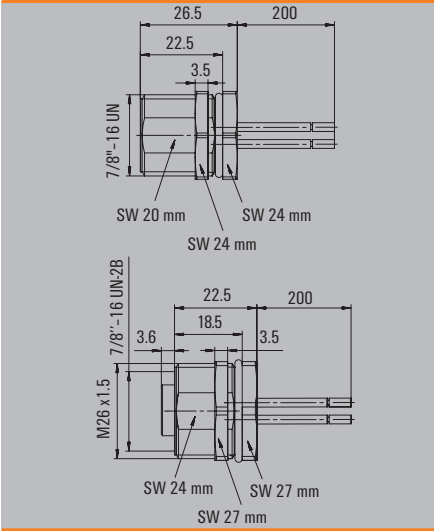
Type	Qty.	Order No.
SAIE-7/8S-3-0.2U-H	1	1292350000
SAIE-7/8S-4-0.2U-H	1	1292420000
SAIE-7/8S-5-0.2U-H	1	1292490000
SAIE-7/8B-3-0.2U-H	1	1292390000
SAIE-7/8B-4-0.2U-H	1	1292450000
SAIE-7/8B-5-0.2U-H	1	1292520000

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
Note

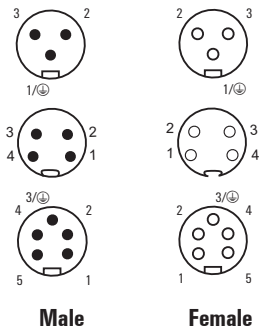
Zinc diecast, nickel-plated
7/8"
0.75 mm ²
8 A (4- and 5-pole), 10 A (3-pole)
300 V
-25...+85 °C
IP67, when screwed in
Gold-plated
CuZn
≥ 100
M26 x 1.5

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	

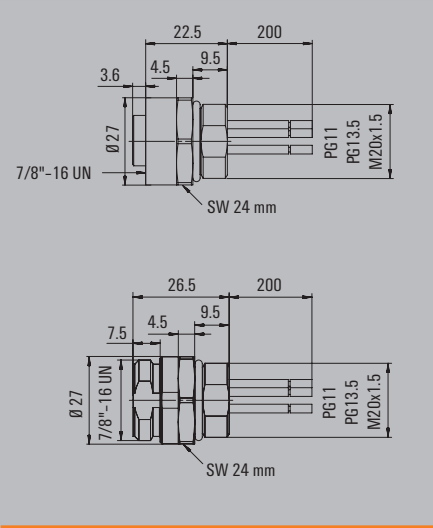
Type	Qty.	Order No.
SAIE-7/8S-3-0.2U-PG11	1	1292330000
SAIE-7/8S-4-0.2U-PG11	1	1292400000
SAIE-7/8S-5-0.2-PG11	1	1292470000
SAIE-7/8B-3-0.2U-PG11	1	1292370000
SAIE-7/8B-4-0.2U-PG11	1	1292430000
SAIE-7/8B-5-0.2U-PG11	1	1292500000
Note		

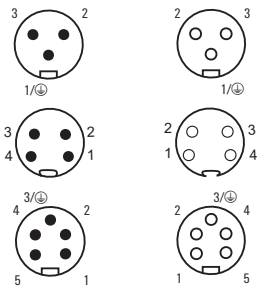
Technical data

Housing main material	Zinc diecast, nickel-plated
Connection thread	7/8"
Core cross-section	0.75 mm²
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	PG 11
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

Dimensioned drawing





Male

Female

Ordering data

Male	2-pole + PE 4-pole 4-pole + PE
Female	2-pole + PE 4-pole 4-pole + PE
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

7/8" Screw-in thread

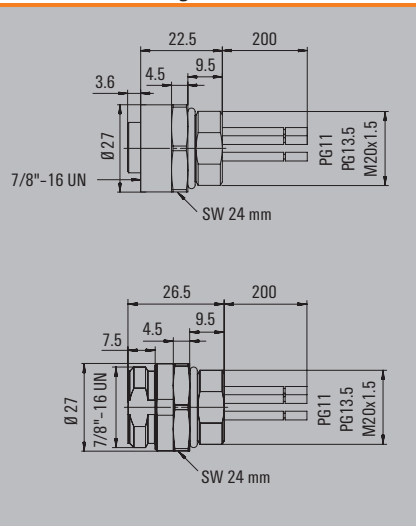
Mounting thread PG 13.5



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

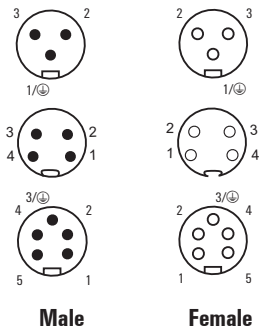
Zinc diecast, nickel-plated
7/8"
0.75 mm ²
8 A (4- and 5-pole), 10 A (3-pole)
300 V
-25...+85 °C
IP67, when screwed in
Gold-plated
CuZn
≥ 100
PG 13.5

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	

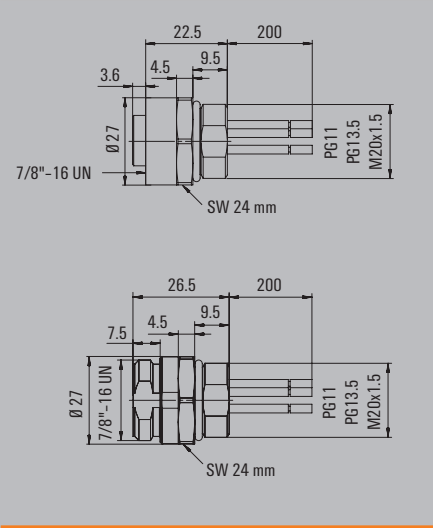
Type	Qty.	Order No.
SAIE-7/8S-3-0.2U-M20	1	1418040000
SAIE-7/8S-4-0.2U-M20	1	1418050000
SAIE-7/8-S-5-0.2U-M20	1	1471490000
SAIE-7/8-B-3-0.2U-M20	1	1471510000
SAIE-7/8-B-4-0.2U-M20	1	1471520000

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
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

Dimensioned drawing

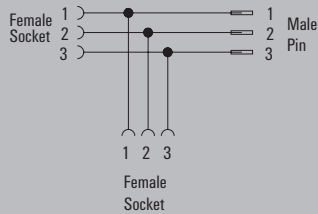


7/8" built-in plug

T distributor

7/8" T distributor

3-pole

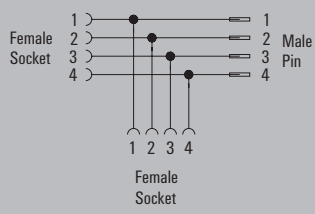


Ordering data

Type	Qty.	Order No.
SAI-Y-7/8 3P	1	1413920000

7/8" T distributor

4-pole

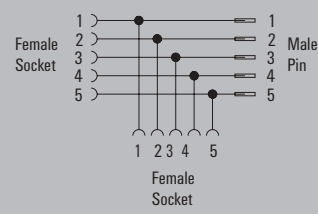


Ordering data

Type	Qty.	Order No.
SAI-Y-7/8 4P	1	1413930000

7/8" T distributor

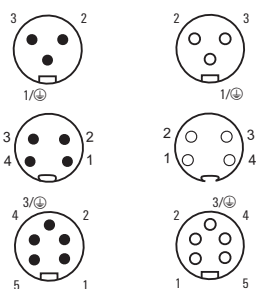
5-pole



Ordering data

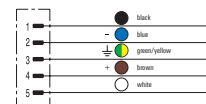
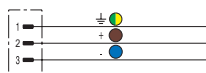
Type	Qty.	Order No.
SAI-Y-7/8 5P	1	1413940000

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	

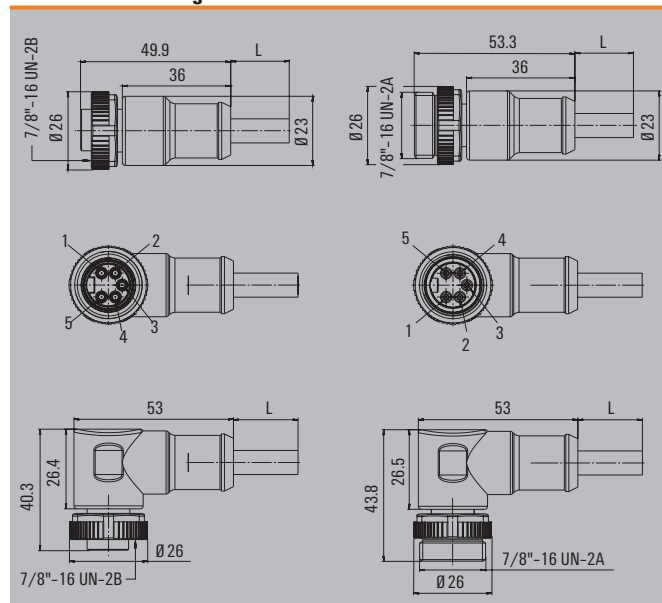
Standard cable lengths

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

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 Stainless Steel	K.28
	M23 connector for power transmission	K.30
	M23 protective caps	K.34
	Moulded M23 cables	K.36
	SAI distributor M12 with M23	K.37
	Installation instructions – Signal connectors	K.40
	Installation instructions – Power connectors	K.45
	M23 connector	K.49



M23 plug connectors, cables and passive distributors

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 distributors 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 distributors
 - 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 distributors

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).

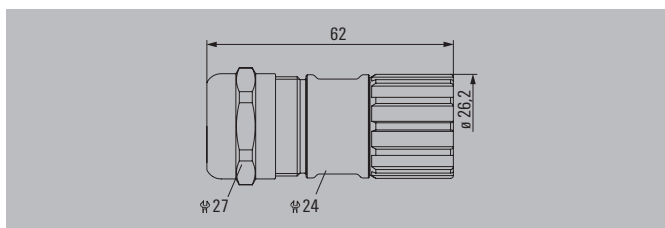


Figure 1: M23 cable connector

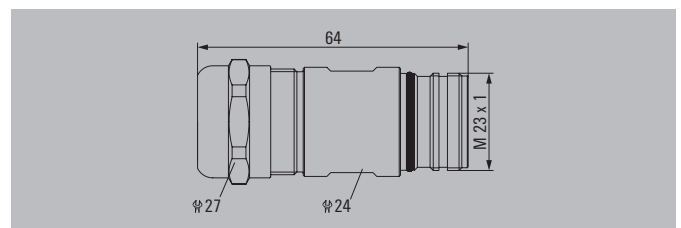


Figure 2: M23 coupling connector

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.

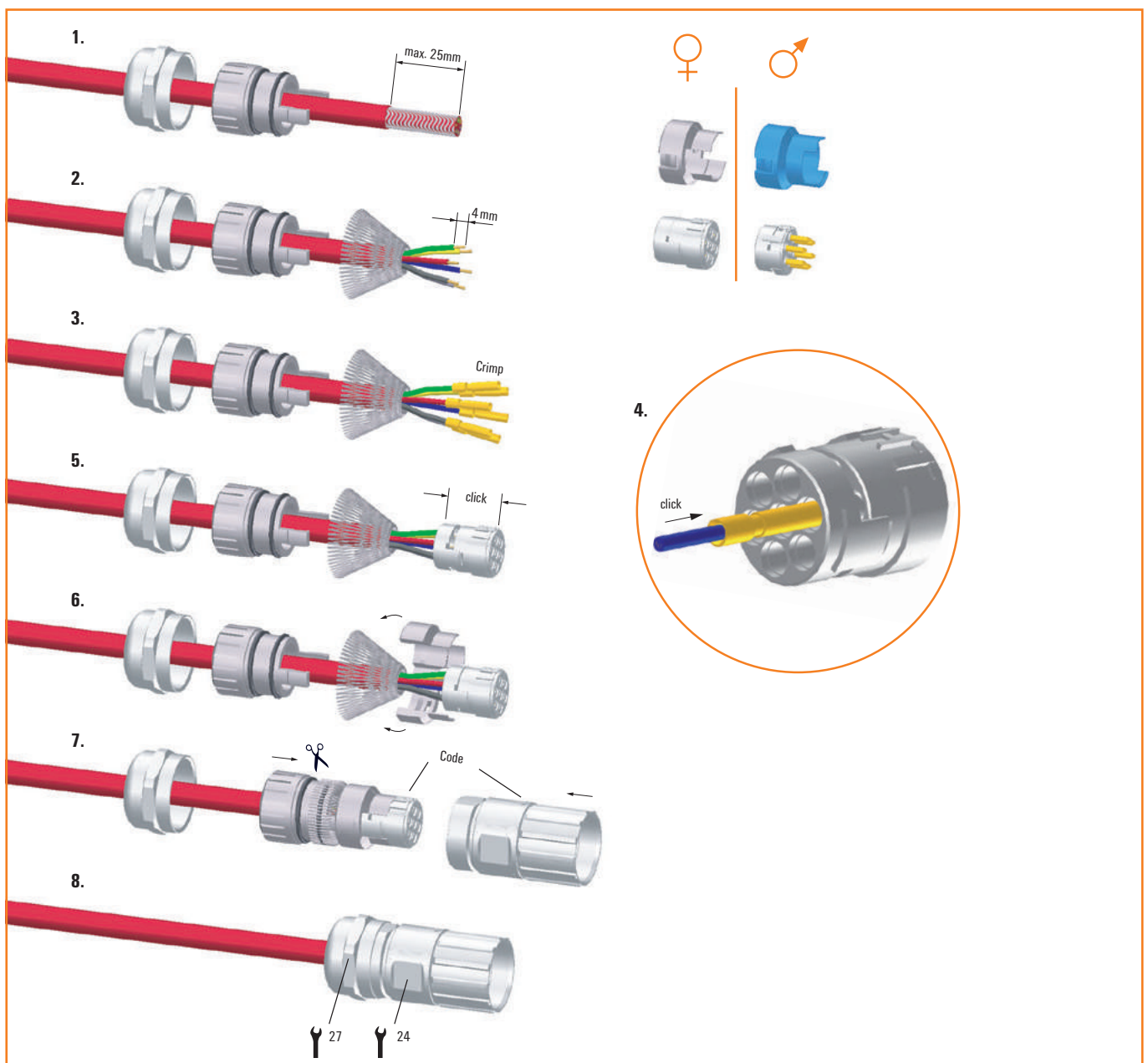


Figure 3: Design and assembly of an M23 connector

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 distributor with M23 connector

flexibility to adapt to uncertain conditions. For sensor systems, connectors with high pole counts are often used on SAI distributors. Individual sensors are connected to the distributors 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 distributors and cables

12-pole

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.

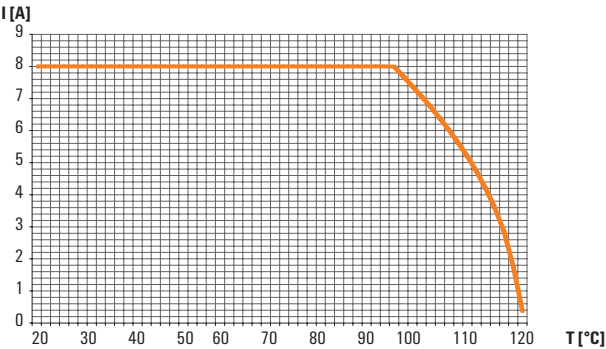
Signal connectors

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	1.5
Nominal current		A	20	20	8	20	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



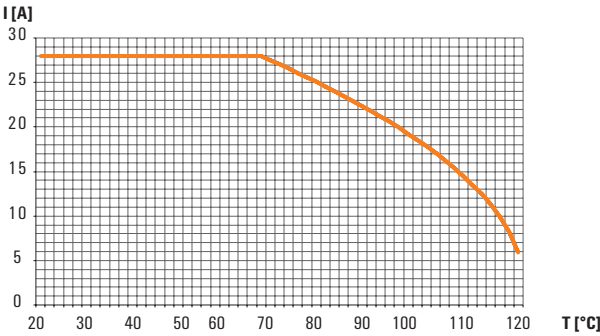
Power connectors

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

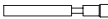


M23 connector for signal transmission

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			

K

Moulded M23 cables

Housing
Cable connector
Coupling connector
Angled connector
Angled connector (coupling)

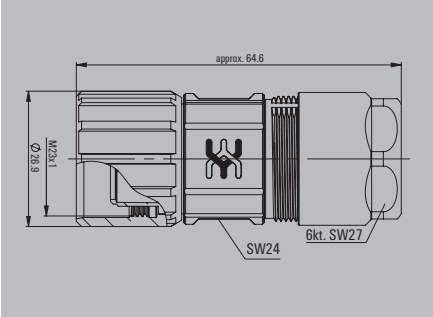


M23 connector for signal transmission

Housing

For cable diameters: 7 - 12 mm and 11 - 17 mm

Cable plug-in connector

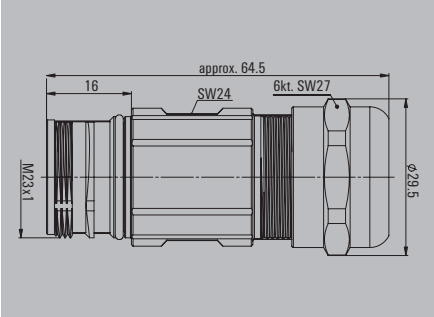


Ordering data

Type	Qty.	Order No.
SAI-M23-GS-11/17	1	1299390000
SAI-M23-GS-7/12	1	1995840000

Inserts and contacts must be ordered separately

Coupling plug-in connector

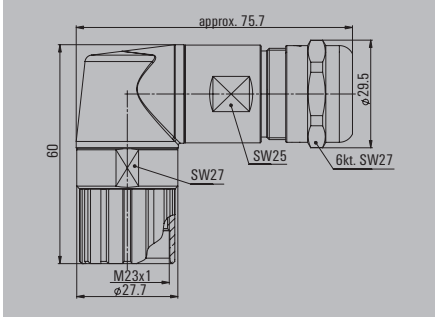


Ordering data

Type	Qty.	Order No.
SAI-M23-KS-7/12	1	1169900000

Inserts and contacts must be ordered separately

Angle plug-in connector

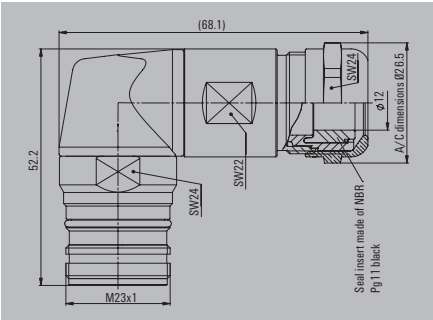


Ordering data

Type	Qty.	Order No.
SAI-M23-GSW-S-7/12	1	1169920000

Inserts and contacts must be ordered separately

Angle plug-in connector coupling



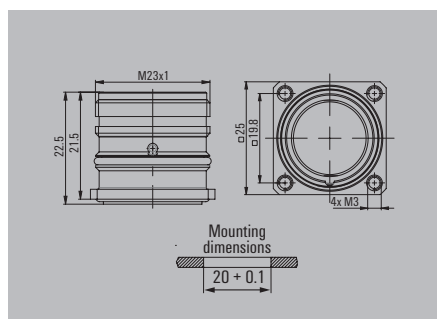
Ordering data

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)

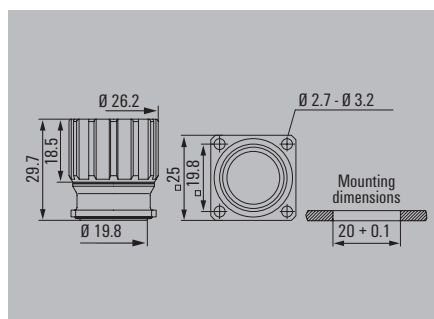


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-VW	1	1169940000

Inserts and contacts must be ordered separately

Device connector with knurled nut



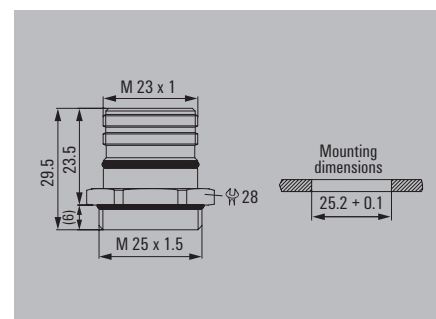
Ordering data

Type	Qty.	Order No.
SAIE-M23-S-RM	1	1169950000

Inserts and contacts must be ordered separately

Device connector, single-hole mount

for male and female inserts

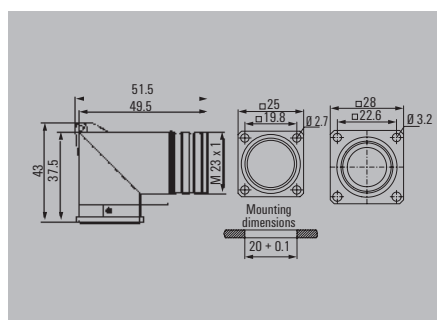


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-EM	1	1169970000

Inserts and contacts must be ordered separately

Device connector, angled

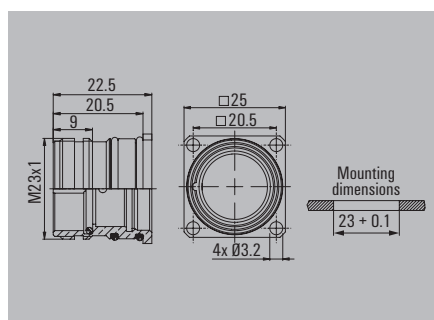


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-W	1	1169980000

Inserts and contacts must be ordered separately

Device connector, rear wall



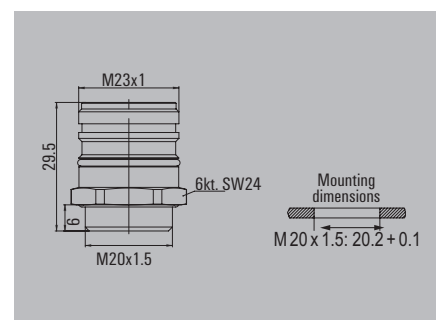
Ordering data

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

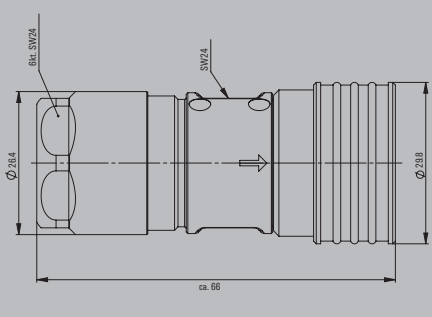
M23 connector for signal transmission

PushPull enclosure

For cable diameters 3 - 17 mm

Cable connector

Cable diameter: 3-7 mm

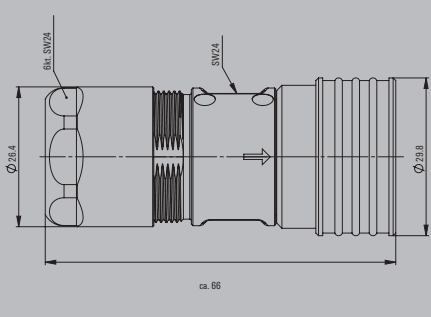


Ordering data

Type	Qty.	Order No.
SAI-M23PP-GS-3/7	1	2467720000
Inserts and contacts must be ordered separately		

Cable connector

Cable diameter: 7-12 mm

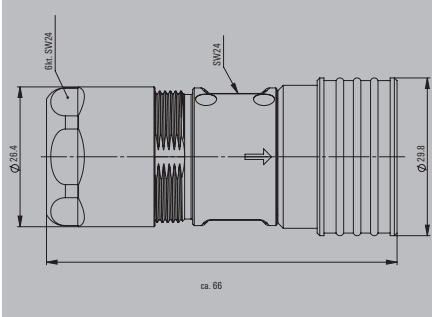


Ordering data

Type	Qty.	Order No.
SAI-M23PP-GS-7/12	1	2467730000
Inserts and contacts must be ordered separately		

Cable connector

Cable diameter: 11-17 mm

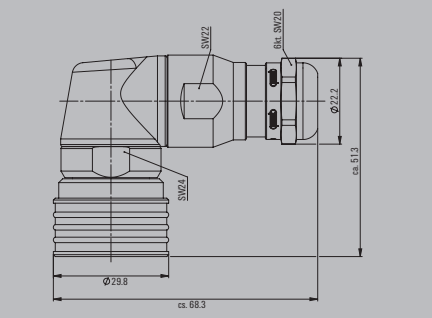


Ordering data

Type	Qty.	Order No.
SAI-M23PP-GS-11/17	1	2467740000
Inserts and contacts must be ordered separately		

Right-angle connector

Cable diameter: 3-7 mm

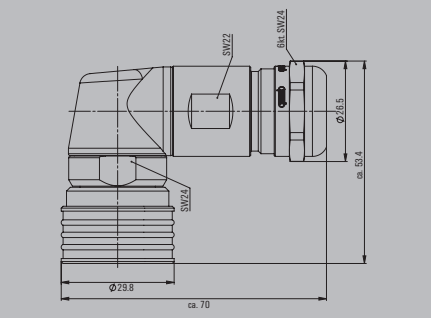


Ordering data

Type	Qty.	Order No.
SAI-M23PP-GSW-3/7	1	2467750000
Inserts and contacts must be ordered separately		

Angled connector

Cable diameter: 7-12 mm

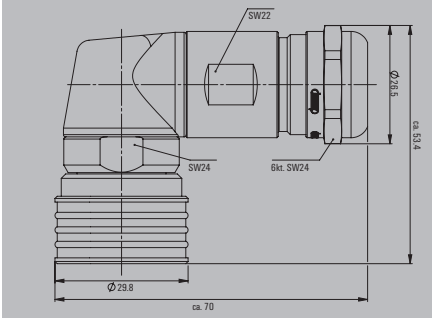


Ordering data

Type	Qty.	Order No.
SAI-M23PP-GSW-7/12	1	2467760000
Inserts and contacts must be ordered separately		

Angled connector

Cable diameter: 11-17 mm



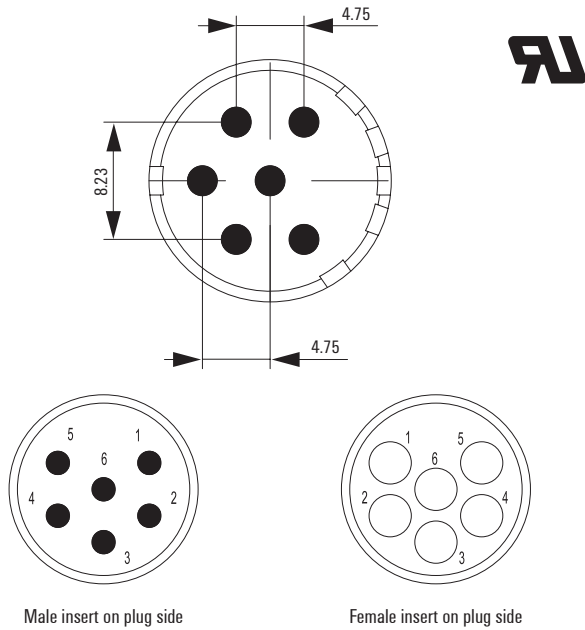
Ordering data

Type	Qty.	Order No.
SAI-M23PP-GSW-11/17	1	2467770000
Inserts and contacts must be ordered separately		

M23 connector for signal transmission

Inserts

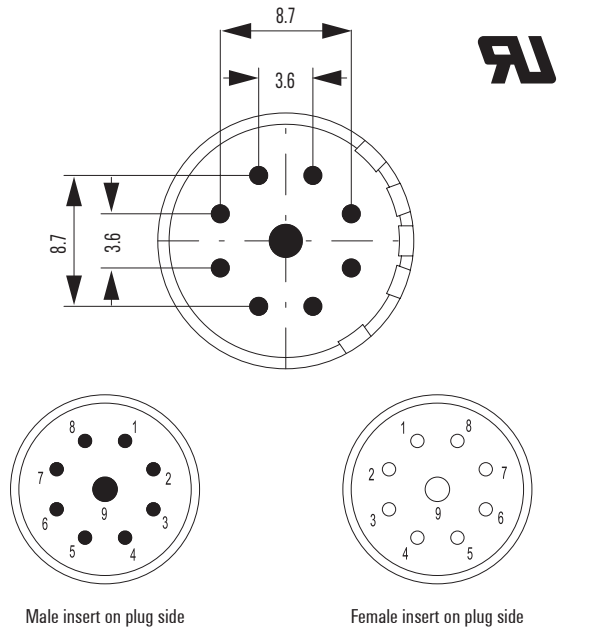
6-pole



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.			

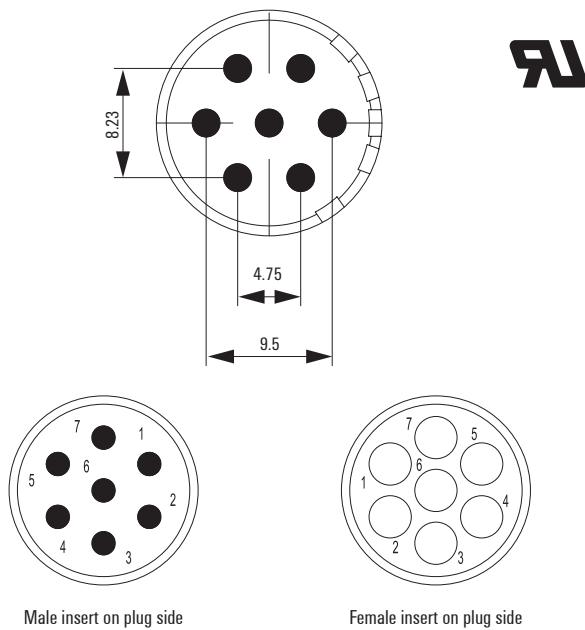
9-pole



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.			

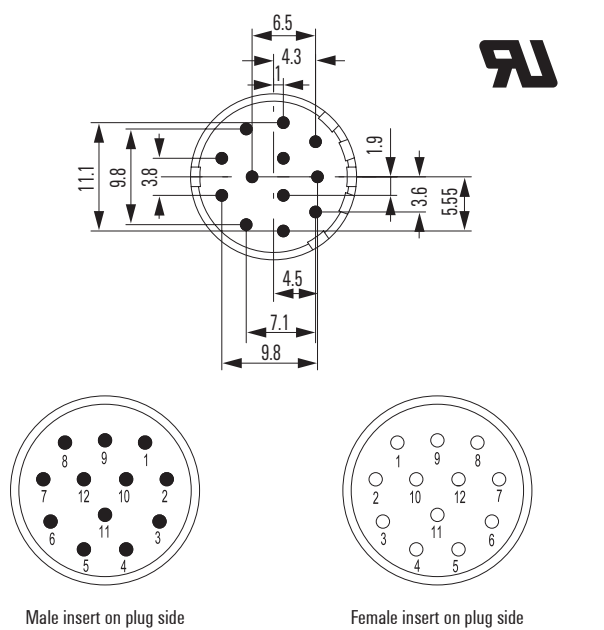
7-pole



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.			

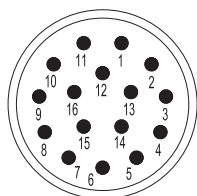
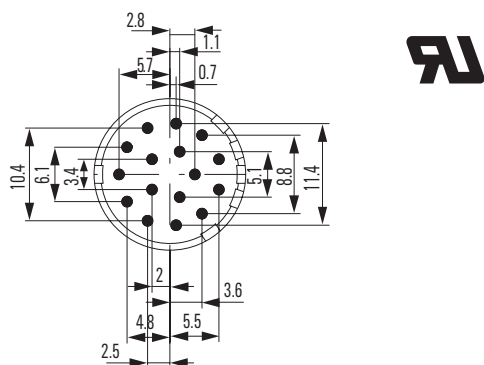
12-pole



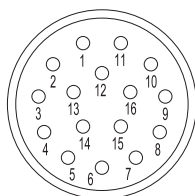
Ordering data

	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



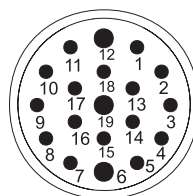
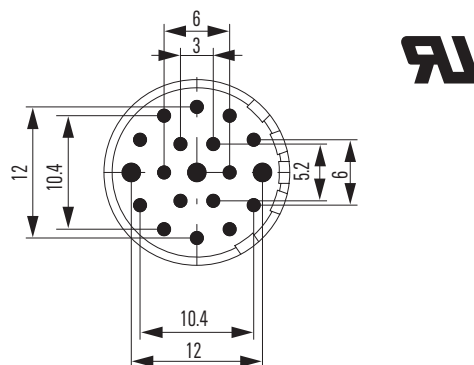
Female insert on plug side

Ordering data

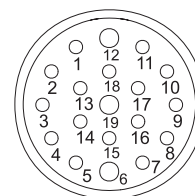
	Type	Qty.	Order No.
Insert 16-pole male	SAI-M23-SE-16	1	1170080000
Insert 16-pole socket	SAI-M23-BE-16	1	1170090000

Contacts must be ordered separately.

19-pole



Male insert on plug side



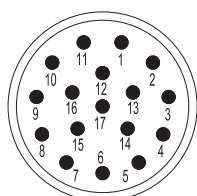
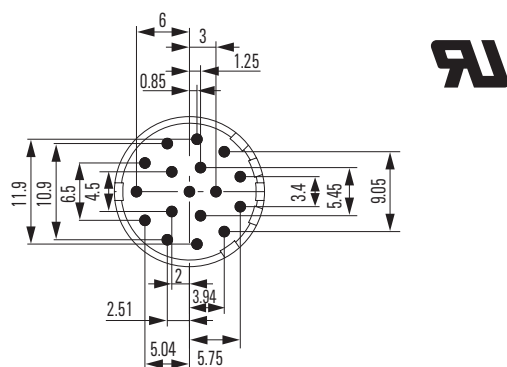
Female insert on plug side

Ordering data

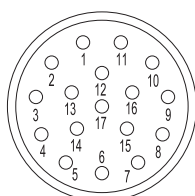
	Type	Qty.	Order No.
Insert 19-pole male	SAI-M23-SE-19	1	1170120000
Insert 19-pole socket	SAI-M23-BE-19	1	1170130000

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	

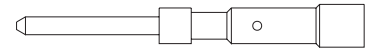
Contacts for signal connectors cannot be used in applications of power plug connectors, and vice versa.

M23 connector for signal transmission

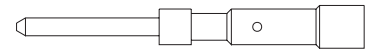
Contacts

Male 1 mm

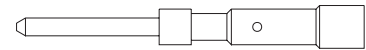
Core cross-section: 0.08 mm² to 0.50 mm²



Core cross-section: 0.14 mm² to 1.00 mm²

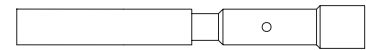


Core cross-section: 1.00 mm² to 1.50 mm²

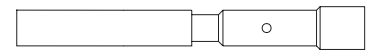


Female 1 mm

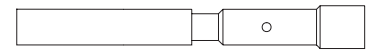
Core cross-section: 0.08 mm² to 0.50 mm²



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

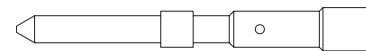
	Type	Qty.	Order No.
1.0 mm male (0.08-0.56)	SAI-M23-KSC-0.08/0.56	50	1170140000
1.0 mm male (0.14-1.00)	SAI-M23-KSC-0.14/1.00	50	1170150000
1.0 mm male (1.00-1.50)	SAI-M23-KSC-1.00-1.5	50	1170170000

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

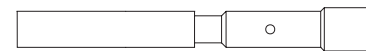
Male 1.5 mm

Core cross-section: 0.14 mm² to 1.00 mm²

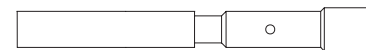


Female 1.5 mm

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

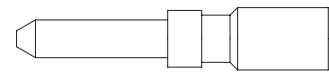
Ordering data

	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



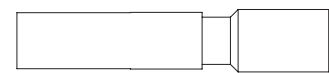
Male 2 mm

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 - Solder inserts

Today, PCB connectors are used in many areas of mechanical engineering. They are used anywhere where harsh environmental conditions require a device design with especially reliable connections.

All of the components in the M23 plug-in connector series are perfectly coordinated to one another, making design and assembly significantly easier.

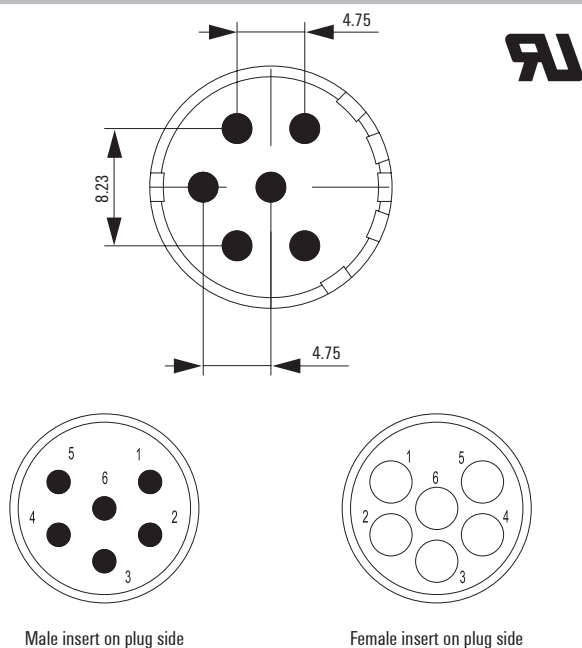
Benefits of our PCB connectors:

- Solder cup and print contact versions
- Many different numbers of poles:
 - 6-pole
 - 7-pole
 - 9-pole
 - 12-pole
 - 16-pole
 - 17-pole
 - 19-pole



Inserts with solder contacts

6-pole



Mounting schemes illustrate installation in enclosures
(see the following pages).

Technical data

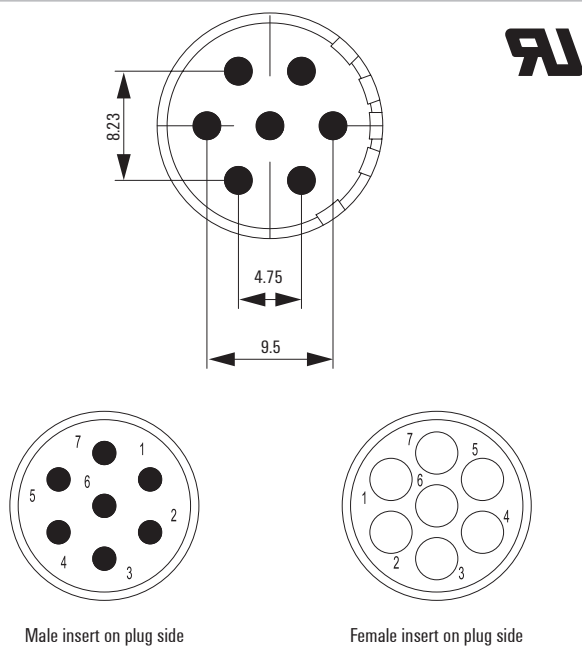
No. of poles	6
Contact number / diameter	6 x 2 mm

Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-6-F	1	1224000000
Female, solder cup	SAI-M23-BE-6-F	1	1224010000
Male, solder pin, 3.5 mm	SAI-M23-SE-6-3.5mm	1	1224020000
Female, solder pin 10 mm	SAI-M23-BE-6-10mm	1	1224030000
Male, solder pin 10 mm	SAI-M23-SE-6-10mm	1	1224050000
Male, solder pin, 17 mm	SAI-M23-SE-6-17mm	1	1224060000
Female, solder pin, 17 mm	SAI-M23-BE-6-17mm	1	1224040000

PCB hole-Ø: 1.5 mm

7-pole



Mounting schemes illustrate installation in enclosures
(see the following pages).

Technical data

No. of poles	7
Contact number / diameter	7 x 2 mm

Ordering data

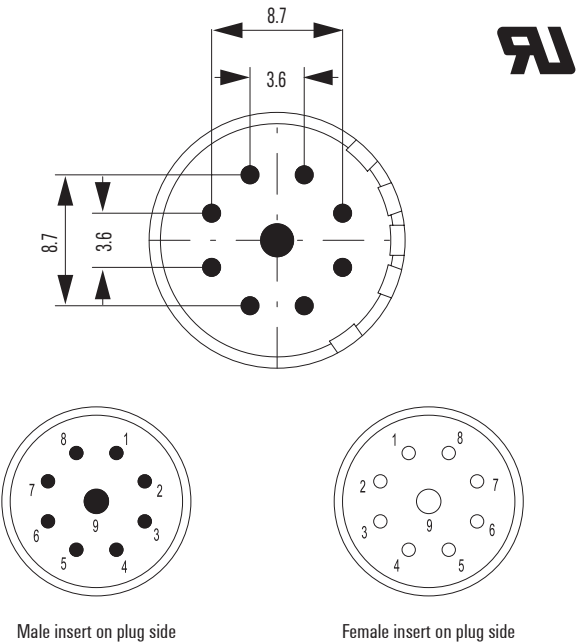
Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-7-F	1	1224070000
Female, solder cup	SAI-M23-BE-7-F	1	1224080000
Male, solder pin, 3.5 mm	SAI-M23-SE-7-3.5mm	1	1224090000
Female, solder pin 10 mm	SAI-M23-BE-7-10mm	1	1224100000
Male, solder pin 10 mm	SAI-M23-SE-7-10mm	1	1224120000
Male, solder pin, 17 mm	SAI-M23-SE-7-17mm	1	1224130000
Female, solder pin, 17 mm	SAI-M23-BE-7-17mm	1	1224110000

PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

M23 connector for signal transmission

Inserts with solder contacts

9-pole



Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

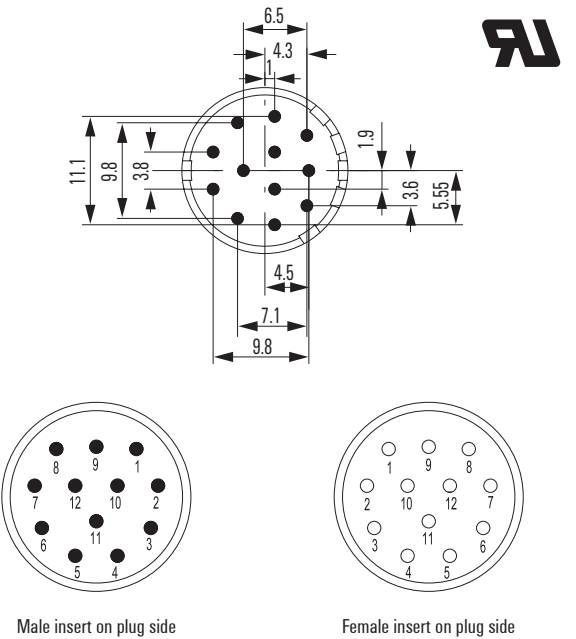
No. of poles	9
Contact number / diameter	8 x 1 mm + 1 x 2 mm

Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-9-F	1	1224490000
Female, solder cup	SAI-M23-BE-9-F	1	1224500000
Male, solder pin, 3.5 mm	SAI-M23-SE-9-3.5mm	1	1224510000
Male, solder pin 10 mm	SAI-M23-SE-9-10mm	1	1224540000
Female, solder pin 10 mm	SAI-M23-BE-9-10mm	1	1224520000
Male, solder pin, 17 mm	SAI-M23-SE-9-17mm	1	1224550000
Female, solder pin, 17 mm	SAI-M23-BE-9-17mm	1	1224530000
Pinout counter clockwise			
Male, solder cup	SAI-M23-SE-9-F-G	1	1224730000
Female, solder cup	SAI-M23-BE-9-F-G	1	1224740000
Male, solder pin 10 mm	SAI-M23-SE-9-10mm-G	1	1224770000
Female, solder pin 10 mm	SAI-M23-BE-9-10mm-G	1	1224750000
Male, solder pin, 17 mm	SAI-M23-SE-9-17mm-G	1	1224780000
Female, solder pin, 17 mm	SAI-M23-BE-9-17mm-G	1	1224760000

PCB hole-Ø: 1 mm contact = 0.8 mm (1.2 mm at 17 mm socket)
2 mm contact = 1.5 mm

12-pole



Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

No. of poles	12
Contact number / diameter	12 x 1 mm

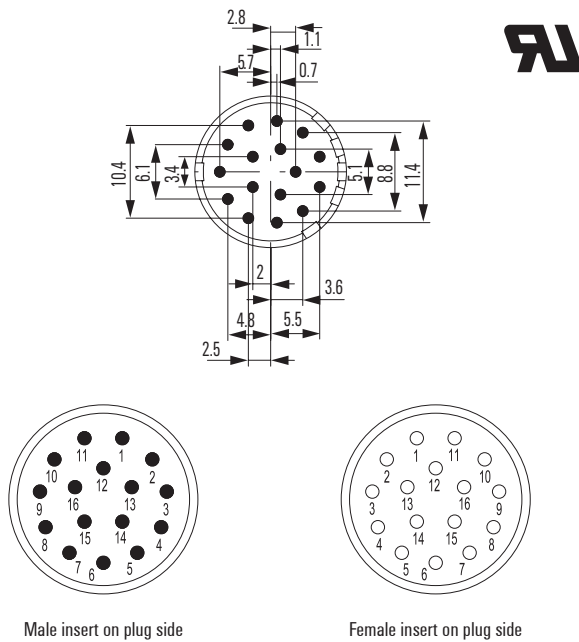
Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-12-F	1	1224140000
Female, solder cup	SAI-M23-BE-12-F	1	1224150000
Male, solder pin, 3.5 mm	SAI-M23-SE-12-3.5mm	1	1224160000
Male, solder cup, 3.5 mm, with PE contact pin 9	SAI-M23-SE-12-F-PE	1	1224180000
Female, solder cup 3.5 mm, with PE contact pin 9	SAI-M23-BE-12-F-PE	1	1224190000
Male, solder pin, 10 mm	SAI-M23-SE-12-10mm	1	1224220000
Female, solder pin, 10 mm	SAI-M23-BE-12-10mm	1	1224170000
Male, solder pin, 17 mm	SAI-M23-SE-12-17mm	1	1224230000
Female, solder pin, 17 mm	SAI-M23-BE-12-17mm	1	1224210000
Pinout counter clockwise			
Male, solder cup	SAI-M23-SE-12-F-G	1	1224560000
Female, solder cup	SAI-M23-BE-12-F-G	1	1224570000
Male, solder pin, 3.5 mm	SAI-M23-SE-12-3.5mm-G	1	1224580000
Male, solder pin, 10 mm	SAI-M23-SE-12-12mm-G	1	1224630000
Female, solder pin, 10 mm	SAI-M23-BE-12-10mm-G	1	1224590000
Male, solder cup, 10 mm, with PE contact pin 9	SAI-M23-SE-12-10mm-PE-G	1	1224620000
Female, solder cup, 10 mm, with PE contact pin 9	SAI-M23-BE-12-10mm-PE-G	1	1224610000
Male, Solder pin, 17 mm	SAI-M23-SE-12-17mm-G	1	1224640000

PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

Inserts with solder contacts

16-pole



Mounting schemes illustrate installation in enclosures
(see the following pages).

Technical data

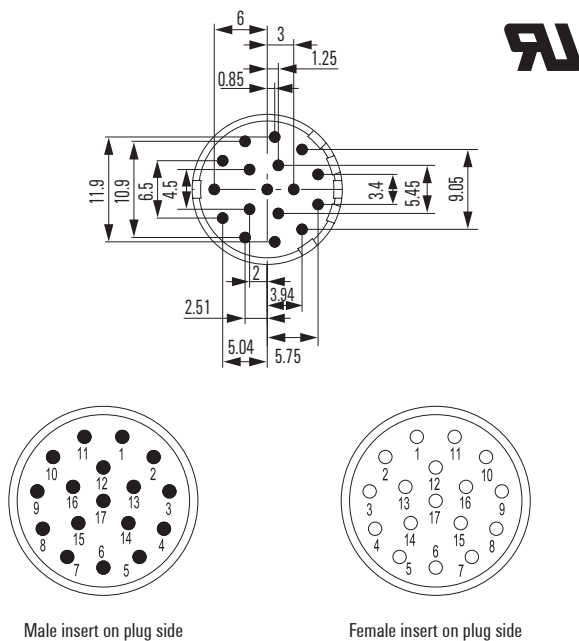
No. of poles	16
Contact number / diameter	6 x 1 mm

Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-16-F	1	1224240000
Female, solder cup	SAI-M23-BE-16-F	1	1224250000
Male, solder pin, 3.5 mm	SAI-M23-SE-16-3.5mm	1	1224260000
Female, solder pin 10 mm	SAI-M23-BE-16-10mm	1	1224270000
Male, solder pin 10 mm	SAI-M23-SE-16-10mm	1	1224290000
Male, solder pin, 17 mm	SAI-M23-SE-16-17mm	1	1224310000
Female, solder pin, 17 mm	SAI-M23-BE-16-17mm	1	1224280000

PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

17-pole



Mounting schemes illustrate installation in enclosures
(see the following pages).

Technical data

No. of poles	17
Contact number / diameter	17 x 1 mm

Ordering data

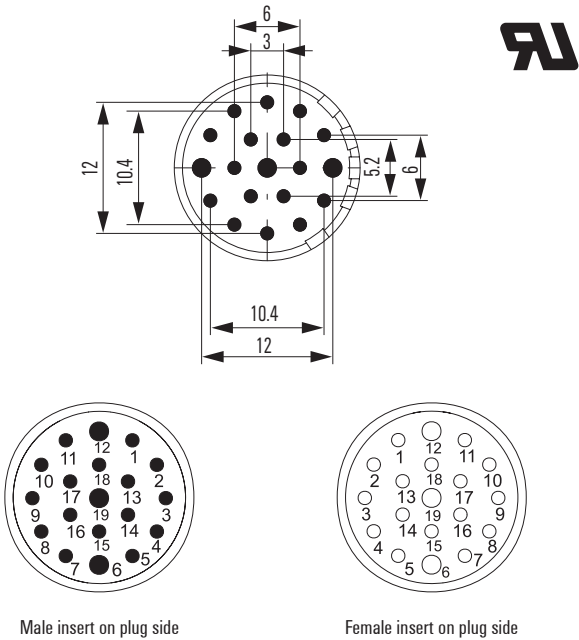
Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-17-F	1	1224320000
Female, solder cup	SAI-M23-BE-17-F	1	1224330000
Male, solder pin, 3.5 mm	SAI-M23-SE-17-3.5mm	1	1224340000
Male, solder pin 10 mm	SAI-M23-SE-17-10mm	1	1224370000
Female, solder pin 10 mm	SAI-M23-BE-17-10mm	1	1224350000
Male, solder pin, 17 mm	SAI-M23-SE-17-17mm	1	1224380000
Female, solder pin, 17 mm	SAI-M23-BE-17-17mm	1	1224360000
Pinout counter clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-17-F-G	1	1224650000
Female, solder cup	SAI-M23-BE-17-F-G	1	1224660000
Male, solder pin, 3.5 mm	SAI-M23-SE-17-3.5mm-G	1	1224670000
Male, solder pin 10 mm	SAI-M23-SE-17-10mm-G	1	1224710000
Female, solder pin 10 mm	SAI-M23-BE-17-10mm-G	1	1224680000
Male, solder pin, 17 mm	SAI-M23-SE-17-17mm-G	1	1224720000
Female, solder pin, 17 mm	SAI-M23-BE-17-17mm-G	1	1224690000

PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

M23 connector for signal transmission

Inserts with solder contacts

19-pole



Mounting schemes illustrate installation in enclosures
(see the following pages).

Technical data

No. of poles	19
Contact number / diameter	16 x 1 mm + 3 x 1.5 mm

Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-19-F	1	1224390000
Female, solder cup	SAI-M23-BE-19-F	1	1224400000
Male, solder pin, 3.5 mm	SAI-M23-SE-19-3.5mm	1	1224410000
Male, solder cup, 3.5 mm, with PE contact pin 12	SAI-M23-SE-19-3.5mmPE12	1	1224460000
Female, solder cup 3.5 mm, with PE contact pin 12	SAI-M23-BE-19-3.5mm-PE	1	1224440000
Male, solder pin, 10 mm	SAI-M23-SE-19-10mm	1	1224470000
Female, solder pin, 10 mm	SAI-M23-BE-19-10mm	1	1224420000
Male, solder cup, 10 mm, with PE contact pin 12	SAI-M23-SE-19-10mm-PE	1	1224430000
Male, solder pin, 17 mm	SAI-M23-SE-19-17mm	1	1224480000
Female, solder pin, 17 mm	SAI-M23-BE-19-17mm	1	1224450000

PCB hole-Ø: 1 mm contact = 0.8 mm (1.2 mm at 17 mm socket)
1.5 mm contact = 1.5 mm

M23 connector for signal transmission

Overview of inserts and housings

This table shows the different combination possibilities of the inserts and solder pins, with housings.

Solder pin affiliation

Type	Order No.	10 mm	17 mm
SAIE-M23-S-VW	1169940000	X	X
SAIE-M23-S-RM	1169950000		X
SAIE-M23-S-EM	1169970000		X
SAIE-M23-S-HW	1169990000	X	X

Device connector with knurled nut

Male insert

Male insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	8.6	9.6

Female insert

Female insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	7.8	8.8

Ordering data

Type	Qty.	Order No.
SAIE-M23-S-RM	1	1169950000

Device connector (front panel)

Male insert

Male insert	L1	L2	L3
10 mm	4.5	10.3	11.65
17 mm	4.5	17.3	18.65

Female insert

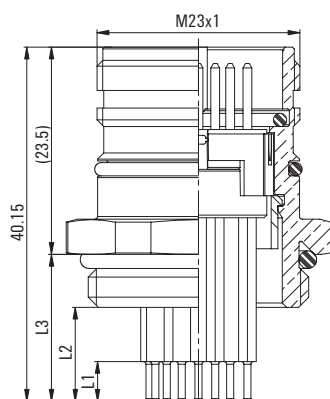
Female insert	L1	L2	L3
10 mm	4.5	5.3	11.1
17 mm	4.5	12.3	18.1

Ordering data

Type	Qty.	Order No.
SAIE-M23-S-VW	1	1169940000

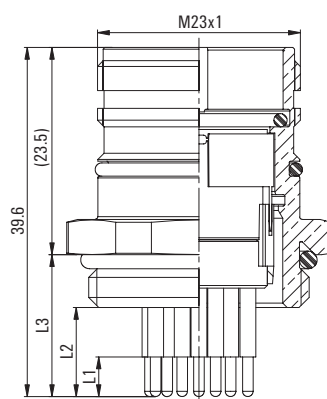
Device connector (single-hole mount)

Male insert



Male insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	10.65	16.65

Female insert



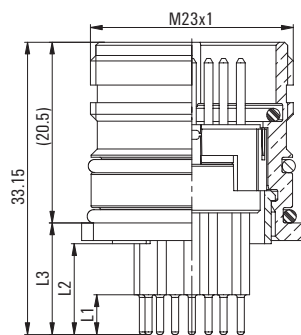
Female insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	10.1	16.1

Ordering data

Type	Qty.	Order No.
SAIE-M23-SEM	1	1169970000

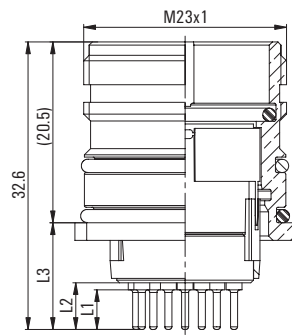
Device connector (back panel)

Male insert



Male insert	L1	L2	L3
10 mm	4.5	10.3	12.65
17 mm	4.5	17.3	19.65

Female insert



Female insert	L1	L2	L3
10 mm	4.5	5.3	12.1
17 mm	4.5	12.3	19.1

Ordering data

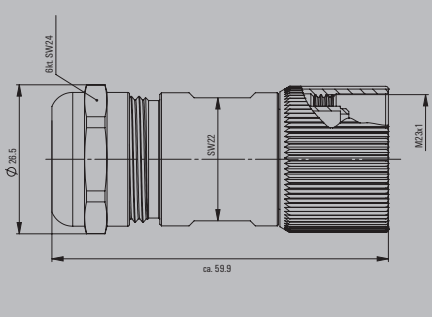
Type	Qty.	Order No.
SAIE-M23-SHW	1	1169990000

M23 connector Stainless steel

Stainless steel enclosure

For cables with outer diameter: 7 - 12 mm

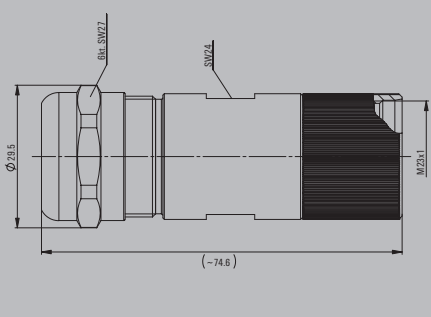
Cable connector for signal transmission



Ordering data

Type	Qty.	Order No.
SAI-M23-GS-7/12-VA	1	1452440000
Inserts and contacts must be ordered separately.		

Cable connector for power transmission



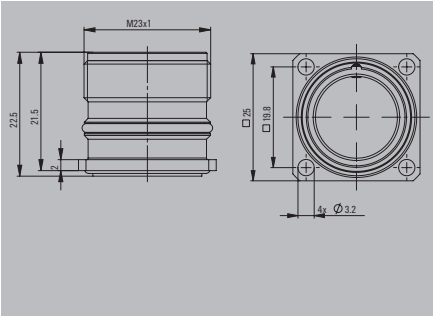
Ordering data

Type	Qty.	Order No.
SAI-M23-GS-L-7/12-VA	1	1479410000
Inserts and contacts must be ordered separately.		

Device connector housing stainless steel

Device connector for signal transmission

Front panel

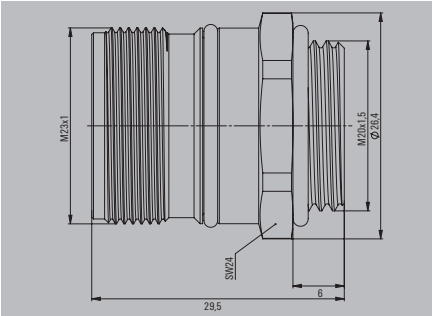


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-VW-VA	1	1452450000
Inserts and contacts must be ordered separately.		

Device connector for signal transmission

Single hole

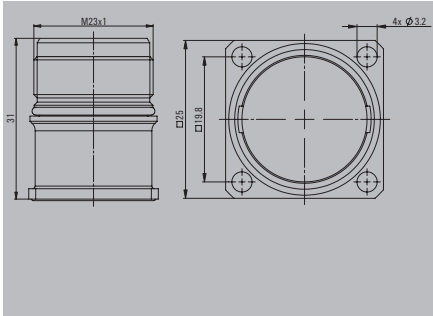


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-EM-VA	1	1479400000
Inserts and contacts must be ordered separately.		

Device connector for power transmission

Front panel

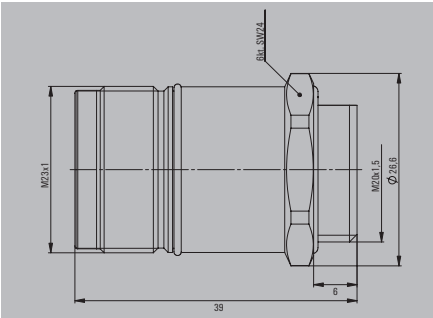


Ordering data

Type	Qty.	Order No.
SAIE-M23-L-VW-VA	1	1483880000
Inserts and contacts must be ordered separately.		

Device connector for power transmission

Single hole



Ordering data

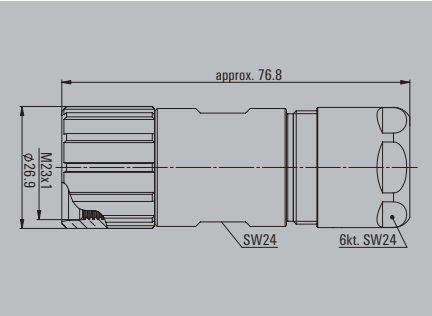
Type	Qty.	Order No.
SAIE-M23-L-EM-VA	1	1479420000
Inserts and contacts must be ordered separately.		

M23 connector for power transmission

Housing

For cables with outer diameter: 7 - 12 mm

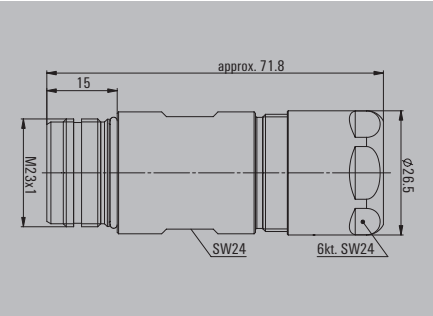
Cable plug-in connector



Ordering data

Type	Qty.	Order No.
SAI-M23-GS-L-7/12	1	1995800000
Inserts and contacts must be ordered separately		

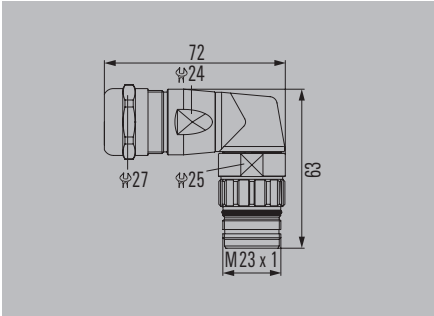
Coupling plug-in connector



Ordering data

Type	Qty.	Order No.
SAI-M23-KS-L-7/12	1	1170270000
Inserts and contacts must be ordered separately		

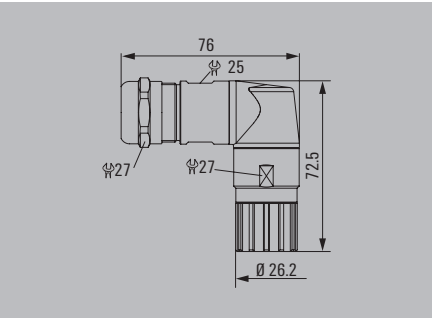
Angle plug-in connector



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

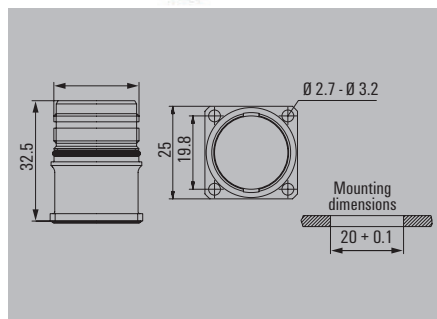


Ordering data

Type	Qty.	Order No.
SAI-M23-KSW-L-7/12	1	1170290000
Inserts and contacts must be ordered separately		

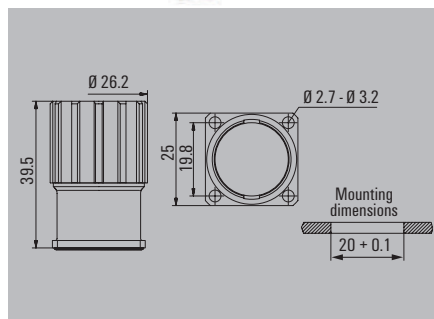
Device connector housing

With 3.2 mm fixing holes

Device connector (front wall)**Ordering data**

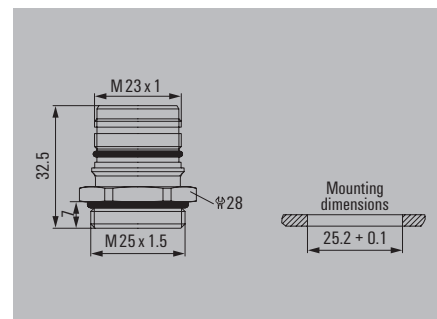
Type	Qty.	Order No.
SAIE-M23-L-VW	1	1170300000

Inserts and contacts must be ordered separately

Device connector with knurled nut**Ordering data**

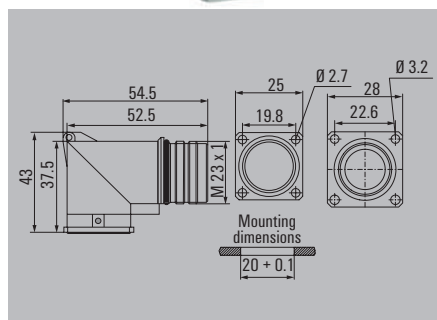
Type	Qty.	Order No.
SAIE-M23-L-RM	1	1170310000

Inserts and contacts must be ordered separately

Device connector, single-hole mount**Ordering data**

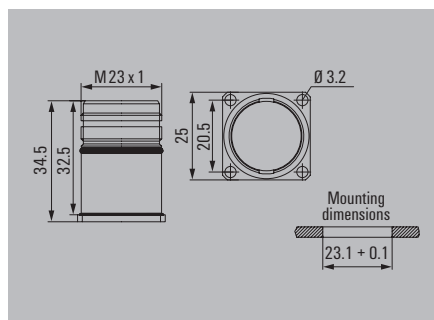
Type	Qty.	Order No.
SAIE-M23-L-EM	1	1170320000

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**

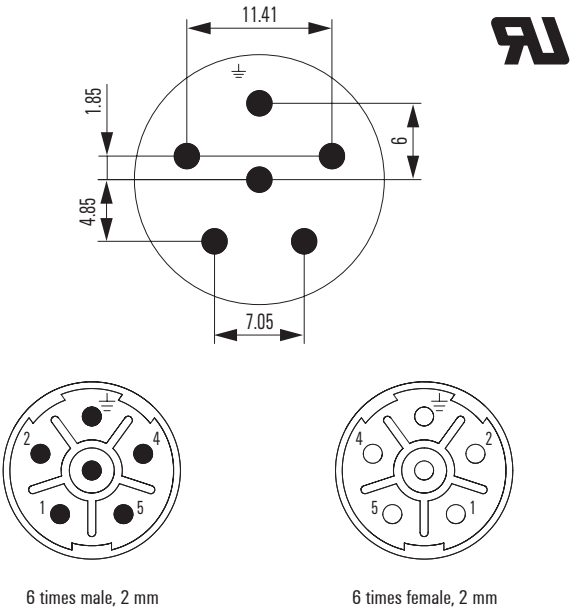
Type	Qty.	Order No.
SAIE-M23-L-HW	1	1170340000

Inserts and contacts must be ordered separately

M23 connector for power transmission

Inserts

5 + PE



Ordering data

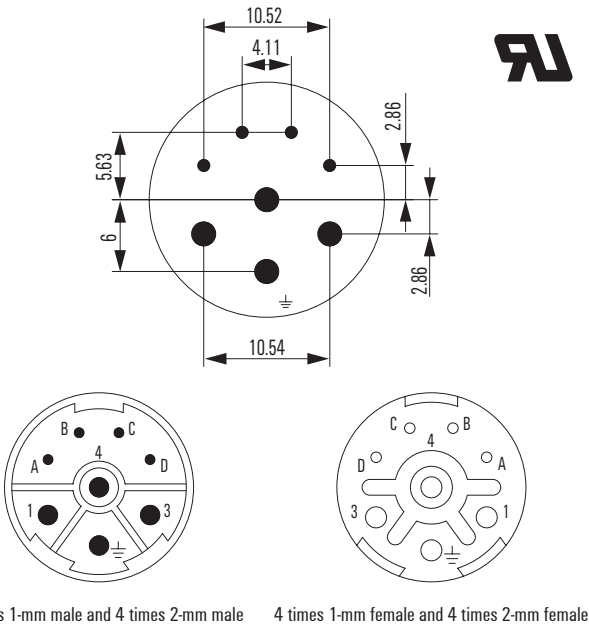
	Type	Qty.	Order No.
6 times male 2 mm	SAH-M23-SE-L-6	1	1170350000
6 times female, 2 mm	SAH-M23-BE-L-6	1	1170370000
Contacts must be ordered separately.			

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

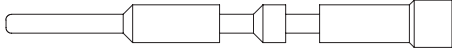


Ordering data

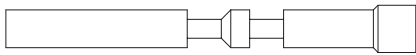
	Type	Qty.	Order No.
4 times 1-mm male and 4 times 2-mm male	SAH-M23-SE-L-4/4	1	1170380000
4 times 1-mm female and 4 times 2-mm female	SAH-M23-BE-L-4/4	1	1995810000
Contacts must be ordered separately.			

Contacts

Male 1 mm

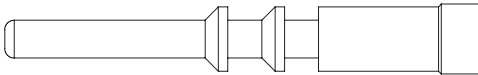
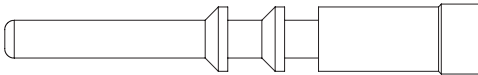
0.25 mm² to 1.00 mm²

Female 1 mm

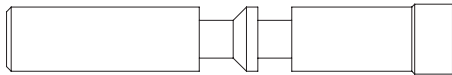
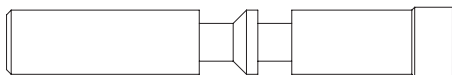
0.25 mm² to 1.00 mm²

with integrated SLS® technology

Male 2 mm

0.75 mm² to 2.50 mm²2.50 mm² to 4.00 mm²

Female 2 mm

0.75 mm² to 2.50 mm²2.50 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
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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	1	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	1	1408270000

M23 protective caps, stainless steel

M23 protective cap

Stainless steel, for internal thread
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-VA-AG	1	2125220000

M23 protective cap

Stainless steel, for internal thread with lanyard
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-VA-AG-FS	1	2125950000

M23 protective cap

Brass, for external thread
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-VA-IG	1	2124610000

M23 protective cap

Brass, for external thread with lanyard
IP67 / IP69K

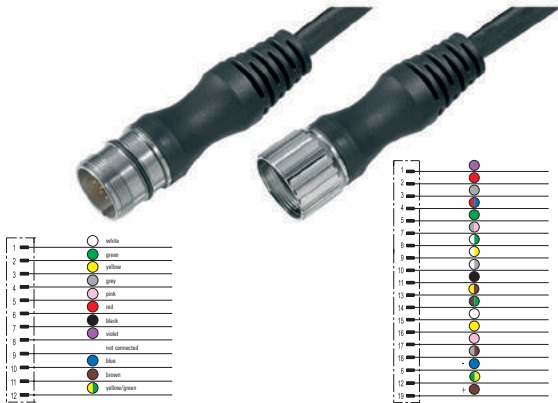
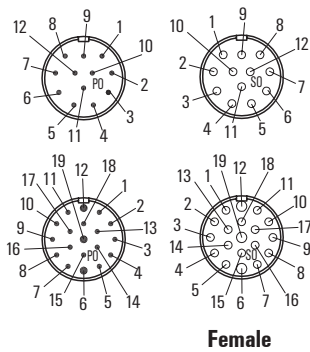


Ordering data

Type	Qty.	Order No.
SAI-M23-SK-VA-IG-FS	1	2124860000

Moulded M23 cables

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	

K

Standard cable lengths

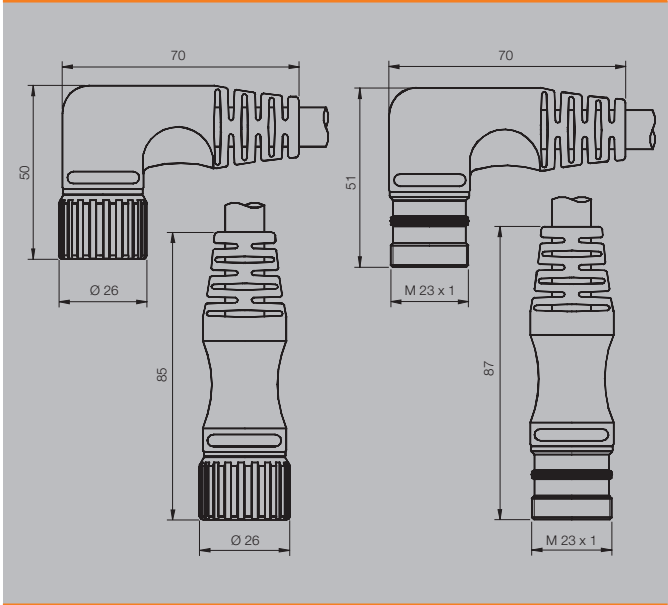
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

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		EAC

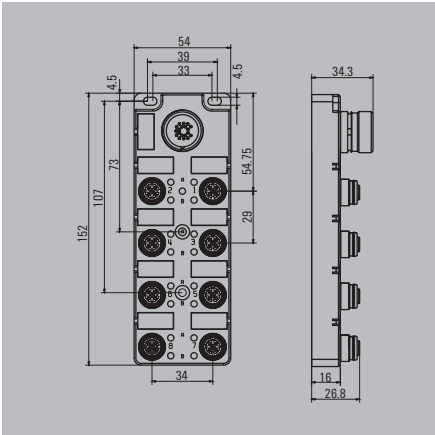
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



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	

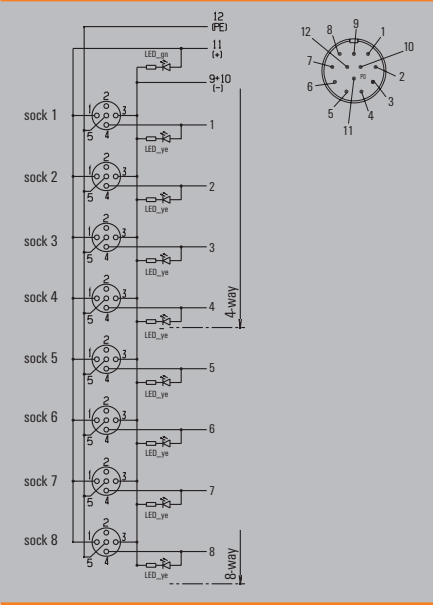
SAI-4/8-S		4-pole
Type	Qty.	Order No.
SAI-4-S 4P FC	1	1847960000
SAI-8-S 4P FC	1	1847920000
Other versions on request		

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		

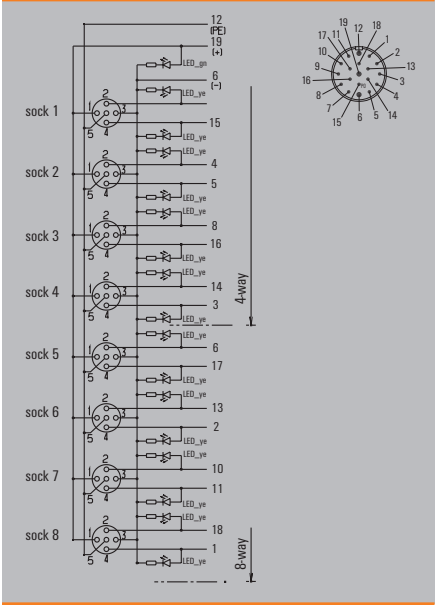
Technical data

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



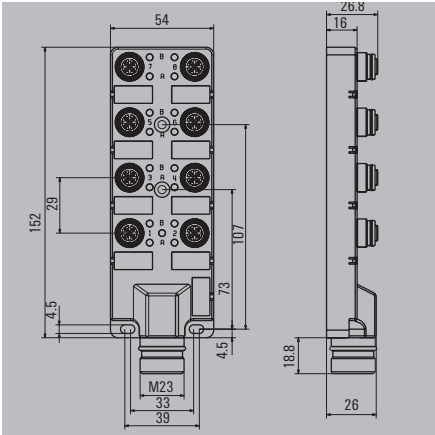
Wiring diagram



SAI distributor M12 with M23

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

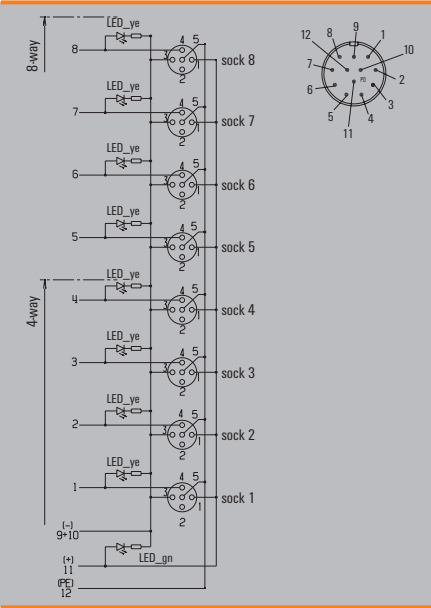
5-pole

Type	Qty.	Order No.
SAI-8-SH 5P FC	1	1859140000

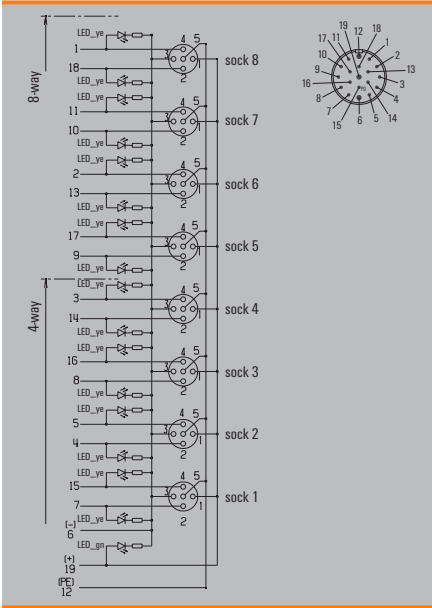
Technical data

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

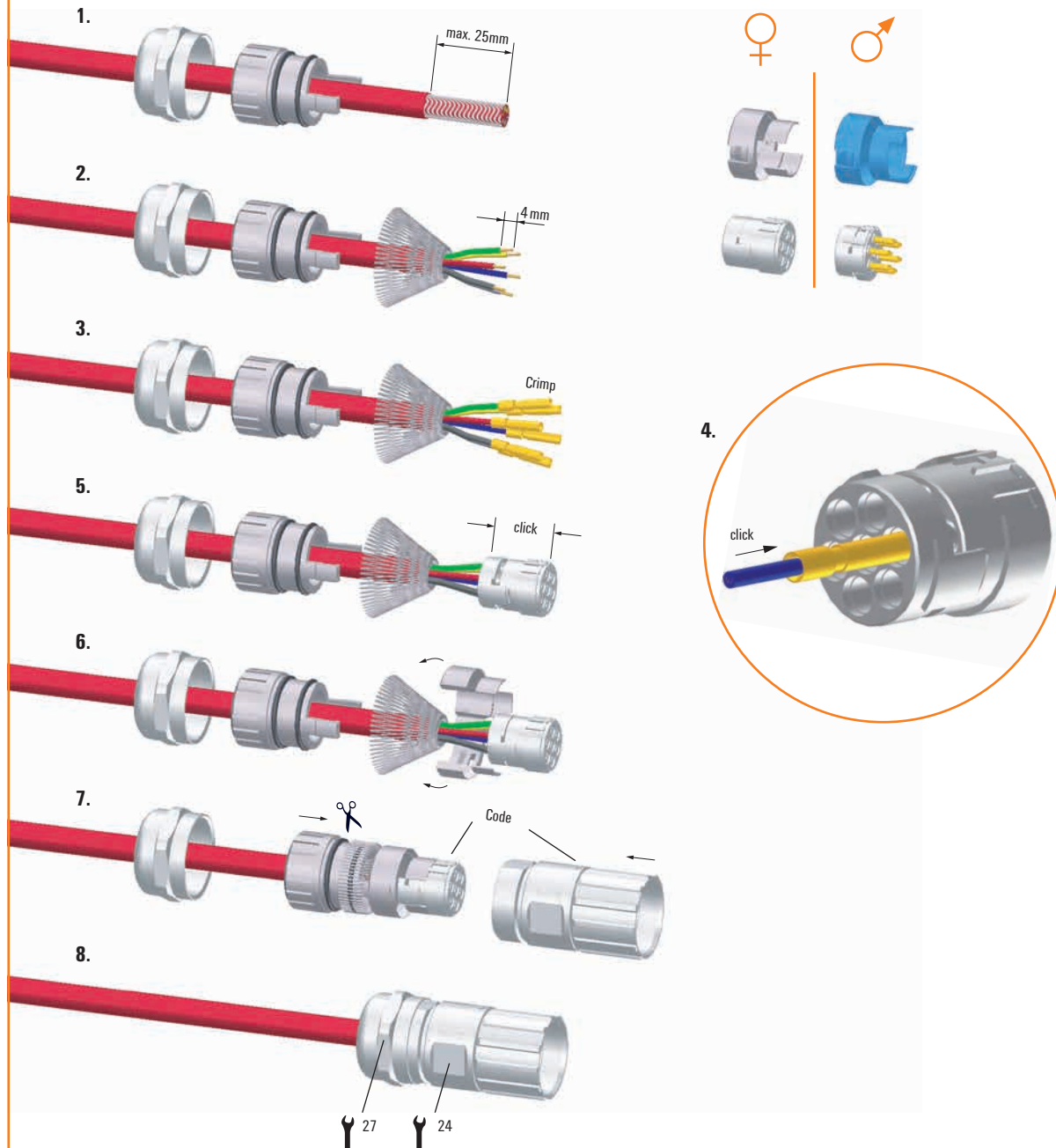
Wiring diagram



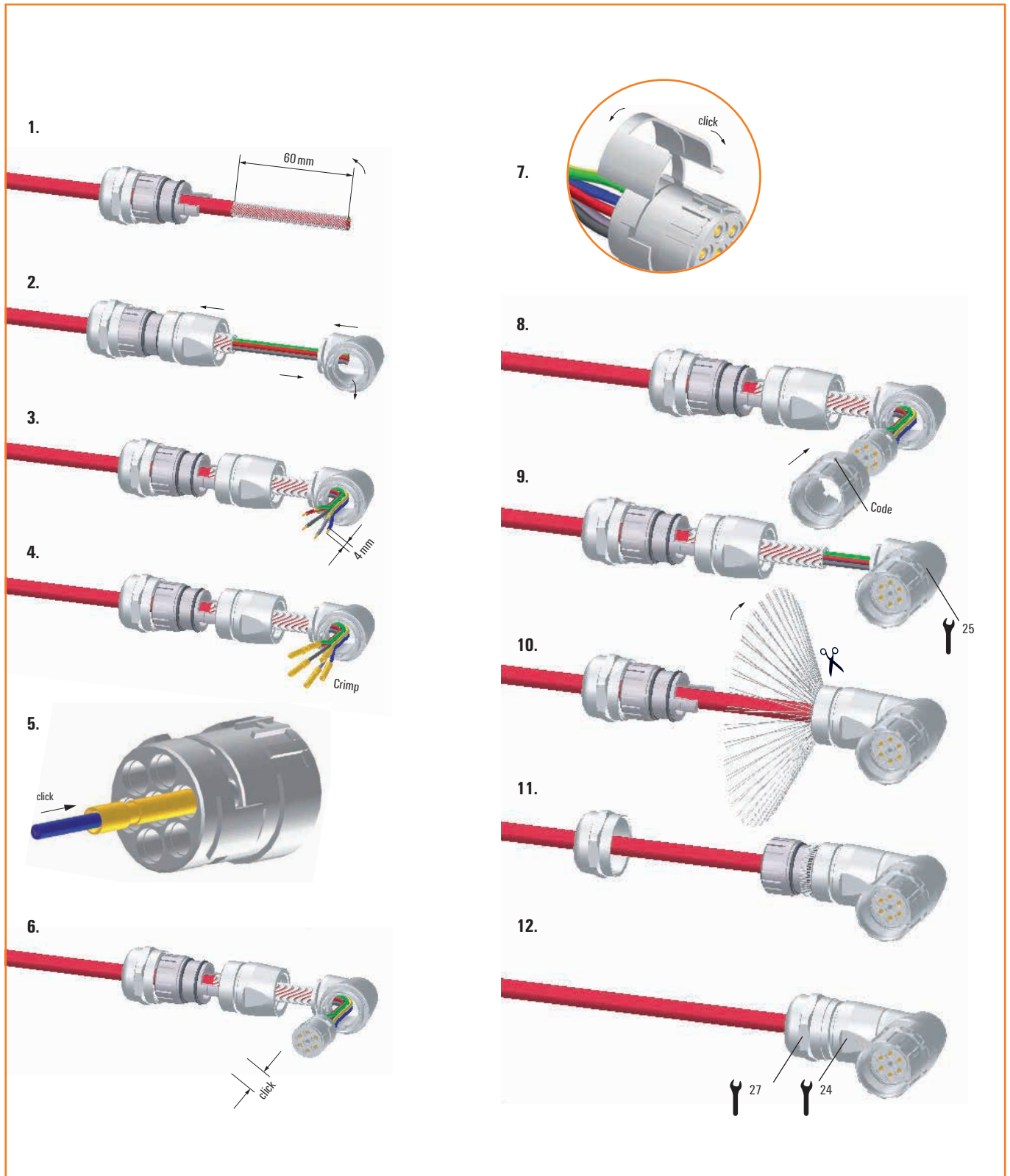
Wiring diagram



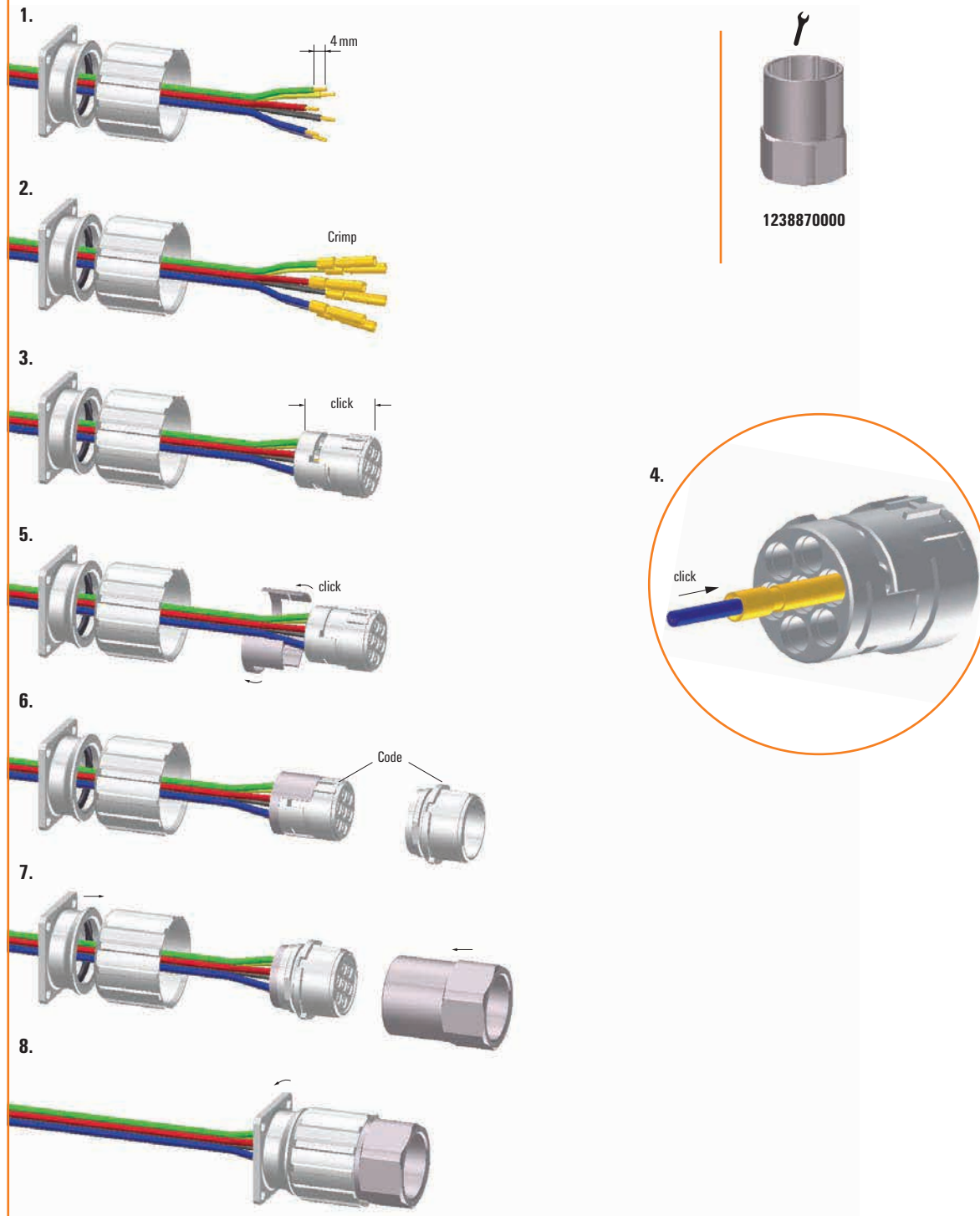
Cable connector



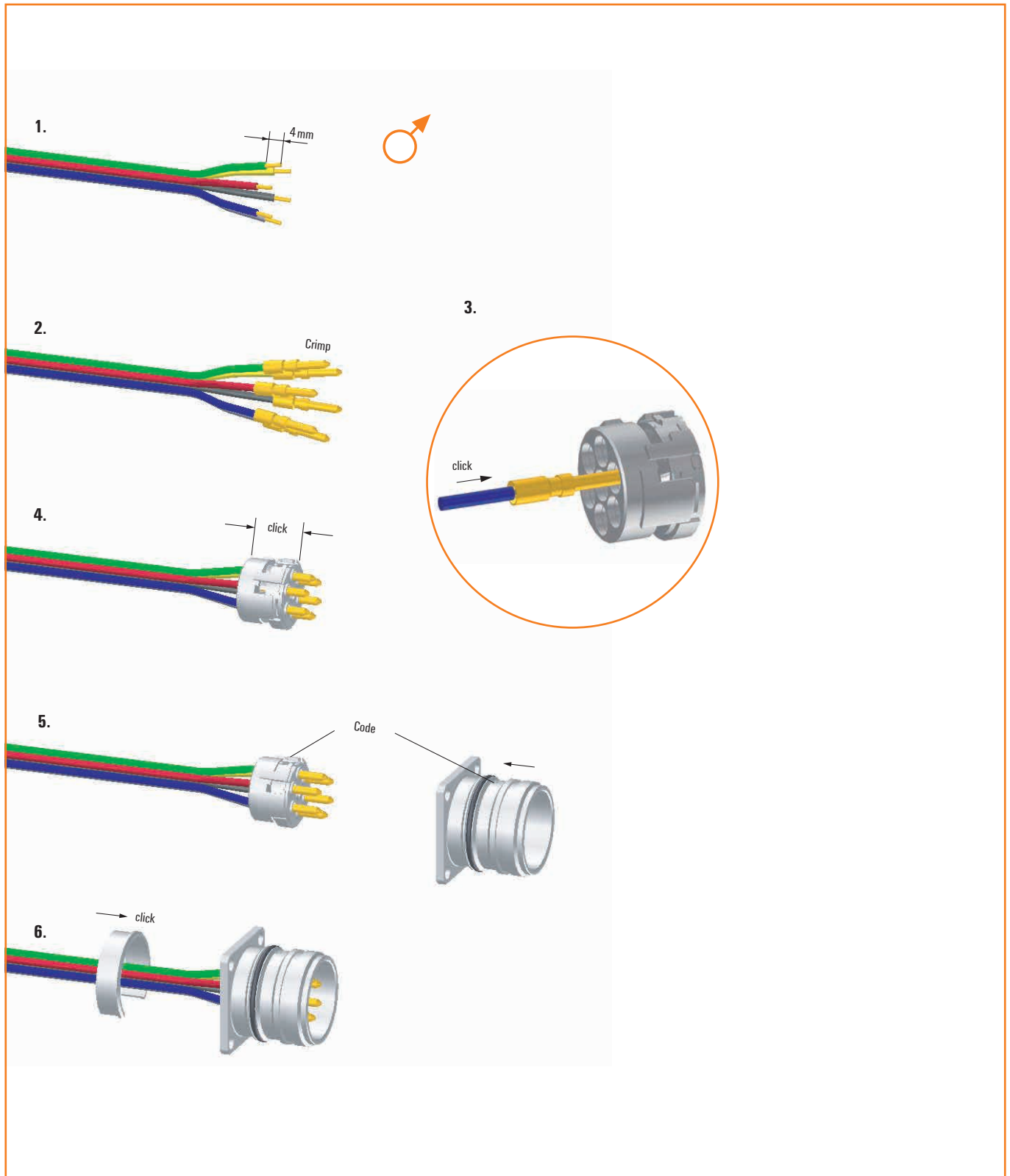
Angled connector



Device connector with knurled nut

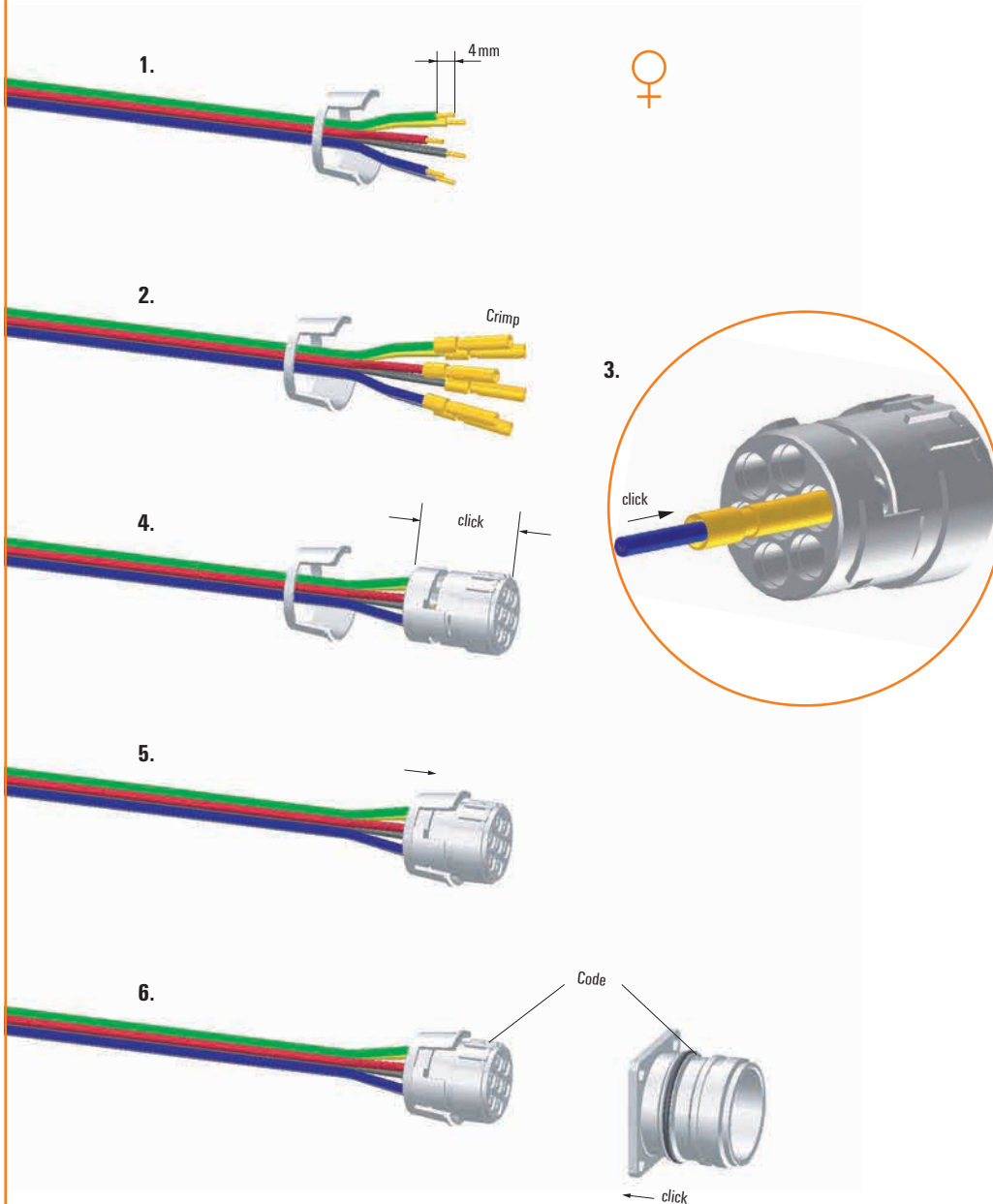


Device connector, male



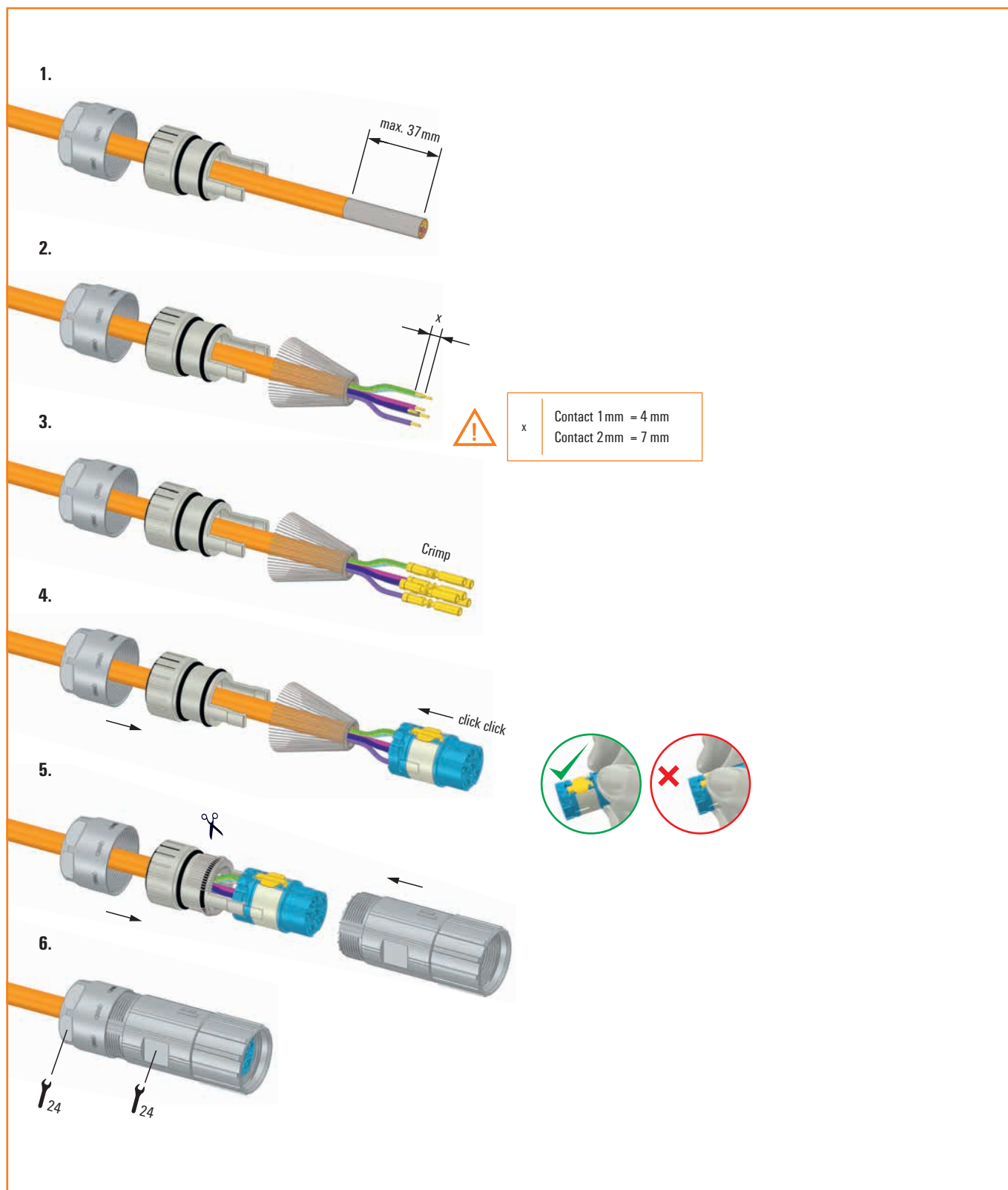
K

Device connector, female

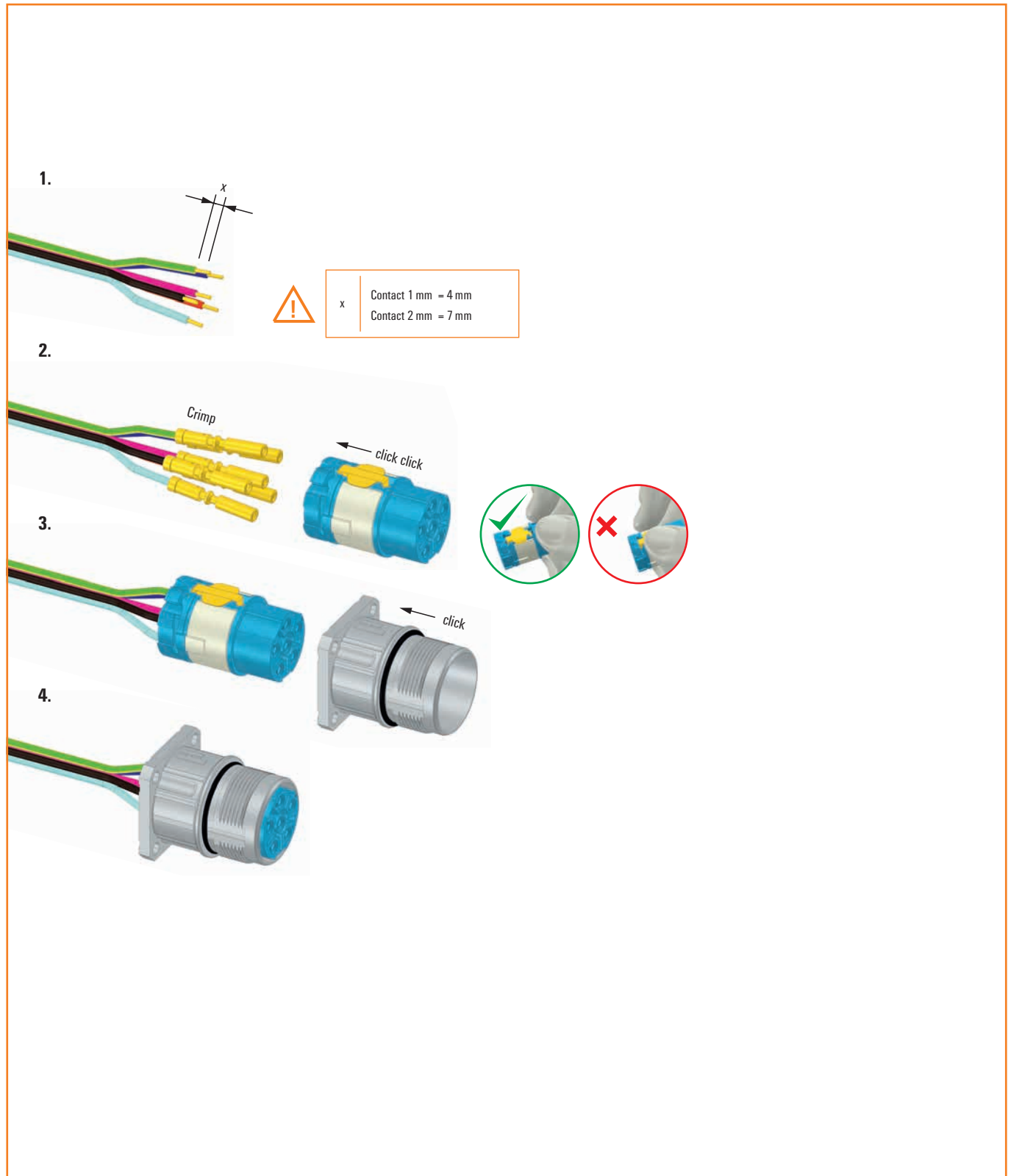


K

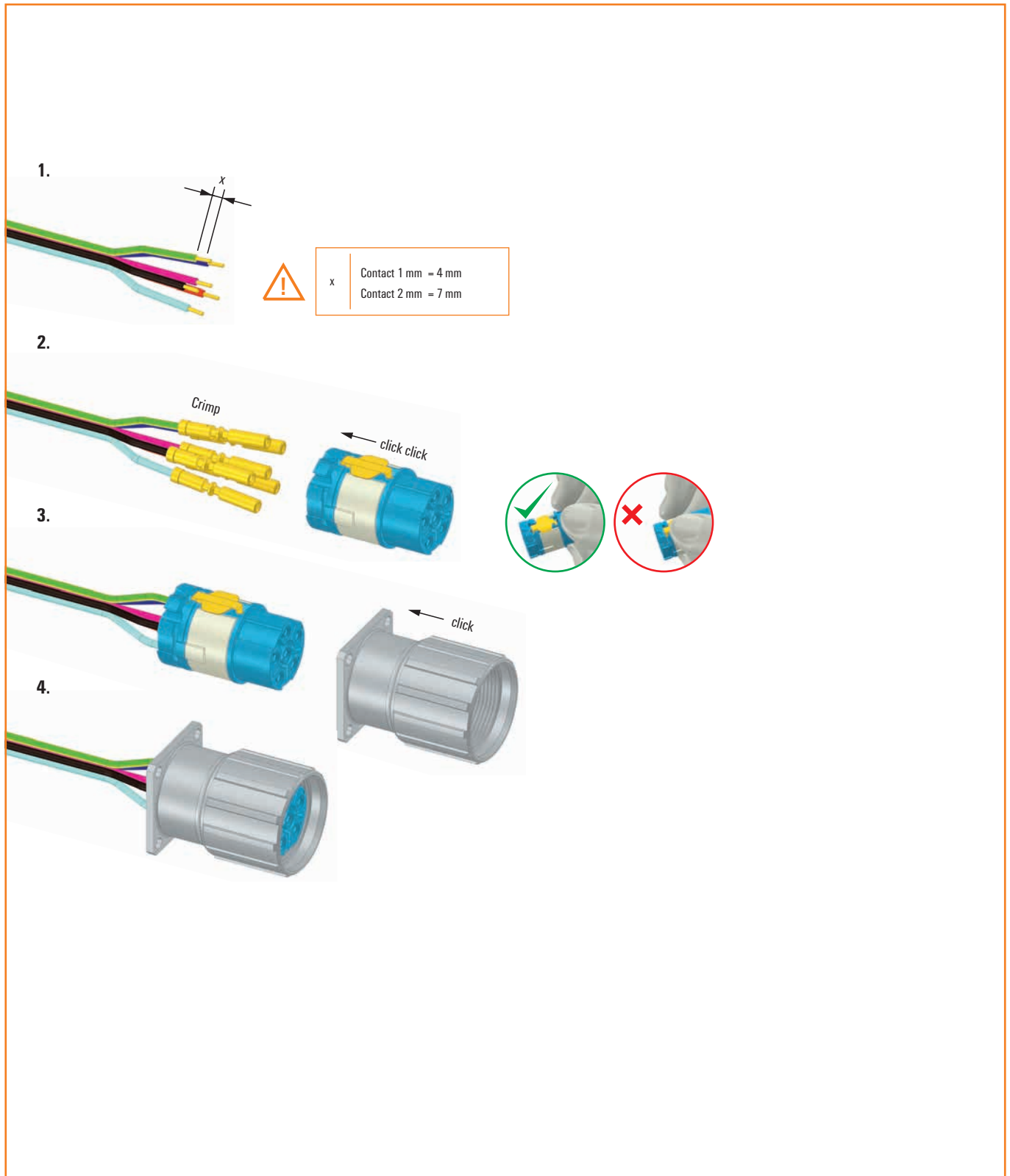
Cable connector



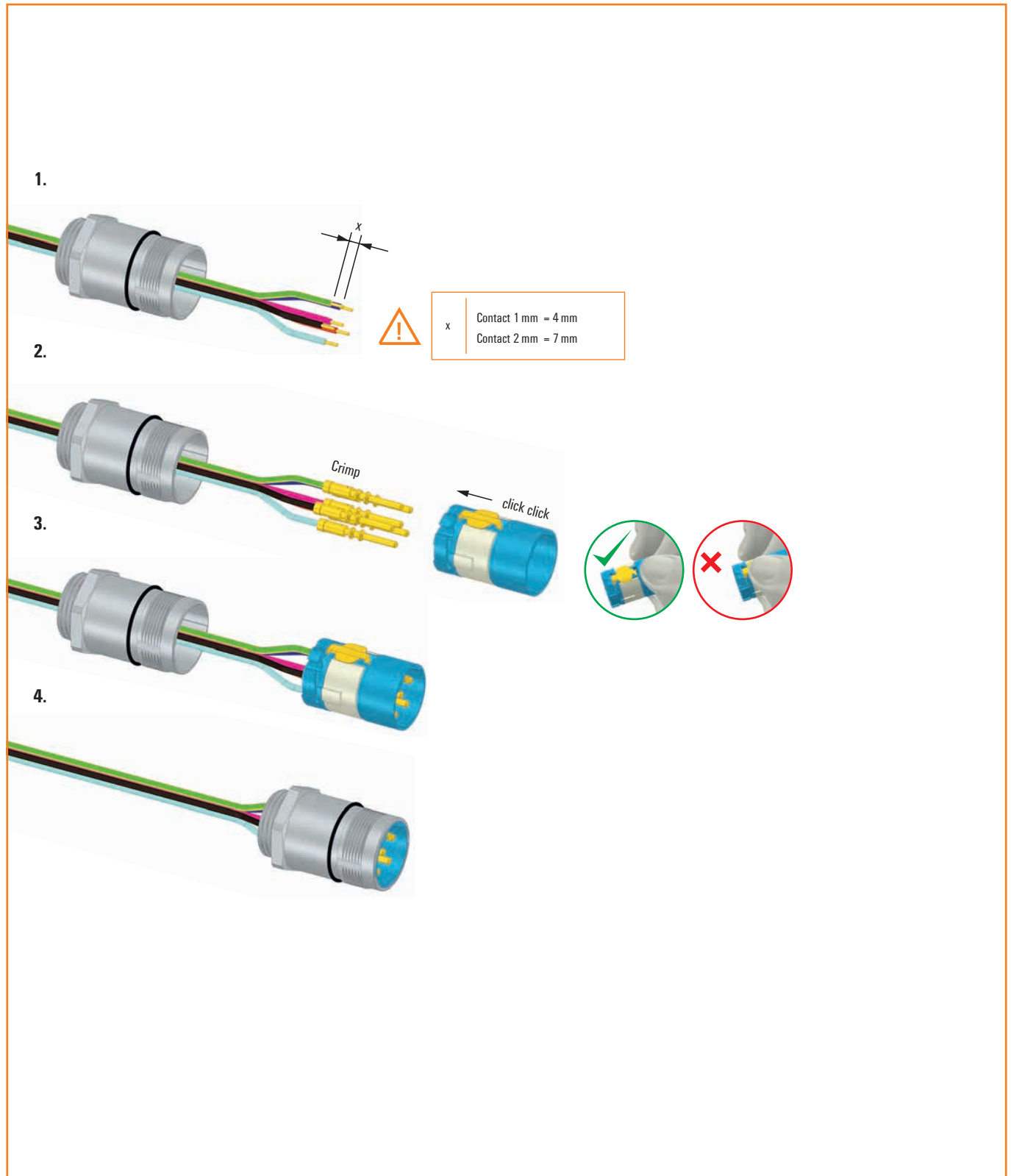
Device connector



Device connector



Device connector, single-hole mount



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



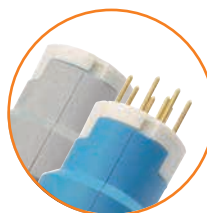
Flexibility



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.



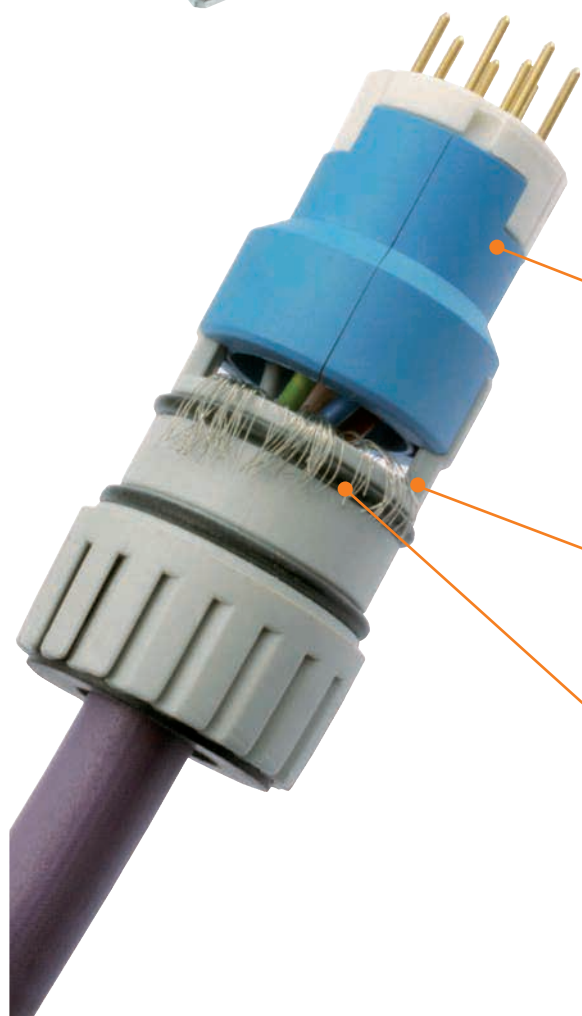
Assembly and shield connection are combined into one step.



The snap-on terminal insert protects the cable outlet from getting twisted.



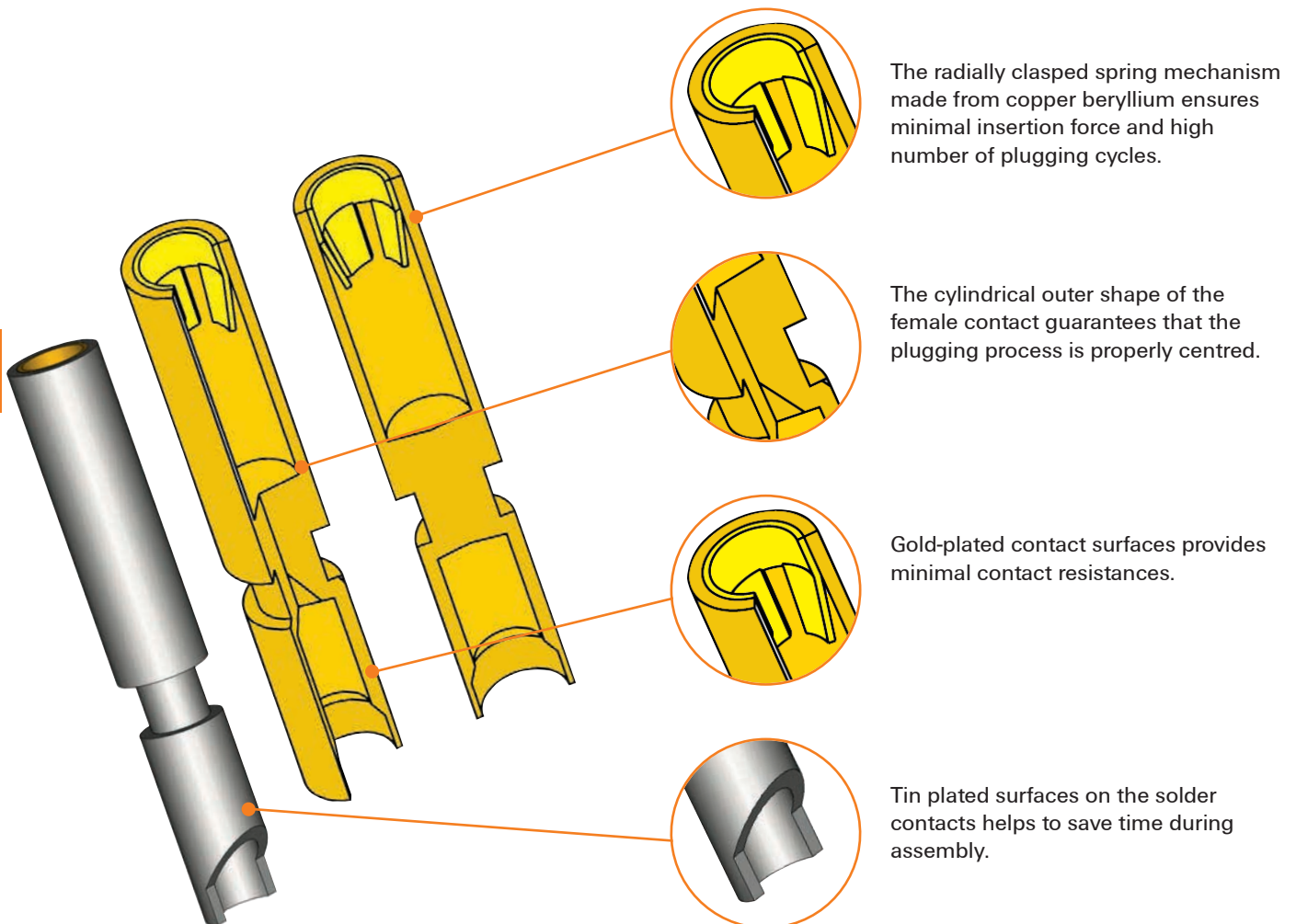
The variable shield connection ensures secure EMC protection for both light and heavy shielding braid.



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



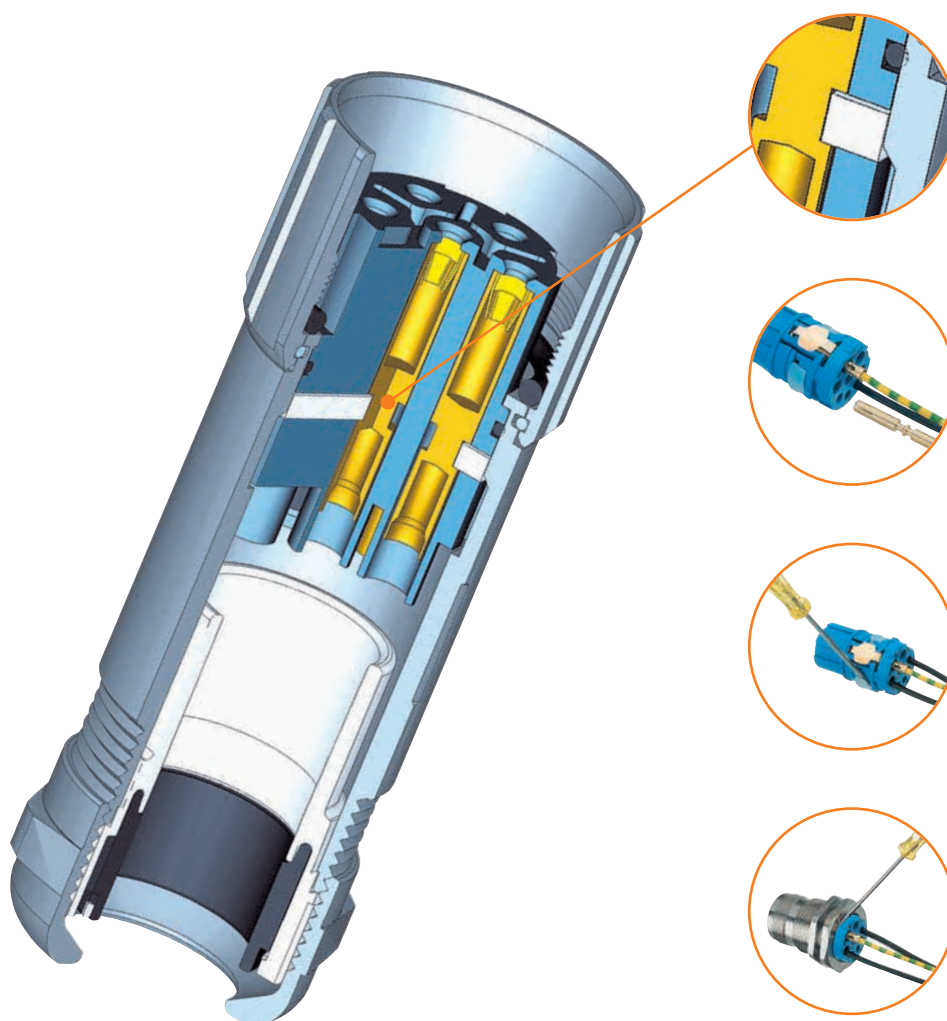
Euro-Lock system® for a secure mount

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 surge protection	L.36
	PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)	L.42
	ASI - Cables	L.50
	ASI - T-piece	L.51
	CANopen & DeviceNet™ - cables	L.52
	CANopen & DeviceNet™ - connectors	L.56
	CAN-BUS D-Sub – connectors	L.57
	EtherCat - lines (M8)	L.63
	Ethernet cables	L.64
	Ethernet plug-in connector	L.72
	Customisable plug-in connectors	L.74
	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:

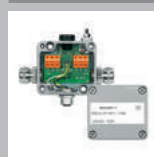
- Secure connection thanks to 100% testing
- 360° shielding
- Customer-specific variants with custom cable lengths, connecting plugs, markings or colours available

Supported protocols:

PROFINET, PROFIBUS DP, PROFIBUS PA, Ethernet, EtherCAT, Sub-Bus

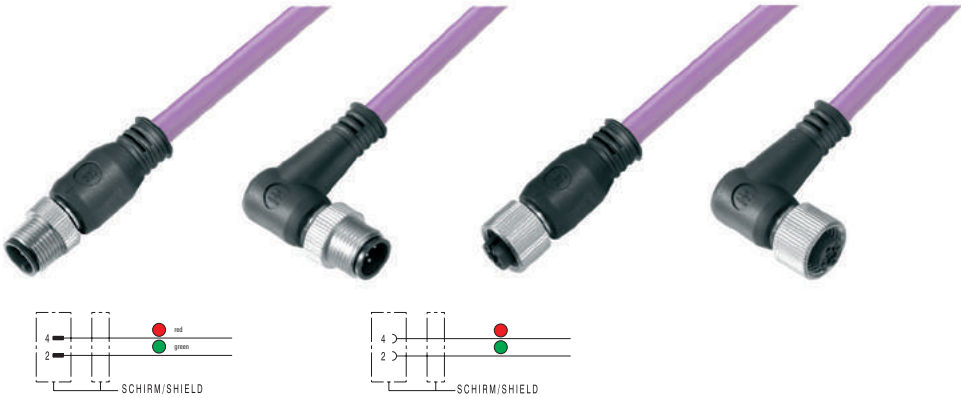
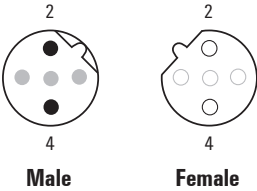


Bus cables: shown here in the standard colours:
blue (Profibus-PA Ex i), black (CANopen/DeviceNet or Profibus-PA), magenta (Profibus-DP) and green (Industrial Ethernet) together with the sensor cables

**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

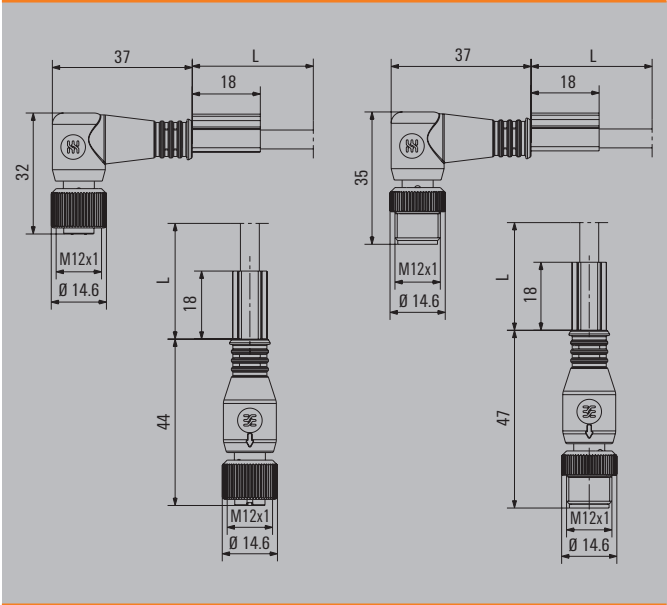
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	violet
Protection degree	IP67
Wire cross section	PUR: PUR 0.25 mm² / PVC 0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Coding	B

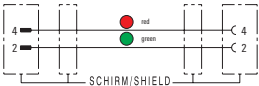
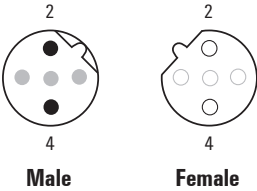
Chapter W includes additional technical specifications for the cable

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

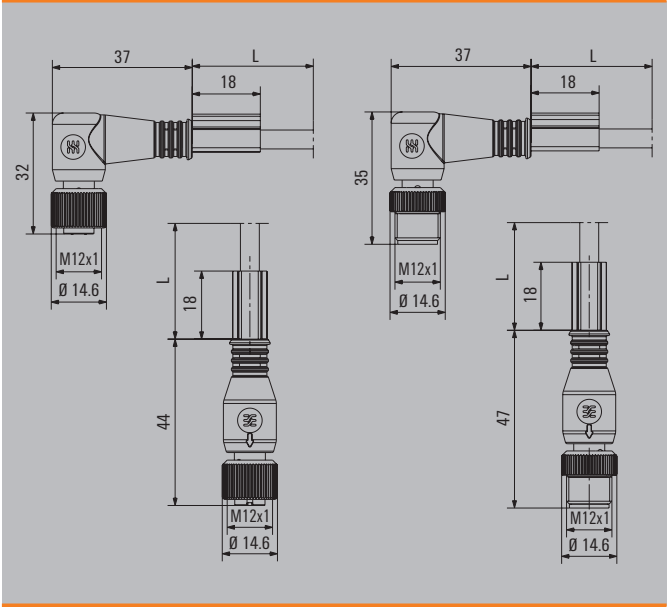
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

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

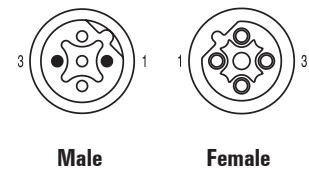
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



PROFIBUS-DP - cables

One end without connector
M12 back panel mounting
B-coded



M12 built-in connector

Male, straight



M12 built-in connector

Female, straight



Ordering data

2-pole	
0.5 m	
1.0 m	
2.0 m	
5.0 m	
Note	

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		

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		

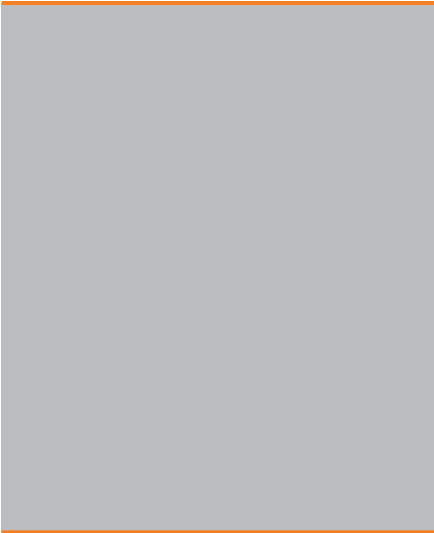
Technical data

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

Pin
Zinc diecast, nickel-plated
M12
250 V
-20 ... +60 °C
IP68
Gold-plated
≥ 100
Note

Socket connector
Zinc diecast, nickel-plated
M12
250 V
-20 ... +60 °C
IP68
Gold-plated
≥ 100
Note

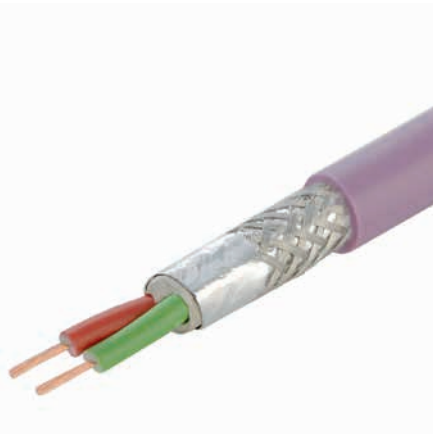
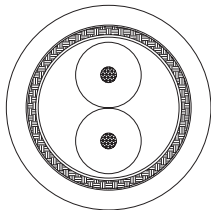
Dimensioned drawing



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

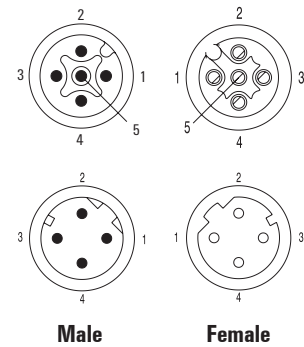
PROFIBUS-DP - connectors

M12 tension-clamp connection,
stainless steel with shield connection
B-coded



SAIS / SAIB VA

Straight



Ordering data

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

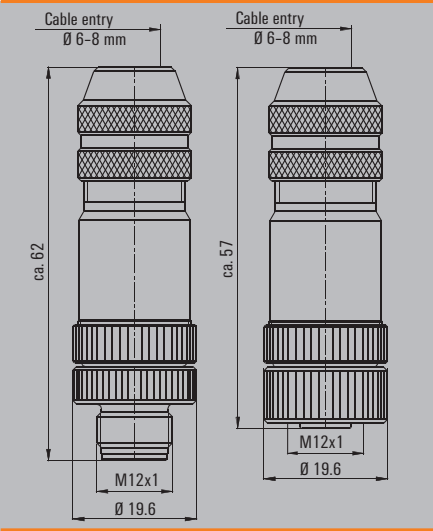
Type	Qty.	Order No.
SAIS 5/9-VA-B-COD	1	1920720000
SAIB 5/9-VA-B-COD	1	1920730000

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)
0.25...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP69K
Gold-plated
B

Dimensioned drawing

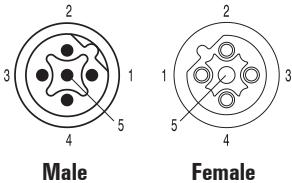


M12 screw connection
with shield connection
B-coded



SAISM / SAIBM

Straight



SAISW / SAIBW

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

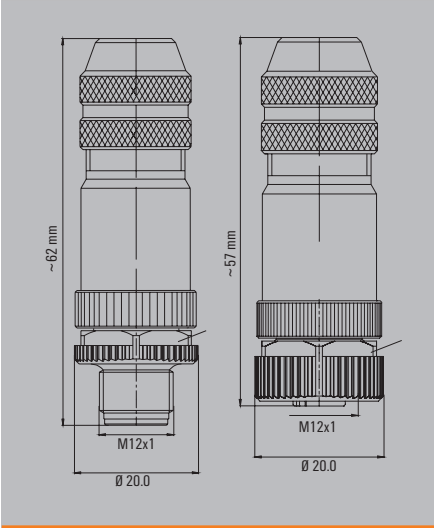
Technical data

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

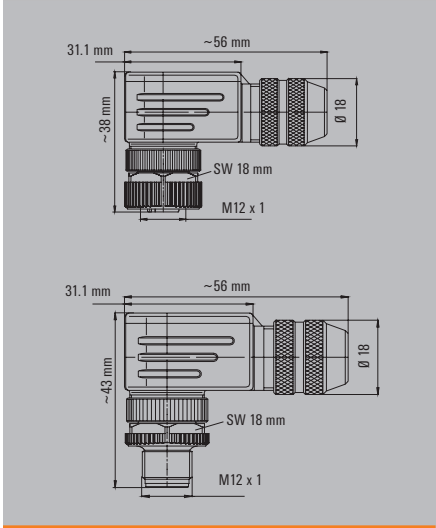
Screw connection
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
B

Screw connection
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated
B

Dimensioned drawing



Dimensioned drawing



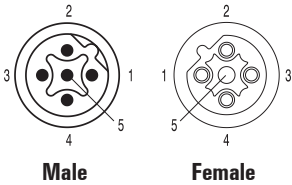
PROFIBUS-DP - connectors

Insulation displacement connection (IDC) M12 with shield connection B-coded



SAIS / SAIB

Straight



Ordering data

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

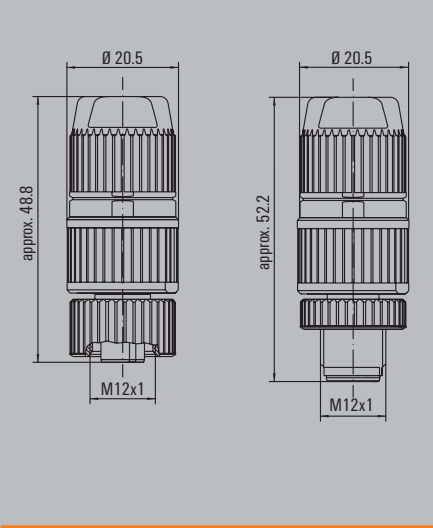
Type	Qty.	Order No.
SAIS-2-IDC-M12B-COD	1	1864730000
SAIB-2-IDC-M12B-COD	1	1864740000
Profibus assignment: Pin 2 + 4		

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
7...8.8 mm
0.34...0.75 mm²
4 A
32 V
-25...+85 °C
IP67
tinned
B

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

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

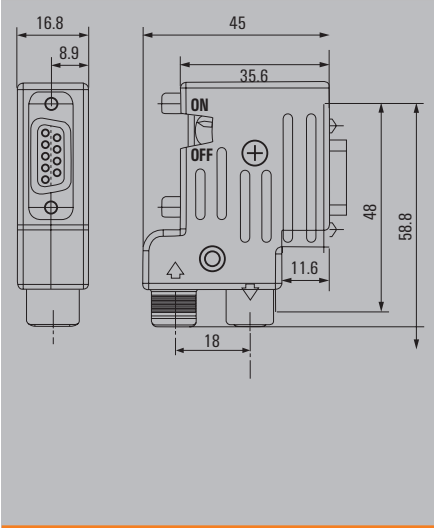
Type	Qty.	Order No.
PB-DP SUB-D M12 TERM	1	1140650000
Other versions on request		

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

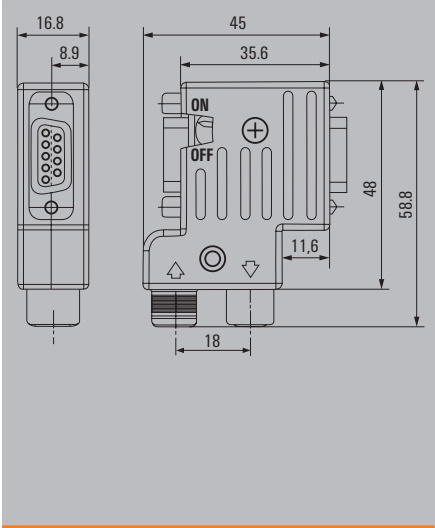
Type	Qty.	Order No.
PB-DP SUB-D M12 TERM PS	1	1140640000
Other versions on request		

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		

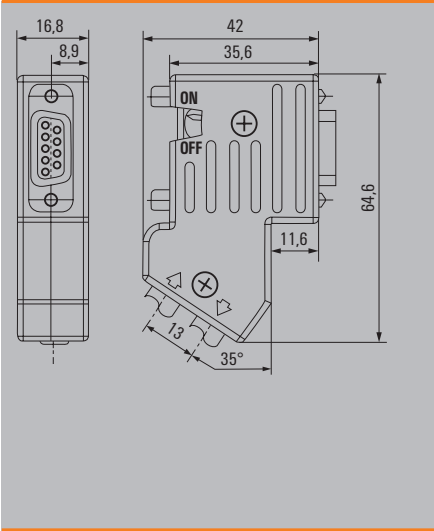
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

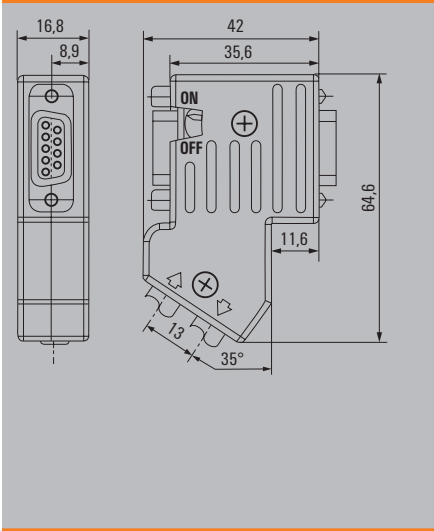
35°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
Tension clamp connection
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

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

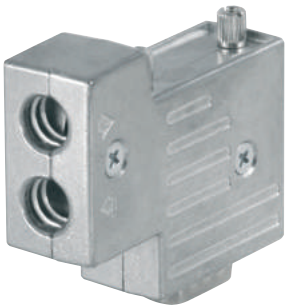


Dimensioned drawing



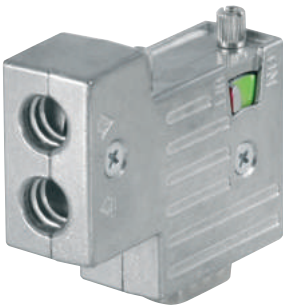
PROFIBUS D-Sub
Tension clamp connection
90° exit angle

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		

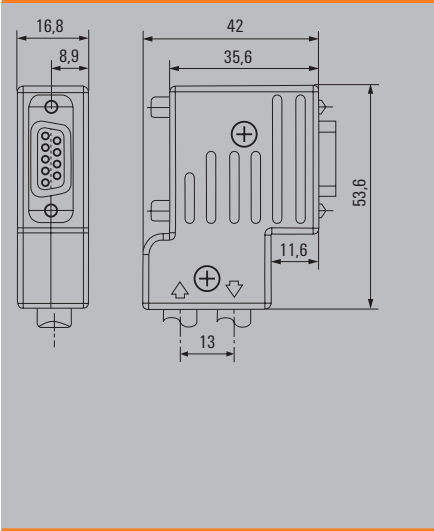
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

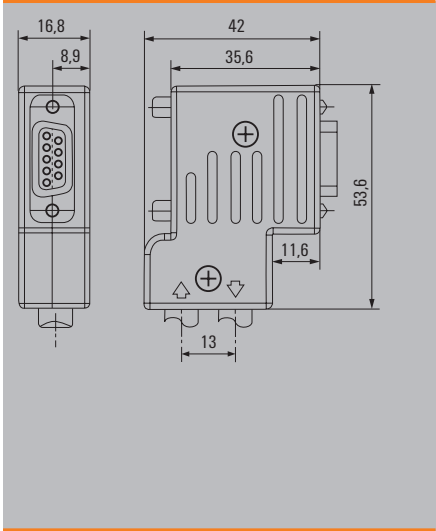
90°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
Tension clamp connection
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

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

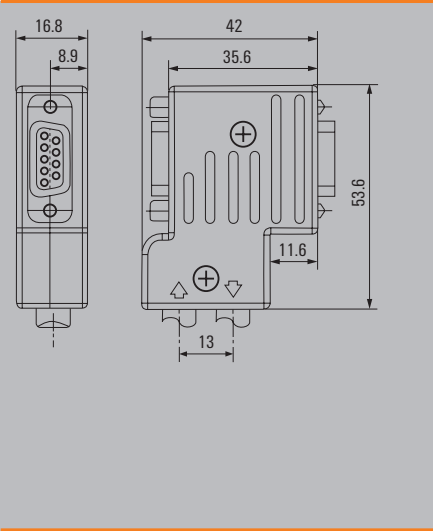
Type	Qty.	Order No.
PB-DP SUB-D ZF TERM PS	1	1161880000
Other versions on request		

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		

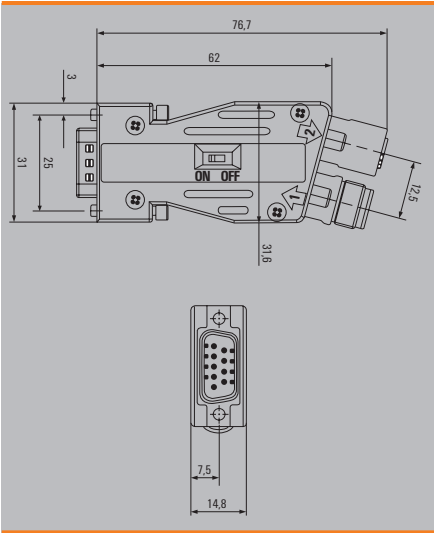
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

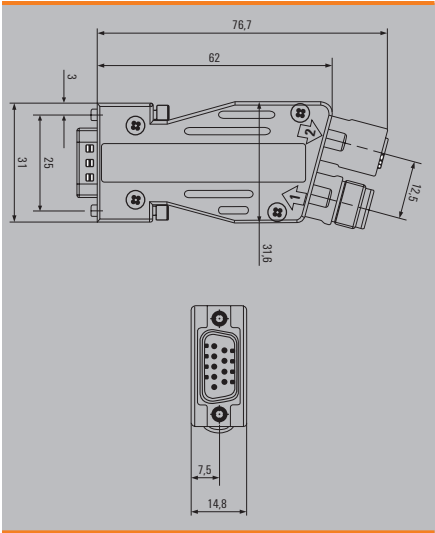
180°
12 MBit/s
Max. 75% at +25°C, non-condensing
ZnAl
M12 B-coded male and female connector, pins 2 and 4 assigned
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

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

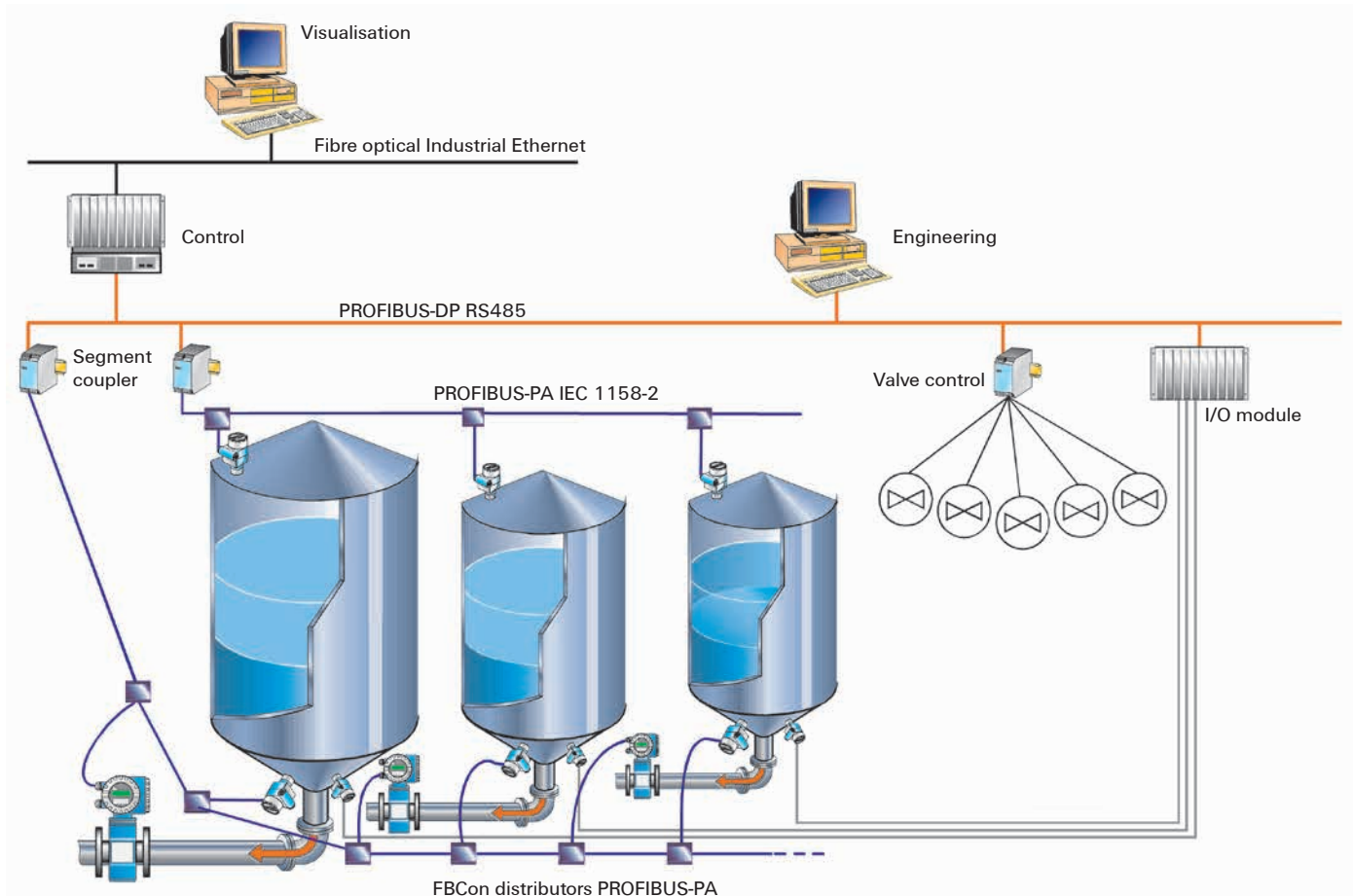
FBCon fieldbus distributors are available in industrial and Ex(ia) versions. They are used for coupling 1-8 field devices or sensors.

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

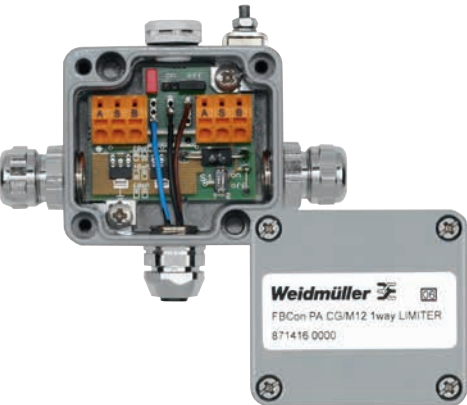


Product coding

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

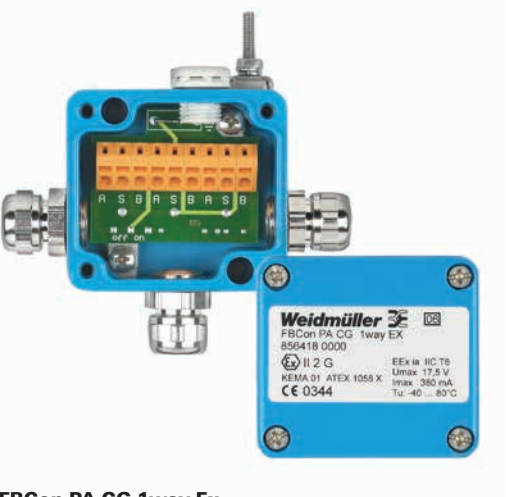
Note: FBCon products with aluminium housings and/or M12 connections are not recommended for use in extremely saline environments.



FBCon PA CG/M12 1way Limiter



FBCon SS PCG 1way

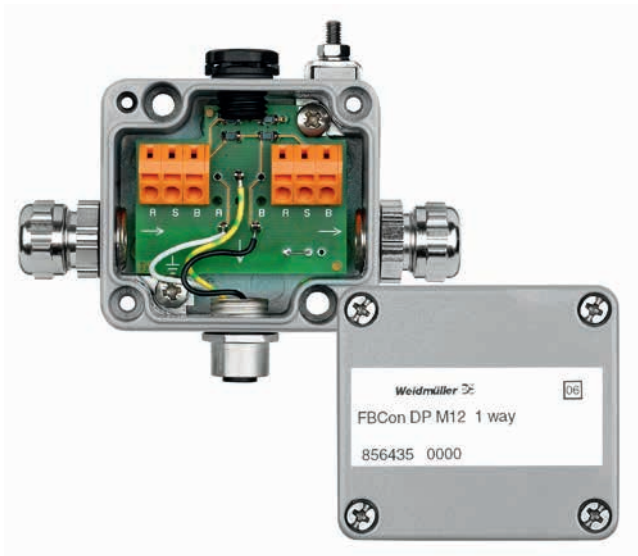


FBCon PA CG 1way Ex

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	

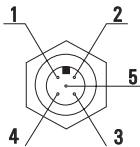
Installation advice

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



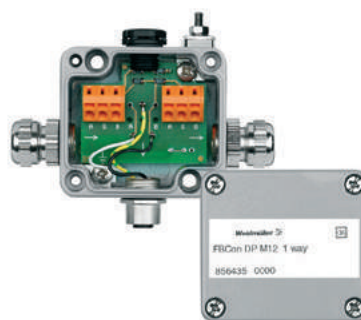
1-channel distributor



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

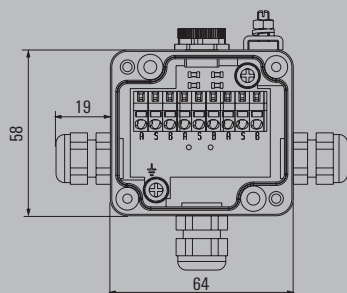
1-channel distributor



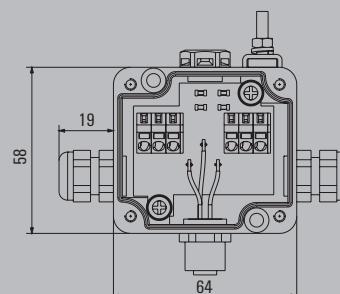
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon DP M12 1WAY	branch line M12	1	8564350000

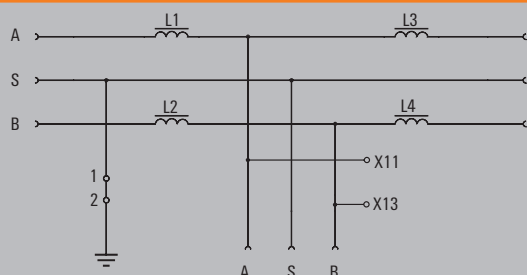
Dimensioned drawing



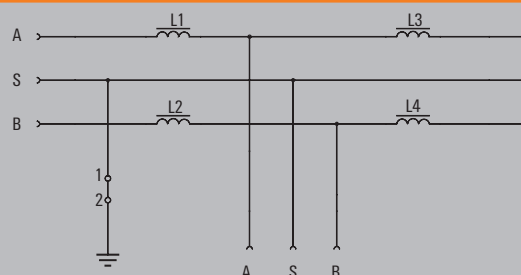
Dimensioned drawing



Wiring diagram

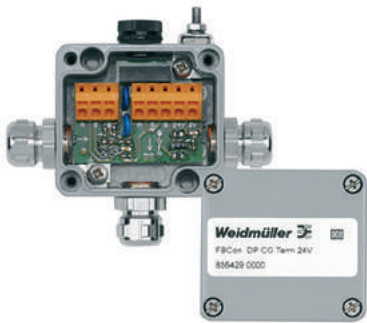


Wiring diagram



PROFIBUS-DP - FBCon T-distributor

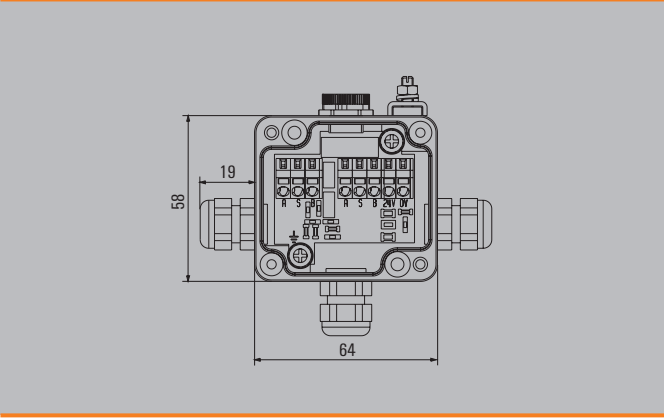
Terminator



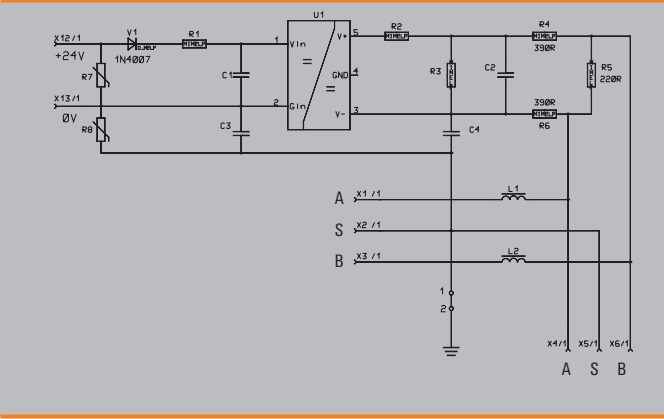
Ordering data

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

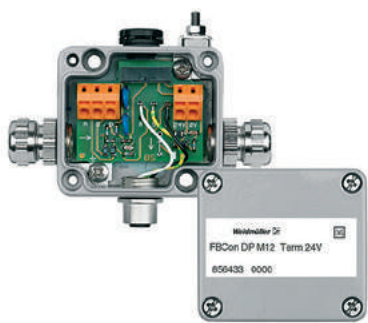
Dimensioned drawing



Wiring diagram



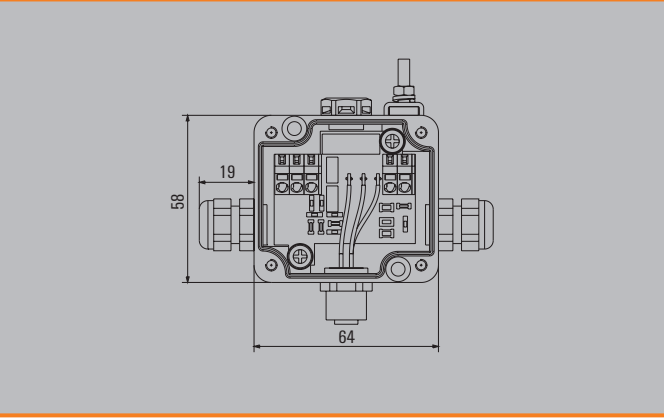
Terminator



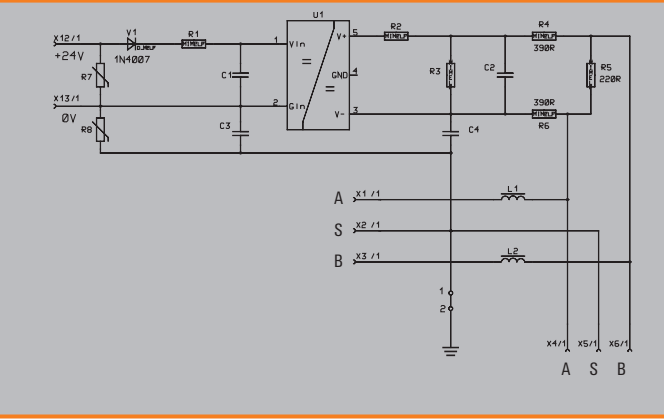
Ordering data

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



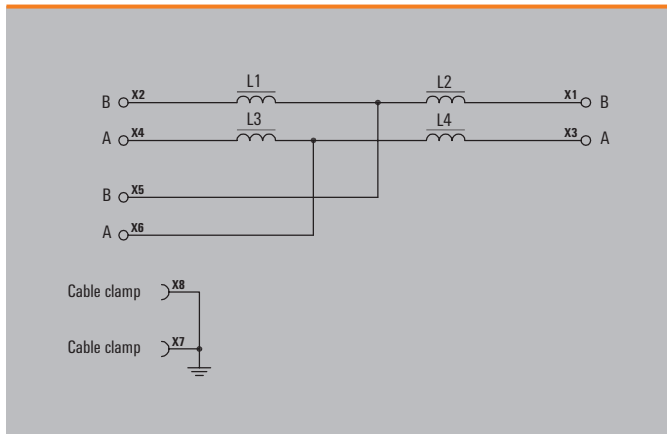
PROFIBUS-DP IP 20 T-distributor



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



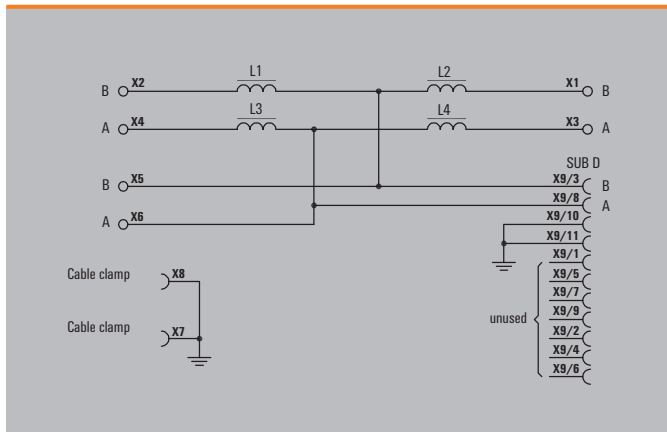
Technical data

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

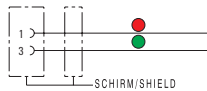
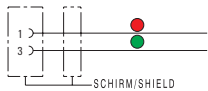
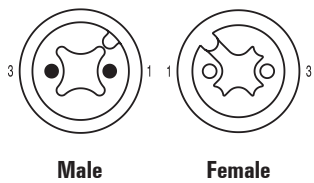


Profibus PA distributors

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

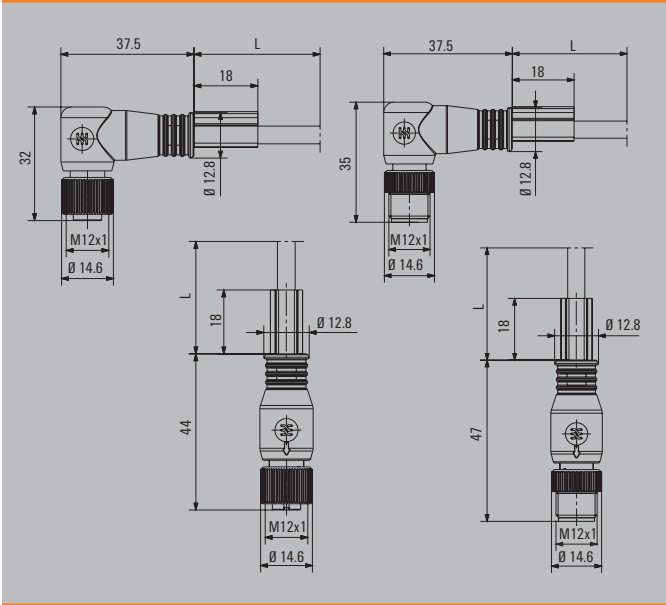
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.0 m	xxxxxx0100
	2.0 m	xxxxxx0200
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

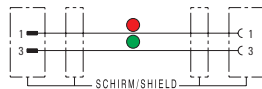
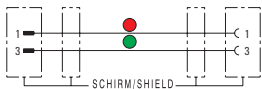
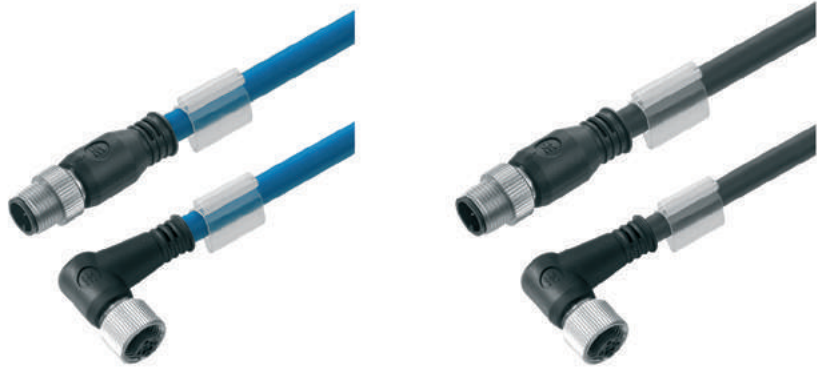
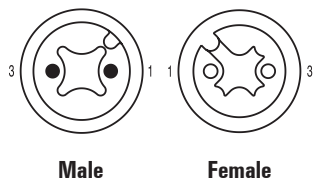
Cladding colour	black, blue
Protection degree	IP67
Core cross-section	1 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Coding	A

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	FBC EX PA M12 M-FM 1M	1785130100	FBC PA M12 M-FM 1M	1785100100		
Male, straight - Female, angled							
PVC	1.0 m	FBC EX PA M12 M-FMA 1M	1075390100	FBC PA M12 M-FMA 1M	1075620100		
Male, angled - Female, angled							
PVC	1.0 m	FBC EX PA M12 MA-FMA 1M	1075410100	FBC PA M12 MA-FMA 1M	1076550100		
Male, angled - female, straight							
PVC	1.0 m	FBC EX PA M12 MA-FM 1M	1075450100	FBC PA M12 MA-FM 1M	1075460100		
Note							

Standard cable lengths

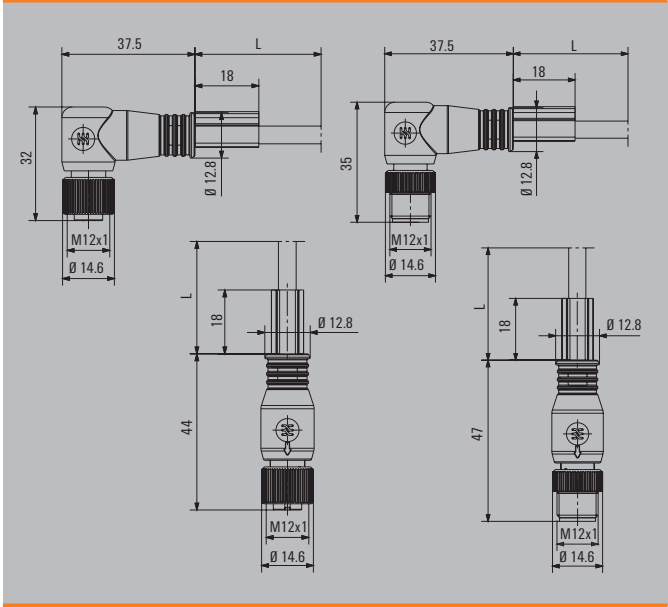
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.0 m	xxxxxx0100
	2.0 m	xxxxxx0200
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

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

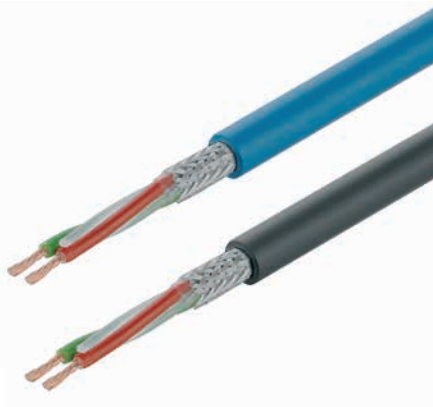
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



PROFIBUS-PA - cables

PROFIBUS-PA bulk lengths



Technical data

PROFIBUS-PA bulk lengths		
Application		
General characteristics		
- 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		
Assembly		
Conductor		
Insulating sleeve		
Stranding		
Wrapping		
Shield		
Outer cladding		
Electrical characteristics at 20 °C		
Wire resistance (loop)		max. 44 Ω/km
Insulation resistance		min. 5 GΩ x km
Working capacity at 800 Hz		nom. 52 nF/km
Inductance at 800 Hz		approx. 0.4 mH/km
Characteristic impedance	at 31.25 kHz	100 Ω ± 20 %
	at ≥ 1 MHz	nom. 80 Ω
	at 39 kHz	max. 0.3 dB/100 m
	at 100 kHz	nom. 0.35 dB/100 m
Wave attenuation	at 1 MHz	nom. 1.2 dB/100 m
		nom. 79 %
Signal dispersion speed		max. 250 mOhm/m
Coupling resistance at < 30 MHz		Peak value 100 V
Operating voltage (not for three-phase use)		U _{eff.} 1500 V
Test voltage	Wire/wire	U _{eff.} 1500 V
	Wire/shield	
Mechanical and thermal characteristics		
Min. bending radius stationary installed / during installation		65 mm
Temperature range during installation		-5 °C to +60 °C
Temperature range stationary installed		-30 °C to +80 °C
Flammability		Flame retardant in accordance with VDE 0482, part 265-2-1 / IEC 60 332-1

Note

Ordering data

Type	Order No.
SAIH-PB-PA-2X1.0-PVC-BL	1232630000
SAIH-PB-PA-2X1.0-PVC-SW	1232640000
Note	

M12 screw connection
with shield connection
A-coded



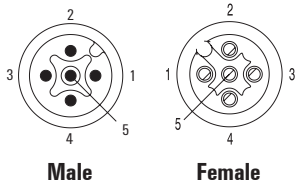
FBCon / SAIS

Straight



SAISW / SAIBW

Angled



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	

Type	Qty.	Order No.
FBCON M12 4P M EMC	1	9455640000
SAIS-M-5/8S M12 5P A-COD	1	1784740000
FBCON M12 4P FM EMC	1	8426220000
SAIBM-5/6S M12 5P A-COD	1	1191020000
SAIB-M-5/8S M12 5P A-COD	1	1784750000
Other versions on request		

Type	Qty.	Order No.
SAISW-M-4/8 M12	1	1803930000
SAISW-M-5/8 M12	1	1803940000
SAIBW-M-4/8 M12	1	1803910000
SAIBW-M-5/8 M12	1	1803920000
Other versions on request		

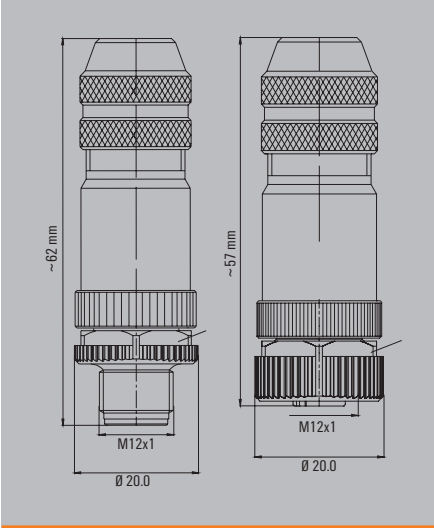
Technical data

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

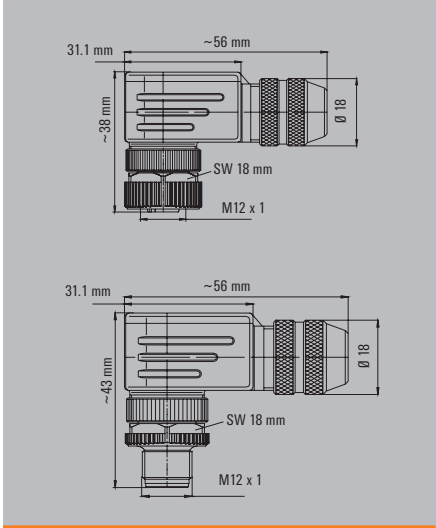
Screw connection
CuZn
M12
4...6 mm (PG7) / 6...8 mm (PG9)
0.14...0.75 mm²
4 A
250 V (4-pole) / 60 V (5-pole)
-40 ... +85 °C
IP67
Gold-plated

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



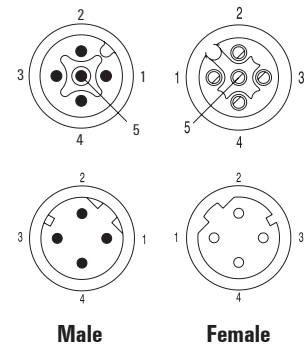
PROFIBUS PA - connectors

M12 tension-clamp connection,
stainless steel with shield connection
A-coded



SAIS / SAIB VA

Straight



Ordering data

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

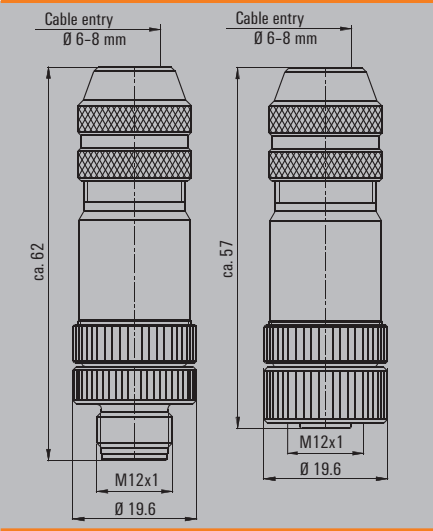
Type	Qty.	Order No.
SAIS 5/9-VA	1	1920700000
SAIB 5/9-VA	1	1920710000

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

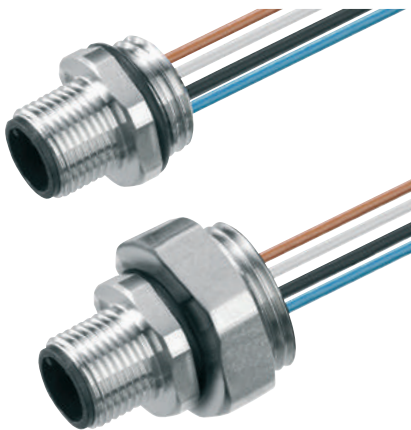
Tension-clamp connection
1.4404/316L
M12
6..8 mm (PG9)
0.25...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP69K
Gold-plated

Dimensioned drawing



Built-in connectors, stainless steel

Front panel installation, PG9 mounting thread



Nickel-plated brass built-in plug connector

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

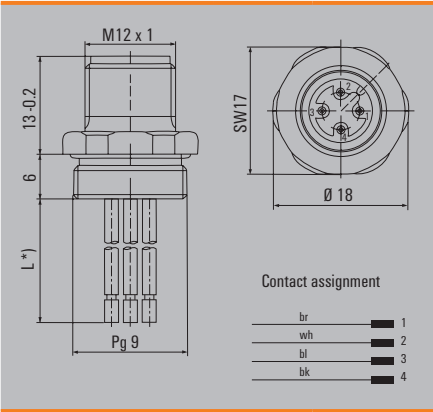
Type	Qty.	Order No.
SAIE-M12S-4-0.2U-AEH-VA	1	1861220001
SAIE-EW-M20/PG9-SW24-VA	1	1950270000

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

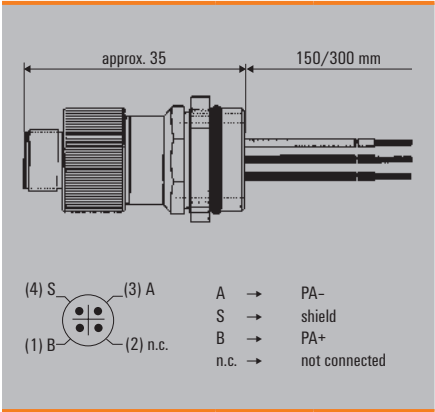
Fitting information

	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.	

Dimensioned drawing



Dimensioned drawing



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

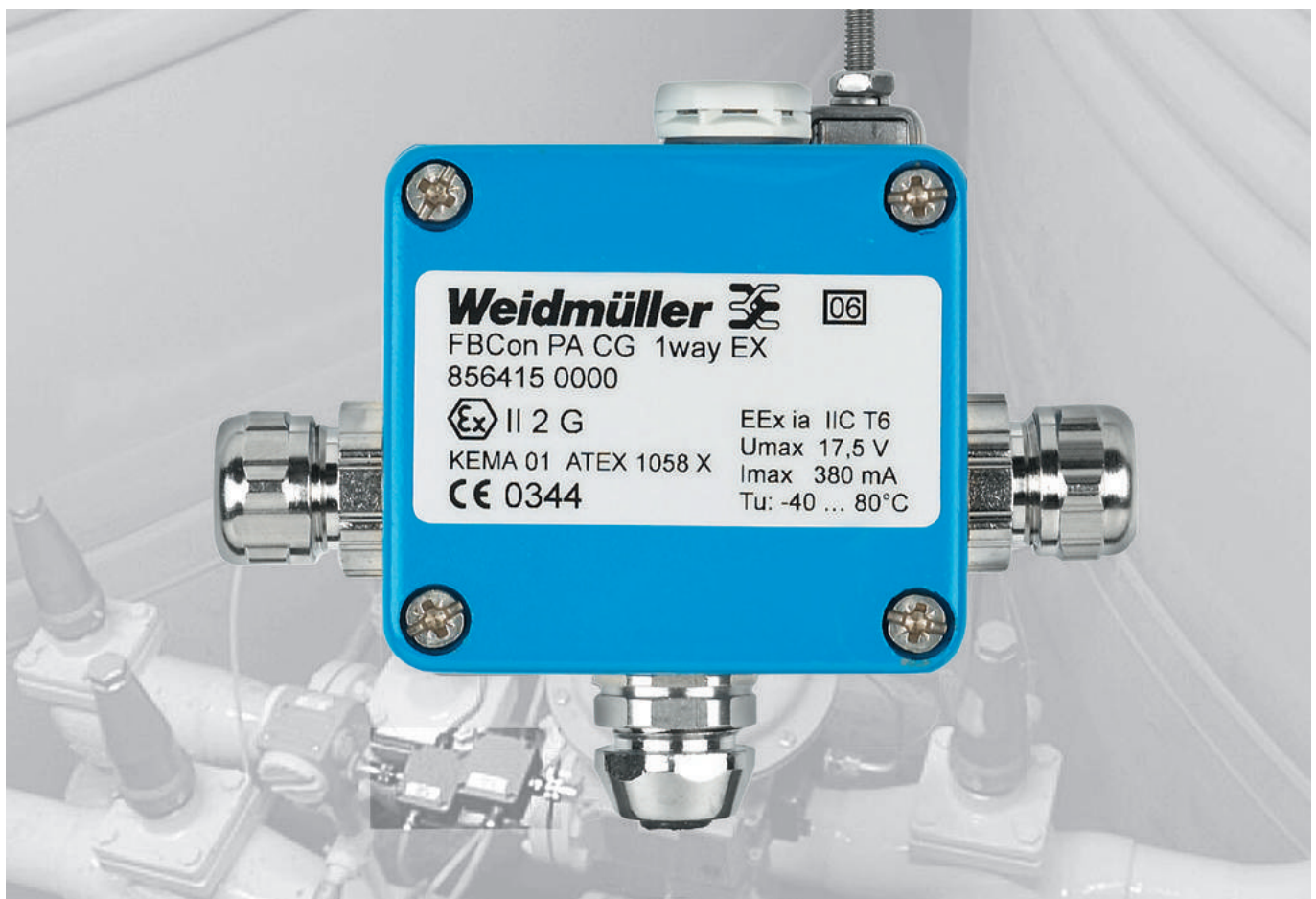
The product range offers a wide choice of customer solutions for use in harsh conditions. This includes standard and EX versions of single and multi-way design with M12 plug-in connection or cable glands. Weidmüller offers a solution for almost every application. If you cannot find your solution here, 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

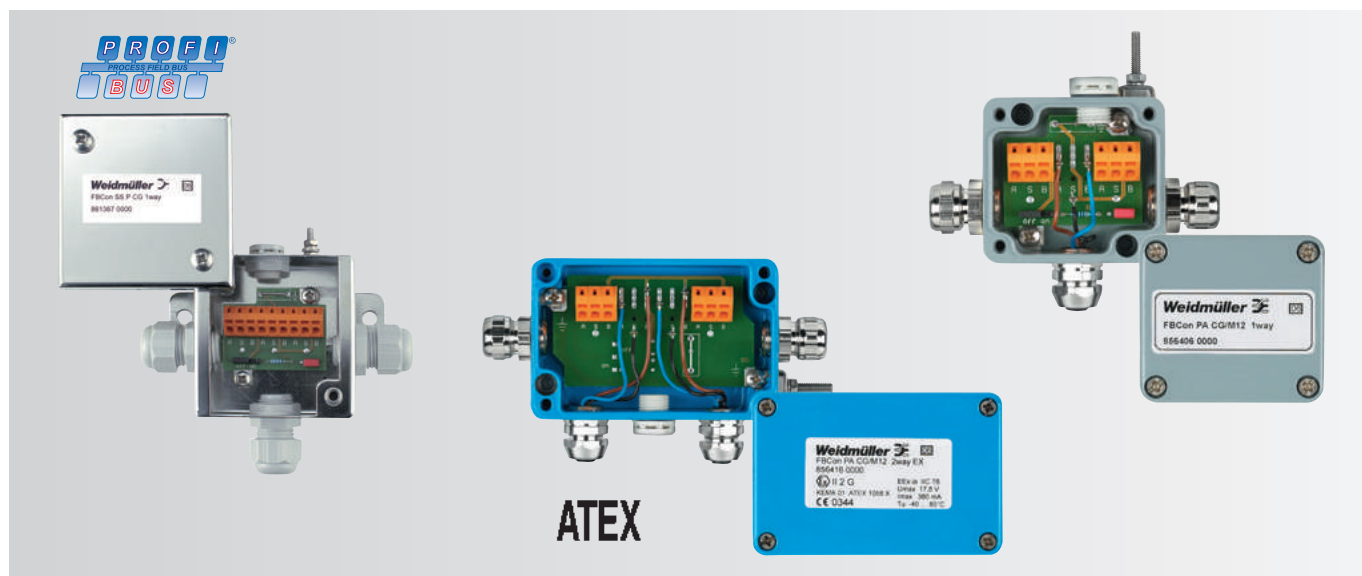
Temperature range	
Operating temperature	from -40 °C to 85 °C
Ingress protection class	IP 66
Housing material	High-quality aluminium alloy (AL-Si 12)
Surface	Stove-enamelled RAL 7001
PROFIBUS-PA connection	Tension clamp connection 0.5 - 1.5 mm ²
Cable entry	Cable gland M16
Clamping range	5.5 - 9.5 mm
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

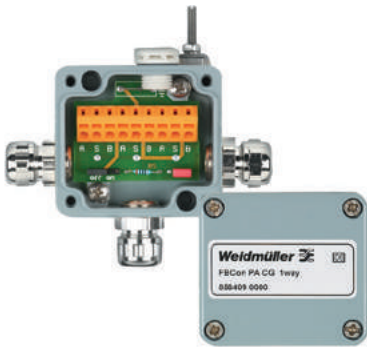
Note:

We do not recommend to use PBCon products in strong saline environments.



PROFIBUS-PA - FBCon T-distributor

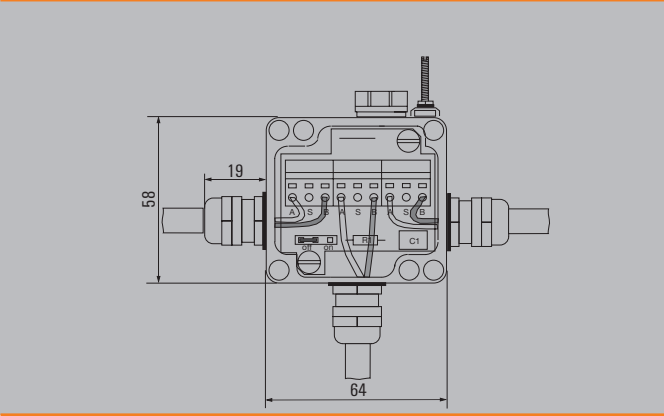
1-channel distributor



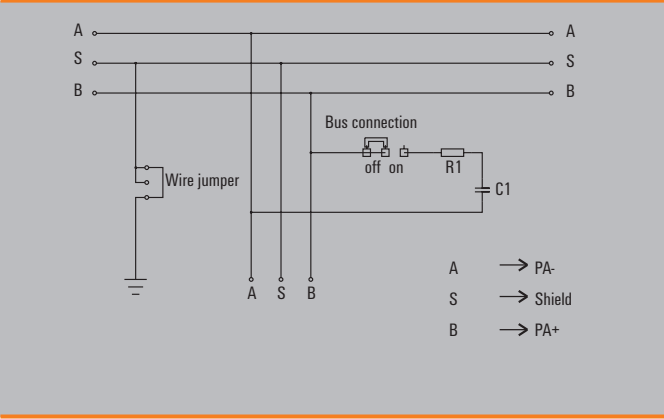
Ordering data

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

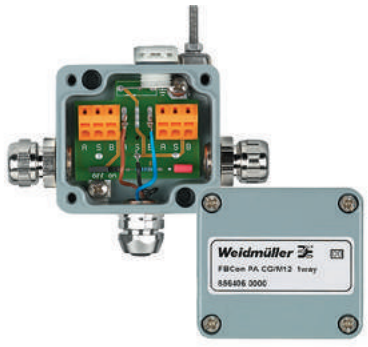
Dimensioned drawing



Wiring diagram



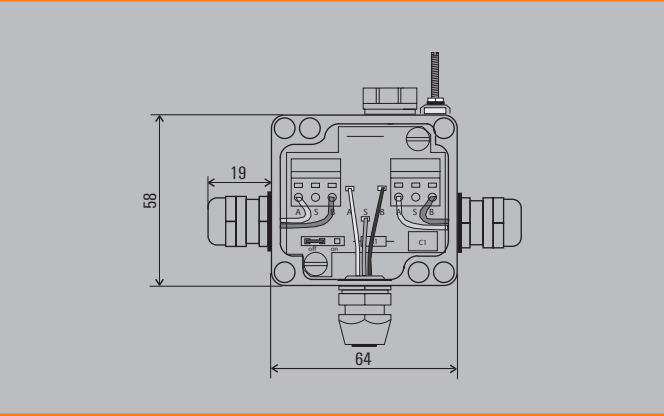
1-channel distributor



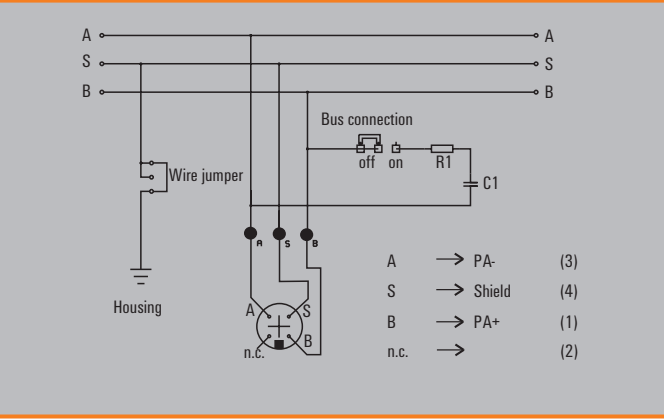
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 1WAY	branch line M12	1	8564060000

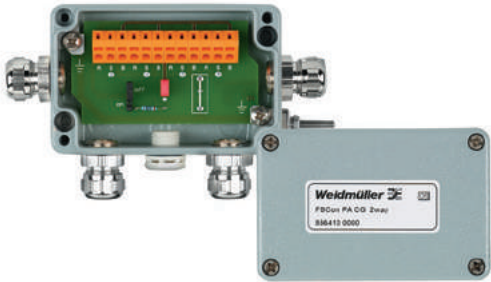
Dimensioned drawing



Wiring diagram



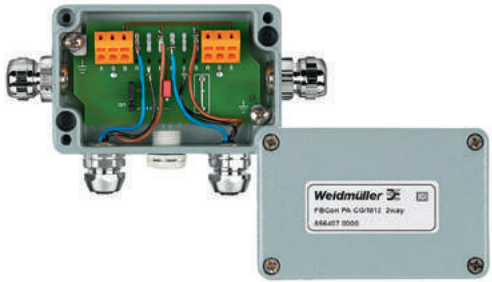
2-channel distributor



Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 2WAY	branch line CG	1	8564100000

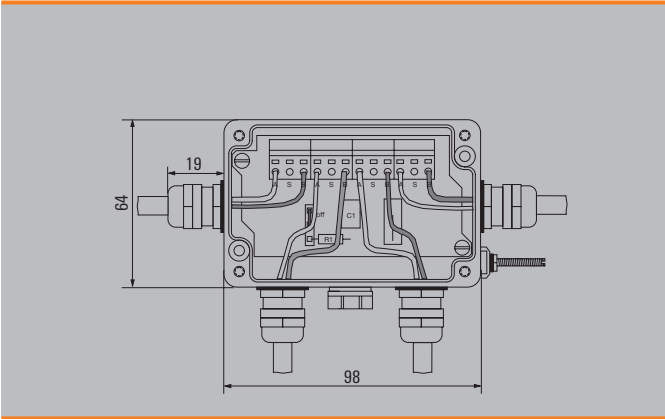
2-channel distributor



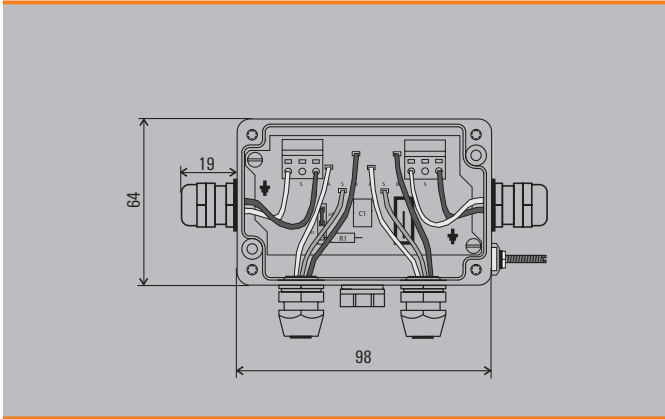
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 2WAY	branch line M12	1	8564070000

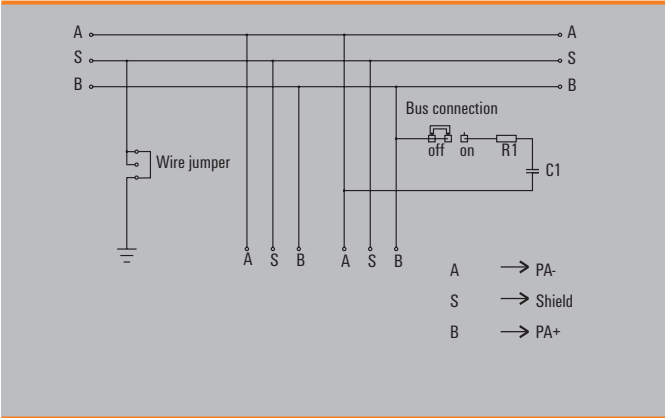
Dimensioned drawing



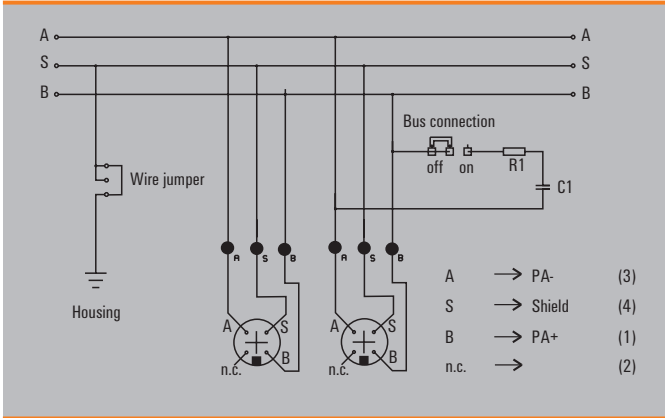
Dimensioned drawing



Wiring diagram

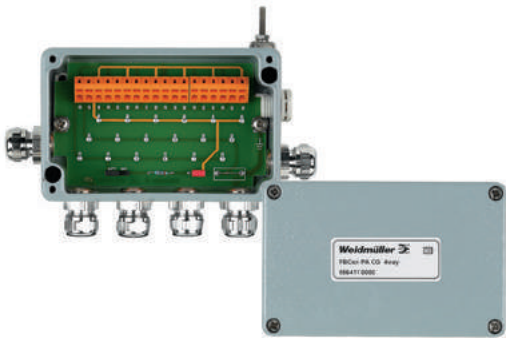


Wiring diagram



PROFIBUS-PA - FBCon T-distributor

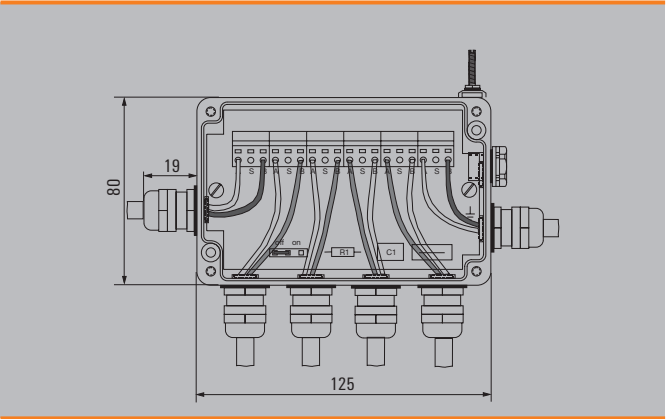
4-channel distributor



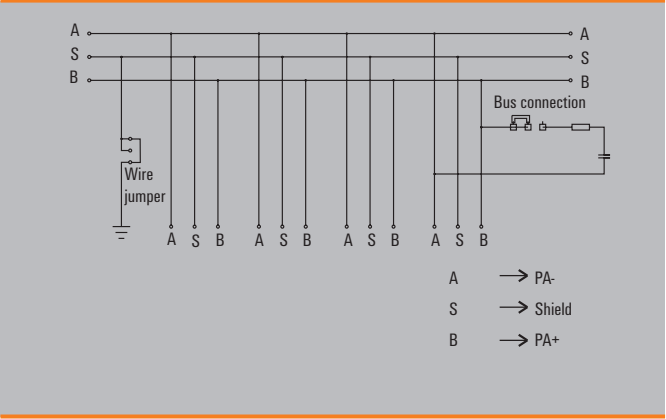
Ordering data

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

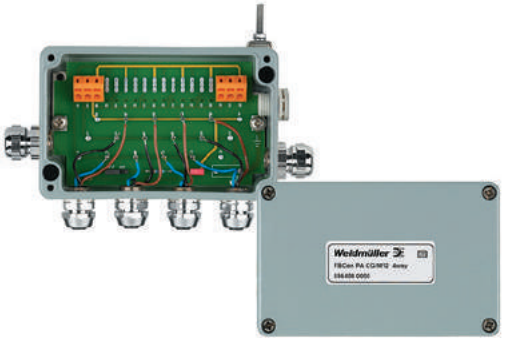
Dimensioned drawing



Wiring diagram



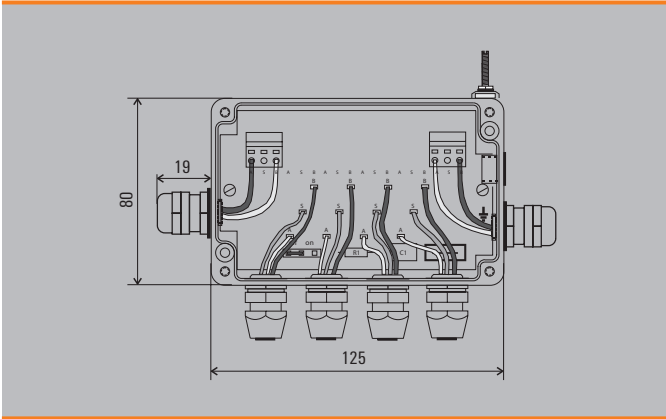
4-channel distributor



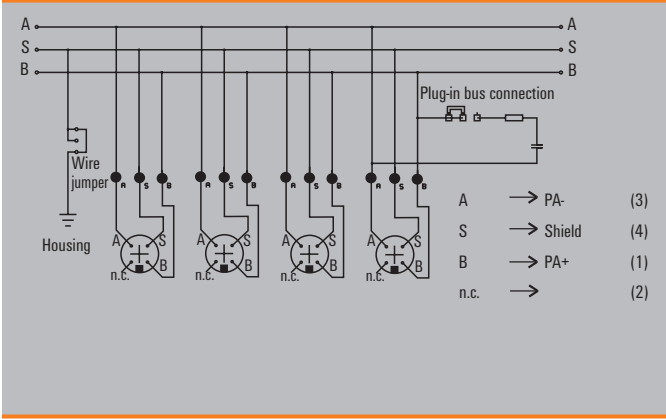
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 4WAY	branch line M12	1	8564080000

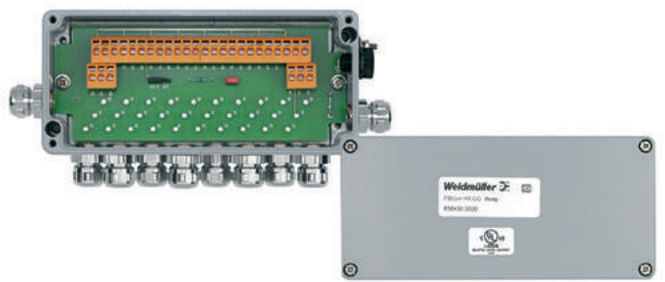
Dimensioned drawing



Wiring diagram



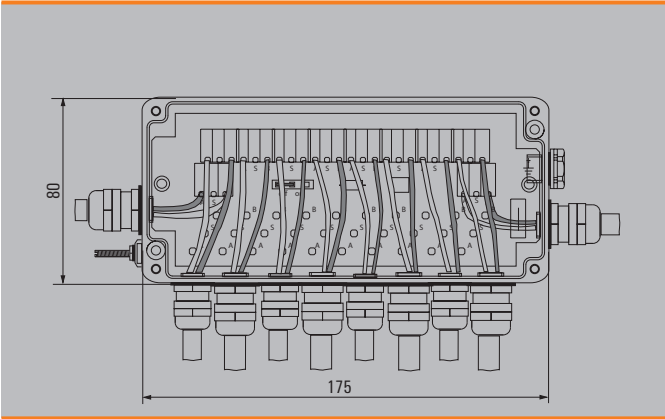
8-channel distributor



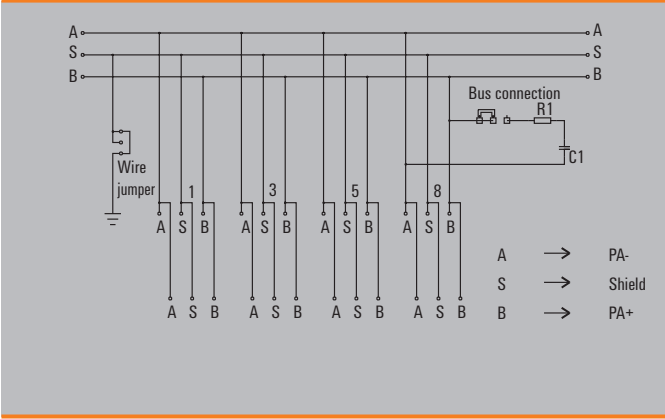
Ordering data

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

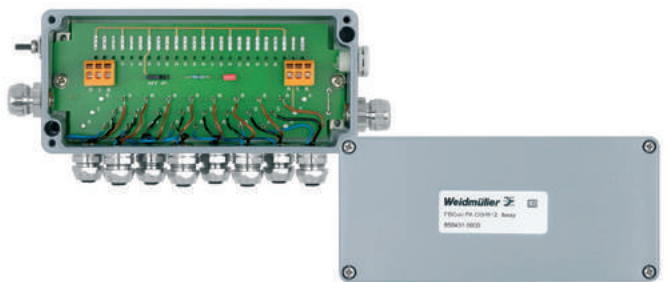
Dimensioned drawing



Wiring diagram



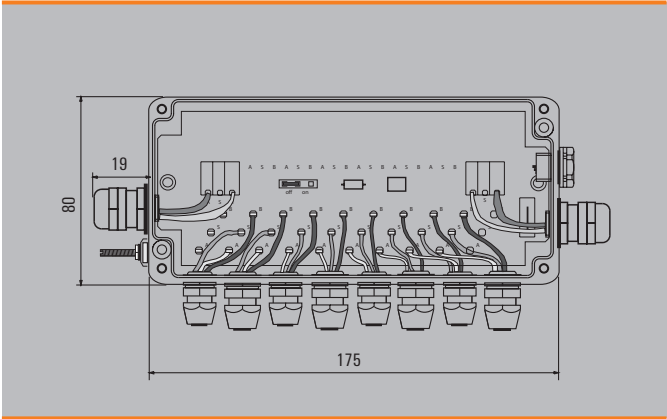
8-channel distributor



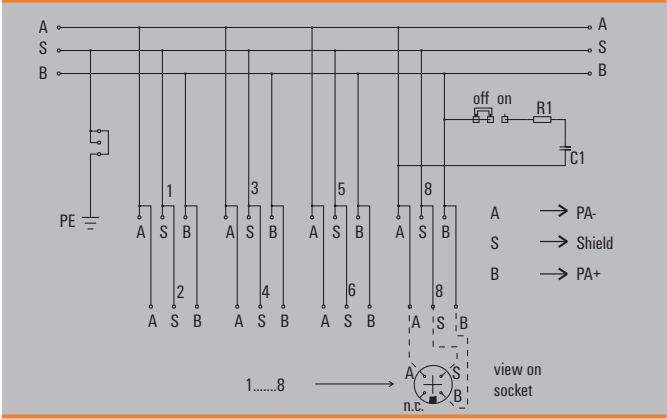
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 8WAY	branch line M12	1	8564310000

Dimensioned drawing

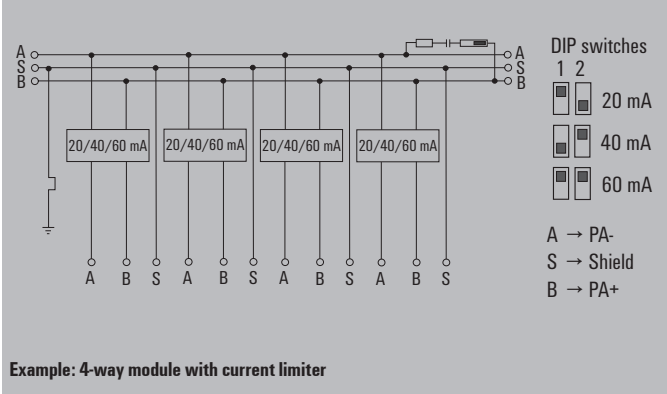
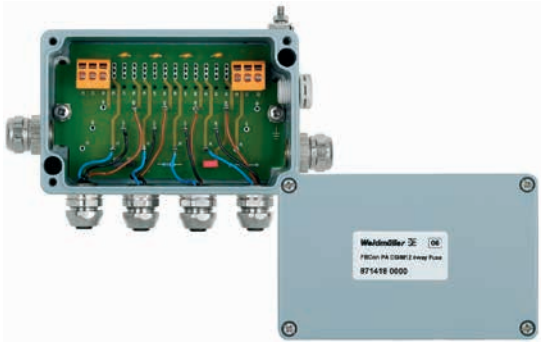


Wiring diagram



PROFIBUS-PA - FBCon T-distributor with surge protection

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

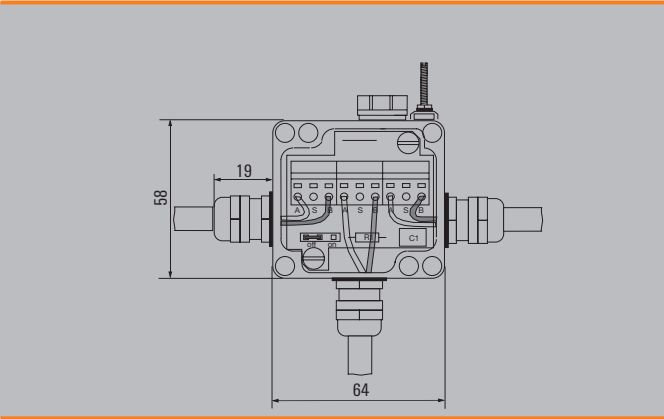
1-channel distributor (limiter)



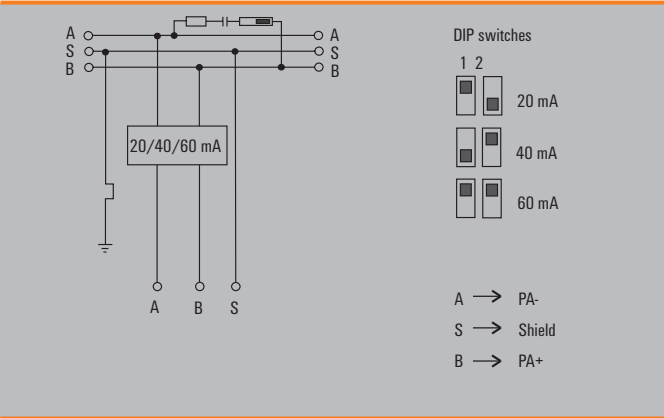
Ordering data

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

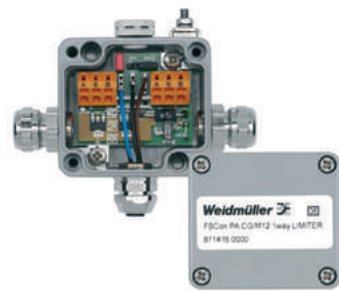
Dimensioned drawing



Wiring diagram



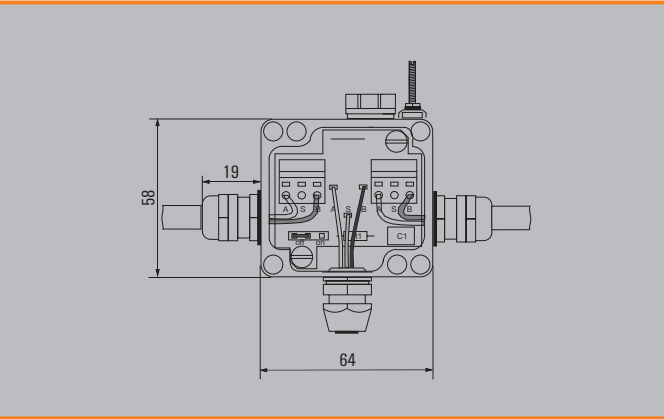
1-channel distributor (limiter)



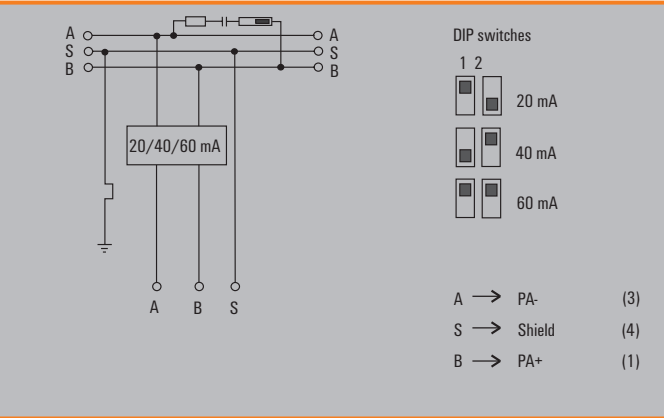
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 1WAY LIMITER	branch line M12	1	8714160000

Dimensioned drawing

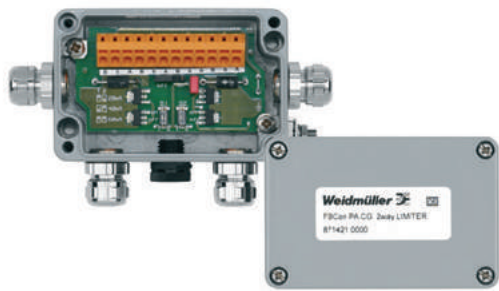


Wiring diagram



PROFIBUS-PA - FBCon T-distributor with surge protection

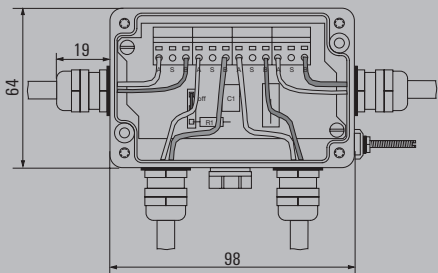
2-channel distributor (limiter)



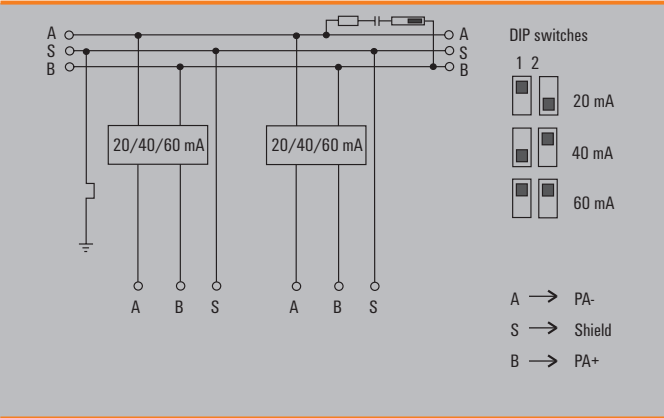
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 2WAY LIMITER	branch line CG	1	8714210000

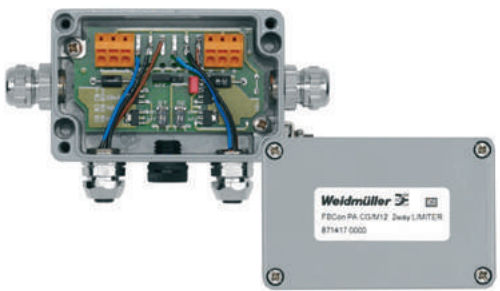
Dimensioned drawing



Wiring diagram



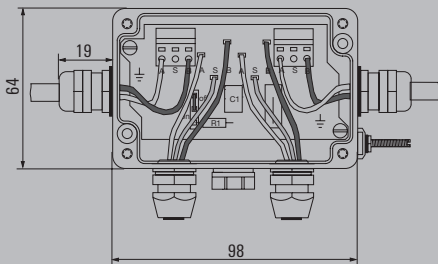
2-channel distributor (limiter)



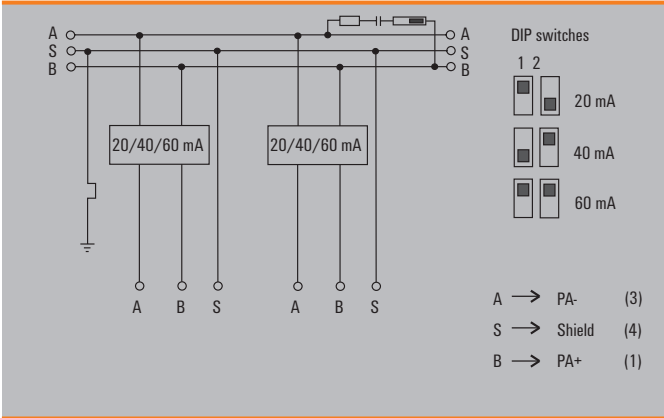
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 2WAY LIMITER	branch line M12	1	8714170000

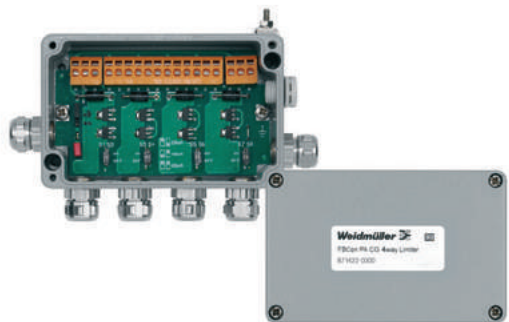
Dimensioned drawing



Wiring diagram



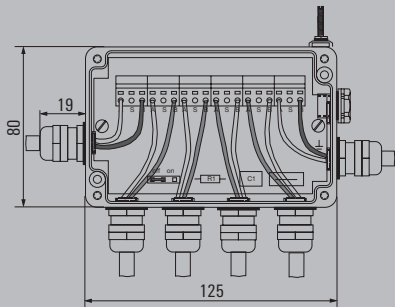
4-channel distributor (limiter)



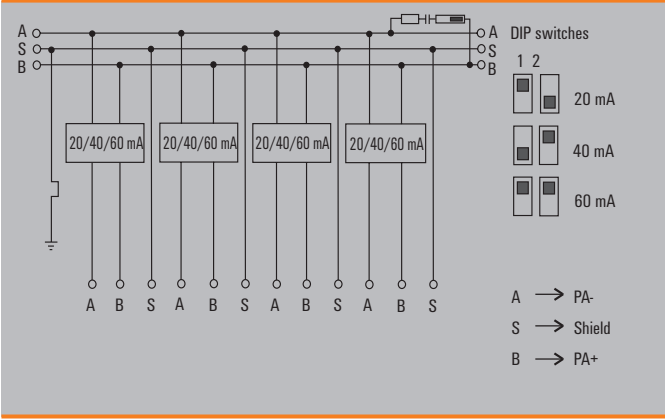
Ordering data

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

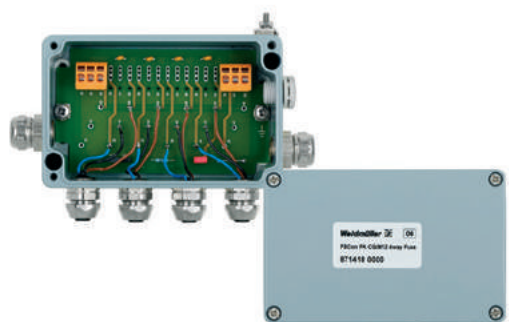
Dimensioned drawing



Wiring diagram



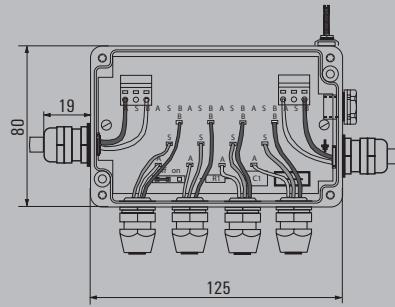
4-channel distributor (limiter)



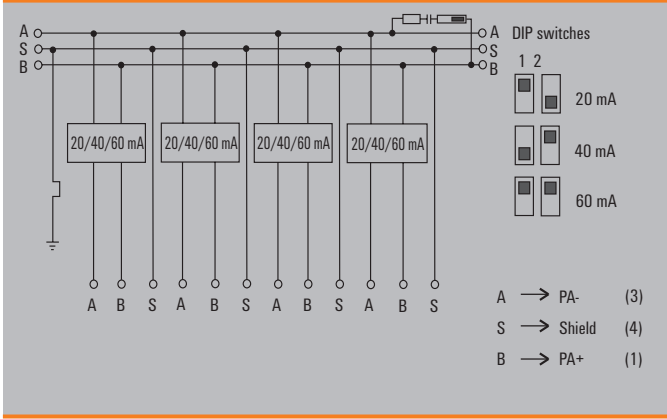
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG/M12 4WAY LIMITER	branch line M12	1	8714180000

Dimensioned drawing

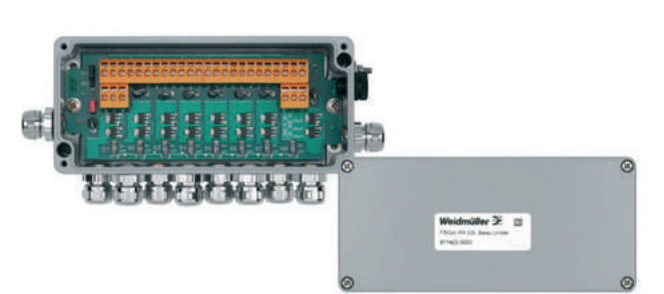


Wiring diagram



PROFIBUS-PA - FBCon T-distributor with surge protection

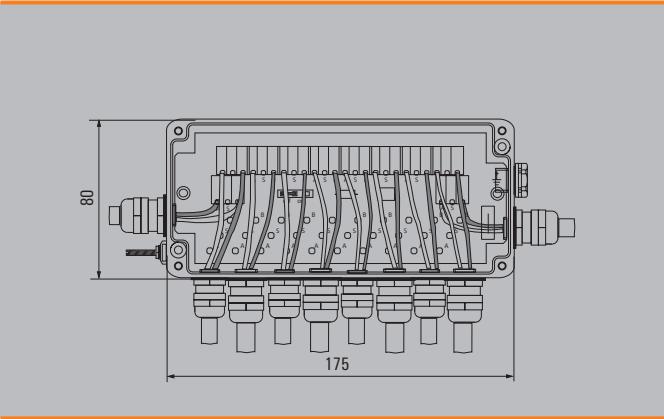
8-channel distributor (limiter)



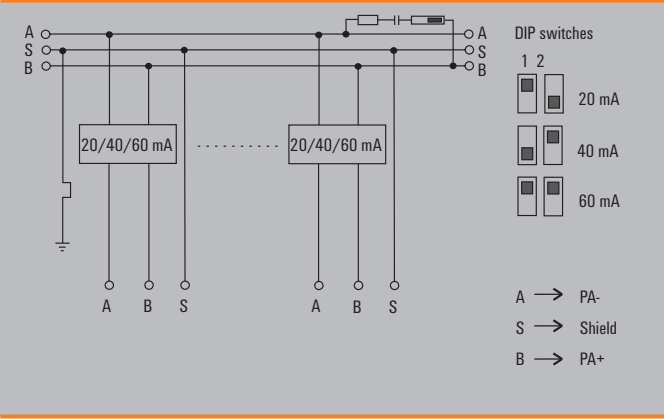
Ordering data

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

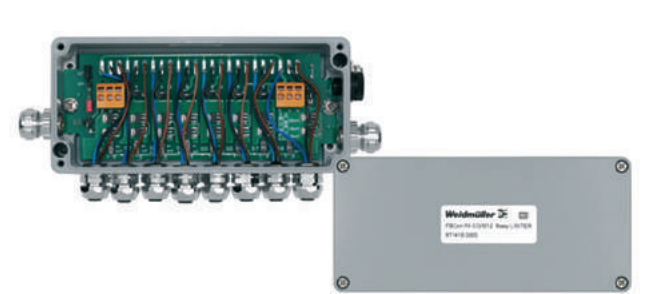
Dimensioned drawing



Wiring diagram



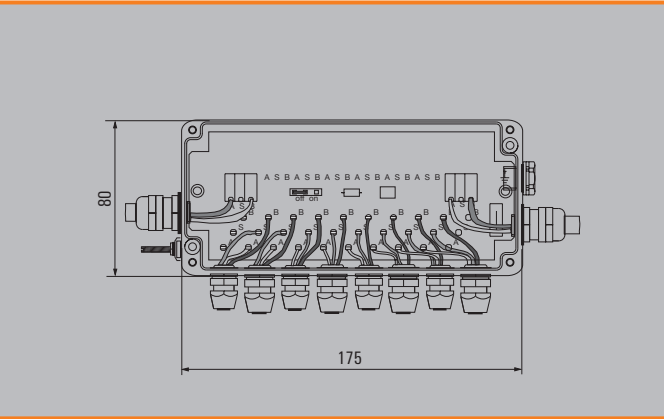
8-channel distributor (limiter)



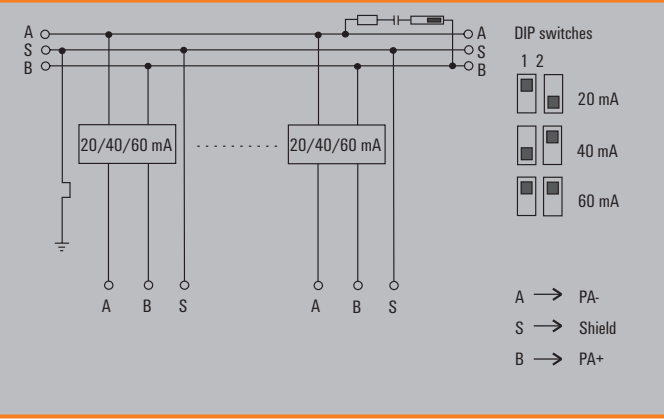
Ordering data

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.

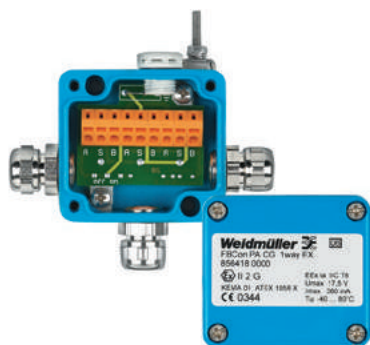
Functionality

- 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



[illegible]Weidmüller L.43

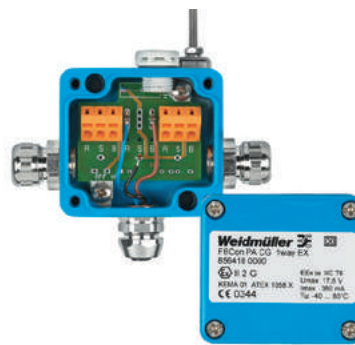
1-channel distributor Ex



Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FRCON PA CG 1WAY EX	branch line CG	1	8564180000

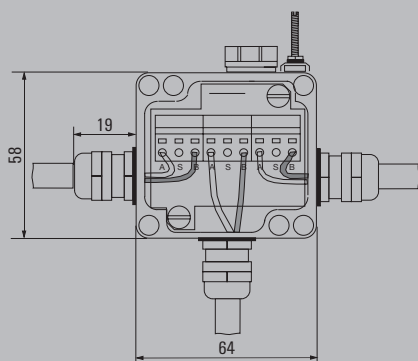
1-channel distributor Ex



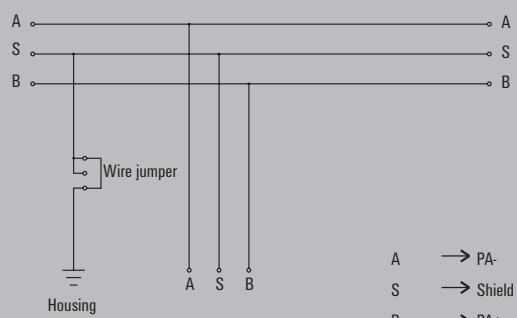
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG/M12 1WAY EX	branch line M12	1	8564150000

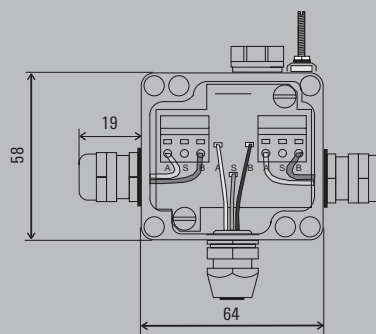
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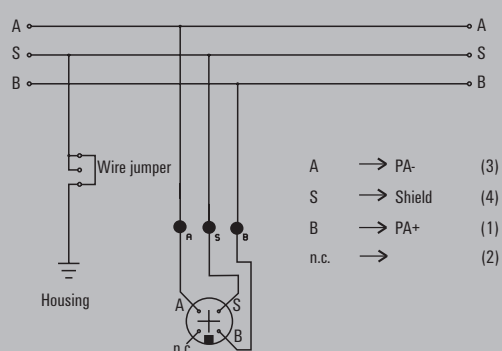
Wiring diagram



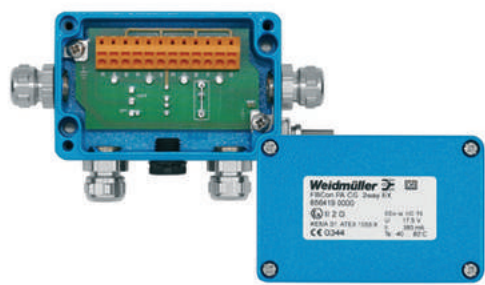
Dimensioned drawing



Wiring diagram



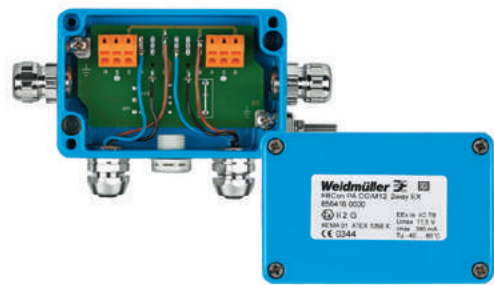
2-channel distributor Ex



Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG 2WAY EX	branch line CG	1	8564190000

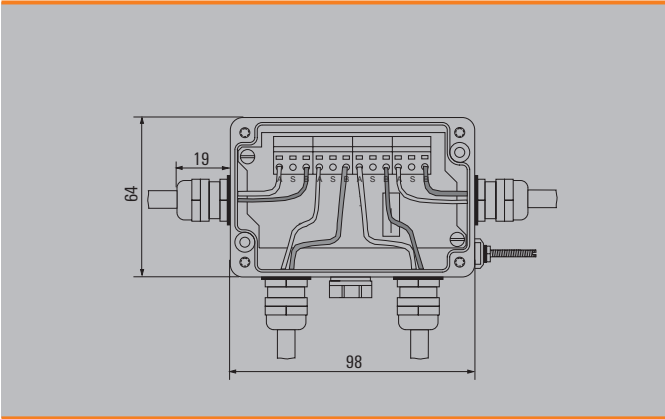
2-channel distributor Ex



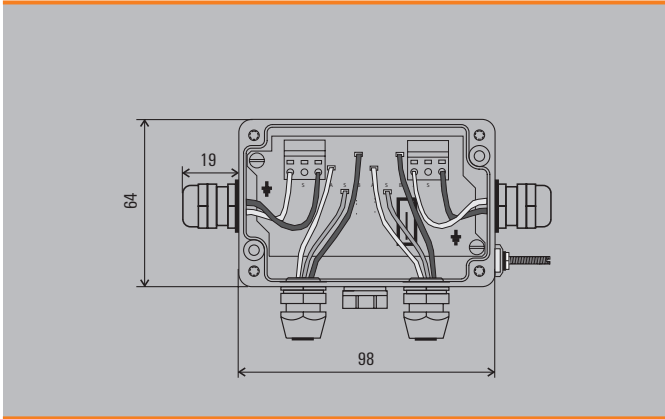
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG/M12 2WAY EX	branch line M12	1	8564160000

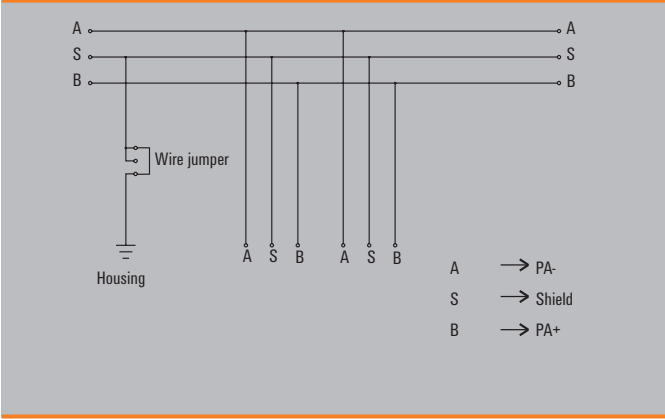
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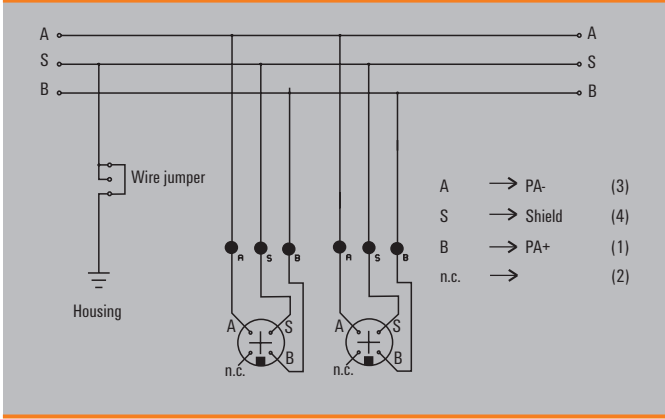
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Wiring diagram

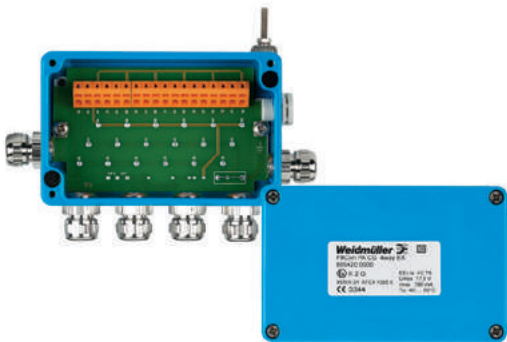


Wiring diagram



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

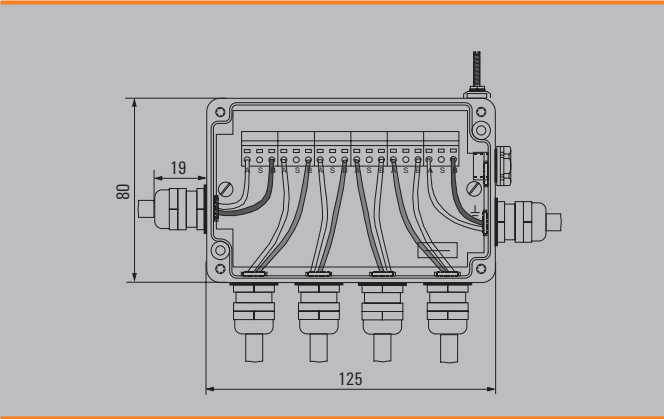
4-channel distributor Ex



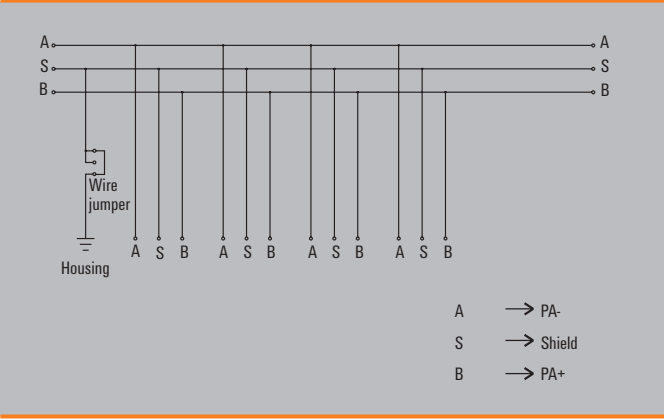
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG 4WAY EX	branch line CG	1	8564200000

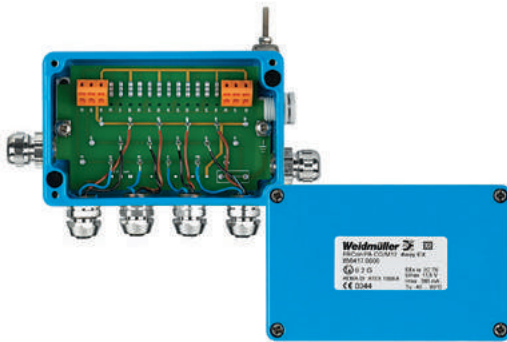
Dimensioned drawing



Wiring diagram



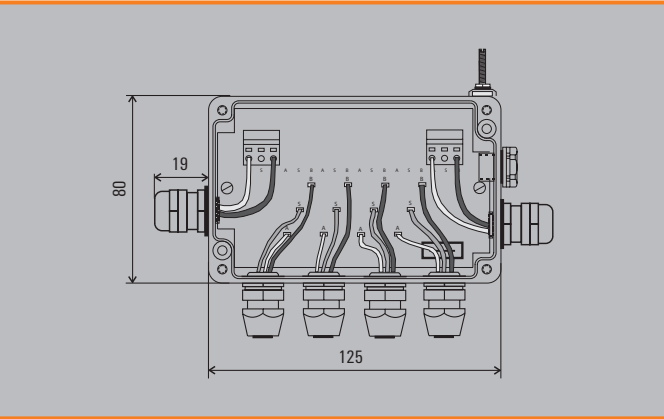
4-channel distributor Ex



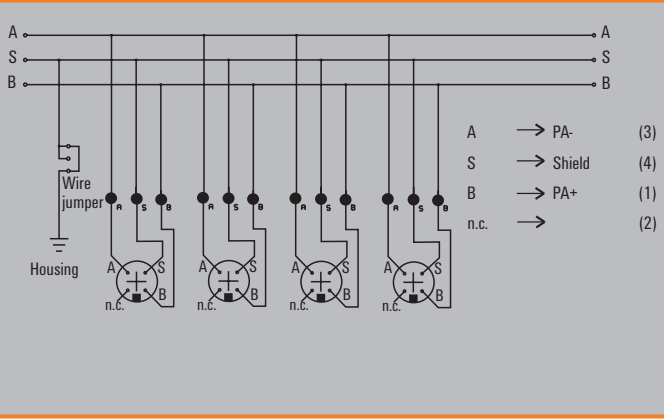
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG/M12 4WAY EX	branch line M12	1	8564170000

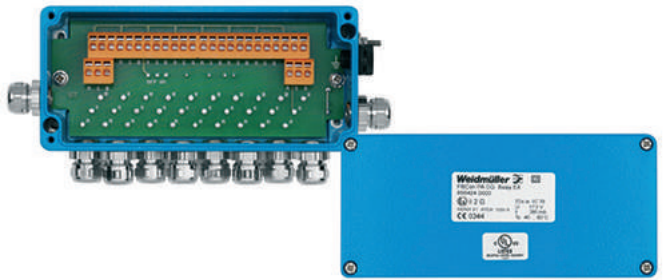
Dimensioned drawing



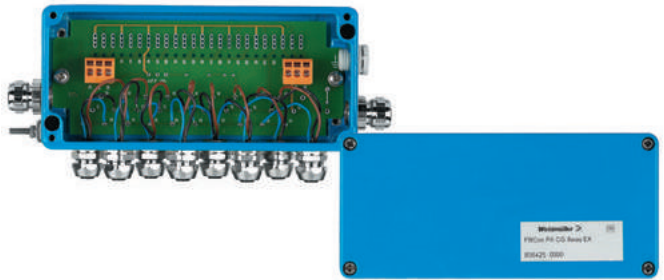
Wiring diagram



8-channel distributor Ex



8-channel distributor Ex



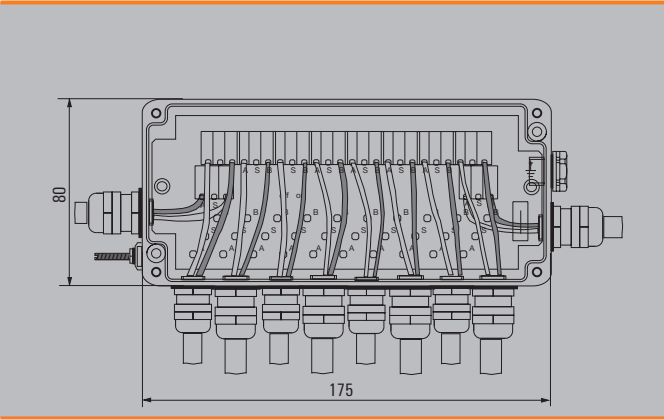
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 8WAY EX	branch line CG	1	8564240000

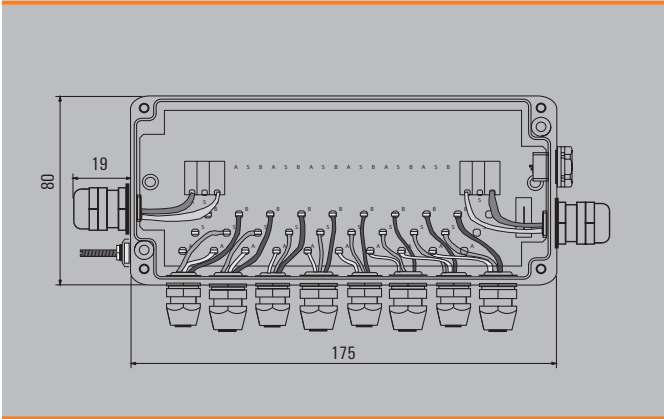
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 8WAY EX	branch line M12	1	8564250000

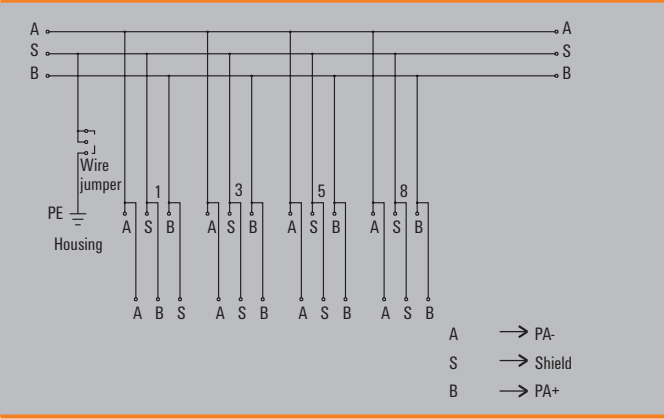
Dimensioned drawing



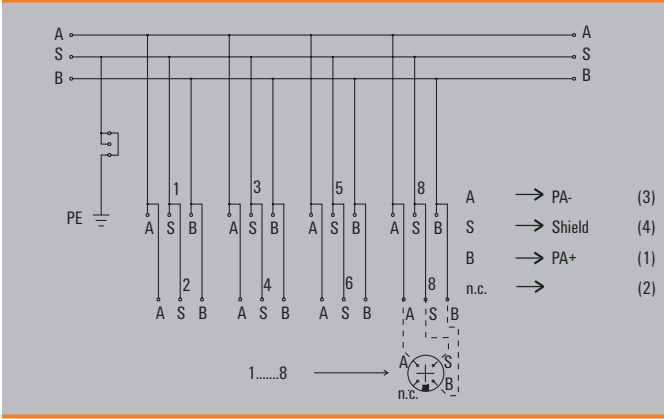
Dimensioned drawing



Wiring diagram

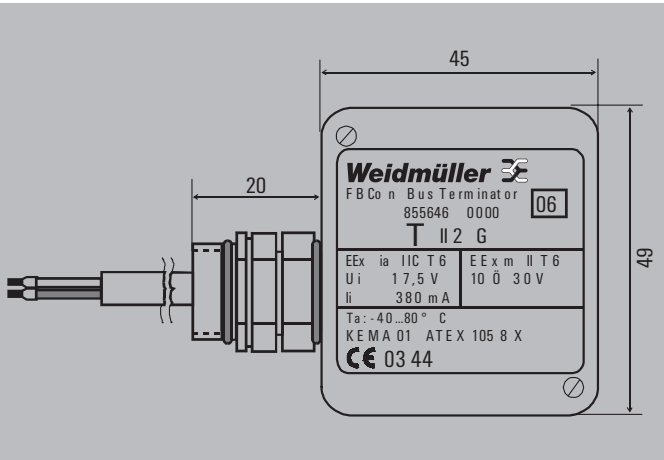
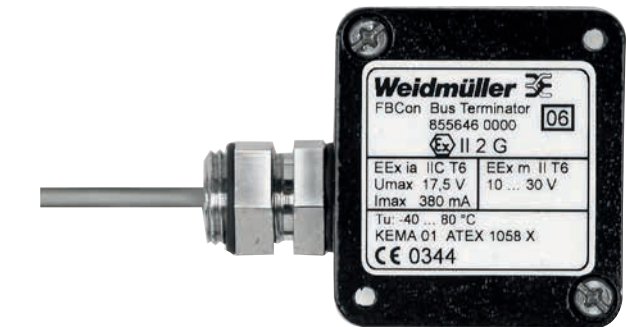


Wiring diagram



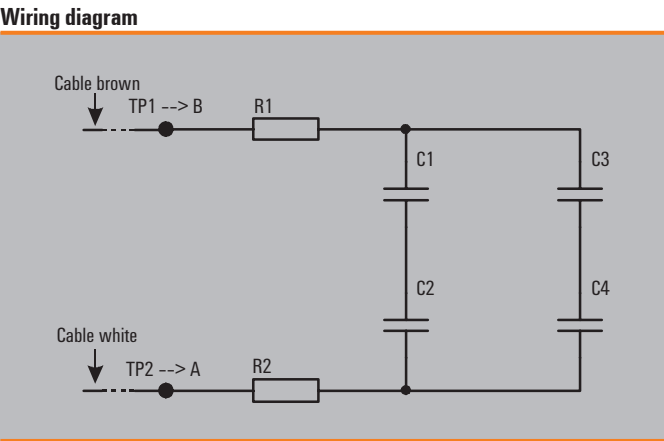
PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)

FBCon bus terminator
FBCon bus terminator without earth connection

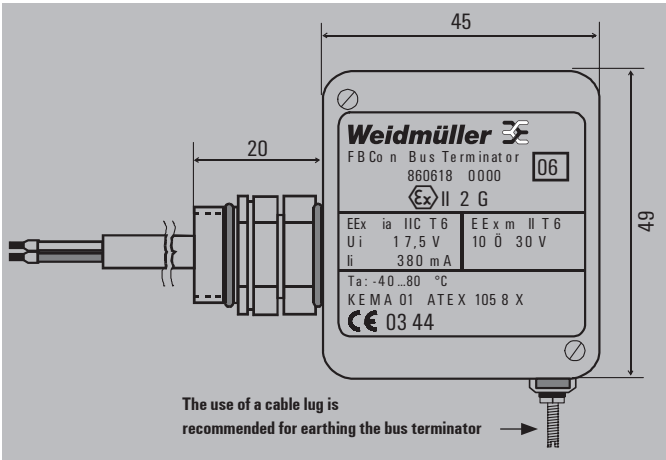
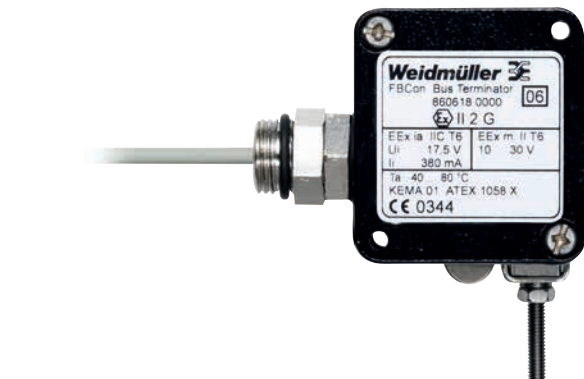


Technical data	
Operating temperature	-40 °C to 80 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (Al - Si 12)
Finish	Black powder-coated
Connection lead	2 x 0.14 mm ²
Cable entry	Bus adapter M16

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

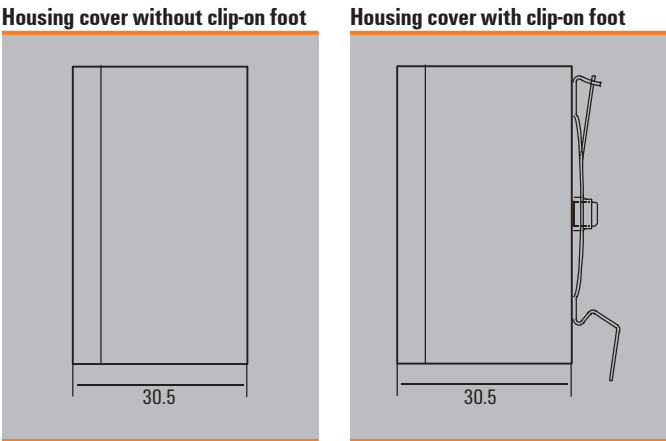


FBCon Bus Terminator with earth connection



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





AS-Interface ribbon cables

Coupling module single from ribbon cable to round cable



Technical data

Connection AS-Interface	ribbon cable
No. connectable cables	1
Type of cable	ribbon cable, yellow + black
Flexible lead cross-section	1.5 mm²
Connection type	piercing technology
Outlet line	
Type of cable	PUR
Conductor cross-section	0.34 mm²
Cable length	2 m
Operating voltage	≤ 40 V
Operating current	≤ 4 A
General data	
Pollution severity DIN EN 0110	3
Ambient temperature	-25 °C ... +75 °C
Storage temperature	-40 °C ... +85 °C
Housing material	PA 6-GF-FR
Shock resistance	30 g/11 ms
Vibration resistance	10 ... 55 Hz; 1.0 mm amplitude
Specific data	
Ingress protection class DIN 40050	IP 67
Weight	20 g
M12 Pin assignment	
Pin 1: blue	AS-Interface „+“ blue
Pin 3: brown	AS-Interface „-“ brown

Ordering data

Type	Qty.	Order No.
SAI-ASI T FR	1	1925010000

Bridge module ribbon cable



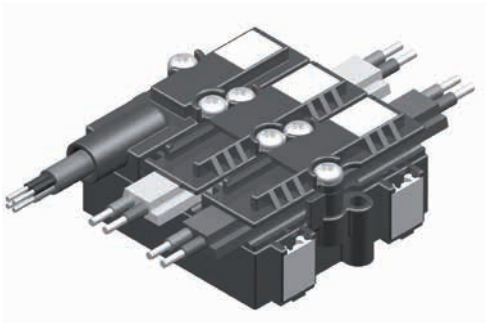
Technical data

Connection AS-Interface	ribbon cable
No. connectable cables	2
Type of cable	ribbon cable, yellow + black
Flexible lead cross-section	1.5 mm²
Connection type	piercing technology
Outlet line	
Type of cable	PUR solid
Operating voltage	≤ 40 V
Operating current	≤ 4 A
General data	
Pollution severity DIN EN 0110	3
Ambient temperature	-25 °C ... +75 °C
Storage temperature	-40 °C ... +85 °C
Housing material	PA 6-GF-FR
Shock resistance	30 g/11 ms
Vibration resistance	10 ... 55 Hz; 1.0 mm amplitude
Specific data	
Ingress protection class DIN 40050	IP 65
Weight	20 g without cable

Ordering data

Type	Qty.	Order No.
SAI-ASI T FF small	1	1026090000

Coupling module ribbon cable to round cable / yellow + black (2 m)



Technical data

Connection AS-Interface	ribbon cable
No. connectable cables	2
Type of cable	ribbon cable, yellow + black
Flexible lead cross-section	1.5 mm²
Connection type	piercing technology
Outlet line	
Type of cable	PUR
Conductor cross-section	0.34 mm²
Cable length	2 m
Operating voltage	≤ 40 V
Operating current	≤ 4 A
General data	
Pollution severity DIN EN 0110	3
Ambient temperature	-25 °C ... +75 °C
Storage temperature	-40 °C ... +85 °C
Housing material	PA 6-GF-FR
Shock resistance	30 g/11 ms
Vibration resistance	10 ... 55 Hz; 1.0 mm amplitude
Specific data	
Ingress protection class DIN 40050	IP 65 / IP 67
Weight	50 g without cable
M12 Pin assignment	
Pin 1: brown	AS-Interface „+“
Pin 2: white	ext. power supply „-“
Pin 3: blue	AS-Interface „-“
Pin 4: black	ext. power supply „+“

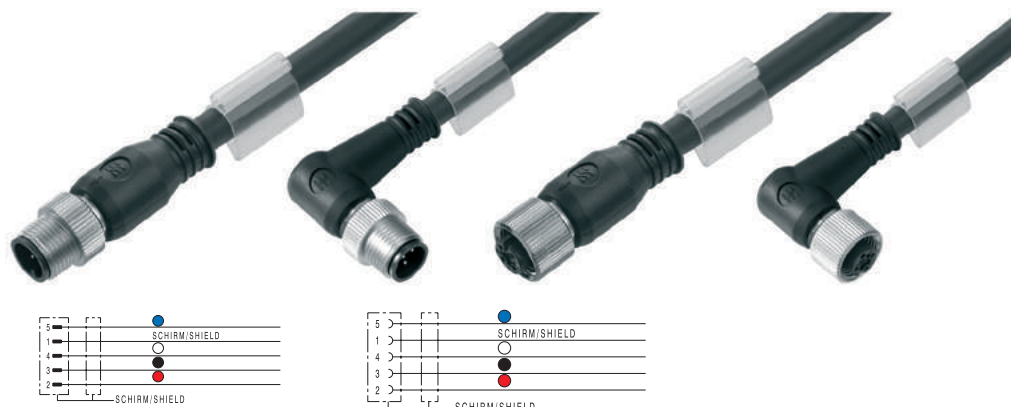
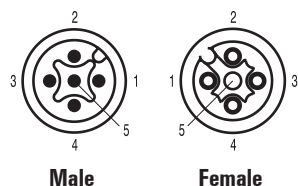
Ordering data

Type	Qty.	Order No.
SAI-ASI T FFR	1	1924980000

One end without connector

M12

A-coded



Ordering data

Strait	
PUR/TPE	1.5 m
PVC/PVC	1.5 m
Angled	
PUR/TPE	1.5 m
PVC/PVC	1.5 m
Note	

Male

Male	5-pole
SAIL-M12G-CD-1.5A	1964700150
SAIL-M12G-CD-1.5B	1060110150
SAIL-M12W-CD-1.5A	1062220150
SAIL-M12W-CD-1.5B	1062170150
Other versions on request	

Female

Female	5-pole
SAIL-M12BG-CD-1.5A	1964690150
SAIL-M12BG-CD-1.5B	1060120150
SAIL-M12BW-CD-1.5A	1061980150
SAIL-M12BW-CD-1.5B	1062180150
Other versions on request	

Government	Percentage
Current government	60%
Previous government	40%

Standard cable lengths

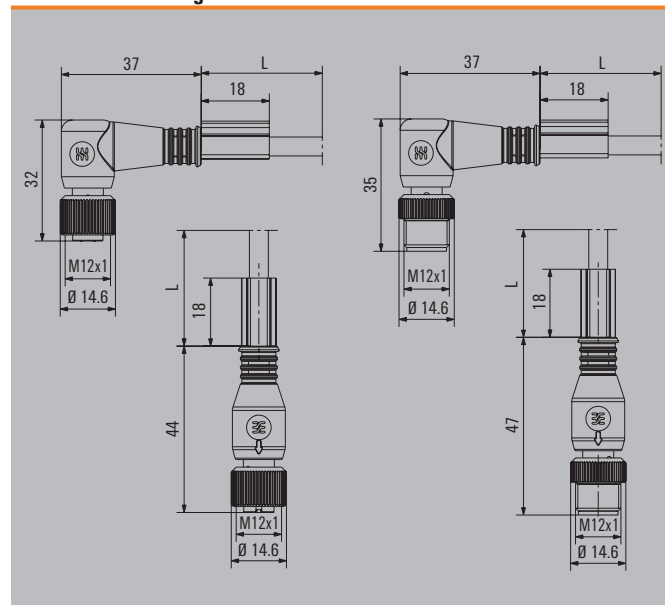
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

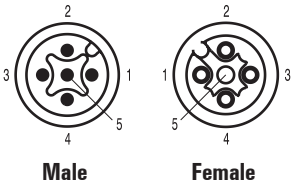
Sheathing colour	black
Protection degree	IP67
Wire cross section	2 x 0.34 mm ² + 2 x 0.22 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Codina	A

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

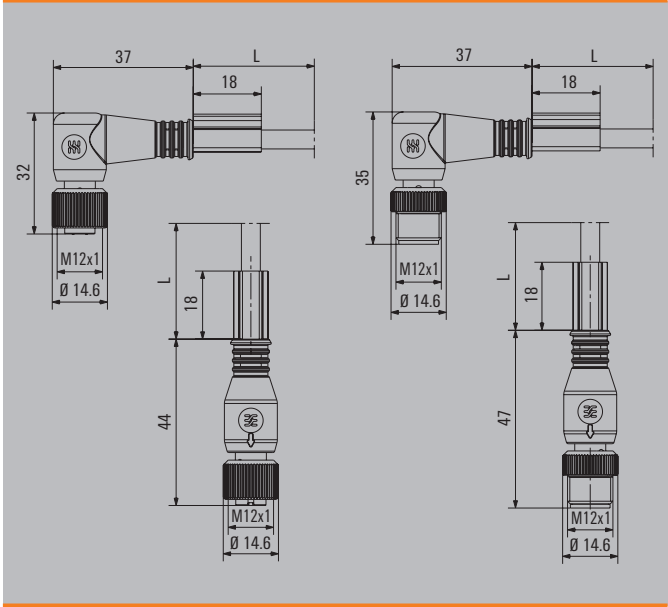
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
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

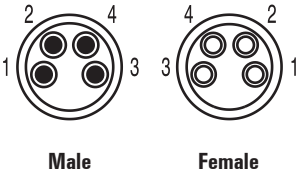
Chapter W includes additional technical specifications for the cable

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	

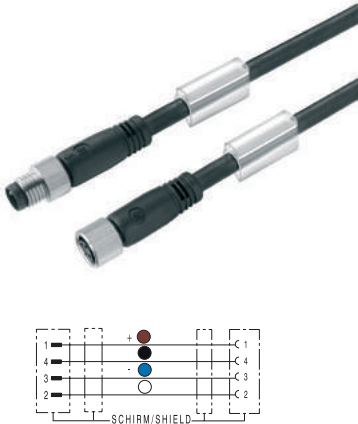
Ordering data

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	

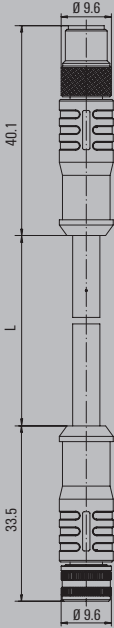
Universal Pro cables



Terminating resistor

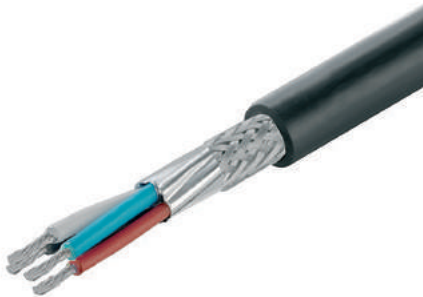
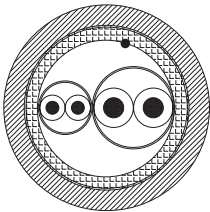


Dimensioned drawing



L in the drawing is the cable length

CAN / DeviceNet™ bulk lengths



Technical data

Component A (1x2x0.34) ST	
Conductor	
Insulation	
Assembly	
Element B (1x2x0.22) ST	
Conductor	
Insulation	
Assembly	
Complete assembly	
Drain wire	
Shield	
Band	
Outer cladding	
Marking	
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	

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)
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
(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 db/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.)

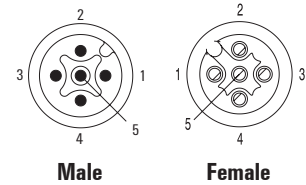
Note

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 / SAIB

Straight



Type	Qty.	Order No.
SAIS-M-5/8S M12 5P A-COD	1	1784740000
SAIB-M-5/8S M12 5P A-COD	1	1784750000
Other versions on request		

Screw connection
CuZn
M12
0.14...0.75 mm²
4 A
60 V
-40 ... +85 °C
IP67
Gold-plated

SAISW / SAIBW

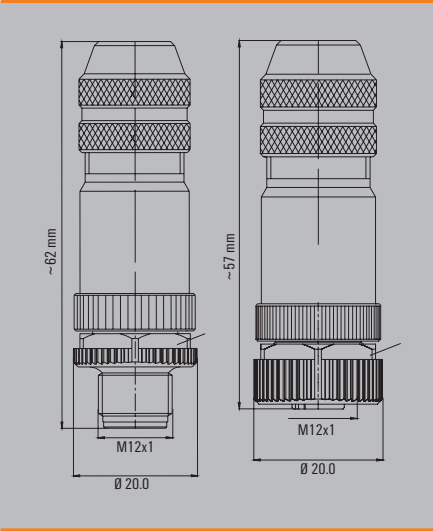
Angled



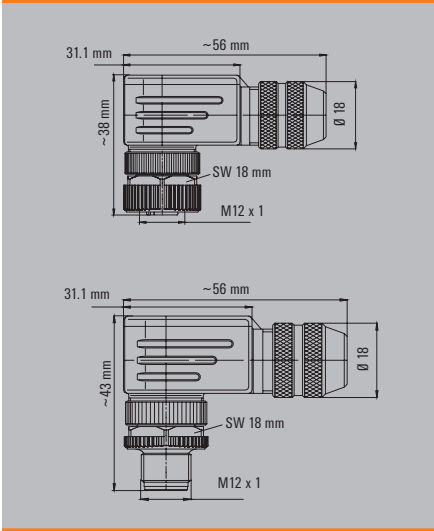
Type	Qty.	Order No.
SAISW-M-5/8 M12	1	1803940000
SAIBW-M-5/8 M12	1	1803920000
Other versions on request		

Screw connection
CuZn
M12
6...8 mm (PG9)
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		

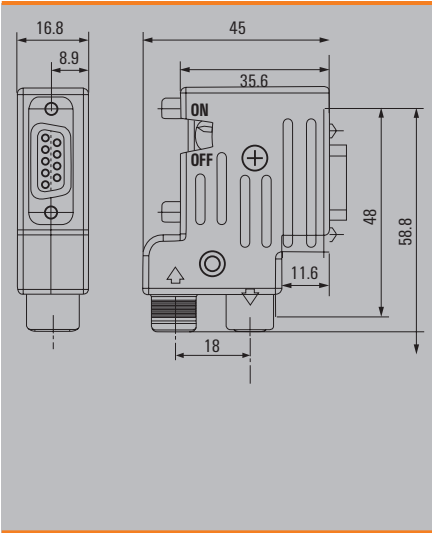
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

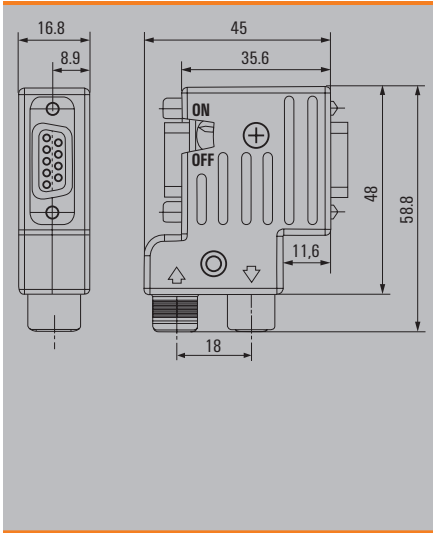
90°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
M12 A-coded, pin + socket
D-Sub 9-pole, Socket
IP30
≥ 200
-20...+70 ° C
UNC4-40

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		

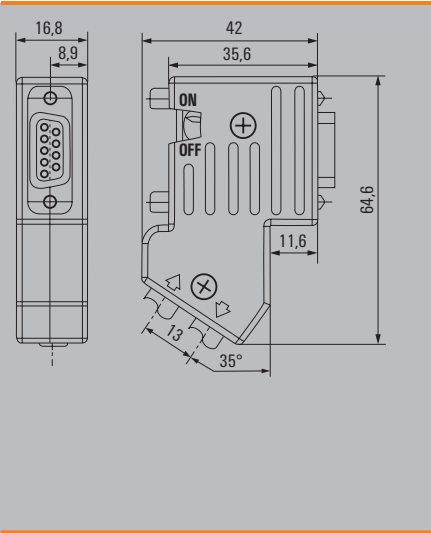
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

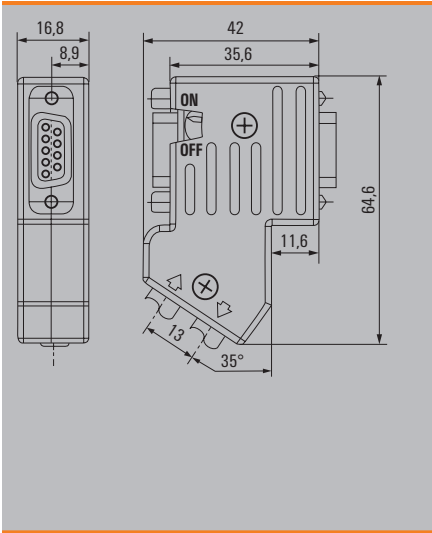
35°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
Screw connection
D-Sub 9-pole, Socket
IP30
≥ 200
-20...+70 ° C
UNC4-40

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

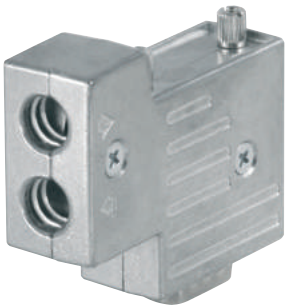


Dimensioned drawing



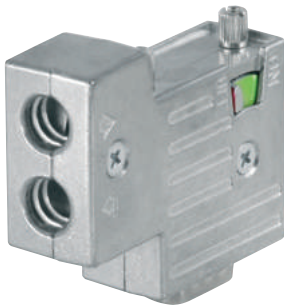
CAN-BUS D-Sub
Screw connection
90° exit angle

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		

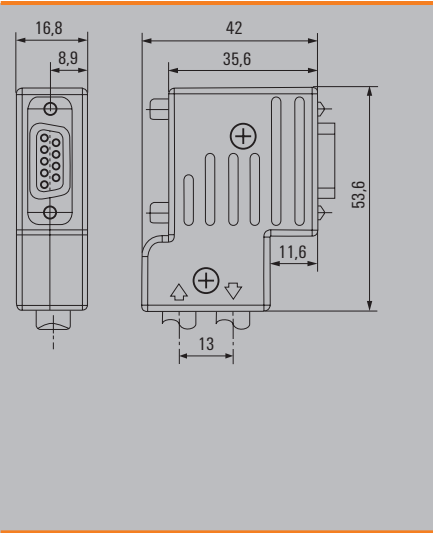
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

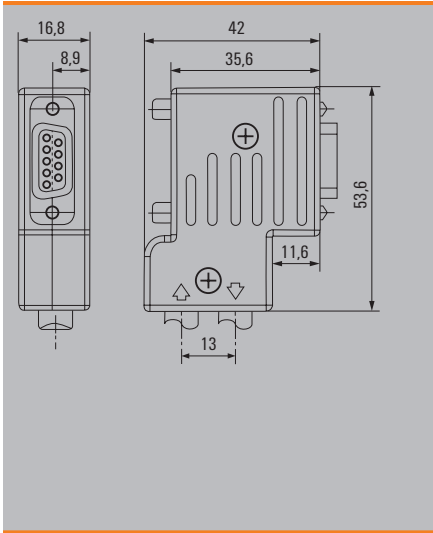
90°
1 Mbps
Max. 75% at +25°C, non-condensing
ZnAl
Screw connection
D-Sub 9-pole, Socket
IP30
≥ 200
-20...+70 ° C
UNC4-40

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

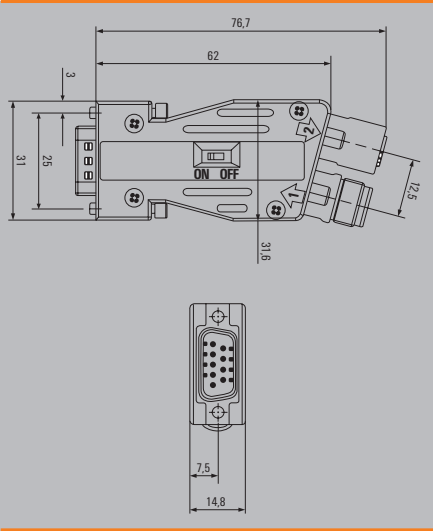
Type	Qty.	Order No.
CAN SUB-D M12 180 TERM	1	1555290000
Other versions on request		

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

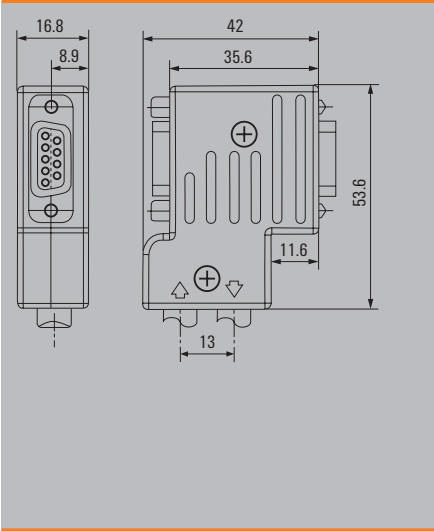
Type	Qty.	Order No.
CAN SUB-D SK TERM PS	1	1550590000
Other versions on request		

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

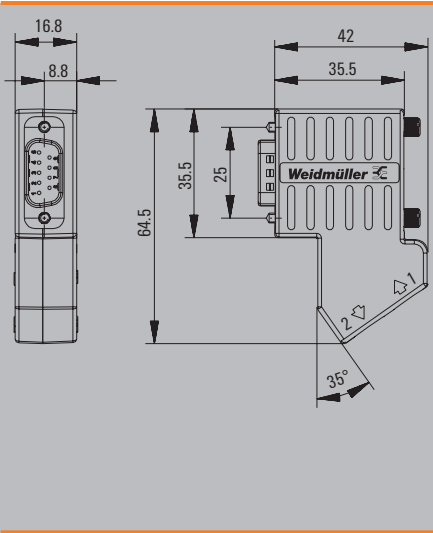
Technical data

Outgoing elbow
Data rate
Humidity
Housing main material
BUS, cable interface
BUS interface
Protection degree
Plugging cycles
Temperature range of housing
Interlock
Note

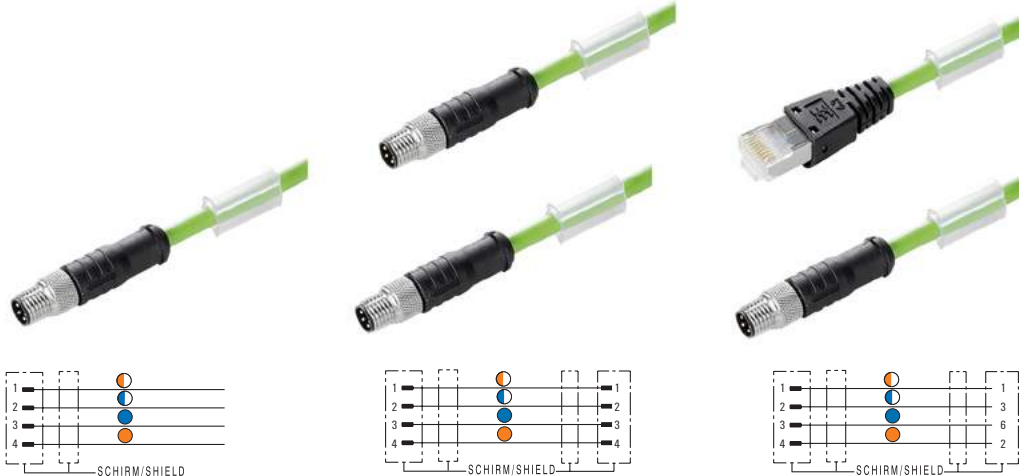
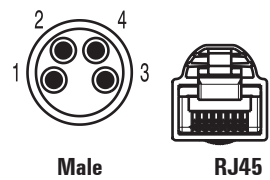
Type	Qty.	Order No.
SAI-SUB-D 9 SK35	1	1551080000
Other versions on request		
35°		
Max. 75% at +25°C, non-condensing		
ZnAl		
Screw connection		
D-Sub 9-pole, Pin		
IP30		
≥ 200		
-20...+70 ° C		
UNC4-40		



Dimensioned drawing



One end without connector
Connecting cable
M8 and RJ45



Ordering data		M8 Male-Open Ended	4-pole	M8 Male-Male	4-pole		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

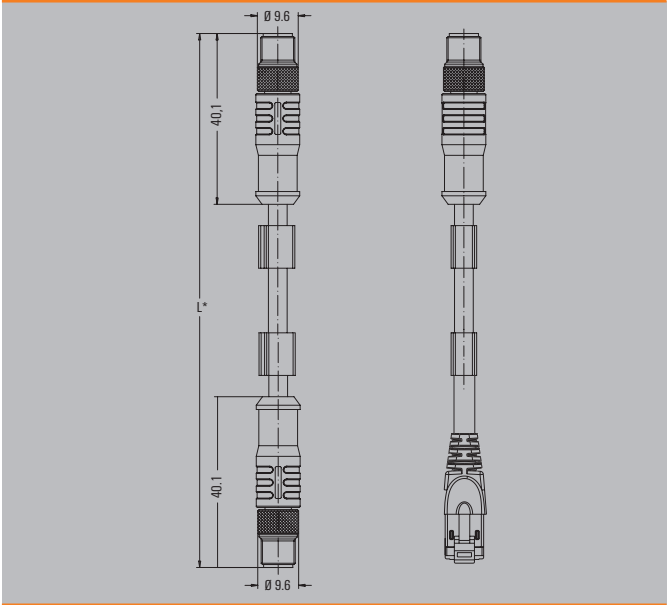
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

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 - 0.36 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 pin / M12 D-code - IP 67 straight socket
4*AWG 22/7 - 0.36 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-I 12 MC NE GE	320	1718411687
TM-I 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-I 12 MC NE GE	320	1718411687
TM-I 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



	M12
yellow	1
white	2
orange	3
blue	4

RJ45		M12
1	yellow	1
3	white	2
2	orange	3
6	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
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

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 - 0.36 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

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 - 0.36 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

Note

Ordering data

1.0 m
1.5 m
3.0 m
5.0 m
10.0 m

Note

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.
IE-C5DD4UG0010MCSA20-E	1	1044470010
IE-C5DD4UG0015MCSA20-E	1	1044470015
IE-C5DD4UG0030MCSA20-E	1	1044470030
IE-C5DD4UG0050MCSA20-E	1	1044470050
IE-C5DD4UG0100MCSA20-E	1	1044470100

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

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

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

**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

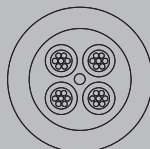
Cat. 5 PROFINET. PUR. M12 straight-M12 angled	1.5 m
	3.0 m
	5.0 m
	10.0 m
Cat. 5 PROFINET. PUR. M12 angled-M12 angled	
	1.5 m
	3.0 m
	5.0 m
	10.0 m
Cat. 5. PUR. M12 angled-open	
	1.5 m
	3.0 m
	5.0 m
	10.0 m
Note	

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



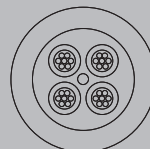
Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 straight pin / M12 D-code - IP 67 angled pin
4*AWG 22/7 - 0.36 mm ²
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 x cable diameter
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60811-2-1

[illegible]

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

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 - 0.36 mm ²
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

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

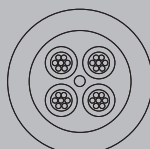
Type	Qty.	Order No.
IE-C5DD4UG0015MCAMCA-E	1	1059890015
IE-C5DD4UG0030MCAMCA-E	1	1059890030
IE-C5DD4UG0050MCAMCA-E	1	1059890050
IE-C5DD4UG0100MCAMCA-E	1	1059890100

Type	Qty.	Order No.
TM-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

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- Cat. 5
- PUR
- D-coded
- PROFINET type C

Plug / -



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

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

Marking tags	
	Insertion label. yellow. 12 mm
	Insertion label. yellow. 18 mm
	Transparent sleeves. 12-mm length
	Transparent sleeves. 18-mm length

Note

Dragnale cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 D-code - IP 67 angled pin / Open
4*AWG 22/7 - 0.36 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

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

[illegible]

Type	Qty.	Order No.
TM+ 12 MC NE GE	320	1718411687
TM+ 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Ethernet cables

Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

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
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
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 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-C5DB4RE0015MCSMCS-E	1	1010850015
IE-C5DB4RE0030MCSMCS-E	1	1010850030
IE-C5DB4RE0050MCSMCS-E	1	1010850050
IE-C5DB4RE0100MCSMCS-E	1	1010850100

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

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 straight socket

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-C5DB4RE0050MSSMCS-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

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 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

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-C5DB4RE0015MCSMCA-E	1	1059940015
IE-C5DB4RE0030MCSMCA-E	1	1059970030
IE-C5DB4RE0050MCSMCA-E	1	1059970050
IE-C5DB4RE0100MCSMCA-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

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
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

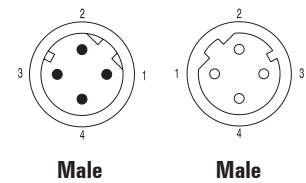


SAISM / SAIBM

Straight

SAISW

Angled



Ordering data

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

Type	Qty.	Order No.
SAISM-4/8S-M12-4P D-COD	1	1892120000
SAIBM-4/8S-M12-4P D-COD	1	1892130000

Type	Qty.	Order No.
SAISW-4/8S-M12-4P D-COD	1	1160550000

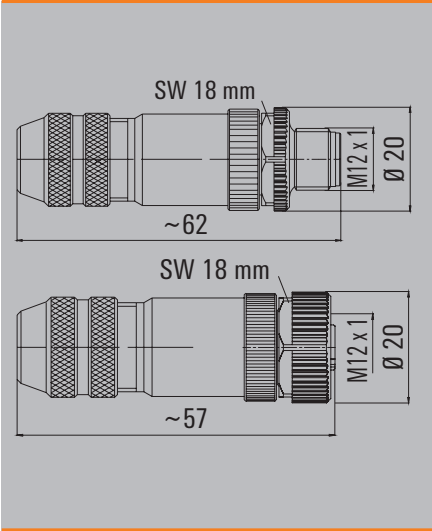
Technical data

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

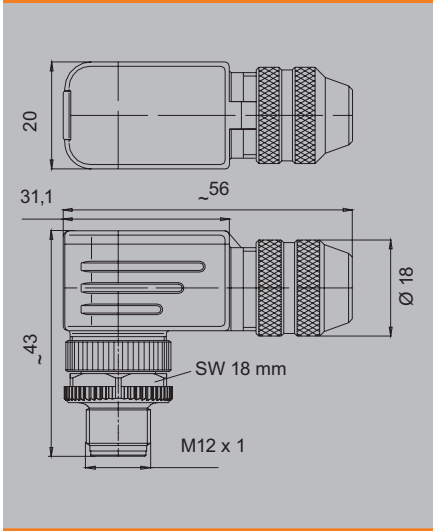
Screw connection
CuZn
M12
6...8 mm (PG9)
0.14...0.75 mm²
4 A
250 V
-40 ... +85 °C
IP67
Gold-plated

Screw connection
CuZn
M12
0.14...0.75 mm²
4 A
250 V
-40 ... +85 °C
IP67
Gold-plated

Dimensioned drawing



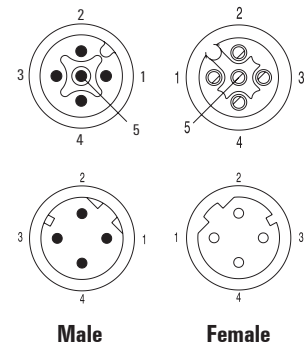
Dimensioned drawing



M12 tension-clamp connection,
stainless steel with shield connection
D-coded



SAIS / SAIB VA



Ordering data

Male
D-coded, 4-pole, PG 9
Note

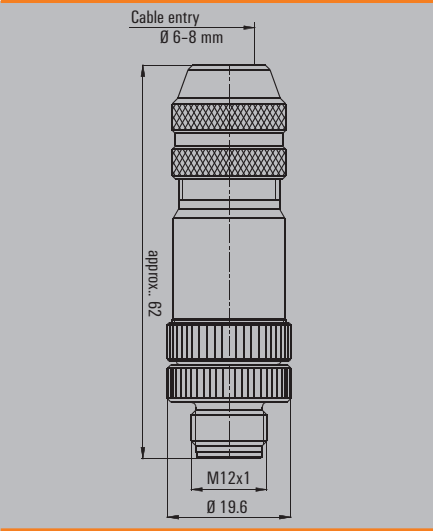
Type	Qty.	Order No.
SAIS 4/9-VA D-COD	1	1920700001

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

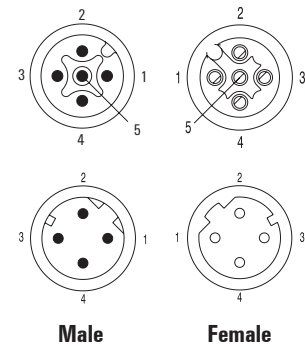
Tension-clamp connection
1.4404/316L
M12
6...8 mm (PG9)
0.25...0.5 mm ²
4 A
60 V
-40 ... +85 °C
IP69K
Gold-plated

Dimensioned drawing



Customisable plug-in connectors

M12 crimp connection
with shield connection
D-coded



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

SAISC / SAISWC



Type	Qty.	Order No.
SAISC-M-4/8S-M12-D-COD	1	1467840000
SAISWC-M-4/8S-M12-D-COD	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

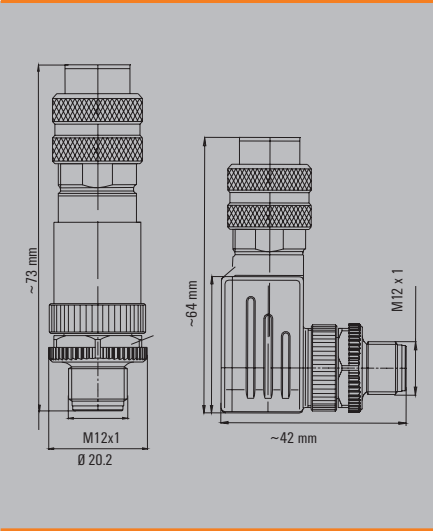
SAI-M12



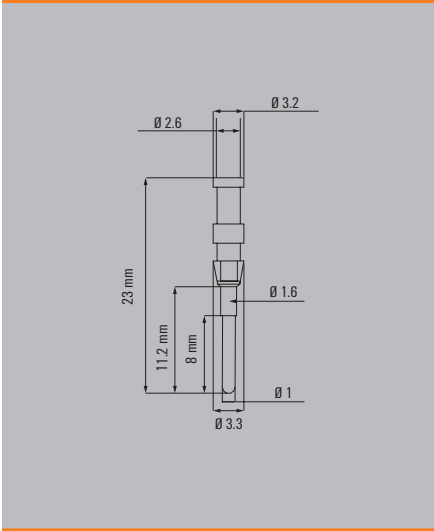
Type	Qty.	Order No.
SAI-M12-KSC-0.34/0.5	100	1468860000

Crimp connection
4 A
250 V
Gold-plated

Dimensioned drawing



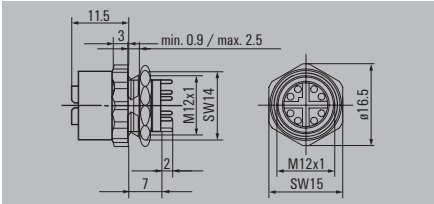
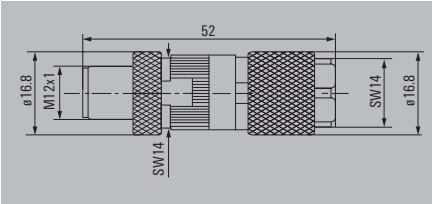
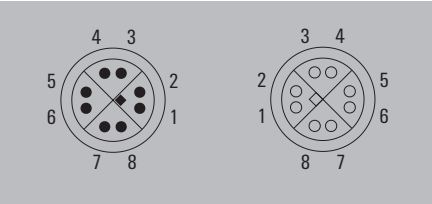
Dimensioned drawing



M12 connector / PCB socket
M12 X-type cat. 6_A

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

IP67 plugged
M12 / IDC
Zinc diecast
PA
M12
Brass / Gold-plated
Ambient temperature (operational)-40 / 85 °C
IEC 61076-2-109
0.5 A @ 40 °C
48 V
100 MΩ
≥ 100
360° all-round enclosure
0.48 / 0.76 mm
AWG 26/7 / AWG 22/7
0.41 / 0.64
AWG 26/1 / AWG 22/1
1.6
5 / 9.7 mm

Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
IP67, when screwed in
CuZn
M12
CuZn / Gold over nickel
Ambient temperature (operational)-40 / 85 °C
IEC 61076-2-109
0.5 A @ 40 °C
48 V
100 MΩ
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

Accessories

Type	Qty.	Order No.
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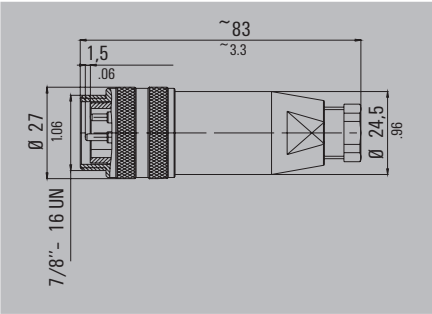
Type	Qty.	Order No.
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Note

FOUNDATION Fieldbus - connector (7/8")

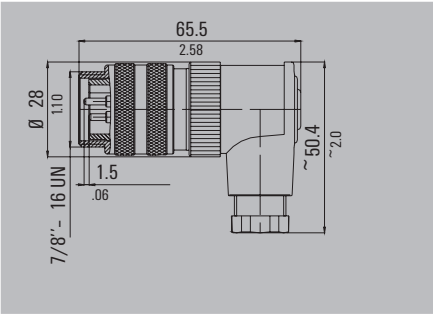
Plug-in connector FBCon 7/8"

Plug-in connector straight (plug)



Ordering data		4-pole
Type	Qty.	Order No.
SAIS-4/9-7/8"	1	1808840000

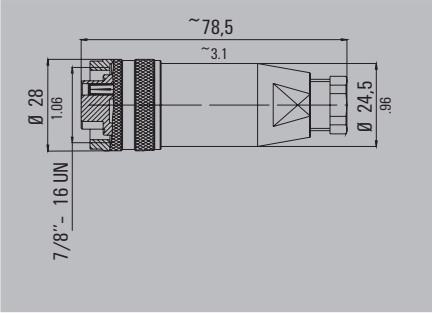
Plug-in connector 90° (plug)



Ordering data		4-pole
Type	Qty.	Order No.
SAISW-4/9-7/8"	1	1808830000

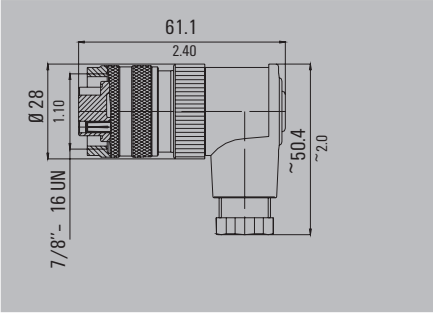
Technical data	
No. of poles	4
Lock	Screw 7/8" UNF
Cable gland	PG 9
Connection	Screw
Connection cross-section	max. 1,5 mm²
Connection cross-section	16 AWG
Enclosure protection class	IP 67
Mechanical service life	> 500 plugging cycles
Upper limit temperature	+ 85 °C
Lower limit temperature	- 40 °C

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

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	> 10¹¹Ω

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
Further versions on request		

Cable glands – brass – IP68

VG M16-1/MS68



Ordering data

Type	Qty.	Order No.
VG M16-1/MS68	50	1909910000
Further versions on request		

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
Further versions on request		

Blanking plugs – plastic – EEx e

VP M16-EXE SW



Ordering data

Type	Qty.	Order No.
VP M16-EXE SW	100	1737070000
Further versions on request		

Compensating elements – plastic – DAE

DAE M12 PA short



Ordering data

Type	Qty.	Order No.
DAE M12 PA SHORT	10	1868560000
Further versions 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.

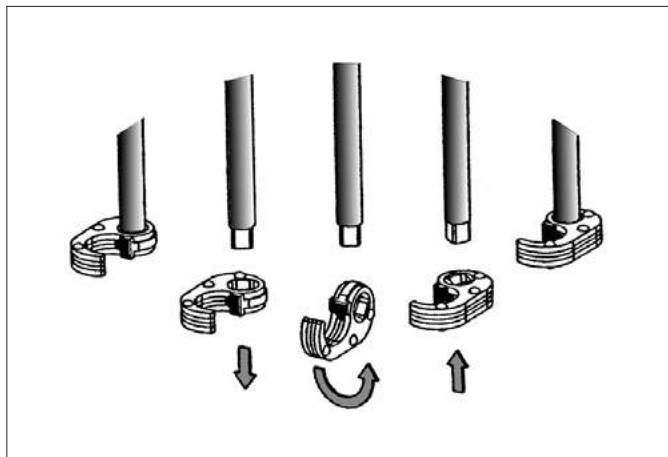


The Screwty® can also be used to screw on M23 connectors.



The tool does not have to be re-applied. During the follow-up it simply slips back.

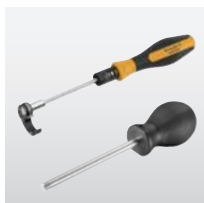
M



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



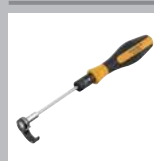
Sheathing and insulation stripping tools

- 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



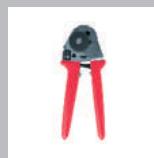
Cutting tools



Sheathing and insulation stripping tools



Stripping and cutting tools



SAI M23 crimping tool



Marking systems

Screwty® for M8/M12/M23



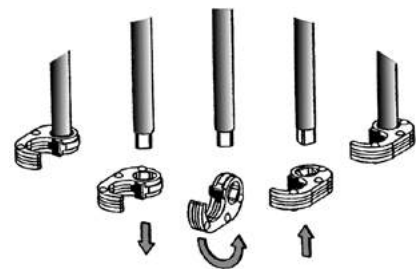
The Torque Screwty®

- 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			
Type	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

Fitting		Qty.	Order No.
Type			
Screwty® Set-DM		1	1920000000
Fitting			
Type	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

A black plastic toolbox with a red handle and a clear lid, containing various tools including screwdrivers, a wrench, and a set of sockets.

- ## 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
Copper cable - solid, max.
Copper cable - stranded, max.
Copper cable - flexible, max.
Copper cable, max. diameter
Max. cutting performance, aluminium cable
Stranded aluminium cable, max (mm ²)
Stranded aluminium cable, max. diameter
Single-core aluminium cable, max.(mm ²)
Data / telephone / control cable
Data / telephone / control cable, max. Ø
Tool data
Depth / Width / Height
Weight
Note

Ordering data

Version
Note

KT 8



- max. 8 mm
- max. 16 mm²
- max. 16 mm²
- max. 16 mm²



KT8
16 mm ² / 6 AWG
16 mm ² / 6 AWG
16 mm ² / 6 AWG
8 mm
16 mm ² / 6 AWG
8 mm
16 mm ²
8 mm
30 / 185 / 65.5 mm
180 g
Tool closed

Type	Qty.	Order No.
KT 8	1	9002650000

KT 12



- max. 12 mm
- max. 16 mm²
- max. 25 mm²
- max. 35 mm²



KT12
16 mm ² / 6 AWG
25 mm ² / 3 AWG
35 mm ² / 2 AWG
12 mm
25 mm ² / 6 AWG
8 mm
25 mm ²
12 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

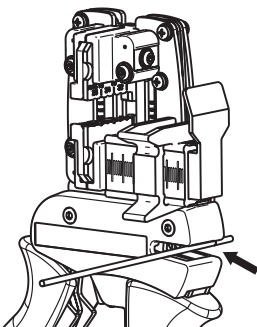
- Interchangeable stripping units
- Proper stripping of any conductor round, flat or special profiles, thanks to the specially shaped stripping blades
- Incorporates cutting function for up to 2.5 mm² solid and 6 mm² fine
- Fatigue free operation thanks to ergonomic design
- No damage to conductor or 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

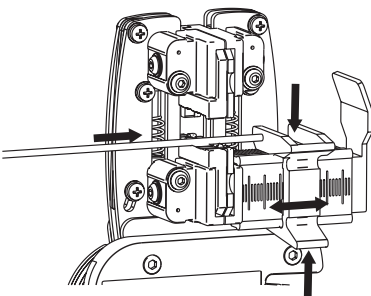
The multi-stripax® tool, distinguished by its robust design was developed, following customer feedback, to handle all the stripping tasks they have met with in practice. Thanks to the interchangeable stripping units, a special solution can be found for every challenge in the marketplace.

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.

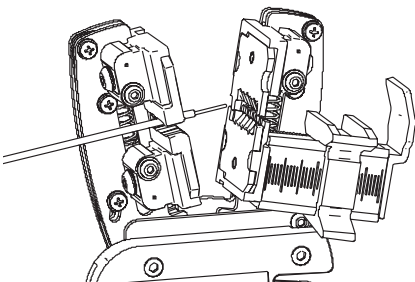
Cutting



Positioning



Stripping



multi-stripax®

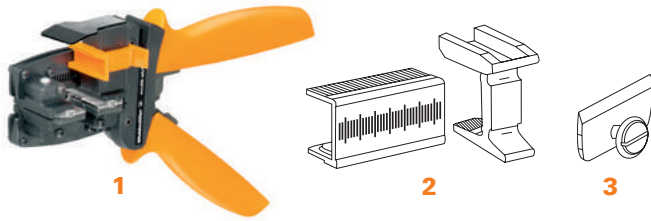
M



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 mm ² ; max. stripping lengths depends on cable design / cable type 1. station solid, stranded and flexible 6 mm ² 2. station solid, stranded and flexible 10 mm ² 3. station solid, stranded and flexible 16 mm ² double stranded (flexible) Cutting function up to 6 mm ²
1	multi-stripax® ASI	1	9202250000	ASI Bus cables 2 x 1.5 mm ² flexible for PTE, PUR and EPDM insulated cables Stripping of outer insulation and inner cable Cutting function up to 6 mm ²
1	multi-stripax® GKW LW	1	9205760000	Railway cable Radox GKW LW; Cable cross-section 1.0; 1.5 and 2.5 mm ² max. stripping lengths depends on cable design / cable type Cutting function up to 6 mm ²
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

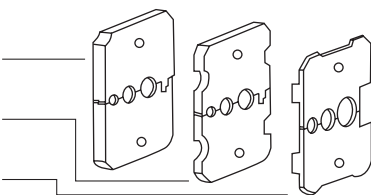
Short symbol KLBC SPX SP

Insulation stripping tool

Short symbol AIME SPX SP

Guide plate

Short symbol FUEPL SPX SP

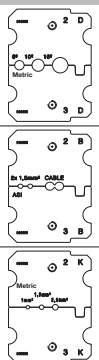


- Highly flexible thanks to interchangeable stripping units
- High quality stripping for industrial applications
- Specially shaped stripping blades enable stripping of special types of insulation and conductor configurations

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 mm ² ; max. stripping lengths depends on cable design / cable type 1. station solid, stranded and flexible 6 mm ² 2. station solid, stranded and flexible 10 mm ² 3. station solid, stranded and flexible 16 mm ² double stranded (flexible)
AIE multi-stripax® ASI	1	9202300000	ASI Bus cables 2 x 1.5 mm ² 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 mm ² 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.



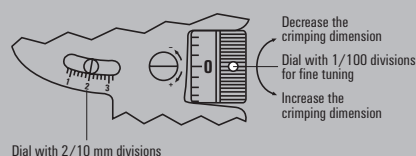
Adjusting the crimping dimensions

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



Technical data

Crimp contact	Wire cross-section (mm ²)	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 mm ²)	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 mm ²)	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 mm ²)	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 mm ²)	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		

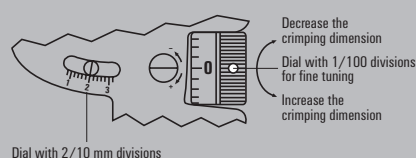
Adjusting the crimping dimensions

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



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.

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							



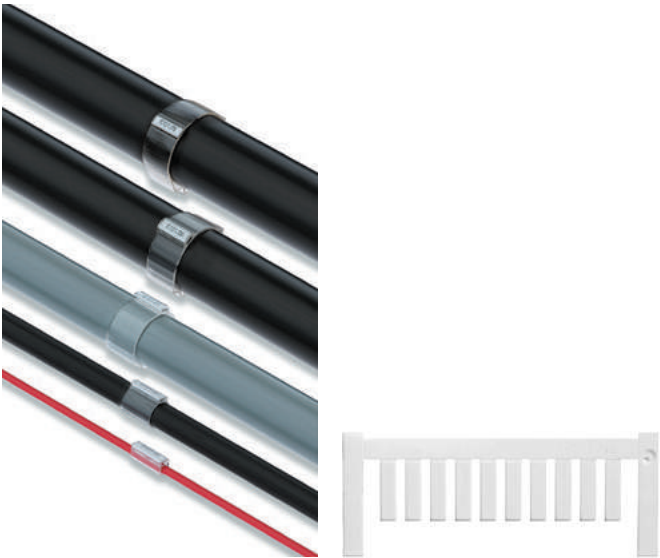
Marker tags for sensor cables

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-I 18. Cables open at one end have one sleeve, connecting cables have two marker sleeves. The TM-I 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-I 18 NEUTRAL WS	white	1718431044
TM-I 18 NEUTRAL GE	yellow	1718431687
TM-I 18 MC SDR	SDR	1718440000
SDR: Please send M-Print PRO file		



Marker tags for distributors

Marker tags can be affixed to distributors to ensure unique identification. For marking our standard M12 products, ESG 9/20 tags are used. M8 distributors can be labelled with WS 10/5 and DEK 5 markers. For labelling metal distributors, 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 distributors



DEK – Blank

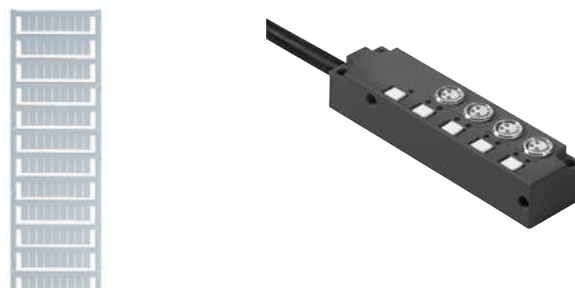
Type	Colour	Width/Length	Qty.	Order No.
DEK 5/5 MC	white	5 mm/5 mm	1000	1609801044

DEK – Custom printing

Type	Colour	Width/Length	Qty.	Order No.
DEK 5/5 MC	white	5 mm/5 mm	200	1609810000

SDR: Please send M-Print PRO file

WS for marking of M8 distributors



WS – Blank

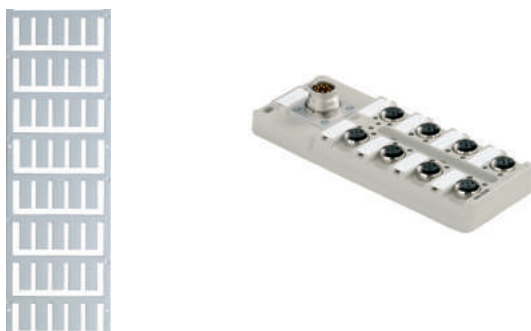
Type	Colour	Width/Length	Qty.	Order No.
WS 10/5 MC	white	5 mm/10 mm	720	1635000000
WS 15/5 MC	white	5 mm/15 mm	480	1609880000

WS – Custom printing

Type	Colour	Width/Length	Qty.	Order No.
WS 10/5 MC	white	5 mm/10 mm	144	1635010000
WS 15/5 MC	white	5 mm/15 mm	96	1609890000

SDR: Please send M-Print PRO file

ESG for marking of M12 distributors



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 distributors



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



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.

Technical data

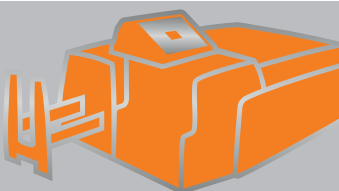
	Description	
Intended use	Printing Weidmüller MultiCards and MetalliCards	
Technology	Inkjet procedure with integrated thermal fixing unit	
Feed	Automatic magazine for max. 30 MultiCards Individual feed for MetalliCards and MultiCards	
Removal	Automatic dispenser magazine for up to 50 MultiCards	
Fuses	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 • Mains cable • LAN cable • USB cable • WIFI stick • one MultiCard DEK 5/5 • DVD with M-Print® PRO software • Quick start guide • Operating manual • Ink set PJ CON INK SET • 2 PrintJet cleaner cloths	
The ink cartridges are not installed in the printer.		



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	38 kg
Printing method	Ink jet technology
Printer driver / Operating system	Windows 7, Windows 8, Windows 8.1, Windows 10
Printing speed	Depends on printing quality
Print quality	300 dpi, 600 dpi, 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
	WiFi Stick	PJ CON WIFI STICK	1	2715680000
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

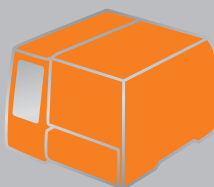
	Description
Intended use	Printing Weidmüller MultiMark, DEK, WS and MF strip marker, shrink tubes, label on rolls
Technology	Thermal transfer
Feed	Manuall mounting
Application site	Office conditions
Ambient temperature	5 °C to 40 °C
Included in delivery	• THM MultiMark • Power cable (Typ E+F/ UK/ USA) • 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	Our expertise for your requirements	V.2
	Engineering support and customised assembly	V.3
	Personal Support	V.4

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 can answer any questions reliably and expertly. Our online services are available 365 day a year around the clock to provide answers to your questions on our products – from user documentation through software to planning tools.

In short: Weidmüller's global service combines our expertise with your requirements.



Your way to our service
www.weidmueller.com/service

Engineering support and customised assembly

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

Alongside our product offering, we support you with our range of services through all the phases of machine construction. The result of this collaboration is a reduction of up to 30% in cycle times, up to 20% more space in the control cabinet and significant fault reduction. Our experienced Connectivity Consulting team delivers a practical impetus rather than just abstract theories.



Fitted mounting rails

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.



Processed and assembled enclosures

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.

Personal support

Exactly the right help and information on our solutions and products



If our products are used in your automation technology applications, you need the best possible individual support, from planning through installation to operation. For every stage of your application, we can offer the right tools and information for our products and solutions. Up-to-date, uncomplicated, comprehensive and around the clock via our service portal at www.weidmueller.com/support.

V



Your way to your local personal support
www.weidmueller.com/support



Technical downloads

All information, such as technical data, manuals, certificates and much more for the appropriate use of our products and solutions in your application.



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 software

Our software makes using and configuration of our products easier for you when it comes to operation, configuration and monitoring.



Approvals, certificates & declaration of conformity

We supply product- or company-related approvals and certificates for your documentation.



Security advisory board

Our Product Security Incident Response Team (PSIRT) continuously informs you about possible security-related vulnerabilities of our products.

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

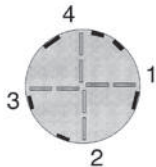
Material data			M8	M12
Insulating material	- Housing		PBT (UL 94 V0)	PBT (UL 94 V0)
	- Contact carrier		PBT (UL 94 V0)	PBT (UL 94 V0)
Base material	- Contact		CuSn6	CuSn6
	- Screw socket		CuZn, nickel-plated	CuZn, nickel-plated
Temperature range		°C	-20...+90	-20...+90
Colour	- Housing		grey, RAL 7032	grey, RAL 7032
	- PG & contact carrier		black	black
Cable sheathing			PUR	PUR
Cable type			halogen-free	halogen-free, UL
O-ring			Viton	Viton
Housing seal				foamed PUR
Type of connection, hood version			screw/tension clamp	screw/tension clamp
Clamping range		mm²	0.08...1.0	0.08...1.5
AWG No.			28...18	22...14
Stripping length, hood version		mm	100	100
Stripping length, screw version		mm	-	7
Stripping length, tension clamp version		mm	7	10
Contact surface			tin	tin
- BL3.5 / B2L				
Contact base material			Cu alloy	Cu alloy
- BL3.5 / B2L				
Torques		Nm		
- Hoods			0.8	0.8
- Blanking plugs		Nm	0.5	0.5
Mechanical data				
Ingress Protection Class*		IP	68 (M16/M23 IP 67)	68
Suitability for cable carrier		cycles at 15d	1 Mio. 15d	2 Mio. 10d
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-	10 ... 30	10 ... 30
Max. current carrying capacity per I/O signal		A	2 (Derating)	2 (Derating)
- total with single supply		A	8	10 (9 A for F-version)
- 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			3	3
Insulation resistance		Ω	> 10 ⁹	> 10 ⁹
Other data				
Dimensions		see chapter G		
Fixing holes		see chapter G		
Function indicators				
- for operating voltage			1 x LED, green	2 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	M20
Max. cable diameter (SAI-...-M)		mm	10-14	6-12
* only when plugged in and secured				

**Technical data**

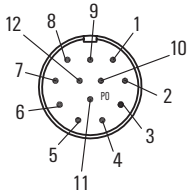
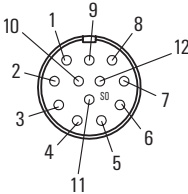
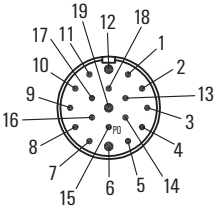
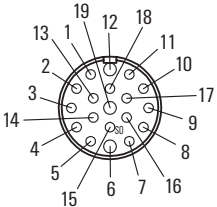
Material data			IDC	M12 Push-Pull
Insulating material	- Housing		PBT (UL 94 V0)	PA 6 GF
	- Contact carrier		PBT (UL 94 V0)	PBT (UL 94 V0)
Base material	- Contact		CuZn, pre-nickel- & gold-plated	CuSn6
	- Screw socket		CuZn, nickel-plated	CuZn, nickel-plated
Temperature range		°C	-20 ... +90	-25 ... +80
Colour	- Housing		grey, RAL 7032	grey, RAL 7032
	- PG & contact carrier		black	black
Cable sheathing			PUR	PUR
Cable type			PUR/PVC	halogen-free, UL
O-ring			Viton	Viton
Housing seal			foamed PUR	foamed PUR
Type of connection, hood version			screw/tension clamp	tension clamp
Clamping range		mm ²	0.08 ... 1.5	0.08 ... 1.5
AWG No.			22 ... 14	22 ... 14
Stripping length, hood version		mm	100	100
Stripping length, screw version		mm	7	7
Stripping length, tension clamp version		mm	10	10
Contact surface			tin	tin
	- BL3.5 / B2L			
Contact base material			Cu alloy	Cu alloy
	- BL3.5 / B2L			
Torques				
- Hoods		Nm	0.8	0.8
- Blanking plugs		Nm	0.5	
Mechanical data				
Ingress Protection Class*		IP	67	68
Suitability for cable carrier		cycles at 15d	1 Mio. 15d	2 Mio. 10d
IDC connection				
Max. connect. frequency of a cable with same cross-section			10	
Stripping length		mm	15 ... 20	
Conductor cross-section (flexible)		mm ²	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	
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	M20
Max. cable diameter (SAI-...-M)		mm	6 - 12	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

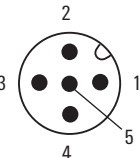
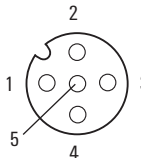
12-pole:	Pole	Colour code	Plug-in station	Contact M12
 Male	1	white	1	4
	2	green	2	4
	3	yellow	3	4
	4	grey	4	4
	5	pink	5	4
	6	red	6	4
	7	black	7	4
	8	violet	8	4
	9	blue (-)	1- 8	3
	10	blue (-)	1- 8	3
	11	brown (+)	1- 8	1
	12	green-yellow (PE)	1- 8	5
 Female				
19-pole:	Pole	Colour code	Plug-in station	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

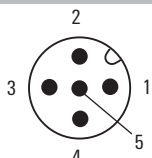
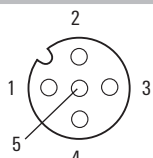
Round connectors are used for wiring sensors, actuators and data cables. To prevent wiring errors, there are different coding systems: for M12, the plug-in connectors are coded A, B and D. The M12 A-coded plug-in connector is available with 3 to 5 pins, 8 and 12 pins. There is no coding for M8 and M5.

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.

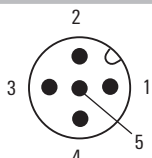
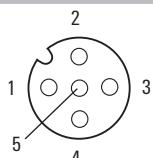
A-coded, M12, Sensor wiring

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

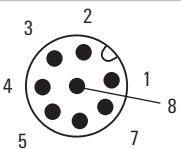
4-pole:

Male

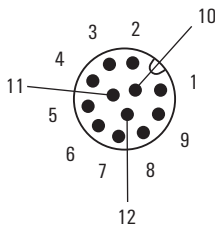
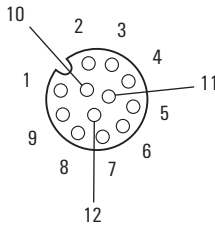
Female

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

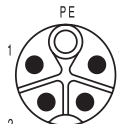
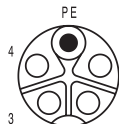
M12

8-pole:		Pole	Colour code	Assignment
 Male	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	

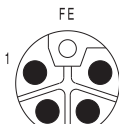
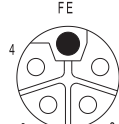
M12

12-pole:		Pole	Colour code	Assignment
 Male	 Female	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
			red/blue	signal

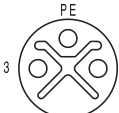
K-coded, M12

5-pole:		Pin	Colour code	Assignment	
		1	black 1		
		2	black 2		
		3	black 3		
		4	black 4		
		5	green/yellow		
Male					
Female					

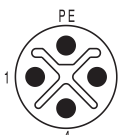
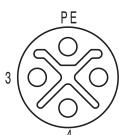
L-coded, M12

5-pole:		Pin	Colour code	Assignment	
		1	brown		
		2	white		
		3	blue		
		4	black		
		5	pink		
Male					
Female					

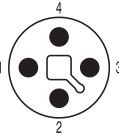
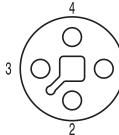
S-coded, M12

3-pole:		Pole	Colour code	Assignment
		1	brown	
		2	green/yellow	
		3	blue	
Male				
Female				

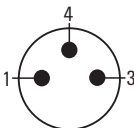
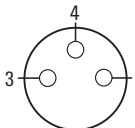
S-coded, M12

4-pole:		Pole	Colour code	Assignment	
		1	brown		
		2	black		
		3	grey		
		4	green/yellow		
Male					
Female					

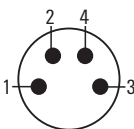
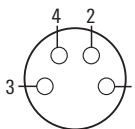
T-coded, M12

4-pole:		Pin	Colour code	Assignment		
		1	brown			
		2	white			
		3	blue			
		4	black			
		Male				
		Female				

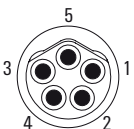
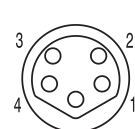
M8 connector position

3-pole:		Pin	Colour code	Assignment
		1	brown	+ 24 V DC
		3	blue	0 V DC
		4	black	input/output 1
Male		Female		

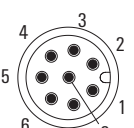
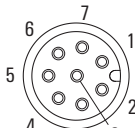
M8 connector position

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

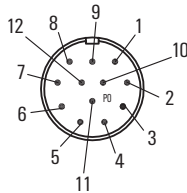
5-pole:		Pin	Colour code	Assignment
		1		
		2		
		3		
		4		
		5		
Male	Female			

M8

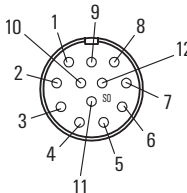
8-pole:		Pin	Colour code	Assignment
		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
Male	Female			

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:

19-pole:

19-pole:

19-pole:

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Sensor Actuator Interface Passive – Connection plan

Connection plan

Terminal	Connector position	M5/M8-contact		M12-	IDC-contact		Potential	Conductor colour	Colour code
Connection No.		3-pole	4-pole	contact	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									

* Contact used in 5-pole version only

Plug insert, hood version

Note:

SAI distributors with fixed cable have a single supply conductor as standard. The voltage U1 is supplied to all the sockets. An SAI distributor with fixed cable but with separate supply voltage is available on request.

Pin assignment



Tension clamp connection



Screw connection



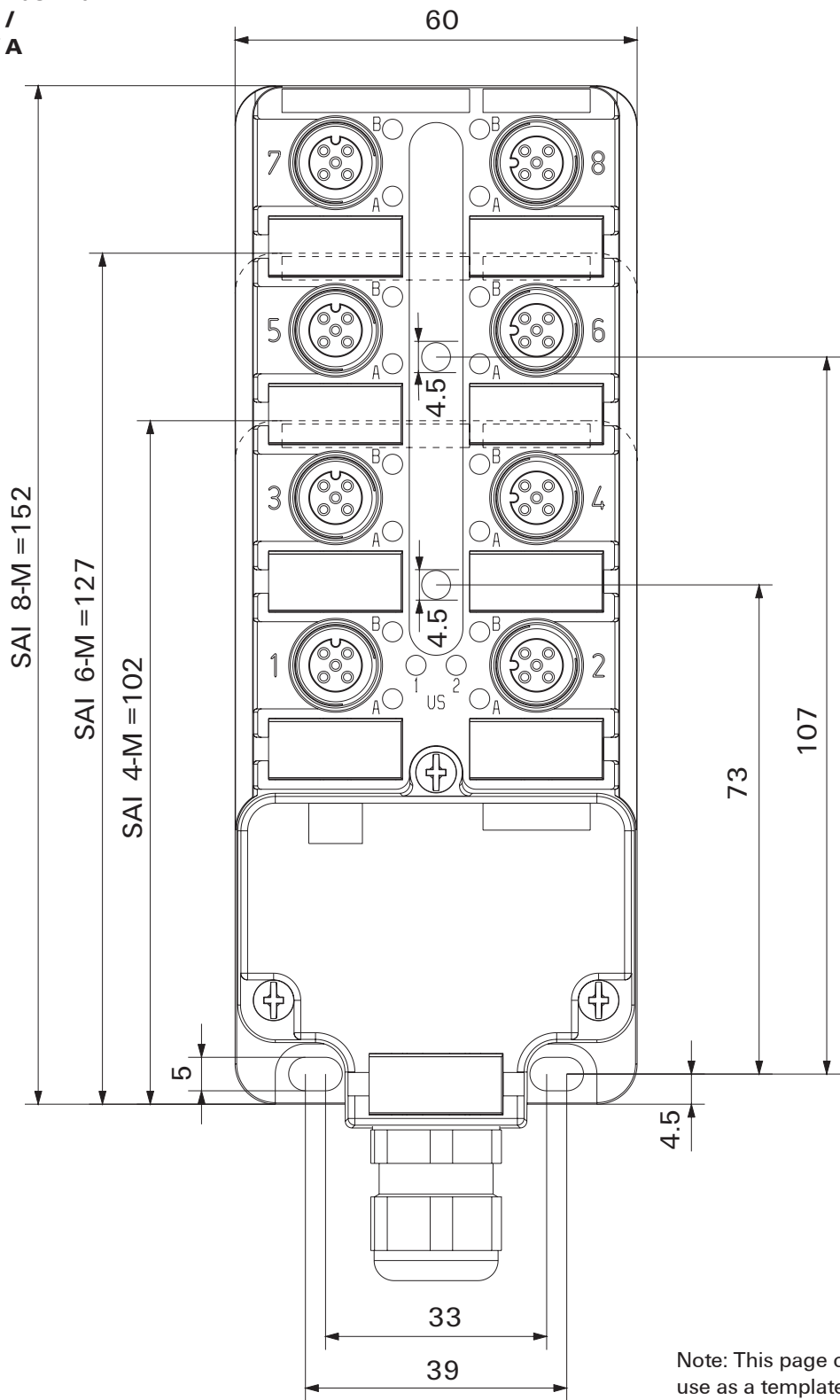
Cable overview

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								

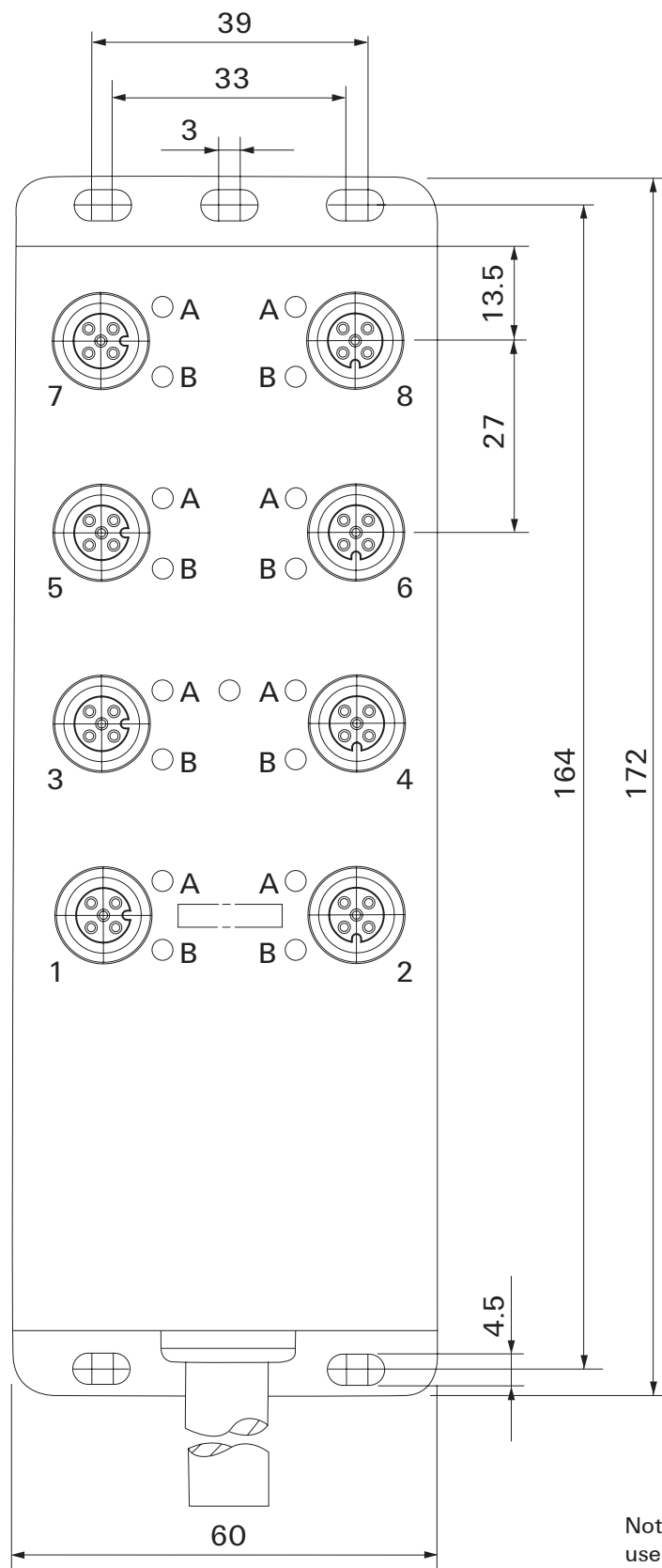
	Outer cladding	Suitable for dragline cable carriers	Bending radius in cable $\varnothing$		Temperature range in °C		External- $\varnothing$ in mm	Halogen-free	UL
			Rigid	Moving	Rigid	Moving			
	PVC	No	5x	10x	-30 / +80	-5 / +80	approx 4.5	No	Yes
	PVC	No	5x	10x	-30 / +80	-5 / +80	approx 4.8	No	Yes
	PUR	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**

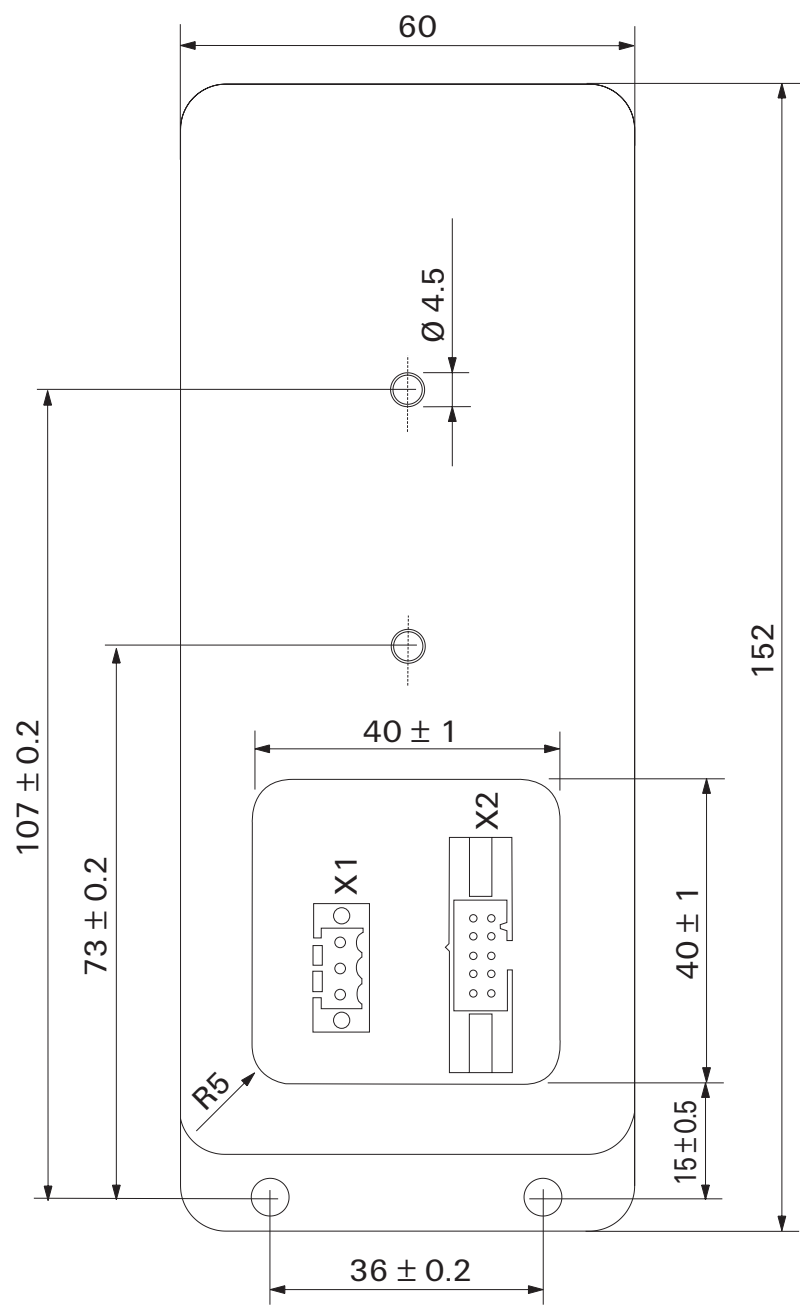


SAI stainless steel



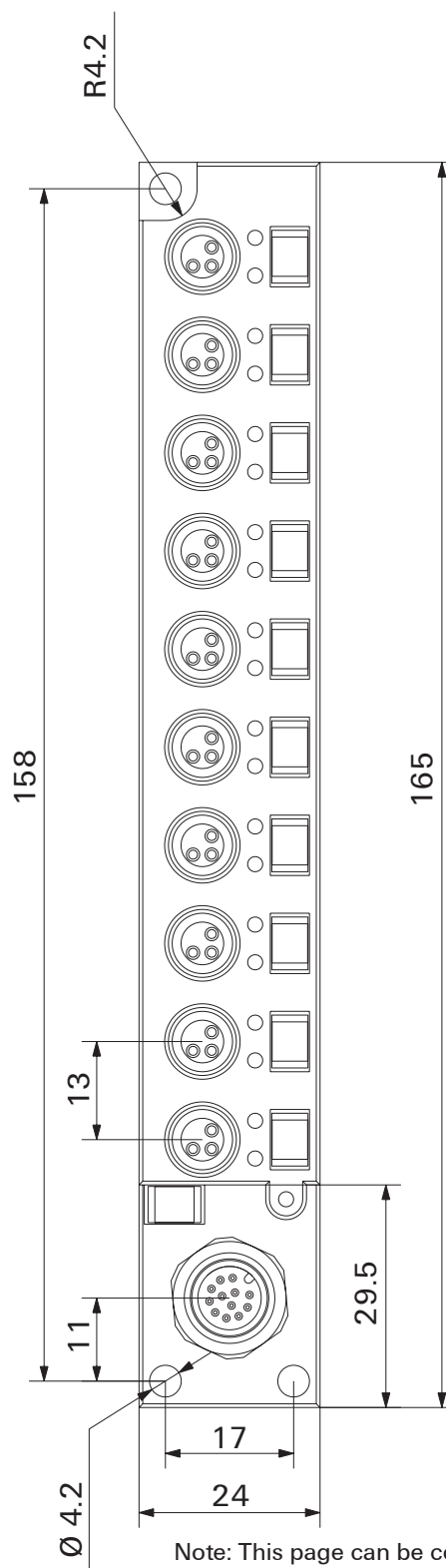
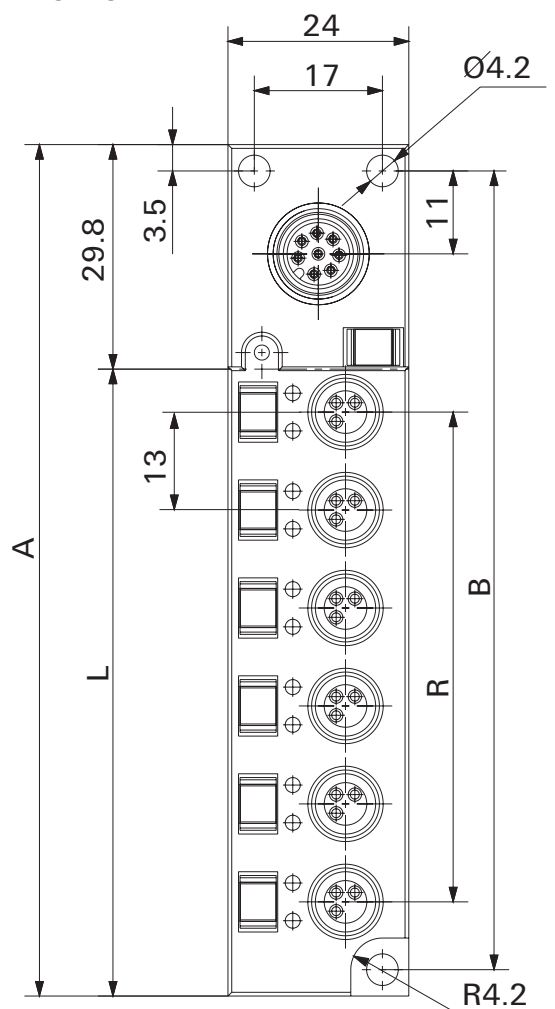
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SAI wall bushing



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SAI M8 line



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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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A		
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AIE MULTI-STRIPAX ASI	9202300000	M.11
AIE MULTI-STRIPAX GKWLW	9205770000	M.11
AM 12	9030060000	B.69
AM 12	9030060000	B.70
AM 12	9030060000	B.71
AM 12	9030060000	B.72
AM 12	9030060000	B.73
AM 12	9030060000	B.74
AM 12	9030060000	B.75
AM 12	9030060000	B.76
AM 12	9030060000	B.77
AM 12	9030060000	B.78
AM 12	9030060000	B.79
AM 12	9030060000	B.80
AM 12	9030060000	L.65
AM 12	9030060000	L.69
AM 12	9030060000	M.8

B		
BL 3.50/07/180 SN OR BX	1597410000	E.37

C		
CAN SUB-D M12 180 TERM	1555290000	L.60
CAN SUB-D M12 TERM	1555270000	L.57
CAN SUB-D M12 TERM PS	1555280000	L.57
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FBC PA M12 M 1M	1785120100	L.24
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FBC PA M12 M-FM 1M	1785100100	L.24
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FBCEX PA M12 MA 1M	1076580100	L.24
FBCEX PA M12 MA-FM 1M	1075450100	L.25
FBCEX PA M12 MA-FMA 1M	1075410100	L.25
FBCEX PA M12 M-FM 1M	1785130100	L.25
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FBCON DP M12 TERM 5V	8564320000	L.20
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FBCON M12 4P FM EMC	8426220000	L.27
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FBCON M12 4P M EMC	9456640000	C.5
FBCON M12 4P M EMC	9456640000	L.27
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FBCON PA CG 1WAY EX	8564180000	L.44
FBCON PA CG 1WAY LIMITER	8714200000	L.37
FBCON PA CG 2WAY	8564100000	L.33
FBCON PA CG 2WAY EX	8564190000	L.45
FBCON PA CG 2WAY LIMITER	8714210000	L.38
FBCON PA CG 4WAY	8564110000	L.34
FBCON PA CG 4WAY EX	8564200000	L.46
FBCON PA CG 4WAY LIMITER	8714220000	L.39
FBCON PA CG 8WAY	8564300000	L.35

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FBCON PA CG 8WAY LIMITER	8714230000	L.40
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FBCON PA CG/M12 1WAY EX	8564150000	L.44
FBCON PA CG/M12 1WAY LIMITER	8714160000	L.37
FBCON PA CG/M12 2WAY	8564070000	L.33
FBCON PA CG/M12 2WAY EX	8564160000	L.45
FBCON PA CG/M12 2WAY LIMITER	8714170000	L.38
FBCON PA CG/M12 4WAY	8564080000	L.34
FBCON PA CG/M12 4WAY EX	8564170000	L.46
FBCON PA CG/M12 4WAY LIMITER	8714180000	L.39
FBCON PA CG/M12 8WAY	8564310000	L.35
FBCON PA CG/M12 8WAY EX	8564250000	L.47
FBCON PA CG/M12 8WAY LIMITER	8714190000	L.40
FBCON SS CG 1WAY	8703430000	L.32
FBCON SS CG 4WAY	8703450000	L.34
FBCON SS CG 8WAY	8703470000	L.35
FBCON SS DP PCG 1WAY	8714260000	L.19
FBCON SS DP PCG TERM 24V	8714240000	L.20
FBCON SS PCG 1WAY	8613670000	L.32
FBCON SS PCG 1WAY LIMITER	8726110000	L.37
FBCON SS PCG 4WAY	8613680000	L.34
FBCON SS PCG 4WAY LIMITER	8715260000	L.39
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FBCON TERM.D EX FM	8556460000	L.48
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IE-C50B4RE0015MCSMCA-E	1059940015	L.70
IE-C50B4RE0015MCSMCS-E	1010850015	L.68
IE-C50B4RE0015MCSXXX-X	1010840015	L.69
IE-C50B4RE0015MSSMCS-E	1059340015	L.68
IE-C50B4RE0030MCAMCA-E	1059970030	L.70
IE-C50B4RE0030MCAXXX-X	1059900030	L.71
IE-C50B4RE0030MCSMCA-E	1059940030	L.70
IE-C50B4RE0030MCSMCS-E	1010850030	L.68
IE-C50B4RE0030MCSXXX-X	1010840030	L.69
IE-C50B4RE0030MSSMCS-E	1059340030	L.68
IE-C50B4RE0050MCAMCA-E	1059970050	L.70
IE-C50B4RE0050MCAXXX-X	1059900050	L.71
IE-C50B4RE0050MCSMCA-E	1059940050	L.70
IE-C50B4RE0050MCSMCS-E	1010850050	L.68
IE-C50B4RE0050MCSXXX-X	1010840050	L.69
IE-C50B4RE0050MSSMCS-E	1059340050	L.68
IE-C50B4RE0100MCAMCA-E	1059970100	L.70
IE-C50B4RE0100MCAXXX-X	1059900100	L.71
IE-C50B4RE0100MCSMCA-E	1059940100	L.70
IE-C50B4RE0100MCSMCS-E	1010850100	L.68
IE-C50B4RE0100MCSXXX-X	1010840100	L.69
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IE-C50D4UG0015MCAMCA-E	1059890015	L.66
IE-C50D4UG0015MCAXXX-X	1059750015	L.67
IE-C50D4UG0015MCSA20-E	1044470015	L.65
IE-C50D4UG0015MCSMCA-E	1059770015	L.66
IE-C50D4UG0015MCSMCS-E	1025950015	L.64
IE-C50D4UG0030MCAMCA-E	1059750030	L.67
IE-C50D4UG0030MCSA20-E	1044470030	L.65
IE-C50D4UG0030MCSMCA-E	1059770030	L.66
IE-C50D4UG0030MCSMCS-E	1025950030	L.64
IE-C50D4UG0030MCSXXX-X	1025940030	L.65
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IE-C50D4UG0050MCAMCA-E	1059890050	L.66
IE-C50D4UG0050MCAXXX-X	1059750050	L.67
IE-C50D4UG0050MCSA20-E	1044470050	L.65
IE-C50D4UG0050MCSMCA-E	1059770050	L.66
IE-C50D4UG0050MCSMCS-E	1025950050	L.64
IE-C50D4UG0050MCSXXX-X	1025940050	L.65
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IE-C50D4UG0100MCAXXX-X	1059750100	L.67
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SAID-M12B-8S-9SMT	2422840000	I.5
SAID-M12B-8S-9SMT-TR	2422870000	I.40
SAID-M12B-5S-9SMT	2422900000	I.41
SAID-M12B-5S-9SMT	2422900000	I.5
SAID-M12B-5S-9SMT-TR	2422930000	I.42
SAID-M12B-4S-9SMT	2422960000	I.41
SAID-M12B-4S-9SMT	2422960000	I.5
SAID-M12B-4S-9SMT-TR	2422990000	I.42
SAID-M12B-1S-5MT	2530820000	D.26
SAID-M12S-4-9SMT	2422540000	I.39
SAID-M12S-4-9SMT	2422540000	I.5
SAID-M12S-4-9SMT-TR	2422570000	I.40
SAID-M12S-4S-9SMT	2423500000	I.39
SAID-M12S-4S-9SMT	2423500000	I.5
SAID-M12S-4S-9SMT-TR	2423530000	I.40
SAID-M12S-5-9SMT	2422600000	I.39
SAID-M12S-5-9SMT	2422600000	I.5
SAID-M12S-5-9SMT-TR	2422630000	I.40

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SAID-M12S-5S-9SMT-TR	2423590000	I.40
SAID-M12S-8-9SMT	2422420000	I.39
SAID-M12S-8-9SMT	2422420000	I.5
SAID-M12S-8-9SMT-TR	2422450000	I.40
SAID-M12S-8S-9SMT	2423620000	I.39
SAID-M12S-8S-9SMT	2423620000	I.5
SAID-M12S-8S-9SMT-TR	2423650000	I.40
SAID-M12S-4S-9SMT	2422720000	I.41
SAID-M12S-4S-9SMT	2422720000	I.5
SAID-M12S-4S-9SMT-TR	2422750000	I.42
SAID-M12S-5S-9SMT	2422780000	I.41
SAID-M12S-5S-9SMT	2422780000	I.5
SAID-M12S-5S-9SMT-TR	2422810000	I.42
SAID-M12S-1S-5MT	2530810000	D.26
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SAID-M8B-3S-SMT	2421780000	I.17
SAID-M8B-3S-SMT	2421780000	I.4
SAID-M8B-3S-THR	2423820000	I.13
SAID-M8B-3-THR	2423760000	I.13
SAID-M8B-4-SMT	2421840000	I.17
SAID-M8B-4-SMT	2421840000	I.4
SAID-M8B-4S-SMT	2421900000	I.17
SAID-M8B-4S-SMT	2421900000	I.4
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SAID-M8B-5S-SMT	2422020000	I.4
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SAID-M8B-5-THR	2424000000	I.13
SAID-M8B-8-SMT	2422080000	I.17
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SAID-M8S-3-SMT	2421750000	I.17
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SAID-M8S-3S-SMT	2421810000	I.17
SAID-M8S-3S-SMT	2421810000	I.4
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SAIE-7/8B-4-0.2U-PG13.5	1292440000	J.10
SAIE-7/8B-5-0.2U-H	1292520000	J.8
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SAIE-7/8S-4-0.2U-PG11	1292400000	J.9
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SAIE-KMM12X1-SW14	2424570000	I.4
SAIE-KMM14X1-SW15	2424010000	I.4
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SAIE-M12B-12-0.5U-FP-M16	1289140000	C.47
SAIE-M12B-12S-TL-HW-PG9	1467810000	C.54
SAIE-M12B-3+PE-S-0.2U-M16	1467940000	D.23
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SAIE-M12B-4D-H12TL-M16	2422280000	I.24
SAIE-M12B-4D-H5.5TL-M16	2422430000	I.24
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SAIE-M12B-4-F5.5TL	2422940000	I.27
SAIE-M12B-4-H10TL	2422700000	I.28
SAIE-M12B-4-H12TL-M16	2421660000	I.22
SAIE-M12B-4-H12TL-PG9	2421950000	I.23
SAIE-M12B-4-H5.5TL	2423180000	I.27
SAIE-M12B-4-H5.5TL-M16	2421600000	I.22
SAIE-M12B-4-H5.5TL-PG9	2421920000	I.23
SAIE-M12B-4S-13/14SMT	2423110000	I.37
SAIE-M12B-4S-9SMT	2422360000	I.37
SAIE-M12B-4S-F10TL	2422490000	I.33
SAIE-M12B-4S-F5.5TL	2422970000	I.32
SAIE-M12B-4S-H10TL	2422730000	I.33
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SAIE-M12B-4S-H6.75TL	2421880000	I.26
SAIE-M12B-4S-TL-HW-PG9	1467770000	C.54
SAIE-M12B-4-T-0.2U-M16	1467960000	D.23
SAIE-M12B-4-T-0.5U-M16	1460330000	D.23
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SAIE-M12B-5-0.5U-M16	1836910000	C.47
SAIE-M12B-5-0.5U-PG9	1814890000	C.48
SAIE-M12B-5-13/14SMT	2423050000	I.36
SAIE-M12B-5-9SMT	2422330000	I.36
SAIE-M12B-5-F10TL	2422520000	I.28
SAIE-M12B-5-F5.5TL	2423000000	I.27
SAIE-M12B-5-H10TL	2422760000	I.28
SAIE-M12B-5-H12TL-M16	2421680000	I.22
SAIE-M12B-5-H12TL-PG9	2422010000	I.23
SAIE-M12B-5-H5.5TL	2423240000	I.27
SAIE-M12B-5-H5.5TL-M16	2421620000	I.22
SAIE-M12B-5-H5.5TL-PG9	2421980000	I.23
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SAIE-M12B-5S-H10TL	2422790000	I.33
SAIE-M12B-5S-H5.5TL	2423270000	I.32
SAIE-M12B-5S-H6.75TL	2421910000	I.26
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SAIE-M12B-8-0.5U-FP-M16	1861210000	C.47
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SAIE-M12B-8-H10TL	2421820000	I.28
SAIE-M12B-8-H12TL-M16	2421710000	I.22
SAIE-M12B-8-H12TL-PG9	2422070000	I.23
SAIE-M12B-8-H5.5TL-M16	2421640000	I.22
SAIE-M12B-8-H5.5TL-PG9	2422040000	I.23
SAIE-M12B-8S-0.5U HW	1223650050	C.52
SAIE-M12B-8S-13/14SMT	2423170000	I.37
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SAIE-M12B-8S-TL-HW-PG9	1467790000	C.54
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SAIE-M12BB-4S-H6.75TL	2421970000	I.26
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SAIE-M12BB-5S-9/14SMT	2423710000	I.38
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SAIE-M12BD-4-H10TL	2424170000	I.34
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SAIE-M12BL-0.3VFM16-1.5	2530780000	D.24
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SAIE-M12BL-0.3VHM16-1.5	2625940000	D.24
SAIE-M12BL-0.3VHM16-2.5	2625870000	D.24
SAIE-M12BL-5S-F12TL-M16	2530890000	D.25
SAIE-M12BL-5S-H11TL-M16	2530910000	D.25
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SAIE-MBB-4.0.5U-FP-M8	1856140000	C.50
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SAIE-MBB-4S-F13SMT	2422440000	1.12
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SAIE-MBB-4S-F9SMT	2422410000	1.16
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SAIE-MBS-3-F9SMT	2422260000	1.14
SAIE-MBS-3-F9THR	2422860000	1.10
SAIE-MBS-3-H5.5TL	2421570000	1.6
SAIE-MBS-3SF13SMT	2422350000	1.16
SAIE-MBS-3SF13THR	2422950000	1.12
SAIE-MBS-3SF13TL	2423460000	1.8
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SAIE-MBS-3SF9THR	2422920000	1.16
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SAIE-MBS-4-H6THR	2423130000	1.11
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SAIEW-M12S-4S-FTL	2423810000	1.30
SAIEW-M12S-4S-HTL	2423690000	1.30
SAIEW-M12S-4S-FLT-HW-PG9	1467750000	1.34
SAIEW-M12S-5-FTL	2423840000	1.29
SAIEW-M12S-5-HTL	2423720000	1.29
SAIEW-M12S-5S-FTL	2423870000	1.30
SAIEW-M12S-5S-HTL	2423750000	1.30
SAIEW-M12S-5S-FLT-HW-PG9	1467760000	1.34
SAIEW-M12SB-4-FTL	2424320000	1.31
SAIEW-M12SB-4-HTL	2424350000	1.31
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SAIEW-M8B-4S-H12TL	2424390000	1.19
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SAIEW-M8S-3S-H8TL	2424300000	1.19
SAIEW-M8S-4S-H12TL	2424450000	1.19
SAIEW-M8S-4S-H8TL	2424420000	1.19
SAIFG-M12B-L-F12-M16	2530840000	0.26
SAIFG-M12B-L-H11-M16	2530870000	0.26
SAIFG-M12S-L-F12-M16	2530830000	0.26
SAIFG-M12S-L-H11-M16	2530850000	0.26
SAIFG-M14X1-B-1	2423920000	1.45
SAIFG-M14X1-B-1	2423920000	1.45
SAIFG-M14X1-B-2	2423950000	1.45
SAIFG-M14X1-B-2	2423950000	1.45
SAIFG-M14X1-S-1	2423980000	1.44
SAIFG-M14X1-S-1	2423980000	1.44
SAIFG-M8B-M10-13	2424460000	1.18
SAIFG-M8B-M10-13	2424460000	1.18
SAIFG-M8B-M10-9	2424430000	1.18
SAIFG-M8B-M10-9	2424430000	1.18
SAIFG-M8S-M10-13	2424530000	1.19
SAIFG-M8S-M10-13	2424530000	1.19
SAIFG-M8S-M10-9	2424520000	1.19
SAIFG-M8S-M10-9	2424520000	1.19
SAIH3-M12K	2616480000	0.28
SAIH3-M12L	2616470000	0.28
SAIH3-M12S	2616410000	0.27
SAIH3-M12T	2616420000	0.27
SAIH-3X0, 25(PUR)	1902140000	0.69
SAIH-3X0, 25(PVC)	1902190000	0.72
SAIH-3X0, 34(PUR)	1902110000	0.70
SAIH-3X0, 34(PVC)	1902160000	0.73
SAIH-3X0, 34(PUR)GE	1345520000	0.75
SAIH-3X0, 34-S(PUR)	1357320000	0.77
SAIH-H4-M12-K	2616460000	0.28
SAIH-H4-M12L	2616450000	0.28
SAIH-H4-M12-S	2616350000	0.27
SAIH-H4-M12-T	2439350000	0.27
SAIH-4X0, 25(PUR)	1902120000	0.69
SAIH-4X0, 25(PVC)	1902170000	0.72
SAIH-4X0, 34(PUR)	1902130000	0.70
SAIH-4X0, 34(PVC)	1902180000	0.73
SAIH-4X0, 34(PUR)GE	1345530000	0.75
SAIH-4X0, 34-S(PUR)	1357330000	0.77
SAIH-5X0, 34(PUR)	1022960000	0.71
SAIH-5X0, 34(PUR)GE	1345540000	0.76
SAIH-5X0, 34(PVC)	1412620000	0.74
SAIH-5X0, 34-S(PUR)	1357340000	0.78
SAIH-CD-2X0, 34/2X0, 22-PUR	1058630000	1.55
SAIHG-M8B-M12-10	2424500000	1.20
SAIHG-M8B-M12-10	2424500000	1.20
SAIHG-M8B-M12-6	2424480000	1.20
SAIHG-M8B-M12-6	2424480000	1.20
SAIHG-M8S-M12-10	2424550000	1.21
SAIHG-M8S-M12-10	2424550000	1.21
SAIHG-M8S-M12-6	2424540000	1.21
SAIHG-M8S-M12-6	2424540000	1.21
SAIH-PB-2XAWG24(PUR)	1232620000	1.7
SAIH-PB-PA-2X1, 0(PVC)	1232640000	1.26
SAIH-PB-PA-2X1, 0-PVC-BL	1232630000	1.26
SAIH-SLL-3X0, 75-BX0, 34-100	2764930000	0.79
SAIH-SLL-3X0, 75-BX0, 34-500	2764940000	0.79
SAIH-SLL-3X0, 75-16X0, 34-100	2764950000	0.79
SAIH-SLL-3X0, 75-16X0, 34-500	2764960000	0.79
SAIH-SLL-3X1, 0-16X0, 5-100	2764890000	0.80
SAIH-SLL-3X1, 0-16X0, 5-500	2764900000	0.80
SAIH-SLL-5X0, 75-16X0, 34-100	2764870000	0.80
SAIH-SLL-5X0, 75-16X0, 34-500	2764880000	0.8

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SAIL-7/8W-3-1.5U	1292090150	J.13
SAIL-7/8W-4-1.5U	1292130150	J.13
SAIL-7/8W-5-1.5U	1292180150	J.13
SAIL-M12BG-12-1.5U	1879710150	B.14
SAIL-M12BG-12S1.5U	1424270150	B.15
SAIL-M12BG-3-1.5T	1986890150	B.11
SAIL-M12BG-3-1.5U	9457820150	B.11
SAIL-M12BG-3-1.5U	9457820150	B.6
SAIL-M12BG-3-1.5UGE	1092910150	B.11
SAIL-M12BG-3-1.5V	1925570150	B.11
SAIL-M12BG-3-1.5V	1925570150	B.6
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	10557740150	B.47
SAIL-M12BG-3L1.5U	1292620150	B.16
SAIL-M12BG-3S1.5U	1867410150	B.11
SAIL-M12BG-4-1.5T	1968580150	B.18
SAIL-M12BG-4-1.5TV0	2812520150	B.51
SAIL-M12BG-4-1.5U	9457730150	B.11
SAIL-M12BG-4-1.5U	9457730150	B.6
SAIL-M12BG-4-1.5UGE	1092920150	B.11
SAIL-M12BG-4-1.5V	1925580150	B.11
SAIL-M12BG-4-1.5V	1925580150	B.6
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	10557750150	B.47
SAIL-M12BG-4S1.5U	1812540150	B.18
SAIL-M12BG-5-1.5T	1021670150	B.11
SAIL-M12BG-5-1.5TV0	2812640150	B.51
SAIL-M12BG-5-1.5TVV	2812750150	B.51
SAIL-M12BG-5-1.5U	9457910150	B.11
SAIL-M12BG-5-1.5U	9457910150	B.7
SAIL-M12BG-5-1.5UGE	1092930150	B.11
SAIL-M12BG-5-1.5V	1925590150	B.11
SAIL-M12BG-5-1.5V	1925590150	B.7
SAIL-M12BG-5-10U	9457911000	B.7
SAIL-M12BG-5-10V	1925591000	B.7
SAIL-M12BG-5-3.0U	9457910300	B.7
SAIL-M12BG-5-3.0V	1925590300	B.7
SAIL-M12BG-5-5.0U	9457910500	B.7
SAIL-M12BG-5-5.0V	1925590500	B.7
SAIL-M12BG-5B-1.5U	1061880150	B.17
SAIL-M12BG-5S1.5U	9456140150	B.48
SAIL-M12BG-6-1.5U	1865870150	B.14
SAIL-M12BG-6S1.5U	1890520150	B.15
SAIL-M12BG-6-USB-1.5U	1962800150	B.35
SAIL-M12BG-CD-1.5A	1964690150	L.52
SAIL-M12BG-CD-1.5B	1060120150	L.52
SAIL-M12BG-K-1.5P	2455150150	0.6
SAIL-M12BG-K-10P	2455151000	0.6
SAIL-M12BG-K-3.0P	2455150300	0.6
SAIL-M12BG-K-5.0P	2455150500	0.6
SAIL-M12BG-L-1.5PGR	2455330150	0.4
SAIL-M12BG-L-10PGR	2455331000	0.4
SAIL-M12BG-L-3.0PGR	2455330300	0.4
SAIL-M12BG-L-5.0PGR	2455330500	0.4
SAIL-M12BG-PB-1.5D	1873320150	L.4
SAIL-M12BG-S-1.5P	2050160150	0.8
SAIL-M12BG-S-10P	2050161000	0.8
SAIL-M12BG-S-3.0P	2050160300	0.8
SAIL-M12BG-S3-1.5P	2706670150	0.8
SAIL-M12BG-S3-10P	2706671000	0.8
SAIL-M12BG-S3-3.0P	2706670300	0.8
SAIL-M12BG-S3-5.0P	2706670500	0.8
SAIL-M12BG-S-5.0P	2050160500	0.8
SAIL-M12BG-T-1.5H	2050680150	0.10
SAIL-M12BG-T-1.5P	2050490150	0.10
SAIL-M12BG-T-10H	2050681000	0.10
SAIL-M12BG-T-10P	2050491000	0.10
SAIL-M12BG-T-3.0H	2050680300	0.10
SAIL-M12BG-T-3.0P	2050490300	0.10
SAIL-M12BG-T-5.0H	2050680500	0.10
SAIL-M12BG-T-5.0P	2050490500	0.10
SAIL-M12BG-TS-5.0U	2671670000	0.12
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.11
SAIL-M12BW-3-1.5U	9457320150	B.7
SAIL-M12BW-3-1.5UGE	1092940150	B.11
SAIL-M12BW-3-1.5V	1925630150	B.11
SAIL-M12BW-3-1.5V	1925630150	B.7
SAIL-M12BW-3-10U	9457321000	B.7
SAIL-M12BW-3-10V	1925631000	B.7
SAIL-M12BW-3-3.0U	9457320300	B.7
SAIL-M12BW-3-3.0V	1925630300	B.7
SAIL-M12BW-3-5.0U	9457320500	B.7
SAIL-M12BW-3-5.0V	1925630500	B.7
SAIL-M12BW-3B-1.5U	1061890150	B.47

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SAIL-M12BW-3L1.5T	1004330150	B.16
SAIL-M12BW-3L1.5U	9457800150	B.16
SAIL-M12BW-3L1.5U	9457800150	B.16
SAIL-M12BW-3L1.5UGE	1114880150	B.16
SAIL-M12BW-3L1.5V	1925460150	B.16
SAIL-M12BW-3L1.5V	1925460150	B.8
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-4-1.5TOV	2812540150	B.11
SAIL-M12BW-4-1.5U	9457740150	B.11
SAIL-M12BW-4-1.5U	9457740150	B.7
SAIL-M12BW-4-1.5UGE	1029360150	B.11
SAIL-M12BW-4-1.5V	1925640150	B.11
SAIL-M12BW-4-1.5V	1925640150	B.7
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.16
SAIL-M12BW-4-2L1.5U	9456380150	B.8
SAIL-M12BW-4-2L1.5UGE	1029350150	B.16
SAIL-M12BW-4-2L1.5V	1925470150	B.16
SAIL-M12BW-4-2L1.5V	1925470150	B.8
SAIL-M12BW-4-2L1.5U	9456381000	B.8
SAIL-M12BW-4-2L1.5U	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-4-3LR1.5TOV	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-5-1.5TOV	2812680150	B.51
SAIL-M12BW-5-1.5TVV	2812780150	B.51
SAIL-M12BW-5-1.5U	9457690150	B.11
SAIL-M12BW-5-1.5U	9457690150	B.7
SAIL-M12BW-5-1.5UGE	1029370150	B.11
SAIL-M12BW-5-1.5V	1925650150	B.11
SAIL-M12BW-5-1.5V	1925650150	B.7
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-5-3LR1.5TOV	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	1906540150	B.18
SAIL-M12BW-8-1.5U	1883460150	B.15
SAIL-M12BW-8S1.5U	1275470150	B.14
SAIL-M12BW-CD-1.5A	1061980150	L52
SAIL-M12BW-CD-1.5B	1062180150	L52
SAIL-M12BW-K-1.5P	2455190150	B.6
SAIL-M12BW-K-10P	2455191000	B.6
SAIL-M12BW-K-3.0P	2455190300	D.6
SAIL-M12BW-K-5.0P	2455190500	D.6
SAIL-M12BW-L-1.SPEP	2455200150	0.4
SAIL-M12BW-L-10PGR	2455201000	0.4
SAIL-M12BW-L-3.0PGR	2455200300	0.4
SAIL-M12BW-L-5.0PGR	2455200500	0.4
SAIL-M12BW-PB-1.5U	1062300150	L.4
SAIL-M12BW-S-1.5P	2050210150	0.8
SAIL-M12BW-S-10P	2050211000	0.8
SAIL-M12BW-S-3.0P	2050210300	0.8
SAIL-M12BW-S-3.15P	2050010150	0.8
SAIL-M12BW-S-3.10P	2050011000	0.8
SAIL-M12BW-S-3.3.0P	2050010300	0.8
SAIL-M12BW-S-3.5.0P	2050010500	0.8
SAIL-M12BW-S-5.0P	2050210500	0.8
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
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

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SAIL-M12WM126L-3.0PGR	2455320300	D.5
SAIL-M12WM126L-5.0PGR	2455320500	D.5
SAIL-M12WM126-S-1.5P	2050350150	D.9
SAIL-M12WM126-S-10P	2050351000	D.9
SAIL-M12WM126-S-3.0P	2050350300	D.9
SAIL-M12WM126-S3-1.5P	2050080150	D.9
SAIL-M12WM126-S3-10P	2050081000	D.9
SAIL-M12WM126-S3-3.0P	2050080300	D.9
SAIL-M12WM126-S5-0P	2050080500	D.9
SAIL-M12WM126-S5-0P	2050350500	D.9
SAIL-M12WM126-T-1.5H	2050890150	D.11
SAIL-M12WM126-T-1.5P	2050820150	D.11
SAIL-M12WM126-T-10H	2050891000	D.11
SAIL-M12WM126-T-10P	2050821000	D.11
SAIL-M12WM126-T-3.0H	2050890300	D.11
SAIL-M12WM126-T-3.0P	2050820300	D.11
SAIL-M12WM126-T-5.0H	2050890500	D.11
SAIL-M12WM126-T-5.0P	2050820500	D.11
SAIL-M12WM12W-3-1.5U	1815670150	B.27
SAIL-M12WM12W-3-1.5U	1815670150	B.7
SAIL-M12WM12W-3-1.5V	1925380150	B.27
SAIL-M12WM12W-3-1.5V	1925380150	B.7
SAIL-M12WM12W-3-10U	1815671000	B.7
SAIL-M12WM12W-3-10V	1925381000	B.7
SAIL-M12WM12W-3-3.0U	1815670300	B.7
SAIL-M12WM12W-3-3.0V	1925380300	B.7
SAIL-M12WM12W-3-5.0U	1815670500	B.7
SAIL-M12WM12W-3-5.0V	1925380500	B.7
SAIL-M12WM12W-3B-1.5U	1061910150	B.48
SAIL-M12WM12W-3S1.5U	1059720150	B.28
SAIL-M12WM12W-4-1.5U	1906310150	B.27
SAIL-M12WM12W-4-1.5U	1906310150	B.7
SAIL-M12WM12W-4-1.5V	1925390150	B.27
SAIL-M12WM12W-4-1.5V	1925390150	B.7
SAIL-M12WM12W-4-10U	1906311000	B.7
SAIL-M12WM12W-4-10V	1925391000	B.7
SAIL-M12WM12W-4-3.0U	1906310300	B.7
SAIL-M12WM12W-4-3.0V	1925390300	B.7
SAIL-M12WM12W-4-5.0U	1906310500	B.7
SAIL-M12WM12W-4-5.0V	1925390500	B.7
SAIL-M12WM12W-4B-1.5U	1061920150	B.48
SAIL-M12WM12W-4S1.5U	1059730150	B.28
SAIL-M12WM12W-5-1.5U	9457900150	B.27
SAIL-M12WM12W-5-1.5U	9457900150	B.7
SAIL-M12WM12W-5-1.5V	1925400150	B.27
SAIL-M12WM12W-5-1.5V	1925400150	B.7
SAIL-M12WM12W-5-10U	9457901000	B.7
SAIL-M12WM12W-5-10V	1925401000	B.7
SAIL-M12WM12W-5-3.0U	9457900300	B.7
SAIL-M12WM12W-5-3.0V	1925400300	B.7
SAIL-M12WM12W-5-5.0U	9457900500	B.7
SAIL-M12WM12W-5-5.0V	1925400500	B.7
SAIL-M12WM12W-5B-1.5U	1061930150	B.48
SAIL-M12WM12W-5S1.5U	1059740150	B.28
SAIL-M12WM12W-CD-1.5A	1062150150	L.53
SAIL-M12WM12W-CD-1.5B	1062210150	L.53
SAIL-M12WM12W-K-1.5P	2455290150	D.7
SAIL-M12WM12W-K-10P	2455291000	D.7
SAIL-M12WM12W-K-3.0P	2455290300	D.7
SAIL-M12WM12W-K-5.0P	2455290500	D.7
SAIL-M12WM12W-L-1.5PGR	2455300150	D.5
SAIL-M12WM12W-L-10PGR	2455301000	D.5
SAIL-M12WM12W-L-3.0PGR	2455300300	D.5
SAIL-M12WM12W-L-5.0PGR	2455300500	D.5
SAIL-M12WM12W-PB1-1.5D	1062330150	L.5
SAIL-M12WM12W-S-1.5P	2050470150	D.9
SAIL-M12WM12W-S-10P	2050470100	D.9
SAIL-M12WM12W-S-3.0P	2050470300	D.9
SAIL-M12WM12W-S3-1.5P	2050150150	D.9
SAIL-M12WM12W-S3-10P	2050150100	D.9
SAIL-M12WM12W-S3-3.0P	2050150300	D.9
SAIL-M12WM12W-S5-3.0P	2050150500	D.9
SAIL-M12WM12W-S5-0P	2050470500	D.9
SAIL-M12WM12W-T-1.5H	2050920150	D.11
SAIL-M12WM12W-T-1.5P	2050860150	D.11
SAIL-M12WM12W-T-10H	2050921000	D.11
SAIL-M12WM12W-T-10P	2050861000	D.11
SAIL-M12WM12W-T-3.0H	2050920300	D.11
SAIL-M12WM12W-T-3.0P	2050860300	D.11
SAIL-M12WM12W-T-5.0H	2050920500	D.11
SAIL-M12WM12W-T-5.0P	2050860500	D.11
SAIL-M12WM12W-K-1.5U	1304740150	B.4
SAIL-M12WM12W-K-3.0U	1304740300	B.4
SAIL-M12WM12W-K-5.0U	1437510150	B.5
SAIL-M12WM12W-K-10U	1437511000	B.5
SAIL-M12WM12W-K-3.0U	1437510300	B.5
SAIL-M12WM12W-K-5.0U	1437510500	B.5
SAIL-M12WM12W-K-1.5U	1906330150	B.31
SAIL-M12WM12W-K-3.0U	1906330150	B.31
SAIL-M12WM12W-K-5.0U	1938190150	B.31
SAIL-M12WM12W-K-10U	1938190150	B.5
SAIL-M12WM12W-K-1.5U	1906331000	B.5
SAIL-M12WM12W-K-3.0U	1938190300	B.5
SAIL-M12WM12W-K-5.0U	1906330500	B.5
SAIL-M12WM12W-K-10U	1938190500	B.5
SAIL-M12WM12W-K-1.5U	1906340150	B.31

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SAIL-M12WM8W-4-1.5U	1906340150	B.5
SAIL-M12WM8W-4-1.5V	1938220150	B.31
SAIL-M12WM8W-4-1.5V	1938220150	B.5
SAIL-M12WM8W-4-10U	1906341000	B.5
SAIL-M12WM8W-4-10V	1938221000	B.5
SAIL-M12WM8W-4-3.0U	1906340300	B.5
SAIL-M12WM8W-4-3.0V	1938220300	B.5
SAIL-M12WM8W-4-5.0U	1906340500	B.5
SAIL-M12WM8W-4-5.0V	1938220500	B.5
SAIL-M12W-PB-1.5D	1061970150	L.4
SAIL-M12W-S-1.5P	2050260150	D.8
SAIL-M12W-S-10P	2050261000	D.8
SAIL-M12W-S-3.0P	2050260300	D.8
SAIL-M12W-S3-1.5P	2050050150	D.8
SAIL-M12W-S3-10P	2050051000	D.8
SAIL-M12W-S3-3.0P	2050050300	D.8
SAIL-M12W-S3-5.0P	2050050500	D.8
SAIL-M12W-S5-0P	2050260500	D.8
SAIL-M12W-T-1.5H	2050710150	D.10
SAIL-M12W-T-1.5P	2050650150	D.10
SAIL-M12W-T-10H	2050711000	D.10
SAIL-M12W-T-10P	2050651000	D.10
SAIL-M12W-T-3.0H	2050710300	D.10
SAIL-M12W-T-3.0P	2050650300	D.10
SAIL-M12W-T-5.0H	2050710500	D.10
SAIL-M12W-T-5.0P	2050650500	D.10
SAIL-M16BW-12-1.5U	1259010150	B.25
SAIL-M23-KSW-7/12	1169930000	K.12
SAIL-M8BG-3-1.5TOV	2812890150	B.55
SAIL-M8BG-3-1.5U	9457450150	B.20
SAIL-M8BG-3-1.5U	9457450150	B.4
SAIL-M8BG-3-1.5UGE	1093190150	B.20
SAIL-M8BG-3-1.5V	1927240150	B.20
SAIL-M8BG-3-1.5V	1927240150	B.4
SAIL-M8BG-3-10U	9457451000	B.4
SAIL-M8BG-3-10V	1927241000	B.4
SAIL-M8BG-3-3.0U	9457450300	B.4
SAIL-M8BG-3-3.0V	1927240300	B.4
SAIL-M8BG-3-5.0U	9457450500	B.4
SAIL-M8BG-3-5.0V	1927240500	B.4
SAIL-M8BG-3S1.5U	1906600150	B.23
SAIL-M8BG-4-1.5TOV	2813030150	B.55
SAIL-M8BG-4-1.5U	9457850150	B.20
SAIL-M8BG-4-1.5U	9457850150	B.5
SAIL-M8BG-4-1.5UGE	1093200150	B.20
SAIL-M8BG-4-1.5V	1927260150	B.20
SAIL-M8BG-4-1.5V	1927260150	B.5
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-4S1.5U	1906610150	B.23
SAIL-M8BG-4S-1.5U	1981910150	L.54
SAIL-M8BG-4S-10U	1981911000	L.54
SAIL-M8BG-4S-3.0U	1981910300	L.54
SAIL-M8BG-4S-5.0U	1981910500	L.54
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-M8BW-3-1.5TOV	2812940150	B.55
SAIL-M8BW-3-1.5U	9457380150	B.20
SAIL-M8BW-3-1.5U	9457380150	B.5
SAIL-M8BW-3-1.5UGE	1093220150	B.20
SAIL-M8BW-3-1.5V	1927320150	B.20
SAIL-M8BW-3-10V	1927320150	B.5
SAIL-M8BW-3-15U	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-3L-1.5TOV	2812910150	B.56
SAIL-M8BW-3L1.5U	9457460150	B.24
SAIL-M8BW-3L1.5U	9457460150	B.5
SAIL-M8BW-3L1.5UGE	1093210150	B.24
SAIL-M8BW-3L1.5V	1927350150	B.24
SAIL-M8BW-3L1.5V	1927350150	B.5
SAIL-M8BW-3L10V	9457461000	B.5
SAIL-M8BW-3L10V	1927351000	B.5
SAIL-M8BW-3L3.0U	9457460300	B.5
SAIL-M8BW-3L3.0V	1927350300	B.5
SAIL-M8BW-3L5.0U	9457460500	B.5
SAIL-M8BW-3L5.0V	1927350500	B.5
SAIL-M8BW-3S1.5U	1906620150	B.23
SAIL-M8BW-4-1.5TOV	2813040150	B.55
SAIL-M8BW-4-1.5U	9456150150	B.20
SAIL-M8BW-4-1.5U	9456150150	B.5
SAIL-M8BW-4-1.5UGE	1093240150	B.20
SAIL-M8BW-4-1.5V	1927340150	B.20
SAIL-M8BW-4-1.5V	1927340150	B.5
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

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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
SAIL-M8G-3-1.5U	1824590150	B.20
SAIL-M8G-3-1.5U	1824590150	B.4
SAIL-M8G-3-1.5V	1927230150	B.20
SAIL-M8G-3-1.5V	1927230150	B.4
SAIL-M8G-3-10U	1824591000	B.4
SAIL-M8G-3-10V	1927231000	B.4
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-3S1.5U	1906560150	B.23
SAIL-M8G-4-1.5U	1906270150	B.20
SAIL-M8G-4-1.5U	1906270150	B.4
SAIL-M8G-4-1.5V	1927250150	B.20
SAIL-M8G-4-1.5V	1927250150	B.4
SAIL-M8G-4-10U	1906271000	B.4
SAIL-M8G-4-10V	1927251000	B.4
SAIL-M8G-4-3.0U	1906270300	B.4
SAIL-M8G-4-3.0V	1927250300	B.4
SAIL-M8G-4-5.0U	1906270500	B.4
SAIL-M8G-4-5.0V	1927250500	B.4
SAIL-M8G-4S0.3U1E	1160820030	L.63
SAIL-M8G-4S0.5U1E	1160820050	L.63
SAIL-M8G-4S1.0U1E	1160820100	L.63
SAIL-M8G-4S1.5U	1906570150	B.23
SAIL-M8G-4S1.5U1E	1160821000	L.63
SAIL-M8G-4S15U1E	1160821500	L.63
SAIL-M8G-4S2.0U1E	1160820200	L.63
SAIL-M8G-4S20U1E	1160822000	L.63
SAIL-M8G-4S3.0U1E	1160820300	L.63
SAIL-M8G-4S4.0U1E	1160820400	L.63
SAIL-M8G-4S5.0U1E	1160820500	L.63
SAIL-M8G-4S7.5U1E	1160820750	L.63
SAIL-M8G-5-1.5U	2455040150	B.21
SAIL-M8G-8-1.5U	1555330150	B.21
SAIL-M8GM12G-3-1.5U	1937950150	B.6
SAIL-M8GM12G-3-1.5V	1938230150	B.6
SAIL-M8GM12G-3-10U	1937951000	B.6
SAIL-M8GM12G-3-10V	1938231000	B.6
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
SAIL-M8GM12G-4-1.5V	1938260150	B.6
SAIL-M8GM12G-4-10U	1937981000	B.6
SAIL-M8GM12G-4-10V	1938261000	B.6
SAIL-M8GM12G-4-3.0U	1937980300	B.6
SAIL-M8GM12G-4-3.0V	1938260300	B.6
SAIL-M8GM12G-4-5.0U	1937980500	B.6
SAIL-M8GM12G-4-5.0V	1938260500	B.6
SAIL-M8GM12W-3-1.5U	1937960150	B.7
SAIL-M8GM12W-3-1.5V	1938240150	B.7
SAIL-M8GM12W-3-10U	1937961000	B.7
SAIL-M8GM12W-3-10V	1938241000	B.7
SAIL-M8GM12W-3-3.0U	1937960300	B.7
SAIL-M8GM12W-3-3.0V	1938240300	B.7
SAIL-M8GM12W-3-5.0U	1937960500	B.7
SAIL-M8GM12W-3-5.0V	1938240500	B.7
SAIL-M8GM12W-4-1.5U	1937990150	B.7
SAIL-M8GM12W-4-1.5V	1938270150	B.7
SAIL-M8GM12W-4-10U	1937991000	B.7
SAIL-M8GM12W-4-10V	1938271000	B.7
SAIL-M8GM12W-4-3.0U	1937990300	B.7
SAIL-M8GM12W-4-3.0V	1938270300	B.7
SAIL-M8GM12W-4-5.0U	1937990500	B.7
SAIL-M8GM12W-4-5.0V	1938270500	B.7
SAIL-M8GM8G-3-1.5U	1824570150	B.36
SAIL-M8GM8G-3-1.5U	1824570150	B.4
SAIL-M8GM8G-3-1.5U1E	1104470150	B.36
SAIL-M8GM8G-3-1.5V	1927150150	B.36
SAIL-M8GM8G-3-1.5V	1927150150	B.4
SAIL-M8GM8G-3-10U	1824571000	B.4
SAIL-M8GM8G-3-10U	1927151000	B.4
SAIL-M8GM8G-3-3.0U	1824570300	B.4
SAIL-M8GM8G-3-3.0V	1927150300	B.4
SAIL-M8GM8G-3-5.0U	1824570500	B.4
SAIL-M8GM8G-3-5.0V	1927150500	B.4
SAIL-M8GM8G-3L1.0U	1550230100	B.38
SAIL-M8GM8G-4-1.5U	1880470150	B.36
SAIL-M8GM8G-4-1.5U	1880470150	B.5
SAIL-M8GM8G-4-1.5U1E	1469360150	B.36
SAIL-M8GM8G-4-1.5V	1927160150	B.36
SAIL-M8GM8G-4-1.5V	1927160150	B.5
SAIL-M8GM8G-4-10U	1880471000	B.5
SAIL-M8GM8G-4-10U	1927161000	B.5
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SAIL-M8WM12W-3-1.5U	1937970150	B.7	SAI-M12-KSC-22/24	2673710000	C.36	SAI-M23-KSC-2.0.75-2.5	1170250000	K.19	SAIS 5/9-VA-B-COD	1920720000	L.8
SAIL-M8WM12W-3-1.5V	1938250150	B.7	SAI-M12-KSC-26/28	2673720000	C.36	SAI-M23-KSC-2.0.75-2.5	1170250000	M.14	SAIS 12-9/(TL)	1924950000	C.21
SAIL-M8WM12W-3-10U	1937971000	B.7	SAI-M12L-KBC-0.5	2530990000	C.19	SAI-M23-KSC-L-0.75-2.5	1170250000	M.15	SAIS 12-9/(TL)	1924950000	C.5
SAIL-M8WM12W-3-10V	1938251000	B.7	SAI-M12L-KBC-0.75	2531000000	C.19	SAI-M23-KSC-L-0.75-2.5	1170400000	K.33	SAIS 2-10C-M12B-COD	1864730000	C.31
SAIL-M8WM12W-3-3.0U	1937970300	B.7	SAI-M12L-KBC-1.5	2531010000	C.19	SAI-M23-KSC-L-0.75-2.5	1170400000	M.14	SAIS 2-10C-M12B-COD	1864730000	L.10
SAIL-M8WM12W-3-3.0V	1938250300	B.7	SAI-M12L-KBC-2.5	2525650000	C.19	SAI-M23-KSC-L-2.5-4.0	1170410000	K.33	SAIS 3/11-7/8	1291880000	J.7
SAIL-M8WM12W-3-5.0U	1937970500	B.7	SAI-M12L-KSC-0.5	2530920000	C.19	SAI-M23-KSC-L-2.5-4.0	1170410000	M.14	SAIS 3-7/7	1021470000	C.5
SAIL-M8WM12W-3-5.0V	1938250500	B.7	SAI-M12L-KSC-0.5FE	2530960000	C.19	SAI-M23-KSC-L-0.25-1.0	1170390000	K.33	SAIS 3-7/7	1021470000	C.7
SAIL-M8WM12W-4-1.5U	1938000150	B.7	SAI-M12L-KSC-0.75	2530930000	C.19	SAI-M23-KSC-L-0.25-1.0	1170390000	M.14	SAIS 3/9	1021480000	C.5
SAIL-M8WM12W-4-1.5V	1938280150	B.7	SAI-M12L-KSC-0.75FE	2530970000	C.19	SAI-M23-KS-L-7/12	1170270000	K.30	SAIS 3/9	1021480000	C.7
SAIL-M8WM12W-4-10U	1938001000	B.7	SAI-M12L-KSC-1.5	2530940000	C.19	SAI-M23-KSW-L-7/12	1170290000	K.30	SAIS 3/9-7/8	1291870000	J.6
SAIL-M8WM12W-4-10V	1938281000	B.7	SAI-M12L-KSC-1.5FE	2530980000	C.19	SAI-M23-PP-GS-11/17	2467740000	K.14	SAIS 3-PE/11-S-COD	1391990000	D.15
SAIL-M8WM12W-4-3.0U	1938000300	B.7	SAI-M12L-KSC-2.5	2530950000	C.19	SAI-M23-PP-GS-3/7	2467720000	K.14	SAIS 3-4-5-IDC(0.75)/M12	1852720000	C.30
SAIL-M8WM12W-4-3.0V	1938280300	B.7	SAI-M12L-KSC-2.5FE	2525660000	C.19	SAI-M23-PP-GS-7/12	2467730000	K.14	SAIS 3-IDC M8 SMALL	1784040001	C.33
SAIL-M8WM12W-4-5.0U	1938000500	B.7	SAI-M23-BE-12	1995850000	K.16	SAI-M23-PP-GSW-11/17	2467770000	K.14	SAIS 3-IDC M8 SMALL	1784040001	C.6
SAIL-M8WM12W-4-5.0V	1938280500	B.7	SAI-M23-BE-12-10MM	1224170000	K.22	SAI-M23-PP-GSW-3/7	2467750000	K.14	SAIS 4/11-1.5	1257950000	D.14
SAIL-M8WM8G-3-1.5U	1073020150	B.4	SAI-M23-BE-12-10MM-G	1224590000	K.22	SAI-M23-PP-GSW-7/12	2467760000	K.14	SAIS 4/11-7/8	1291950000	J.7
SAIL-M8WM8G-3-1.5V	1073021000	B.4	SAI-M23-BE-12-17MM	1224210000	K.22	SAI-M23-SE-12	1170070000	K.16	SAIS 4/11-T-COD	1391970000	D.16
SAIL-M8WM8G-3-3.0U	1073020300	B.4	SAI-M23-BE-12-F	1224150000	K.22	SAI-M23-SE-12-10MM	1224220000	K.22	SAIS 4-7/7	9457550000	C.5
SAIL-M8WM8G-3-5.0U	1073020500	B.4	SAI-M23-BE-12-F-G	1224570000	K.22	SAI-M23-SE-12-10MM-G	1224630000	K.22	SAIS 4-7/7	9457550000	C.7
SAIL-M8WM8G-4-1.5U	1535470150	B.5	SAI-M23-BE-12-F-PE	1224190000	K.22	SAI-M23-SE-12-17MM	1224230000	K.22	SAIS 4/7-(KV)	1921060000	C.10
SAIL-M8WM8G-4-3.0U	1535470300	B.5	SAI-M23-BE-12-F-PE-G	1224610000	K.22	SAI-M23-SE-12-17MM-G	1224640000	K.22	SAIS 4/9	1807340000	C.5
SAIL-M8WM8G-4-5.0U	1535470500	B.5	SAI-M23-BE-12-G	1296730000	K.16	SAI-M23-SE-12-3.5MM	1224160000	K.22	SAIS 4/9	1807340000	C.7
SAIL-M8WM8W-3-1.5U	1857670150	B.36	SAI-M23-BE-16	1170090000	K.17	SAI-M23-SE-12-3.5MM-G	1224580000	K.22	SAIS 4/9-7/8	1808840000	J.6
SAIL-M8WM8W-3-1.5V	1857670150	B.5	SAI-M23-BE-16-10MM	1224270000	K.23	SAI-M23-SE-12-F	1224140000	K.22	SAIS 4/9-7/8	1808840000	L.76
SAIL-M8WM8W-3-1.5V	1927210150	B.36	SAI-M23-BE-16-17MM	1224280000	K.23	SAI-M23-SE-12-F-G	1224560000	K.22	SAIS 4-IDC (0.75) M12	1852740000	C.30
SAIL-M8WM8W-3-1.5V	1927210150	B.5	SAI-M23-BE-16-F	1224250000	K.23	SAI-M23-SE-12-F-PE	1224180000	K.22	SAIS 4-IDC (0.75) M12	1852740000	C.5
SAIL-M8WM8W-3-10U	1857671000	B.5	SAI-M23-BE-17	1170110000	K.17	SAI-M23-SE-12-F-PE-G	1224620000	K.22	SAIS 4-IDC M12	1781550000	C.29
SAIL-M8WM8W-3-10V	1927211000	B.5	SAI-M23-BE-17-10 MM	1224350000	K.23	SAI-M23-SE-16	1170080000	K.17	SAIS 4-IDC M12 SMALL	1781550001	C.29
SAIL-M8WM8W-3-3.0U	1857670300	B.5	SAI-M23-BE-17-10MM-G	1224680000	K.23	SAI-M23-SE-16-10MM	1224290000	K.23	SAIS 4-IDC M12 SMALL	1781550001	C.5
SAIL-M8WM8W-3-3.0V	1927210300	B.5	SAI-M23-BE-17-17MM	1224360000	K.23	SAI-M23-SE-16-17MM	1224310000	K.23	SAIS 4-IDC M8 SMALL	1784060001	C.33
SAIL-M8WM8W-3-5.0U	1857670300	B.5	SAI-M23-BE-17-17MM-G	1224690000	K.23	SAI-M23-SE-16-3.5MM	1224260000	K.23	SAIS 4-IDC M8 SMALL	1784060001	C.6
SAIL-M8WM8W-3-5.0V	1927210500	B.5	SAI-M23-BE-17-F	1224330000	K.23	SAI-M23-SE-16-F	1224240000	K.23	SAIS 5/11-1.5	1253740000	D.14
SAIL-M8WM8W-4-1.5U	1857680150	B.36	SAI-M23-BE-17-F-G	1224660000	K.23	SAI-M23-SE-17	1170100000	K.17	SAIS 5/11-7/8	1391970000	J.7
SAIL-M8WM8W-4-1.5V	1857680150	B.5	SAI-M23-BE-19	1170130000	K.17	SAI-M23-SE-17-10MM	1224370000	K.23	SAIS 5/7	9456940000	C.5
SAIL-M8WM8W-4-1.5V	1927220150	B.36	SAI-M23-BE-19-10MM	1224420000	K.24	SAI-M23-SE-17-10MM-G	1224710000	K.23	SAIS 5/7	9456940000	C.8
SAIL-M8WM8W-4-1.5V	1927220150	B.5	SAI-M23-BE-19-17MM	1224450000	K.24	SAI-M23-SE-17-17MM	1224380000	K.23	SAIS 5/7-(KV)	1921050000	C.10
SAIL-M8WM8W-4-10U	1857681000	B.5	SAI-M23-BE-19-F	1224440000	K.24	SAI-M23-SE-17-17MM-G	1224720000	K.23	SAIS 5/7-ZF	1906390000	C.24
SAIL-M8WM8W-4-10V	1927221000	B.5	SAI-M23-BE-19-F-PE	1224440000	K.24	SAI-M23-SE-17-3.5MM	1224340000	K.23	SAIS 5/7-ZF	1906390000	C.5
SAIL-M8WM8W-4-3.0U	1857680300	B.5	SAI-M23-BE-6	1170020000	K.16	SAI-M23-SE-17-3.5MM-G	1224670000	K.23	SAIS 5/9	1807350000	C.5
SAIL-M8WM8W-4-3.0V	1927220300	B.5	SAI-M23-BE-6-17MM	1224040000	K.21	SAI-M23-SE-17-F	1224320000	K.23	SAIS 5/9	1807350000	C.8
SAIL-M8WM8W-4-5.0U	1857680500	B.5	SAI-M23-BE-6-3.5MM	1224030000	K.21	SAI-M23-SE-17-F-G	1224650000	K.23	SAIS 5/9-(KV)	1007080000	C.10
SAIL-M8WM8W-4-5.0V	1927220500	B.5	SAI-M23-BE-6-F	1224010000	K.21	SAI-M23-SE-19	1170120000	K.17	SAIS 5/9-7/8	1301220000	J.6
SAIL-M8WM8WR-3-1.5U	1948490150	B.37	SAI-M23-BE-7	1170040000	K.16	SAI-M23-SE-19-10MM	1224470000	K.24	SAIS 5/9-ZF	1044700000	C.24
SAIL-M8WM8WR-3-1.5V	1948670150	B.37	SAI-M23-BE-7-10MM	1224100000	K.21	SAI-M23-SE-19-17MM	1224480000	K.24	SAIS 8/9	1836970000	C.5
SAIL-M8WM8WR-4-1.5U	1948520150	B.37	SAI-M23-BE-7-17MM	1224110000	K.21	SAI-M23-SE-19-3.5MM	1224410000	K.24	SAIS 8/9	1836970000	C.8
SAIL-M8WM8WR-4-1.5V	1948700150	B.37	SAI-M23-BE-7-F	1224080000	K.21	SAI-M23-SE-19-F	1224390000	K.24	SAIS 8/9-KV	1461930000	C.10
SAIL-YSA-1.5U	9457710150	B.61	SAI-M23-BE-9	1170060000	K.16	SAI-M23-SE-19-F-PE	1224430000	K.24	SAI-SA-3-IDC	9457720000	E.20
SAIL-YSA-1.5U(0.5)	1845120150	B.61	SAI-M23-BE-9-10MM	1224520000	K.22	SAI-M23-SE-19-F-PEV	1224460000	K.24	SAI-SA-4-IDC	1766810000	E.20
SAIL-YSA-DS-1.5U	1896990150	B.61	SAI-M23-BE-9-10MM-G	1224750000	K.22	SAI-M23-SE-6	1170000000	K.16	SAISC-5-18/28-4/9CG	2672410000	C.34
SAIL-YSA-DS-M12G-1.5U	1316550150	B.61	SAI-M23-BE-9-17MM	1224530000	K.22	SAI-M23-SE-6-10MM	1224050000	K.21	SAISC-D-18/28-4/9CG	2664810000	C.35
SAIL-YSA-M12G-1.5U	9457040000	B.61	SAI-M23-BE-9-17MM-G	1224760000	K.22	SAI-M23-SE-6-17MM	1224060000	K.21	SAISC-M-4/8S-M12-D-COD	1467840000	L.74
SAIL-YSA-M12W-1.5U	1857690150	B.61	SAI-M23-BE-9-F	1224560000	K.22	SAI-M23-SE-6-3.5MM	1224020000	K.21	SAISC-M-5S-M12-L-COD	2531020000	D.18
SAIL-YSA-M8G-3-1.5U	1099760150	B.63	SAI-M23-BE-9-F-G	1224740000	K.22	SAI-M23-SE-6-F	1224000000	K.21	SAI-SCREWTY BOX	1939180000	M.6
SAIL-YSA-M8W-3-1.5U	1026190150	B.63	SAI-M23-BE-L-4/4	1995810000	K.32	SAI-M23-SE-7	1170030000	K.16	SAI-SCREWTY TOOL BOX	1939170000	M.6
SAIL-YSAV-230V-1.5U	1549100150	B.62	SAI-M23-BE-L-6	1170370000	K.32	SAI-M23-SE-7-10MM	1224120000	K.21	SAISC-WDF-D-18/28-4/9CG	2664790000	C.35
SAIL-YSAV-3.0U	1525690300	B.62	SAI-M23-GS-11/17	1299390000	K.12	SAI-M23-SE-7-17MM	1224130000	K.21	SAI-SK M12 MT	1802750000	C.44
SAIL-YSB-1.5U	9457930150	B.64	SAI-M23-GS-7/12	1995840000	K.12	SAI-M23-SE-7-3.5MM	1224090000	K.21	SAI-SK M8	1802760000	C.44
SAIL-YSB-180-1.5U(0.5)	1845140150	B.65	SAI-M23-GS-7/12-VA	1452440000	K.28	SAI-M23-SE-7-F	1224070000	K.21	SAI-SK STECKER M12	1781520000	C.44
SAIL-YSBD-1.5U	9456070150	B.64	SAI-M23-GS-L-7/12	1995800000	K.30	SAI-M23-SE-9	1170050000	K.16	SAI-SK-M12	9456050000	C.44
SAIL-YSBD-180-1.5U(0.5)	1845160150	B.65	SAI-M23-GS-L-7/12-VA	1479410000	K.28	SAI-M23-SE-9-10MM	1224540000	K.22	SAI-SK-M12 BU	8425980000	C.44
SAIL-YSBD180-M8G-3-1.5U	1276450150	B.66	SAI-M23-GSW-7/12	1170280000	K.30	SAI-M23-SE-9-10MM-G	1224770000	K.22	SAI-SK-M12 IDC	1794850000	C.44
SAIL-YSBD-M12G-1.5U	9457780150	B.64	SAI-M23-GSW-S-7/12	1169920000	K.12	SAI-M23-SE-9-17MM	1224550000	K.22	SAI-SK-M12 IDC	1794850000	E.21
SAIL-YSBD-M12W-1.5U	1857710150	B.64	SAI-M23-KBC-0.08/0.56	1995860000	K.18	SAI-M23-SE-9-17MM-G	1224780000	K.22	SAI-SK-M12 UNI 2029	2330260000	C.44
SAIL-YSBD-M8G-3-1.5U	1099770150	B.66	SAI-M23-KBC-0.08/0.56	1995860000	M.14	SAI-M23-SE-9-3.5MM	1224510000	K.22	SAISM 5/8S-M12 5P B-COD	1784790000	C.13
SAIL-YSBM-12G-1.5U	9457680150	B.64	SAI-M23-KBC-0.08/0.56	1995860000	M.15	SAI-M23-SE-9-F	1224490000	K.22	SAISM 5/8S M12 5P B-COD	1784790000	C.5
SAIL-YSBM-12W-1.5U	1857700150	B.64	SAI-M23-KBC-0.34/1.00	1170180000	K.18	SAI-M23-SE-9-F-G	1224730000	K.22	SAISM 5/8S M12 5P A-COD	1784790000	L.9
SAIL-YSBM-M8G-3-1.5U	1271590150	B.66	SAI-M23-KBC-0.34/1.00	1170180000	M.14	SAI-M23-SE-L-4/4	1170380000	K.32	SAIS-M16-12/9	1548810000	C.37
SAIL-YSBM-M8W-3-1.5U	1026180150	B.66	SAI-M23-KBC-0.34/1.00	1170180000	M.15	SAI-M23-SE-L-6	1170350000	K.32	SAIS-M16-16/9	1548820000	C.37
SAIL-YSC-1.5U	9457920150	B.67	SAI-M23-KBC-0.75/2.50	1995820000	K.33	SAI-M23-SK-F	1416410000	K.34	SAIS-M16-2/9	1327170000	C.37
SAIL-YSCD-1.5U	9456240150	B.67	SAI-M23-KBC-0.75/2.50	1995820000	M.14	SAI-M23-SK-F-FS	1417920000	K.34	SAIS-M16-4/9	1117970000	C.37
SAIL-YSCD-M12G-1.5U	9456710150	B.67	SAI-M23-KBC-1.00-1.5	1170210000	K.18	SAI-M23-SK-F	1408270000	K.34	SAIS-M16-5/9	1179900000	C.37
SAIL-YSCD-M12W-1.5U	1857730150	B.67	SAI-M23-KBC-1.00-1.5	1170210000	M.14	SAI-M23-SK-M	1244790000	K.34	SAIS-M16-6/9	1304390000	C.37
SAIL-YSCD-M8G-0.15U	1916700015	B.68	SAI-M23-KBC-1.00-1.5	1170210000	M.15	SAI-M23-SK-M-FS	1170810000	K.3			

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SAIS-M8-3P TL	2511680000	C.23
SAIS-M8-4P	1803850000	C.15
SAIS-M8-4P	1803850000	C.6
SAIS-M8-4P TL	2511700000	C.23
SAISM-M8-3P(IF)	1010060000	C.17
SAISM-M8-3P(IF)	1010060000	C.6
SAISM-M8-3P(TL)	1921030000	C.22
SAISM-M8-3P(TL)	1921030000	C.6
SAISM-M8-4P(IF)	1010070000	C.17
SAISM-M8-4P(IF)	1010070000	C.6
SAISM-M8-4P(TL)	1921040000	C.22
SAISM-M8-4P(TL)	1921040000	C.6
SAISP-4A-4/8-M12	2681480000	C.18
SAISP-4A-4/8-M12	2681480000	C.5
SAISP-5A-4/8-M12	2681560000	C.18
SAISP-5A-4/8-M12	2681560000	C.5
SAISPM-4A-4/8-M12	2681520000	C.19
SAISPM-4A-4/8-M12	2681520000	C.5
SAISPM-4D-4/8-M12	2681680000	C.20
SAISPM-4D-4/8-M12	2681680000	C.5
SAISPM-5A-4/8-M12	2681600000	C.19
SAISPM-5A-4/8-M12	2681600000	C.5
SAISPM-5B-4/8-M12	2681640000	C.20
SAISPM-5B-4/8-M12	2681640000	C.5
SAI-SSA-PG7	1938300000	C.62
SAI-SUB-D 9 SK35	1551080000	L.62
SAISW- 5/9	1807370000	C.5
SAISW- 5/9	1807370000	C.8
SAISW-3/11-7/8	1291900000	J.7
SAISW-3/7	1021280000	C.5
SAISW-3/7	1021280000	C.7
SAISW-3/9	1021290000	C.7
SAISW-3/9-7/8	1291890000	J.6
SAISW-3+PE/11-S-COD	1467860000	C.15
SAISW-4/11-1.5	1467660000	D.14
SAISW-4/11-7/8	1292040000	J.7
SAISW-4/11-T-COD	1467880000	D.16
SAISW-4/7	9457290000	C.5
SAISW-4/7	9457290000	C.7
SAISW-4/7-(KV)	1962620000	C.10
SAISW-4/8S-M12 4P D-ZF	1803930001	C.26
SAISW-4/8S-M12 4P D-ZF	1803930001	C.5
SAISW-4/8S-M12 4P D-COD	1180550000	L.72
SAISW-4/9	1807360000	C.5
SAISW-4/9	1807360000	C.7
SAISW-4/9-7/8	1808830000	J.6
SAISW-4/9-7/8	1808830000	L.76
SAISW-4-DC M12	1812870000	C.30
SAISW-5/11-1.5	1467680000	D.14
SAISW-5/11-7/8	1291990000	J.7
SAISW-5/7	9456950000	C.5
SAISW-5/7	9456950000	C.8
SAISW-5/7-(KV)	1962610000	C.10
SAISW-5/9-(KV)	1007060000	C.10
SAISW-5/9-7/8	1291980000	J.6
SAISWC-5-18/28-4/9CG	2672430000	C.34
SAISWC-M-4/8S-M12-D-COD	1467850000	L.74
SAIS-WDF-3+PE-M20-S-COD	1460290000	D.21
SAIS-WDF-4-M20	1383020000	D.20
SAIS-WDF-4-M20-T-COD	1392710000	D.21
SAIS-WDF-5-M20	1383030000	D.20
SAIS-WDF-8-M20	1383040000	D.20
SAISW-M-4/8 M12	1803930000	C.11
SAISW-M-4/8 M12	1803930000	C.5
SAISW-M-4/8 M12	1803930000	L.27
SAISW-M-5/8 M12	1803940000	C.11
SAISW-M-5/8 M12	1803940000	C.5
SAISW-M-5/8 M12	1803940000	L.27
SAISW-M-5/8 M12	1803940000	L.56
SAISW-M-5/8 M12 B-COD	1944570000	C.12
SAISW-M-5/8 M12 B-COD	1944570000	C.5
SAISW-M-5/8 M12 B-COD	1944570000	L.9
SAISW-M8-3P(TL)	1920990000	C.23
SAISW-M8-3P(TL)	1920990000	C.6
SAISW-M8-4P(TL)	1921000000	C.23
SAISW-M8-4P(TL)	1921000000	C.6
SAISWP-4A-4/8-M12	2681490000	C.18
SAISWP-4A-4/8-M12	2681490000	C.5
SAISWP-5A-4/8-M12	2681570000	C.18
SAISWP-5A-4/8-M12	2681570000	C.5
SAISWP-M-4A-4/8-M12	2681530000	C.19
SAISWP-M-4A-4/8-M12	2681530000	C.5
SAISWP-M-4D-4/8-M12	2681690000	C.20
SAISWP-M-4D-4/8-M12	2681690000	C.5
SAISWP-M-5A-4/8-M12	2681610000	C.19
SAISWP-M-5A-4/8-M12	2681610000	C.5
SAISWP-M-5B-4/8-M12	2681650000	C.20
SAISWP-M-5B-4/8-M12	2681650000	C.5
SAIS-ZW-5	9457540000	C.9
SAIS-ZWW	1837560000	C.9
SAI-T-5-M12/M12 B-COD	1057940000	C.41
SAI-T-5S-PARA	1009370000	C.41
SAI-T-M12-K	2616500000	D.28
SAI-T-M12-L	2616490000	D.28
SAI-T-M12-S	2616430000	D.27
SAI-T-M12-T	2616440000	D.27
SAI-TM-COD	1381710000	M.12
SAI-TM-CGK	1381670000	M.13
SAI-TM-C-P4	1381680000	M.13

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SAI-TM-C-PD	1381700000	M.13
SAI-TM-CSK	1381690000	M.13
SAI-TS35 MF	1917400000	E.39
SAI-TSK-M12	2426980000	B.58
SAI-TSK-M12-B0	2429320000	B.58
SAIV-M12B6-2/4-1.5U	1939410150	B.13
SAIV-M12B6-4-1.5U	9457950150	B.13
SAIV-M12BW-2/4-1.5U	1939370150	B.13
SAIV-M12BW-4-1.5U	9457960150	B.13
SAI-WDF 5P B M12 K	2485310000	C.43
SAI-WDF 5P M12 K	2427060000	C.43
SAI-XXZ-MXPP-XX-M08X-XXX	2819250000	E.42
SAI-Y-3/3 M8-M8	1524700000	C.39
SAI-Y-3/3 M8-M8 U	1550620000	C.40
SAI-Y-4/3 M8-M8	1524720000	C.40
SAI-Y-4-4/2-4 M12/8	1783420000	C.39
SAI-Y-4S-M12/M12	1060730000	C.38
SAI-Y-5 AND 2M12	1515140000	C.39
SAI-Y-5S B2-4 2M12	1783410000	C.38
SAI-Y-5S- M12/M12	1826880000	C.38
SAI-Y-5S M12/M12 2B0	1881710000	C.39
SAI-Y-5S PARA 2M12	1783430000	C.38
SAI-Y-5S PARA 2M12	1783430000	H.9
SAI-Y-5S M12/8	1771290000	C.39
SAI-Y-7/8 3P	1413920000	J.12
SAI-Y-7/8 4P	1413930000	J.12
SAI-Y-7/8 5P	1413940000	J.12
SCREWITY-M12	1900000000	L.64
SCREWITY-M12	1900000000	L.65
SCREWITY-M12	1900000000	M.5
SCREWITY-M12 F	1900020000	M.5
SCREWITY M12 KO O. SD	1900100000	M.5
SCREWITY M12F KO O. SD	1900120000	M.5
SCREWITY M23	1981560000	M.5
SCREWITY-M8	1900010000	M.5
SCREWITY-M8 F	1900030000	M.5
SCREWITY M8 KO O. SD	1900110000	M.5
SCREWITY M8F KO O. SD	1900130000	M.5
SCREWITY SET	1910000000	L.64
SCREWITY SET	1910000000	L.65
SCREWITY SET	1910000000	M.5
SCREWITY SET -DM	1920000000	L.64
SCREWITY SET -DM	1920000000	L.65
SCREWITY SET -DM	1920000000	M.5
SCREWITY SW10	1254640000	M.5
SCREWITY SW12	2588970000	M.5
SCREWITY SW13	1254650000	M.5
SCREWITY SW15	1290830000	M.5
SCREWITY SW17	1254660000	M.5
SCREWITY SW18	1254670000	M.5
SCREWITY SW19	1254680000	M.5
SCREWITY SW9	1254630000	M.5
SCREWITY-M12 F-DM	1900021000	M.5
SCREWITY-M12-DM	1900001000	E.21
SCREWITY-M12-DM	1900001000	H.9
SCREWITY-M12-DM	1900001000	L.64
SCREWITY-M12-DM	1900001000	L.65
SCREWITY-M12-DM	1900001000	M.5
SCREWITY-M8 F-DM	1900031000	M.5
SCREWITY-M8-DM	1900011000	M.5
SFC 0/12 MC NE BL	1813170000	M.17
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SFC 0/12 MC NE RT	1813150000	M.17
SFC 0/12 MC NE WS	1813130000	M.17
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SFC 1/12 MC NE BL	1747320002	M.17
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SFC 1/12 MC NE WS	1747320001	M.17
SFC 1/12 MC SDR	1752720000	M.17
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1058510150	SAIL-M12GM12G-5S1.5U	B.28
1058630000	SAIH-CD-2X0.34/2X0.22-PUR	L.55
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1059330030	IE-C5DD4UG0030MSSMCS-E	L.64
1059330050	IE-C5DD4UG0050MSSMCS-E	L.64
1059330100	IE-C5DD4UG0100MSSMCS-E	L.64
1059340015	IE-C5DB4RE0015MSSMCS-E	L.68
1059340030	IE-C5DB4RE0030MSSMCS-E	L.68
1059340050	IE-C5DB4RE0050MSSMCS-E	L.68
1059340100	IE-C5DB4RE0100MSSMCS-E	L.68
1059430000	SAI-8-M-4P M12 DIP	E.14
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
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1059750030	IE-C5DD4UG0030MCAXXX-X	L.67
1059750050	IE-C5DD4UG0050MCAXXX-X	L.67
1059750100	IE-C5DD4UG0100MCAXXX-X	L.67
1059770015	IE-C5DD4UG0015MCSMCA-E	L.66
1059770030	IE-C5DD4UG0030MCSMCA-E	L.66
1059770050	IE-C5DD4UG0050MCSMCA-E	L.66
1059770100	IE-C5DD4UG0100MCSMCA-E	L.66
1059890015	IE-C5DD4UG0015MCAAMCA-E	L.66
1059890030	IE-C5DD4UG0030MCAAMCA-E	L.66
1059890050	IE-C5DD4UG0050MCAAMCA-E	L.66
1059890100	IE-C5DD4UG0100MCAAMCA-E	L.66
1059900015	IE-C5DB4RE0015MCAXXX-X	L.71
1059900030	IE-C5DB4RE0030MCAXXX-X	L.71
1059900050	IE-C5DB4RE0050MCAXXX-X	L.71
1059900100	IE-C5DB4RE0100MCAXXX-X	L.71
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1059940030	IE-C5DB4RE0030MCSMCA-E	L.70
1059940050	IE-C5DB4RE0050MCSMCA-E	L.70
1059940100	IE-C5DB4RE0100MCSMCA-E	L.70
1059970015	IE-C5DB4RE0015MCAAMCA-E	L.70
1059970030	IE-C5DB4RE0030MCAAMCA-E	L.70
1059970050	IE-C5DB4RE0050MCAAMCA-E	L.70
1059970100	IE-C5DB4RE0100MCAAMCA-E	L.70

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1060120150	SAIL-M12BG-CD-1.5B	L.52
1060130150	SAIL-M12GM12G-CD-1.5B	L.53
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1061920150	SAIL-M12WM12W-4B-1.5U	B.48
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1061970150	SAIL-M12W-PB-1.5U	L.4
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1073020150	SAIL-M8WM8G-3-1.5U	B.4
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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.7
1291910000	SAIB-3/9-7/8	J.6
1291920000	SAIB-3/11-7/8	J.7
1291930000	SAIBW-3/9-7/8	J.6
1291940000	SAIBW-3/11-7/8	J.7
1291950000	SAIS-4/11-7/8	J.7
1291970000	SAIS-5/11-7/8	J.7
1291980000	SAISW-5/9-7/8	J.6
1291990000	SAISW-5/11-7/8	J.7
1292000000	SAIB-5/9-7/8	J.6
1292010000	SAIB-5/11-7/8	J.7
1292020000	SAIBW-5/9-7/8	J.6
1292030000	SAIBW-5/11-7/8	J.7
1292040000	SAISW-4/11-7/8	J.7
1292050000	SAIB-4/11-7/8	J.7
1292070000	SAIBW-4/11-7/8	J.7
1292080150	SAIL-7/8G-3-1.5U	J.13
1292090150	SAIL-7/8W-3-1.5U	J.13
1292100150	SAIL-7/8BG-3-1.5U	J.13
1292110150	SAIL-7/8BW-3-1.5U	J.13
1292120150	SAIL-7/8G-4-1.5U	J.13
1292130150	SAIL-7/8W-4-1.5U	J.13
1292140150	SAIL-7/8BG-4-1.5U	J.13
1292150150	SAIL-7/8BW-4-1.5U	J.13
1292170150	SAIL-7/8G-5-1.5U	J.13
1292180150	SAIL-7/8W-5-1.5U	J.13
1292190150	SAIL-7/8BG-5-1.5U	J.13
1292200150	SAIL-7/8BW-5-1.5U	J.13
1292330000	SAIE-7/8S-3.0-2U-PG11	J.9
1292340000	SAIE-7/8S-3.0-2U-PG13.5	J.10
1292350000	SAIE-7/8S-3.0-2U-H	J.8
1292370000	SAIE-7/8B-3.0-2U-PG11	J.9
1292380000	SAIE-7/8B-3.0-2U-PG13.5	J.10
1292390000	SAIE-7/8B-3.0-2U-H	J.8
1292400000	SAIE-7/8S-4.0-2U-PG11	J.9
1292410000	SAIE-7/8S-4.0-2U-PG13.5	J.10
1292420000	SAIE-7/8S-4.0-2U-H	J.8
1292430000	SAIE-7/8B-4.0-2U-PG11	J.9
1292440000	SAIE-7/8B-4.0-2U-PG13.5	J.10
1292450000	SAIE-7/8B-4.0-2U-H	J.8
1292470000	SAIE-7/8S-5.0-2-PG11	J.9
1292480000	SAIE-7/8S-5.0-2U-PG13.5	J.10
1292490000	SAIE-7/8S-5.0-2U-H	J.8
1292500000	SAIE-7/8B-5.0-2U-PG11	J.9
1292510000	SAIE-7/8B-5.0-2U-PG13.5	J.10
1292520000	SAIE-7/8B-5.0-2U-H	J.8
1292620150	SAIL-M12BG-3L1.5U	B.16
1296730000	SAI-M23-BE-12-6	K.16
1299390000	SAI-M23-GS-11/17	K.12

1300000000

1301220000	SAIS-5/9-7/8	J.6
1302920000	THM MMP EXT.RH	M.23
1304390000	SAIS-M16-6/9	C.37
1304400000	SAIB-M16-6/9	C.37
1304430000	SAIS-M16-8/9	C.37
1304450000	SAIB-M16-8/9	C.37
1304740150	SAIL-M12WVM8G-3-1.5U	B.4
1304740300	SAIL-M12WVM8G-3-3.0U	B.4
1309680015	SAIL-VSC-M8G-0.15U	B.68

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1311690150	SAIL-M12W-12-1.5U	B.14
1311700150	SAIL-M12G-12-1.5U	B.14
1312970000	SAIE-M12B-5-TL	C.53
1312980000	SAIE-M12S-5-TL	C.53
1316550150	SAIL-VSA-DS-M12G-1.5U	B.61

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1423540000	SAIBM-8/7S-M12	C.12
1424270150	SAIL-M12BG-12S1.5U	B.15
1424280150	SAIL-M12BW-12S1.5U	B.15
1426210000	RIBBON HSS HF EL 40/300	M.23

1430000000

1431490000	SAI-4-M-4P-M12-SVV	D.29
1437510150	SAIL-M12WM8G-4-1.5U	B.5
1437510300	SAIL-M12WM8G-4-3.0U	B.5
1437510500	SAIL-M12WM8G-4-5.0U	B.5
1437511000	SAIL-M12WM8G-4-10U	B.5

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1449400000	SAI-4-S12 M8 L 1:1	E.44
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1450000000

1452440000	SAI-M23-GS-7/12-VA	K.28
1452450000	SAIE-M23-S-VVW-VA	K.29

1460000000

1460290000	SAIS-WDF-3+PE-M20-S-COD	D.21
1460300000	SAIB-WDF-3+PE-M20-S-COD	D.21
1460310000	SAIE-M12B-3+PE-S-0.5U-M16	D.23
1460320000	SAIE-M12S-3+PE-S-0.5U-M16	D.23
1460330000	SAIE-M12B-4-T-0.5U-M16	D.23
1460340000	SAIE-M12S-4-T-0.5U-M16	D.23
1461930000	SAIS-8/9-KV	C.10
1467550000	SAISM-3/9S-M8	C.16
1467560000	SAIBM-3/9S-M8	C.16
1467570000	SAISM-4/9S-M8	C.16
1467580000	SAIBM-4/9S-M8	C.16
1467590000	SAIE-M8S-8-0.2U-PP	C.49
1467610000	SAIE-M8S-8-TL-HW	C.51
1467620000	SAIE-M8S-8-0.2U-HW	C.49
1467630000	SAIE-M8B-8-0.2U-PP	C.49
1467640000	SAIE-M8B-8-0.2U-HW	C.49
1467650000	SAIE-M8B-8-TL-HW	C.51
1467660000	SAISW-4/11-1.5	D.14
1467670000	SAIBW-4/11-1.5	D.14
1467680000	SAISW-5/11-1.5	D.14
1467690000	SAIBW-5/11-1.5	D.14
1467710000	SAIE-M12S-4S-TL-HW-PG9	C.54
1467720000	SAIE-M12S-5S-TL-HW-PG9	C.54
1467730000	SAIE-M12S-8S-TL-HW-PG9	C.54
1467740000	SAIE-M12S-12S-TL-HW-PG9	C.54
1467750000	SAIEW-M12S-4S-TL-HW-PG9	C.54
1467760000	SAIEW-M12S-5S-TL-HW-PG9	C.54
1467770000	SAIE-M12B-4S-TL-HW-PG9	C.54
1467780000	SAIE-M12B-5S-TL-HW-PG9	C.54
1467790000	SAIE-M12B-8S-TL-HW-PG9	C.54
1467810000	SAIE-M12B-12S-TL-HW-PG9	C.54
1467820000	SAIEW-M12B-4S-TL-HW-PG9	C.54
1467830000	SAIEW-M12B-5S-TL-HW-PG9	C.54
1467840000	SAISC-M-4/8S-M12-D-COD	L.74
1467850000	SAISWC-M-4/8S-M12-D-COD	L.74
1467860000	SAISW-3-PE/11-S-COD	D.15
1467870000	SAIBW-3-PE/11-S-COD	D.15
1467880000	SAISW-4/11-T-COD	D.16
1467890000	SAIBW-4/11-T-COD	D.16
1467930000	SAIE-M12S-3+PE-S-0.2U-M16	D.23
1467940000	SAIE-M12B-3+PE-S-0.2U-M16	D.23
1467950000	SAIE-M12S-4-T-0.2U-M16	D.23
1467960000	SAIE-M12B-4-T-0.2U-M16	D.23
1468860000	SAH-M12-KSC-0.34/0.5	L.74
1469360150	SAIL-M8GM8G-4-1.5UGE	B.36

1470000000

1471490000	SAIE-7/8-S-6-0.2U-M20	J.11
1471510000	SAIE-7/8-B-3-0.2U-M20	J.11
1471520000	SAIE-7/8-B-4-0.2U-M20	J.11
1473460000	SAI-ADAPT-M8/M12 3P	C.42
1479400000	SAIE-M23-S-EM-VA	K.29
1479410000	SAI-M23-GSL-7/12-VA	K.28
1479420000	SAIE-M23-L-EM-VA	K.29

1480000000

1483880000	SAIE-M23-L-VVW-VA	K.29
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1510000000

1513130500	SAIL-M8WM12G-4-5.0U	B.6
1515140000	SAI-Y-5 AND 2M12	C.39

1520000000

1524700000	SAI-Y-3/3 M8-M8	C.39
1524720000	SAI-Y-4/3 M8-M8	C.40
1525690300	SAIL-VSAV-3.0U	B.62

1530000000

1535470150	SAIL-M8WM8G-4-1.5U	B.5
1535470300	SAIL-M8WM8G-4-3.0U	B.5

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1535470500	SAIL-M8WM8G-4-5.0U	B.5

1540000000

1542580000	SAI-4-M-MVV-M12 S-COD	D.31
1548810000	SAIS-M16-12/9	C.37
1548820000	SAIS-M16-16/9	C.37
1548830000	SAIB-M16-12/9	C.37
1548840000	SAIB-M16-16/9	C.37
1549100150	SAIL-VSAV-230V-1.5U	B.62

1550000000

1550230100	SAIL-M8GM8G-3L1.0U	B.38
1550580000	CAN SUB-D SK TERM	L.59
1550590000	CAN SUB-D SK TERM PS	L.61
1550600000	CAN SUB-D SK35 TERM	L.58
1550610000	CAN SUB-D SK35 TERM PS	L.58
1550620000	SAI-Y-3/3 M8-M8 U	C.40
1551080000	SAI-SUB-D 9 SK35	L.62
1555270000	CAN SUB-D M12 TERM	L.57
1555280000	CAN SUB-D M12 TERM PS	L.57
1555290000	CAN SUB-D M12 180 TERM	L.60
1555300000	CAN SUB-D SK	L.59
1555330150	SAIL-M8G-8-1.5U	B.21
1555340150	SAIL-M8W-8-1.5U	B.21
1555370150	SAIL-M8BG-8-1.5U	B.21
1555380150	SAIL-M8BW-8-1.5U	B.21

1590000000

1597410000	BL 3.5/0.07/180 SN OR BX	E.37
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1600000000

1609801044	DEK 5/5 MC NE WS	M.19
1609810000	DEK 5/5 MC SDR	M.19
1609880000	WS 15/5 MC NE WS	M.19
1609890000	WS 15/5 MC SDR	M.19
1609940000	ESG 9/20 MC NE WS	M.19
1609950000	ESG 9/20 MC SDR	M.19

1630000000

1635000000	WS 10/5 MC NE WS	M.19
1635010000	WS 10/5 MC SDR	M.19

1700000000

1701230000	SAI-4-M 5P M12	E.6
1701230000	SAI-4-M 6P M12	E.7
1701231000	SAI-4-M 5P M12 UT	E.7
1701231000	SAI-4-M 5P M12 UT	E.38
1701232000	SAI-4-MH-5P M12	E.27
1701232000	SAI-4-MH-5P M12	E.30
1701240000	SAI-6-M 5P M12	E.6
1701240000	SAI-6-M 5P M12	E.7
1701241000	SAI-6-M 5P M12 UT	E.7
1701241000	SAI-6-M 5P M12 UT	E.38
1701242000	SAI-6-MH-5P M12	E.27
1701242000	SAI-6-MH-5P M12	E.30
1701250000	SAI-8-M 5P M12	E.6
1701250000	SAI-8-M 5P M12	E.7
1701251000	SAI-8-M 5P M12 UT	E.7
1701251000	SAI-8-M 5P M12 UT	E.38
1701252000	SAI-8-MH-5P M12	E.27
1701252000	SAI-8-MH-5P M12	E.30
1701253000	SAI-8-MHD-5P M12	E.27
1701253000	SAI-8-MHD-5P M12	E.31
1705920000	SAI-4-M 4P M12	E.6
1705920000	SAI-4-M 4P M12	E.7
1705921000	SAI-4-M 4P M12 UT	E.38
1705922000	SAI-4-MH-4P M12	E.27
1705922000	SAI-4-MH-4P M12	E.30
1705923000	SAI-4-MHD-4P M12	E.27
1705930000	SAI-6-M 4P M12	E.6
1705930000	SAI-6-M 4P M12	E.7
1705931000	SAI-6-M 4P M12 UT	E.7
1705931000	SAI-6-M 4P M12 UT	E.38
1705932000	SAI-6-MH-4P M12	E.27
1705932000	SAI-6-MH-4P M12	E.30
1705940000	SAI-8-M 4P M12	E.6
1705940000	SAI-8-M 4P M12	E.7
1705941000	SAI-8-M 4P M12 UT	E.7
1705941000	SAI-8-M 4P M12 UT	E.38
1705942000	SAI-8-MH-4P M12	E.27
1705942000	SAI-8-MH-4P M12	E.30
1705943000	SAI-8-MHD-4P M12	E.27
1705943000	SAI-8-MHD-4P M12	E.31

1710000000

1718411687	TMH 12 MC NE GE	L.64
1718411687	TMH 12 MC NE GE	L.65
1718411687	TMH 12 MC NE GE	L.66
1718411687	TMH 12 MC NE GE	L.67
1718411687	TMH 12 MC NE GE	L.68

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1718411687	TMH 12 MC NE GE	L.69
1718411687	TMH 12 MC NE GE	L.70
1718411687	TMH 12 MC NE GE	L.71
1718431044	TMH 18 MC NE WS	M.18
1718431687	TMH 18 MC NE GE	L.64
1718431687	TMH 18 MC NE GE	L.65
1718431687	TMH 18 MC NE GE	L.66
1718431687	TMH 18 MC NE GE	L.67
1718431687	TMH 18 MC NE GE	L.68
1718431687	TMH 18 MC NE GE	L.69
1718431687	TMH 18 MC NE GE	L.70
1718431687	TMH 18 MC NE GE	L.71
1718431687	TMH 18 MC NE GE	M.18
1718440000	TMH 18 MC SDR	M.18
1719840000	TM 4/12 HF/HB	L.66
1719840000	TM 4/12 HF/HB	L.67
1719840000	TM 4/12 HF/HB	L.70
1719840000	TM 4/12 HF/HB	L.71
1719850000	TM 4/18 HF/HB	L.66
1719850000	TM 4/18 HF/HB	L.67
1719850000	TM 4/18 HF/HB	L.70
1719850000	TM 4/18 HF/HB	L.71
1719850000	TM 4/18 HF/HB	M.18

1720000000

1724750000	SAI-4/6/8-MH BL3.5	E.22
1724750000	SAI-4/6/8-MH BL3.5	E.33
1724750000	SAI-4/6/8-MH BL3.5	E.7
1724750050	SAI-4/6/8-MH BL3.5 SV	E.17
1724750050	SAI-4/6/8-MH BL3.5 SV	E.22
1724750050	SAI-4/6/8-MH BL3.5 SV	E.7
1724752000	SAI-4/6/8-MH-MH BL 3.5	E.27
1724752000	SAI-4/6/8-MH-MH BL 3.5	E.30
1724753000	SAI-4/6/8-MH-MHD BL 3.5	E.27
1724753000	SAI-4/6/8-MH-MHD BL 3.5	E.31
1724754000	SAI-4/6/8-MH-MM BL 3.5	E.29

1730000000

1736230000	GWDR M16-NP	L.77
1737070000	VP M16-EXE SW	L.77

1740000000

1740190000	SAI-8-M 5P M12 OL	E.8
1740191000	SAI-8-M 5P M12 OL UT	E.8
1747320001	SFC 1/12 MC NE WS	M.17
1747320002	SFC 1/12 MC NE BL	M.17
1747320003	SFC 1/12 MC NE RT	M.17
1747320004	SFC 1/12 MC NE GE	M.17

1750000000

1752090000	SAI-4/6/8-MH BLZF3.5	E.22
1752080000	SAI-4/6/8-MH BLZF3.5	E.7
1752080050	SAI-4/6/8-MH BLZF3.5 SV	E.17
1752080050	SAI-4/6/8-MH BLZF3.5 SV	E.22
1752080050	SAI-4/6/8-MH BLZF3.5 SV	E.7
1752720000	SFC 1/12 MC SDR	M.17
1758320001	SFC 2/12 MC NE WS	M.17
1758320002	SFC 2/12 MC NE BL	M.17
1758320003	SFC 2/12 MC NE RT	M.17
1758320004	SFC 2/12 MC NE GE	M.17

1760000000

1760040000	SAI-4-M 3P IDC	E.22
1760041000	SAI-4-M 3P IDC UT	E.22
1760050000	SAI-6-M 3P IDC	E.22
1760060000	SAI-6-M 3P IDC	E.22
1760061000	SAI-8-M 3P IDC UT	E.22
1763480000	SFC 2/12 MC SDR	M.17
1766680000	SAI-4-F 4P IDC PUR 5M	E.23
1766670000	SAI-4-F 4P IDC PUR 10M	E.23
1766680000	SAI-6-F 4P IDC PUR 5M	E.23
1766690000	SAI-6-F 4P IDC PUR 10M	E.23
1766700000	SAI-8-F 4P IDC PUR 5M	E.23
1766710000	SAI-8-F 4P IDC PUR 10M	E.23
1766770000	SAI-8-F 3P IDC PUR 10M	E.23
1766780000	SAI-4-M 4P IDC	E.22
1766781000	SAI-4-M 4P IDC UT	E.22
1766790000	SAI-6-M 4P IDC	E.22
1766791000	SAI-6-M 4P IDC UT	E.22
1766800000	SAI-8-M 4P IDC	E.22
1766801000	SAI-8-M 4P IDC UT	E.22
1766810000	SAI-SA-4-IDC	E.20
1767880000	SAI-8-M 5P M12 ZF III	E.17

1770000000

1771290000	SAI-Y-5-S0 M12/8	C.39
1777730000	VP M16-MS65	L.77
1779080001	SFC 1/21 MC NE WS	M.17
1779080002	SFC 1/21 MC NE BL	M.17
1779080003	SFC 1/21 MC NE RT	M.17
1779080004	SFC 1/21 MC NE GE	M.17
1779090000	SFC 1/21 MC SDR	M.17

1780000000

1781060000	SAI-8-M 5P M12 NPN	E.7
1781520000	SAI-SK STECKER M12	C.44
1781540000	SAIB-4-IDC M12	C.29
1781540001	SAIB-4-IDC-M12 SMALL	C.29
1781540001	SAIB-4-IDC-M12 SMALL	C.5
1781550000	SAIS-4-IDC M12	C.29
1781550001	SAIS-4-IDC M12 SMALL	C.29
1781550001	SAIS-4-IDC M12 SMALL	C.5
1782740000	SAI-8-MMH 5P M12 ZF	E.27
1782740000	SAI-8-MMH 5P M12 ZF	E.29
1782750000	SAI-4/6/8-MH MH BLZF3.5	E.27

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1795500000	POS-5P M12 B-COD M20 300MM	L.29
1798480000	TM 203/18 V0	M.18
1799960000	SAI-8-MF 4P PUR 5M M12	E.38

1800000000

1800000000	SAI-4-M 5P M12 0L	E.8
1800001000	SAI-4-M 5P M12 0L UT	E.8
1802750000	SAI-SK M12 MT	C.44
1802760000	SAI-SK M8	C.44
1803850000	SAIS-M8-4P	C.15
1803850000	SAIS-M8-4P	C.6
1803860000	SAIS-M8-3P	C.15
1803860000	SAIS-M8-3P	C.6
1803870000	SAIB-M8-3P	C.15
1803870000	SAIB-M8-3P	C.6
1803880000	SAIB-M8-4P	C.15
1803880000	SAIB-M8-4P	C.6
1803910000	SAIBW-M-4/8 M12	C.11
1803910000	SAIBW-M-4/8 M12	C.5
1803910000	SAIBW-M-4/8 M12	L.27
1803920000	SAIBW-M-5/8 M12	C.11
1803920000	SAIBW-M-5/8 M12	C.5
1803920000	SAIBW-M-5/8 M12	L.27
1803920000	SAIBW-M-5/8 M12	L.56
1803930000	SAISW-M-4/8 M12	C.11
1803930000	SAISW-M-4/8 M12	C.5
1803930000	SAISW-M-4/8 M12	L.27
1803930000	SAISW-M-4/8 M12	L.27
1803930001	SAISW-4/8S-M12 4P D-ZF	C.26
1803930001	SAISW-4/8S-M12 4P D-ZF	C.5
1803940000	SAISW-M-5/8 M12	C.11
1803940000	SAISW-M-5/8 M12	C.5
1803940000	SAISW-M-5/8 M12	L.27
1803940000	SAISW-M-5/8 M12	L.56
1804580000	SAI-4-MF 5P PUR 10M	E.38
1804590000	SAI-8-MF 5P PUR 5M	E.38
1804600000	SAI-4-MF 5P PUR 5M	E.38
1805660000	SAI Y-4S M8-M8	C.39
1805720000	SFC 1/30 MC NE BL	M.17
1805730000	SFC 1/30 MC NE GE	M.17
1805740000	SFC 1/30 MC NE RT	M.17
1805750000	SFC 1/30 MC SDR	M.17
1805760000	SFC 1/30 MC NE WS	M.17
1805770000	SFC 2/21 MC NE BL	M.17
1805780000	SFC 2/21 MC NE GE	M.17
1805790000	SFC 2/21 MC NE RT	M.17
1805800000	SFC 2/21 MC SDR	M.17
1805810000	SFC 2/21 MC NE WS	M.17
1805820000	SFC 2/30 MC NE BL	M.17
1805830000	SFC 2/30 MC NE GE	M.17
1805850000	SFC 2/30 MC NE RT	M.17
1805860000	SFC 2/30 MC SDR	M.17
1805870000	SFC 2/30 MC NE WS	M.17
1806010000	SAI-4-M 5P M12 1:1	E.32
1806011000	SAI-4-M 5P M12 1:1 UT	E.32
1807230000	SAIB-4/9	C.5
1807230000	SAIB-4/9	C.7
1807240000	SAIBW-4/9	C.5
1807240000	SAIBW-4/9	C.7
1807250000	SAIB-5/9	C.5
1807250000	SAIB-5/9	C.8
1807330000	SAIBW-5/9	C.5
1807330000	SAIBW-5/9	C.8
1807340000	SAIS-4/9	C.5
1807340000	SAIS-4/9	C.7
1807350000	SAIS-5/9	C.5
1807350000	SAIS-5/9	C.8
1807360000	SAISW-4/9	C.5
1807360000	SAISW-4/9	C.7
1807370000	SAISW-5/9	C.5
1807370000	SAISW-5/9	C.8
1807640000	SAI-4-M 8P M12	E.33
1807641000	SAI-4-M 8P M12 UT	E.33
1808830000	SAISW-4/9-7/8	J.6
1808830000	SAISW-4/9-7/8	L.76
1808840000	SAIS-4/9-7/8	J.6
1808840000	SAIS-4/9-7/8	L.76
1808970150	SAIL-M12BW-4S1.5U	B.18

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1812170000	SAI-8-B 4P M12 F10	E.37
1812470000	SAIBW-4/9-7/8	J.6
1812470000	SAIBW-4/9-7/8	L.76
1812480000	SAIB-4/9-7/8	J.6
1812480000	SAIB-4/9-7/8	L.76
1812540150	SAIL-M12BG-4S1.5U	B.18
1812550150	SAIL-ZW-M12BG-2/4-1.5U	B.41
1812870000	SAISW-4-1DC M12	C.30
1812890000	SAIBW-4-1DC M12	C.30
1813130000	SFC 0/12 MC NE WS	M.17
1813150000	SFC 0/12 MC NE RT	M.17
1813160000	SFC 0/12 MC NE GE	M.17
1813170000	SFC 0/12 MC NE BL	M.17
1813180000	SFC 0/12 MC SDR	M.17
1813190000	SFC 0/21 MC NE WS	M.17
1813200000	SFC 0/21 MC NE RT	M.17
1813210000	SFC 0/21 MC NE GE	M.17
1813220000	SFC 0/21 MC NE BL	M.17

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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.48
1814990000	SAI-8-F 5P NPN-PNP 5M	E.34
1815670150	SAIL-M12WM12W-3-1.5U	B.27
1815670150	SAIL-M12WM12W-3-1.5U	B.7
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 0L2	E.8
1818090100	SAIS-M23-19P-AN-1.0M	K.36
1818140100	SAIB-M23-19P-AN-1.0M	K.36
1818160100	SAIS-M23-19P-ST-1.0M	K.36
1818180100	SAIB-M23-19P-ST-1.0M	K.36

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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
1824570150	SAIL-M8GM8B-3-1.5U	B.36
1824570150	SAIL-M8GM8B-3-1.5U	B.4
1824570300	SAIL-M8GM8B-3-3.0U	B.4
1824570500	SAIL-M8GM8B-3-5.0U	B.4
1824571000	SAIL-M8GM8B-3-10U	B.4
1824580150	SAIL-M8GM8W-3-1.5U	B.36
1824580150	SAIL-M8GM8W-3-1.5U	B.5
1824580300	SAIL-M8GM8W-3-3.0U	B.5
1824580500	SAIL-M8GM8W-3-5.0U	B.5
1824581000	SAIL-M8GM8W-3-10U	B.5
1824590150	SAIL-M8G-3-1.5U	B.20
1824590150	SAIL-M8G-3-1.5U	B.4
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.38
1827010150	SAIL-M8BW8W-4-1.5U	B.22
1827020150	SAIL-M8BGR-3-1.5U	B.22
1828610000	SAI-8-F 4P M8 L 10M	E.46
1828610000	SAI-8-F 4P M8 L 10M	E.6
1828620000	SAI-8-F 4P M8 L 5M	E.46
1828620000	SAI-8-F 4P M8 L 5M	E.6
1828630000	SAI-12-F 3P M8 L 10M	E.46
1828630000	SAI-12-F 3P M8 L 10M	E.6
1828640000	SAI-12-F 3P M8 L 5M	E.46
1828640000	SAI-12-F 3P M8 L 5M	E.6
1828650000	SAI-10-F 3P M8 L 10M	E.46
1828650000	SAI-10-F 3P M8 L 10M	E.6
1828660000	SAI-10-F 3P M8 L 5M	E.46
1828660000	SAI-10-F 3P M8 L 5M	E.6
1828670000	SAI-8-F 3P M8 L 10M	E.46
1828670000	SAI-8-F 3P M8 L 10M	E.6
1828680000	SAI-8-F 3P M8 L 5M	E.46
1828680000	SAI-8-F 3P M8 L 5M	E.6
1828690000	SAI-6-F 3P M8 L 10M	E.46
1828690000	SAI-6-F 3P M8 L 10M	E.6
1828700000	SAI-6-F 3P M8 L 5M	E.46
1828700000	SAI-6-F 3P M8 L 5M	E.6
1828710000	SAI-4-F 3P M8 L 10M	E.46
1828710000	SAI-4-F 3P M8 L 10M	E.6
1828720000	SAI-4-F 3P M8 L 5M	E.46
1828720000	SAI-4-F 3P M8 L 5M	E.6
1828730000	SAI-6-S 3P M8 L	E.43
1828730000	SAI-6-S 3P M8 L	E.6
1828740000	SAI-4-S 3P M8 L	E.43
1828740000	SAI-4-S 3P M8 L	E.6

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1831020000	SAI-8-M16 4P M12	E.13
1836910000	SAIE-M12B-5-0.5U-M16	C.47
1836960000	SAIB-8/9	C.5
1836960000	SAIB-8/9	C.8
1836970000	SAIS-8/9	C.5
1836970000	SAIS-8/9	C.8
1837560000	SAIS-ZWWW	C.9

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1845120150	SAIL-VSA-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.35
1847920000	SAI-8-S 4P FC	E.18
1847920000	SAI-8-S 4P FC	K.37
1847960000	SAI-4-S 4P FC	K.37
1847960000	SAI-4-S 4P FC	E.18
1847970000	SAI-4-S 5P FC	E.6
1847970000	SAI-4-S 5P FC	K.37
1848040000	SAI-8-S 5P FC	E.18
1848040000	SAI-8-S 5P FC	K.37
1849670000	SAI-6-F 4P M8 L 10M	E.46
1849670000	SAI-6-F 4P M8 L 10M	E.6

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1849680000	SAI-4-F 4P M8 L 5M	E.46
1849680000	SAI-4-F 4P M8 L 5M	E.6
1849690000	SAI-4-F 4P M8 L 10M	E.46
1849690000	SAI-4-F 4P M8 L 10M	E.6
1849700000	SAI-6-F 4P M8 L 5M	E.46
1849700000	SAI-6-F 4P M8 L 5M	E.6

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1852720000	SAIS-3-4-5-IDC(0.75)M12	C.30
1852730000	SAIB-3-4-5-IDC(0.75)M12	C.30
1852730000	SAIB-3-4-5-IDC(0.75)M12	C.5
1852740000	SAIS-4-IDC (0.75) M12	C.30
1852740000	SAIS-4-IDC (0.75) M12	C.5
1852750000	SAIB-4-IDC (0.75) M12	C.30
1854000000	SAI-4-M 5P M12 2F	E.7
1856110000	SAIE-M12B-5-0.5U-FP-M16	C.47
1856120000	SAIE-M12S-5-0.5U-PG9	C.48
1856130000	SAIE-M8B-3-0.5U-FP-M8	C.50
1856140000	SAIE-M8B-4-0.5U-FP-M8	C.50
1857550150	SAIL-M8W-3-1.5U	B.20
1857550150	SAIL-M8W-3-1.5U	B.4
1857550300	SAIL-M8W-3-3.0U	B.4
1857550500	SAIL-M8W-3-5.0U	B.4
1857551000	SAIL-M8W-3-10U	B.4
1857560150	SAIL-M8W-4-1.5U	B.20
1857560150	SAIL-M8W-4-1.5U	B.4
1857560300	SAIL-M8W-4-3.0U	B.4
1857560500	SAIL-M8W-4-5.0U	B.4
1857561000	SAIL-M8W-4-10U	B.4
1857660150	SAIL-M8GM8W-4-1.5U	B.36
1857660150	SAIL-M8GM8W-4-1.5U	B.5
1857660300	SAIL-M8GM8W-4-3.0U	B.5
1857660500	SAIL-M8GM8W-4-5.0U	B.5
1857661000	SAIL-M8GM8W-4-10U	B.5
1857670150	SAIL-M8WM8W-3-1.5U	B.36
1857670150	SAIL-M8WM8W-3-1.5U	B.5
1857670300	SAIL-M8WM8W-3-3.0U	B.5
1857670500	SAIL-M8WM8W-3-5.0U	B.5
1857671000	SAIL-M8WM8W-3-10U	B.5
1857680150	SAIL-M8WM8W-4-1.5U	B.36
1857680150	SAIL-M8WM8W-4-1.5U	B.5
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
1857710150	SAIL-VSBD-M12W-1.5U	B.64
1857720150	SAIL-VSCD-M12W-1.5U	B.67
1857730150	SAIL-VSCD-M12W-1.5U	B.67
1859120000	SAI-8-SH 4P FC	E.19
1859120000	SAI-8-SH 4P FC	K.38
1859140000	SAI-8-SH 5P FC	E.19
1859140000	SAI-8-SH 5P FC	K.38

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1861090000	SAIE-M12S-4-0.5U-M16	C.47
1861110000	SAIE-M12S-8-0.5U-M16	C.47
1861120000	SAIE-M12B-4-0.5U-M16	C.47
1861140000	SAIE-M12B-8-0.5U-M16	C.47
1861160000	SAIE-M12S-4-0.5U-FP-M16	C.47
1861170000	SAIE-M12S-5-0.5U-FP-M16	C.47
1861180000	SAIE-M12S-8-0.5U-FP-M16	C.47
1861190000	SAIE-M12B-4-0.5U-FP-M16	C.47
1861210000	SAIE-M12B-8-0.5U-FP-M16	C.47
1861220000	SAIE-M12S-4-0.5U-PG9	C.48
1861220001	SAIE-M12S-4-0.2U-AEH-VA	L.29
1861230000	SAIE-M12S-5-0.5U-M16	C.47
1861240000	SAIE-M12S-8-0.5U-PG9	C.48
1861250000	SAIE-M12B-4-0.5U-PG9	C.48
1861270000	SAIE-M12B-8-0.5U-PG9	C.48
1861280000	SAIE-M8B-3-0.5U-FP-M8	C.50
1861290000	SAIE-M8B-4-0.5U-FP-M8	C.50
1862200000	WK-1/4(SCREWTY)	M.5
1864730000	SAIS-2-IDC-M12B-COD	C.31
1864730000	SAIS-2-IDC-M12B-COD	L.10
1864740000	SAIB-2-IDC-M12B-COD	C.31
1864740000	SAIB-2-IDC-M12B-COD	L.10
1865310000	SAI-8-F 5P M12 5M VA	E.24
1865870150	SAIL-M12BG-8-1.5U	B.14
1867410150	SAIL-M12BG-3S1.5U	B.18
1868350000	SAI-4-M 4P EXI Z1 0L	E.49
1868360000	SAI-4-M 4P EXI Z1 IL	E.49
1868370000	SAI-8-M 4P EXI Z1 IL	E.49
1868560000	DAE M12 PA SHORT	L.77

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1871680000	SAI-8-S12 3P M8 L	E.43
1871680000	SAI-8-S12 3P M8 L	E.6
1873070000	SAIB-VSA-3P/250/9-0B	C.57
1873080000	SAIB-VSA-4P/250/9-0B	C.57
1873090000	SAIB-VSA-3P/250/11-0B	C.57
1873100000	SAIB-VSA-4P/250/11-0B	C.57
1873110000	SAIB-VSA-3P/230/9/LD	C.58
1873120000	SAIB-VSA-3P/24/9/LD	C.58
1873130000	SAIB-VSA-3P/230/9-H/OB	C.57
1873140000	SAIB-VSA-4P/230/9-H/OB	C.57

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1906270500	SAIL-M8G-4-5.0U	B.4
1906271000	SAIL-M8G-4-10U	B.4
1906280100	SAIS-M23-12P-ST-1.0M	K.36
1906290100	SAIS-M23-12P-AN-1.0M	K.36
1906300030	SAIL-M12GM12G-4-0.3U	H.9
1906300050	SAIL-M12GM12G-4-0.5U	H.9
1906300150	SAIL-M12GM12G-4-1.5U	B.27
1906300150	SAIL-M12GM12G-4-1.5U	B.6
1906300150	SAIL-M12GM12G-4-1.5U	H.9
1906300300	SAIL-M12GM12G-4-3.0U	B.6
1906300500	SAIL-M12GM12G-4-5.0U	B.6
1906301000	SAIL-M12GM12G-4-10U	B.6
1906310150	SAIL-M12WM12W-4-1.5U	B.27
1906310150	SAIL-M12WM12W-4-1.5U	B.7
1906310300	SAIL-M12WM12W-4-3.0U	B.7
1906310500	SAIL-M12WM12W-4-5.0U	B.7
1906311000	SAIL-M12WM12W-4-10U	B.7
1906330150	SAIL-M12WM8W-3-1.5U	B.31
1906330150	SAIL-M12WM8W-3-1.5U	B.5
1906330300	SAIL-M12WM8W-3-3.0U	B.5
1906330500	SAIL-M12WM8W-3-5.0U	B.5
1906331000	SAIL-M12WM8W-3-10U	B.5
1906340150	SAIL-M12WM8W-4-1.5U	B.31
1906340150	SAIL-M12WM8W-4-1.5U	B.5
1906340300	SAIL-M12WM8W-4-3.0U	B.5
1906340500	SAIL-M12WM8W-4-5.0U	B.5
1906341000	SAIL-M12WM8W-4-10U	B.5
1906390000	SAIS-5/7-2F	C.24
1906390000	SAIS-5/7-2F	C.5
1906400150	SAIL-M8BW-4L1.5U	B.24
1906410150	SAIL-M12GM12W-4-2L1.5U	B.30
1906410150	SAIL-M12GM12W-4-2L1.5U	B.8
1906410300	SAIL-M12GM12W-4-2L3.0U	B.8
1906410500	SAIL-M12GM12W-4-2L5.0U	B.8
1906411000	SAIL-M12GM12W-4-2L10U	B.8
1906430150	SAIL-M12GM8W-4L1.5U	B.34
1906450150	SAIL-M8GM8W-4L1.5U	B.38
1906470150	SAIL-M12G-3S1.5U	B.18
1906480150	SAIL-M12G-4S1.5U	B.18
1906500150	SAIL-M12W-3S1.5U	B.18
1906520150	SAIL-M12W-5S1.5U	B.18
1906540150	SAIL-M12BW-5S1.5U	B.18
1906560150	SAIL-M8G-3S1.5U	B.23
1906570150	SAIL-M8G-4S1.5U	B.23
1906580150	SAIL-M8W-3S1.5U	B.23
1906590150	SAIL-M8W-4S1.5U	B.23
1906600150	SAIL-M8BG-3S1.5U	B.23
1906610150	SAIL-M8BG-4S1.5U	B.23
1906620150	SAIL-M8BW-3S1.5U	B.23
1906630150	SAIL-M8BW-4S1.5U	B.23
1906950150	SAIL-M12BW-3S1.5U	B.18
1909500000	VG M16 - MS 1/EMV	L.77
1909860000	VG M16-1/K68	L.77
1909910000	VG M16-1/MS68	L.77

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1910000000	SCREWTY SET	L.64
1910000000	SCREWTY SET	L.65
1910000000	SCREWTY SET	M.5
1912110150	SAIL-ZWM12BW-3L1.5U	B.43
1912130000	ESG 8/13.5/43.3 SAI AU	M.19
1915220000	SAI JP 4P LG	H.10
1916700015	SAIL-VSCD-M8G-0.15U	B.68
1916700150	SAIL-VSCD-M8G-3-1.5U	B.68
1917400000	SAITS35 MF	E.39
1918520000	SAI JP 5P LG	H.10

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1920000000	SCREWTY SET -DM	L.64
1920000000	SCREWTY SET -DM	L.65
1920000000	SCREWTY SET -DM	M.5
1920700000	SAIS 5/9-VA	C.25
1920700000	SAIS 5/9-VA	L.28
1920700001	SAIS 4/9-VA D-COD	C.25
1920700001	SAIS 4/9-VA D-COD	L.73
1920710000	SAIB 5/9-VA	C.25
1920710000	SAIB 5/9-VA	L.28
1920720000	SAIS 5/9-VA-B-COD	C.25
1920720000	SAIS 5/9-VA-B-COD	L.8
1920730000	SAIB 5/9-VA-B-COD	C.25
1920730000	SAIB 5/9-VA-B-COD	L.8
1920970000	SAIBW-M8-3P(TL)	C.23
1920970000	SAIBW-M8-3P(TL)	C.6
1920980000	SAIBW-M8-4P(TL)	C.23
1920980000	SAIBW-M8-4P(TL)	C.6
1920990000	SAISW-M8-3P(TL)	C.23
1920990000	SAISW-M8-3P(TL)	C.6
1921000000	SAISW-M8-4P(TL)	C.23
1921000000	SAISW-M8-4P(TL)	C.6
1921010000	SAIBM-M8-3P(TL)	C.22
1921010000	SAIBM-M8-3P(TL)	C.6
1921020000	SAIBM-M8-4P(TL)	C.22
1921020000	SAIBM-M8-4P(TL)	C.6
1921030000	SAISM-M8-3P(TL)	C.22
1921030000	SAISM-M8-3P(TL)	C.6
1921040000	SAISM-M8-4P(TL)	C.22
1921040000	SAISM-M8-4P(TL)	C.6

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1921050000	SAIS-5/7-(KV)	C.10
1921060000	SAIS-4/7-(KV)	C.10
1921070000	SAIB-5/7-(KV)	C.10
1921080000	SAIB-4/7-(KV)	C.10
1924950000	SAIS-12/9(TL)	C.21
1924950000	SAIS-12/9(TL)	C.5
1924960000	SAIB-12/9(TL)	C.21
1924960000	SAIB-12/9(TL)	C.5
1924970000	SAIB-5/7-2F	C.24
1924970000	SAIB-5/7-2F	C.5
1924980000	SAI-ASI T FFR	L.51
1925010000	SAI-ASI T FR	L.50
1925300150	SAIL-M12GM12G-3-1.5V	B.27
1925300150	SAIL-M12GM12G-3-1.5V	B.6
1925300300	SAIL-M12GM12G-3-3.0V	B.6
1925300500	SAIL-M12GM12G-3-5.0V	B.6
1925301000	SAIL-M12GM12G-3-10V	B.6
1925310150	SAIL-M12GM12G-4-1.5V	B.27
1925310150	SAIL-M12GM12G-4-1.5V	B.6
1925310300	SAIL-M12GM12G-4-3.0V	B.6
1925310500	SAIL-M12GM12G-4-5.0V	B.6
1925311000	SAIL-M12GM12G-4-10V	B.6
1925320150	SAIL-M12GM12G-5-1.5V	B.27
1925320150	SAIL-M12GM12G-5-1.5V	B.7
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
1925340150	SAIL-M12GM12W-3-1.5V	B.27
1925340150	SAIL-M12GM12W-3-1.5V	B.7
1925340300	SAIL-M12GM12W-3-3.0V	B.7
1925340500	SAIL-M12GM12W-3-5.0V	B.7
1925341000	SAIL-M12GM12W-3-10V	B.7
1925350150	SAIL-M12GM12W-4-1.5V	B.27
1925350150	SAIL-M12GM12W-4-1.5V	B.7
1925350300	SAIL-M12GM12W-4-3.0V	B.7
1925350500	SAIL-M12GM12W-4-5.0V	B.7
1925351000	SAIL-M12GM12W-4-10V	B.7
1925360150	SAIL-M12GM12W-5-1.5V	B.27
1925360150	SAIL-M12GM12W-5-1.5V	B.7
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
1925380150	SAIL-M12WM12W-3-1.5V	B.27
1925380150	SAIL-M12WM12W-3-1.5V	B.7
1925380300	SAIL-M12WM12W-3-3.0V	B.7
1925380500	SAIL-M12WM12W-3-5.0V	B.7
1925391000	SAIL-M12WM12W-4-1.5V	B.27
1925390150	SAIL-M12WM12W-4-1.5V	B.7
1925390150	SAIL-M12WM12W-4-1.5V	B.7
1925390300	SAIL-M12WM12W-4-3.0V	B.7
1925390500	SAIL-M12WM12W-4-5.0V	B.7
1925391000	SAIL-M12WM12W-4-10V	B.7
1925400150	SAIL-M12WM12W-5-1.5V	B.27
1925400150	SAIL-M12WM12W-5-1.5V	B.7
1925400300	SAIL-M12WM12W-5-3.0V	B.7
1925400500	SAIL-M12WM12W-5-5.0V	B.7
1925401000	SAIL-M12WM12W-5-10V	B.7
1925410150	SAIL-M12GM12W-3L1.5V	B.30
1925410150	SAIL-M12GM12W-3L1.5V	B.8
1925410300	SAIL-M12GM12W-3L3.0V	B.8
1925410500	SAIL-M12GM12W-3L5.0V	B.8
1925411000	SAIL-M12GM12W-3L10V	B.8
1925420150	SAIL-M12GM12W-4-2L1.5V	B.30
1925420150	SAIL-M12GM12W-4-2L1.5V	B.8
1925420300	SAIL-M12GM12W-4-2L3.0V	B.8
1925420500	SAIL-M12GM12W-4-2L5.0V	B.8
1925421000	SAIL-M12GM12W-4-2L10U	B.8
1925430150	SAIL-M12G-3-1.5V	B.11
1925430150	SAIL-M12G-3-1.5V	B.4
1925430300	SAIL-M12G-3-3.0V	B.4
1925430500	SAIL-M12G-3-5.0V	B.4
1925431000	SAIL-M12G-3-10V	B.4
1925440150	SAIL-M12G-4-1.5V	B.11
1925440150	SAIL-M12G-4-1.5V	B.4
1925440300	SAIL-M12G-4-3.0V	B.4
1925440500	SAIL-M12G-4-5.0V	B.4
1925441000	SAIL-M12G-4-10V	B.4
1925450150	SAIL-M12G-5-1.5V	B.11
1925450150	SAIL-M12G-5-1.5V	B.4
1925450300	SAIL-M12G-5-3.0V	B.4
1925450500	SAIL-M12G-5-5.0V	B.4
1925451000	SAIL-M12G-5-10V	B.4
1925460150	SAIL-M12BW-3L1.5V	B.16
1925460150	SAIL-M12BW-3L1.5V	B.8
1925460300	SAIL-M12BW-3L3.0V	B.8
1925460500	SAIL-M12BW-3L5.0V	B.8
1925461000	SAIL-M12BW-3L10V	B.8
1925470150	SAIL-M12BW-4-2L1.5V	B.16
1925470150	SAIL-M12BW-4-2L1.5V	B.8
1925470300	SAIL-M12BW-4-2L3.0V	B.8
1925470500	SAIL-M12BW-4-2L5.0V	B.8
1925471000	SAIL-M12BW-4-2L10V	B.8
1925510150	SAIL-M12W-3-1.5V	B.11
1925510150	SAIL-M12W-3-1.5V	B.4
1925510300	SAIL-M12W-3-3.0V	B.4
1925510500	SAIL-M12W-3-5.0V	B.4
1925511000	SAIL-M12W-3-10V	B.4

Order No.	Type	Page
1925520150	SAIL-M12W-4-1.5V	B.11
1925520150	SAIL-M12W-4-1.5V	B.4
1925520300	SAIL-M12W-4-3.0V	B.4
1925520500	SAIL-M12W-4-5.0V	B.4
1925521000	SAIL-M12W-4-10V	B.4
1925530150	SAIL-M12W-5-1.5V	B.11
1925530150	SAIL-M12W-5-1.5V	B.4
1925530300	SAIL-M12W-5-3.0V	B.4
1925530500	SAIL-M12W-5-5.0V	B.4
1925531000	SAIL-M12W-5-10V	B.4
1925570150	SAIL-M12BG-3-1.5V	B.11
1925570150	SAIL-M12BG-3-1.5V	B.6
1925570300	SAIL-M12BG-3-3.0V	B.6
1925570500	SAIL-M12BG-3-5.0V	B.6
1925571000	SAIL-M12BG-3-10V	B.6
1925580150	SAIL-M12BG-4-1.5V	B.11
1925580150	SAIL-M12BG-4-1.5V	B.6
1925580300	SAIL-M12BG-4-3.0V	B.6
1925580500	SAIL-M12BG-4-5.0V	B.6
1925581000	SAIL-M12BG-4-10V	B.6
1925590150	SAIL-M12BG-5-1.5V	B.11
1925590150	SAIL-M12BG-5-1.5V	B.7
1925590300	SAIL-M12BG-5-3.0V	B.7
1925590500	SAIL-M12BG-5-5.0V	B.7
1925591000	SAIL-M12BG-5-10V	B.7
1925630150	SAIL-M12BW-3-1.5V	B.11
1925630150	SAIL-M12BW-3-1.5V	B.7
1925630300	SAIL-M12BW-3-3.0V	B.7
1925630500	SAIL-M12BW-3-5.0V	B.7
1925631000	SAIL-M12BW-3-10V	B.7
1925640150	SAIL-M12BW-4-1.5V	B.11
1925640150	SAIL-M12BW-4-1.5V	B.7
1925640300	SAIL-M12BW-4-3.0V	B.7
1925640500	SAIL-M12BW-4-5.0V	B.7
1925641000	SAIL-M12BW-4-10V	B.7
1925650150	SAIL-M12BW-5-1.5V	B.11
1925650150	SAIL-M12BW-5-1.5V	B.7
1925650300	SAIL-M12BW-5-3.0V	B.7
1925650500	SAIL-M12BW-5-5.0V	B.7
1925651000	SAIL-M12BW-5-10V	B.7
1925870000	SAIBW-12/9(TL)	C.21
1926690150	SAIL-M12G-5S1.5U	B.18
1927150150	SAIL-M8GM8G-3-1.5V	B.36
1927150150	SAIL-M8GM8G-3-1.5V	B.4
1927150300	SAIL-M8GM8G-3-3.0V	B.8
1927150500	SAIL-M8GM8G-3-5.0V	B.4
1927151000	SAIL-M8GM8G-3-10V	B.8
1927160150	SAIL-M8GM8G-4-1.5V	B.36
1927160150	SAIL-M8GM8G-4-1.5V	B.5
1927160300	SAIL-M8GM8G-4-3.0V	B.5
1927160500	SAIL-M8GM8G-4-5.0V	B.5
1927161000	SAIL-M8GM8G-4-10V	B.5
1927170150	SAIL-M8GM8W-3-1.5V	B.36
1927170150	SAIL-M8GM8W-3-1.5V	B.5
1927170300	SAIL-M8GM8W-3-3.0V	B.5
1927170500	SAIL-M8GM8W-3-5.0V	B.5
1927171000	SAIL-M8GM8W-3-10V	B.5
1927180150	SAIL-M8GM8W-4-1.5V	B.36
1927180150	SAIL-M8GM8W-4-1.5V	B.5
1927180300	SAIL-M8GM8W-4-3.0V	B.5
1927180500	SAIL-M8GM8W-4-5.0V	B.5
1927181000	SAIL-M8GM8W-4-10V	B.5
1927190150	SAIL-M8GM8W-3L1.5V	B.38
1927190150	SAIL-M8GM8W-3L1.5V	B.5
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
1927210150	SAIL-M8WM8W-3-1.5V	B.36
1927210150	SAIL-M8WM8W-3-1.5V	B.5
1927210300	SAIL-M8WM8W-3-3.0V	B.5
1927210500	SAIL-M8WM8W-3-5.0V	B.5
1927211000	SAIL-M8WM8W-3-10V	B.5
1927220150	SAIL-M8WM8W-4-1.5V	B.36
1927220150	SAIL-M8WM8W-4-1.5V	B.5
1927220300	SAIL-M8WM8W-4-3.0V	B.5
1927220500	SAIL-M8WM8W-4-5.0V	B.5
1927221000	SAIL-M8WM8W-4-10V	B.5
1927230150	SAIL-M8G-3-1.5V	B.20
1927230150	SAIL-M8G-3-1.5V	B.4
1927230300	SAIL-M8G-3-3.0V	B.4
1927230500	SAIL-M8G-3-5.0V	B.4
1927231000	SAIL-M8G-3-10V	B.4
1927240150	SAIL-M8BG-3-1.5V	B.20
1927240150	SAIL-M8BG-3-1.5V	B.4
1927240300	SAIL-M8BG-3-3.0V	B.4
1927240500	SAIL-M8BG-3-5.0V	B.4
1927241000	SAIL-M8BG-3-10V	B.4
1927250150	SAIL-M8G-4-1.5V	B.20
1927250150	SAIL-M8G-4-1.5V	B.4
1927250300	SAIL-M8G-4-3.0V	B.4
1927250500	SAIL-M8G-4-5.0V	B.4
1927251000	SAIL-M8G-4-10V	B.4
1927260150	SAIL-M8BG-4-1.5V	B.20
1927260150	SAIL-M8BG-4-1.5V	B.5
1927260300	SAIL-M8BG-4-3.0V	B.5
1927260500	SAIL-M8BG-4-5.0V	B.5
1927261000	SAIL-M8BG-4-10V	B.5
1927310150	SAIL-M8W-3-1.5V	B.20

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1938260150	SAIL-M86M12G-4-1.5V	B.6
1938260300	SAIL-M86M12G-4-3.0V	B.6
1938260500	SAIL-M86M12G-4-5.0V	B.6
1938261000	SAIL-M86M12G-4-10V	B.6
1938270150	SAIL-M86M12W-4-1.5V	B.7
1938270300	SAIL-M86M12W-4-3.0V	B.7
1938270500	SAIL-M86M12W-4-5.0V	B.7
1938271000	SAIL-M86M12W-4-10V	B.7
1938280150	SAIL-M8WM12W-4-1.5V	B.7
1938280300	SAIL-M8WM12W-4-3.0V	B.7
1938280500	SAIL-M8WM12W-4-5.0V	B.7
1938281000	SAIL-M8WM12W-4-10V	B.7
1938300000	SAI-SSA-PG7	C.62
1939170000	SAI-SCREWTY TOOL BOX	M.6
1939180000	SAI-SCREWTY BOX	M.6
1939370150	SAIV-M12BW-2/4-1.5U	B.13
1939410150	SAIV-M12BG-2/4-1.5U	B.13

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1944570000	SAISW-M-5/8 M12 B-COD	C.12
1944570000	SAISW-M-5/8 M12 B-COD	C.5
1944570000	SAISW-M-5/8 M12 B-COD	L.9
1944580000	SAIBW-M-5/8 M12 B-COD	C.12
1944580000	SAIBW-M-5/8 M12 B-COD	C.5
1944580000	SAIBW-M-5/8 M12 B-COD	L.9
1948470150	SAIL-M86GM8GR-3-1.5U	B.37
1948480150	SAIL-M86GM8WR-3-1.5U	B.37
1948490150	SAIL-M8WM8WR-3-1.5U	B.37
1948500150	SAIL-M86GM8GR-3-1.5U	B.37
1948510150	SAIL-M86GM8WR-4-1.5U	B.37
1948520150	SAIL-M8WM8WR-4-1.5U	B.37
1948530150	SAIL-M8BGR-4-1.5U	B.22
1948540150	SAIL-M8BWR-4-1.5U	B.22
1948550150	SAIL-M86GM8GR-3-1.5V	B.37
1948660150	SAIL-M86GM8WR-3-1.5V	B.37
1948670150	SAIL-M8WM8WR-3-1.5V	B.37
1948680150	SAIL-M86GM8GR-4-1.5V	B.37
1948690150	SAIL-M86GM8WR-4-1.5V	B.37
1948700150	SAIL-M8WM8WR-4-1.5V	B.37
1948710150	SAIL-M8BGR-3-1.5V	B.22
1948720150	SAIL-M8BWR-3-1.5V	B.22
1948730150	SAIL-M8BGR-4-1.5V	B.22
1948740150	SAIL-M8BWR-4-1.5V	B.22

1950000000

1950270000	SAIE-EW-M20/PG9-SW24-VA	L.29
1955340000	SAIEND CAN M8 4P	L.54

1960000000

1962290150	SAIL-M12GM8W-3L1.5V	B.34
1962300150	SAIL-M12GM8W-4L1.5V	B.34
1962610000	SAISW-5/7-(KV)	C.10
1962620000	SAISW-4/7-(KV)	C.10
1962630000	SAIBW-5/7-(KV)	C.10
1962800150	SAIL-M12BG-8-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-12-1.5U	B.14
1964690150	SAIL-M12BG-CD-1.5A	L.52
1964700150	SAIL-M12G-CD-1.5A	L.52
1964710150	SAIL-M12GM12G-CD-1.5A	L.53
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-M86GM8G-4S-0.3U	L.54
1981900100	SAIL-M86GM8G-4S-1.0U	L.54
1981900150	SAIL-M86GM8G-4S-1.5U	L.54
1981900300	SAIL-M86GM8G-4S-3.0U	L.54
1981900500	SAIL-M86GM8G-4S-5.0U	L.54
1981901000	SAIL-M86GM8G-4S-10U	L.54
1981901500	SAIL-M86GM8G-4S-15U	L.54
1981902000	SAIL-M86GM8G-4S-20U	L.54
1981910150	SAIL-M8BG-4S-1.5U	L.54
1981910300	SAIL-M8BG-4S-3.0U	L.54
1981910500	SAIL-M8BG-4S-5.0U	L.54
1981911000	SAIL-M8BG-4S-10U	L.54
1984530150	SAIL-M12GM8GR-3-1.5U	B.32

1990000000

1990540000	SAI-ADAPT-M8/M12 4P	C.42
1990550000	SAI-ADAPT-M12/M8 3P	C.42
1990560000	SAI-ADAPT-M12/M8 4P	C.42
1990570000	SAI-ADAPT-M8/M8 4/3P	C.42
1995800000	SAI-M23-GS-L-7/12	K.30

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1995810000	SAI-M23-BE-L-4/4	K.32
1995820000	SAI-M23-KBC-0.75/2.50	K.33
1995820000	SAI-M23-KBC-0.75/2.50	M.14
1995830000	SAI-M23-KBCLS-0.25-1.0	K.33
1995830000	SAI-M23-KBCLS-0.25-1.0	M.14
1995840000	SAI-M23-GS-7/12	K.12
1995850000	SAI-M23-BE-12	K.16
1995860000	SAI-M23-KBC-0.08/0.56	K.18
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.32

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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
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
2050080150	SAIL-M12WM12G-S3-1.5P	D.9
2050080300	SAIL-M12WM12G-S3-3.0P	D.9
2050080500	SAIL-M12WM12G-S3-5.0P	D.9
2050081000	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

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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
2050710000	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
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.33
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2120000000

2124610000	SAI-M23-SK-VA-IG	K.35
2124860000	SAI-M23-SK-VA-IG-FS	K.35
2125220000	SAI-M23-SK-VA-AG	K.35
2125950000	SAI-M23-SK-VA-AG-FS	K.35

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2330260000	SAI-SK-M12-UNI 2029	C.44
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2420000000

2421570000	SAIE-M8S-3H5.5TL	1.6
2421580000	SAIE-M8S-4H5.5TL	1.6
2421590000	SAIE-M8S-5B-H5.5TL	1.6
2421600000	SAIE-M12B-4-H5.5TL-M16	1.22
2421610000	SAIE-M8B-4-H5.5TL	1.6
2421620000	SAIE-M12B-5-H5.5TL-M16	1.22
2421630000	SAIE-M8B-5B-H5.5TL	1.6
2421640000	SAIE-M12B-8-H5.5TL-M16	1.22
2421650000	SAIE-M8B-8-H5.5TL	1.6
2421660000	SAIE-M12B-4-H12TL-M16	1.22
2421680000	SAIE-M12B-5-H12TL-M16	1.22
2421690000	SAIE-M8S-8-H5.5TL	1.6
2421700000	SAIE-M12SB-4-H5.5TL-PG9	1.25
2421710000	SAIE-M12B-8-H12TL-M16	1.22
2421720000	SAID-M8B-3-SMT	1.17
2421720000	SAID-M8B-3-SMT	1.4
2421730000	SAIE-M12SB-4-H12TL-PG9	1.25
2421740000	SAIE-M12S-4-H5.5TL-M16	1.22
2421750000	SAID-M8S-3-SMT	1.17
2421750000	SAID-M8S-3-SMT	1.4
2421760000	SAIE-M12B-8-F10TL	1.28
2421770000	SAIE-M12S-5-H5.5TL-M16	1.22
2421780000	SAID-M8B-3S-SMT	1.17
2421780000	SAID-M8B-3S-SMT	1.4
2421790000	SAIE-M12B-8S-F10TL	1.33
2421800000	SAIE-M12S-8-H5.5TL-M16	1.22
2421810000	SAID-M8S-3S-SMT	1.17
2421810000	SAID-M8S-3S-SMT	1.4
2421820000	SAIE-M12B-8-H10TL	1.28
2421830000	SAIE-M12S-4-H12TL-M16	1.22
2421840000	SAID-M8B-4-SMT	1.17
2421840000	SAID-M8B-4-SMT	1.4
2421850000	SAIE-M12B-8S-H10TL	1.33
2421860000	SAIE-M12S-5-H12TL-M16	1.22
2421870000	SAID-M8S-4-SMT	1.17
2421870000	SAID-M8S-4-SMT	1.4
2421880000	SAIE-M12B-4S-H6.75TL	1.26
2421890000	SAIE-M12S-8-H12TL-M16	1.22
2421900000	SAID-M8B-4S-SMT	1.17

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2422730000	SAIE-M12B-4S-H10TL	1.33
2422740000	SAIE-M8B-8S-F13SMT	1.16
2422750000	SAID-M12SB-4S-9SMT-TR	1.42
2422760000	SAIE-M12B-5-H10TL	1.28
2422770000	SAIE-M8B-8S-H10SMT	1.15
2422780000	SAID-M12SB-5S-9SMT	1.41
2422780000	SAID-M12SB-5S-9SMT	1.5
2422790000	SAIE-M12B-5S-H10TL	1.33
2422800000	SAIE-M8B-3-F9THR	1.10
2422810000	SAID-M12SB-5S-9SMT-TR	1.42
2422820000	SAIE-M12S-4-H10TL	1.28
2422830000	SAIE-M8B-3-F13THR	1.10
2422840000	SAID-M12BB-4S-9SMT	1.41
2422840000	SAID-M12BB-4S-9SMT	1.5
2422850000	SAIE-M12S-4S-H10TL	1.33
2422860000	SAIE-M8S-3-F9THR	1.10
2422870000	SAID-M12BB-4S-9SMT-TR	1.42
2422880000	SAIE-M12S-5-H10TL	1.28
2422890000	SAIE-M8S-3-F13THR	1.10
2422900000	SAID-M12BB-5S-9SMT	1.41
2422900000	SAID-M12BB-5S-9SMT	1.5
2422910000	SAIE-M12S-5S-H10TL	1.33
2422920000	SAIE-M8S-3S-F9THR	1.12
2422930000	SAID-M12BB-5S-9SMT-TR	1.42
2422940000	SAIE-M12B-4-F5.5TL	1.27
2422950000	SAIE-M8S-3S-F13THR	1.12
2422960000	SAID-M12BD-4S-9SMT	1.41
2422960000	SAID-M12BD-4S-9SMT	1.5
2422970000	SAIE-M12B-4S-F5.5TL	1.32
2422980000	SAIE-M8B-4-H6THR	1.11
2422990000	SAID-M12BD-4S-9SMT-TR	1.42
2423000000	SAIE-M12B-5-F5.5TL	1.27
2423010000	SAIE-M8B-4S-F9THR	1.12
2423020000	SAIE-M12B-4-13/14SMT	1.36
2423030000	SAIE-M12B-5S-F5.5TL	1.32
2423040000	SAIE-M8B-4S-F13THR	1.12
2423050000	SAIE-M12B-5-13/14SMT	1.36
2423060000	SAIE-M12S-4-F5.5TL	1.27
2423070000	SAIE-M8S-4-F9THR	1.10
2423080000	SAIE-M12B-8-13/14SMT	1.36
2423090000	SAIE-M12S-4S-F5.5TL	1.32
2423100000	SAIE-M8S-4-F13THR	1.12
2423110000	SAIE-M12B-4S-13/14SMT	1.37
2423120000	SAIE-M12S-5-F5.5TL	1.27
2423130000	SAIE-M8S-4-H6THR	1.11
2423140000	SAIE-M12B-5S-13/14SMT	1.37
2423150000	SAIE-M12S-5S-F5.5TL	1.32
2423160000	SAIE-M8S-4S-F9THR	1.12
2423170000	SAIE-M12B-8S-13/14SMT	1.37
2423180000	SAIE-M12B-4-H5.5TL	1.27
2423200000	SAIE-M12S-4-9/14SMT	1.36
2423210000	SAIE-M12B-4S-H5.5TL	1.32
2423220000	SAIE-M8S-4S-H10THR	1.11
2423230000	SAIE-M12S-5-9/14SMT	1.36
2423240000	SAIE-M12B-5-H5.5TL	1.27
2423250000	SAIE-M8B-5-F9THR	1.10
2423260000	SAIE-M12S-8-9/14SMT	1.36
2423270000	SAIE-M12B-5S-H5.5TL	1.32
2423280000	SAIE-M8B-5-F13THR	1.10
2423290000	SAIE-M12S-4S-9/14SMT	1.37
2423300000	SAIE-M12S-4-H5.5TL	1.27
2423310000	SAIE-M8B-8S-F9THR	1.12
2423320000	SAIE-M12S-5S-9/14SMT	1.37
2423330000	SAIE-M12S-4S-H5.5TL	1.32
2423340000	SAIE-M8B-8S-F13THR	1.12
2423350000	SAIE-M12S-8S-9/14SMT	1.37
2423360000	SAIE-M12S-5-H5.5TL	1.27
2423370000	SAIE-M8B-8S-H10THR	1.11
2423380000	SAID-M12B-8S-9SMT	1.39
2423380000	SAID-M12B-8S-9SMT	1.5
2423390000	SAIE-M12S-5S-H5.5TL	1.32
2423400000	SAIE-M8B-8S-H6TL	1.7
2423410000	SAID-M12B-8S-9SMT-TR	1.40
2423420000	SAIEW-M12B-4-HTL	1.29
2423430000	SAIE-M8S-3S-F9TL	1.8
2423440000	SAIE-M12B-8-9/14SMT	1.36
2423450000	SAIEW-M12B-4S-HTL	1.30
2423460000	SAIE-M8S-3S-F13TL	1.8
2423470000	SAIE-M12B-8S-9/14SMT	1.37
2423480000	SAIEW-M12B-5-HTL	1.29
2423490000	SAIE-M8S-3S-H6TL	1.7
2423500000	SAID-M12S-4S-9SMT	1.39
2423500000	SAID-M12S-4S-9SMT	1.5
2423510000	SAIEW-M12B-5S-HTL	1.30
2423520000	SAIE-M8S-3S-H10TL	1.7
2423530000	SAID-M12S-4S-9SMT-TR	1.40
2423540000	SAIEW-M12B-4-FTL	1.29
2423550000	SAIE-M8B-4S-F9TL	1.8
2423560000	SAID-M12S-5S-9SMT	1.39
2423570000	SAIEW-M12B-4S-FTL	1.30
2423580000	SAIE-M8B-4S-H10TL	1.7
2423590000	SAID-M12S-5S-9SMT-TR	1.40
2423600000	SAIEW-M12B-5-FTL	1.29
2423610000	SAIE-M8S-4S-H6TL	1.7
2423620000	SAID-M12S-8S-9SMT	1.39
2423620000	SAID-M12S-8S-9SMT	1.5
2423630000	SAIEW-M12B-5S-FTL	1.30
2423640000	SAIE-M8S-4S-H10TL	1.7
2423650000	SAID-M12S-8S-9SMT-TR	1.40

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2423660000	SAIEW-M12S-4-HTL	1.29
2423670000	SAIE-M8B-5S-F13TL	1.8
2423680000	SAIE-M12BB-4S-9/14SMT	1.38
2423690000	SAIEW-M12S-4S-HTL	1.30
2423700000	SAIE-M8B-5S-H6TL	1.7
2423710000	SAIE-M12BB-5S-9/14SMT	1.38
2423720000	SAIEW-M12S-5-HTL	1.29
2423730000	SAIE-M8B-8S-H10TL	1.7
2423740000	SAIE-M12BB-4S-13/14SMT	1.38
2423750000	SAIEW-M12S-5S-HTL	1.30
2423760000	SAID-M8B-3-THR	1.13
2423770000	SAIE-M12BB-5S-13/14SMT	1.38
2423780000	SAIEW-M12S-4-FTL	1.29
2423790000	SAID-M8S-3-THR	1.13
2423800000	SAIE-M12SB-4S-9SMT	1.38
2423810000	SAIEW-M12S-4S-FTL	1.30
2423820000	SAID-M8B-3S-THR	1.13
2423830000	SAIE-M12SB-5S-9SMT	1.38
2423840000	SAIEW-M12S-5-FTL	1.29
2423850000	SAID-M8S-3S-THR	1.13
2423860000	SAIE-M12BD-4S-9/14SMT	1.38
2423870000	SAIEW-M12S-5S-FTL	1.30
2423880000	SAID-M8B-4-THR	1.13
2423890000	SAIE-M12BD-4S-13/14SMT	1.38
2423900000	SAIE-M12BB-4-F10TL	1.35
2423910000	SAID-M8S-4-THR	1.13
2423920000	SAIFG-M14X1-B-1	1.45
2423920000	SAIFG-M14X1-B-1	1.5
2423930000	SAIE-M12BB-4-H10TL	1.34
2423940000	SAID-M8B-4S-THR	1.13
2423950000	SAIFG-M14X1-B-2	1.45
2423950000	SAIFG-M14X1-B-2	1.5
2423960000	SAIE-M12SB-4-F10TL	1.35
2423970000	SAID-M8S-4S-THR	1.13
2423980000	SAIFG-M14X1-S-1	1.44
2423980000	SAIFG-M14X1-S-1	1.5
2423990000	SAIE-M12SB-4-H10TL	1.34
2424000000	SAID-M8B-5-THR	1.13
2424010000	SAIE-KMM114X1-SW15	1.44
2424010000	SAIE-KMM114X1-SW15	1.5
2424020000	SAIE-M12BB-4-F5.5TL	1.35
2424030000	SAID-M8S-5-THR	1.13
2424040000	SAIE-M12S-4AS-H6.75TL	1.26
2424050000	SAIE-M12BB-4-H5.5TL	1.34
2424060000	SAID-M8B-5S-THR	1.13
2424070000	SAIE-M12S-5AS-H6.75TL	1.26
2424080000	SAIE-M12SB-4-F5.5TL	1.35
2424090000	SAID-M8S-5S-THR	1.13
2424100000	SAIE-M12S-4DS-H6.75TL	1.26
2424110000	SAIE-M12SB-4-H5.5TL	1.34
2424120000	SAIE-M12S-4BS-H6.75TL	1.26
2424130000	SAID-M8B-8-THR	1.13
2424140000	SAIE-M12BD-4-F10TL	1.35
2424150000	SAID-M8S-8-THR	1.13
2424160000	SAIE-M12S-5A-F-LK	1.46
2424170000	SAIE-M12BD-4-H10TL	1.34
2424180000	SAIE-M12S-4B-F-LK	1.46
2424190000	SAID-M8B-8S-THR	1.13
2424200000	SAIE-M12BD-4-F5.5TL	1.35
2424210000	SAIE-M12S-4A-H-LK	1.46
2424220000	SAID-M8S-8S-THR	1.13
2424230000	SAIE-M12BD-4-H5.5TL	1.34
2424240000	SAIE-M12S-5B-H-LK	1.46
2424250000	SAIEW-M8B-3S-H8TL	1.9
2424260000	SAIEW-M12BB-4-FTL	1.31
2424270000	SAIE-M12S-5A-FV-20-LK	1.47
2424280000	SAIEW-M8B-3S-H12TL	1.9
2424290000	SAIEW-M12BB-4-FTL	1.31
2424300000	SAIEW-M8S-3S-H8TL	1.9
2424310000	SAIE-M12S-4B-FV-20-LK	1.47
2424320000	SAIEW-M12SB-4-FTL	1.31
2424330000	SAIEW-M8S-3S-H12TL	1.9
2424340000	SAIE-M12S-4AFV-26-LK	1.47
2424350000	SAIEW-M12SB-4-HTL	1.31
2424360000	SAIEW-M8B-4S-H8TL	1.9
2424370000	SAIE-M12S-5A-FV-26-LK	1.47
2424380000	SAIEW-M12BD-4-FTL	1.31
2424390000	SAIEW-M8B-4S-H12TL	1.9
2424400000	SAIE-M12S-4B-FV-26-LK	1.47
2424410000	SAIEW-M12BD-4-HTL	1.31
2424420000	SAIEW-M8S-4S-H8TL	1.9
2424430000	SAIFG-M8B-M10-9	1.18
2424430000	SAIFG-M8B-M10-9	1.4
2424440000	SAIE-M12BD-4-H5.5TL-PG9	1.25
2424450000	SAIEW-M8S-4S-H12TL	1.9
2424460000	SAIFG-M8B-M10-13	1.18
2424460000	SAIFG-M8B-M10-13	1.4
2424470000	SAIE-M12BD-4-H12TL-PG9	1.25
2424480000	SAIHG-M8B-M12-6	1.20
2424480000	SAIHG-M8B-M12-6	1.4
2424490000	SAIE-M12BB-4-H5.5TL-PG9	1.25
2424500000	SAIHG-M8B-M12-10	1.20
2424500000	SAIHG-M8B-M12-10	1.4
2424510000	SAIE-M12BB-4-H12TL-PG9	1.25
2424520000	SAIFG-M8S-M10-9	1.19
2424520000	SAIFG-M8S-M10-9	1.4
2424530000	SAIFG-M8S-M10-13	1.19
2424530000	SAIFG-M8S-M10-13	1.4
2424540000	SAIHG-M8S-M12-6	1.21

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2424540000	SAIHG-M8S-M12-6	1.4
2424550000	SAIHG-M8S-M12-10	1.21
2424560000	SAIHG-M8S-M12-10	1.4
2424560000	SAIE-KMM110X1-SW12	1.19
2424560000	SAIE-KMM110X1-SW12	1.4
2424570000	SAIE-KMM112X1-SW14	1.21
2424570000	SAIE-KMM112X1-SW14	1.4
2426980000	SAI-TSK-M12	B.58
2427060000	SAI-WDF 5P M12 K	C.43
2429320000	SAI-TSK-M12-B0	B.58

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2436210000	WIL-LWXXXX-6500D024-	
2405XX0.3BM12GXXXX		G.4
2436340000	WIL-LRXXXX-WXXXD024-	
2405XX0.3BM12GXXXX		G.12
2436350000	WIL-LBXXXX-WXXXD024-	
2405XX0.3BM12GXXXX		G.13
2438500000	THM MMP ROLLER TB	M.23
2439350000	SAIH4-M12-T	D.27

2440000000

2448880000	RIBBON MM-HS 60/300 SW	M.23
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2450000000

2455040150	SAIL-M8G-5-1.5U	B.21
2455150150	SAIL-M12BG-K-1.5P	0.6
2455150300	SAIL-M12BG-K-3.0P	0.6
2455150500	SAIL-M12BG-K-5.0P	0.6
2455151000	SAIL-M12BG-K-10P	0.6
2455190150	SAIL-M12BW-K-1.5P	0.6
2455190300	SAIL-M12BW-K-3.0P	0.6
2455190500	SAIL-M12BW-K-5.0P	0.6
2455191000	SAIL-M12BW-K-10P	0.6
2455200150	SAIL-M12BW-L-1.5PGR	0.4
2455200300	SAIL-M12BW-L-3.0PGR	0.4
2455200500	SAIL-M12BW-L-5.0PGR	0.4
2455201050	SAIL-M12BW-L-10PGR	0.4
2455210150	SAIL-M12G-K-1.5P	0.6
2455210300	SAIL-M12G-K-3.0P	0.6
2455210500	SAIL-M12G-K-5.0P	0.6
2455211000	SAIL-M12G-K-10P	0.6
2455220150	SAIL-M12G-L-1.5PGR	0.4
2455220300	SAIL-M12G-L-3.0PGR	0.4
2455220500	SAIL-M12G-L-5.0PGR	0.4
2455221000	SAIL-M12G-L-10PGR	0.4
2455230150	SAIL-M12W-K-1.5P	0.6
2455230300	SAIL-M12W-K-3.0P	0.6
2455230500	SAIL-M12W-K-5.0P	0.6
2455231000	SAIL-M12W-K-10P	0.6
2455240150	SAIL-M12W-L-1.5PGR	0.4
2455240300	SAIL-M12W-L-3.0PGR	0.4
2455240500	SAIL-M12W-L-5.0PGR	0.4
2455241000	SAIL-M12W-L-10PGR	0.4
2455250150	SAIL-M12GM12G-K-1.5P	0.7
2455250300	SAIL-M12GM12G-K-3.0P	0.7
2455250500	SAIL-M12GM12G-K-5.0P	0.7
2455251000	SAIL-M12GM12G-K-10P	0.7
2455260150	SAIL-M12GM12G-L-1.5PGR	0.5
2455260300	SAIL-M12GM12G-L-3.0PGR	0.5
2455260500	SAIL-M12GM12G-L-5.0PGR	0.5
2455261000	SAIL-M12GM12G-L-10PGR	0.5
2455270150	SAIL-M12GM12W-K-1.5P	0.7
2455270300	SAIL-M12GM12W-K-3.0P	0.7
2455270500	SAIL-M12GM12W-K-5.0P	0.7
2455271000	SAIL-M12GM12W-K-10P	0.7
2455280150	SAIL-M12GM12W-L-1.5PGR	0.5
2455280300	SAIL-M12GM12W-L-3.0PGR	0.5
2455280500	SAIL-M12GM12W-L-5.0PGR	0.5
2455281000	SAIL-M12GM12W-L-10PGR	0.5
2455290150	SAIL-M12WM12W-K-1.5P	0.7
2455290300	SAIL-M12WM12W-K-3.0P	0.7
2455290500	SAIL-M12WM12W-K-5.0P	0.7
2455291000	SAIL-M12WM12W-K-10P	0.7
2455300150	SAIL-M12WM12W-L-1.5PGR	0.5
2455300300	SAIL-M12WM12W-L-3.0PGR	0.5
2455300500	SAIL-M12WM12W-L-5.0PGR	0.5
2455301000	SAIL-M12WM12W-L-10PGR	0.5
2455310150	SAIL-M12WM12G-K-1.5P	0.7
2455310300	SAIL-M12WM12G-K-3.0P	0.7
2455310500	SAIL-M12WM12G-K-5.0P	0.7
2455311000	SAIL-M12WM12G-K-10P	0.7
2455320150	SAIL-M12WM12G-L-1.5PGR	0.5
2455320300	SAIL-M12WM12G-L-3.0PGR	0.5
2455320500	SAIL-M12WM12G-L-5.0PGR	0.5
2455321000	SAIL-M12WM12G-L-10PGR	0.5
2455330150	SAIL-M12BG-L-1.5PGR	0.4
2455330300	SAIL-M12BG-L-3.0PGR	0.4
2455330500	SAIL-M12BG-L-5.0PGR	0.4
2455331000	SAIL-M12BG-L-10PGR	0.4
2457760000	THM MPP Case	M.23

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2531000000	SAI-M12L-KBC-0.75	D.19
2531010000	SAI-M12L-KBC-1.5	D.19
2531020000	SAISC-M-5S-M12-L-COD	D.18
2535770000	WIL-LWXXXX-6500D024-145SXX0.3BM12GXXXX	G.4
2535800000	WIL-LWXXXX-6500D024-145SXX5.0BXXXXXXX	G.4
2535810000	WIL-LWXXXX-6500D024-350SXX0.3BM12GXXXX	G.4
2535820000	WIL-LWXXXX-6500D024-350SXX5.0BXXXXXXX	G.4
2535830000	WIL-LWXXXX-6500D024-450SXX0.3BM12GXXXX	G.4
2535840000	WIL-LWXXXX-6500D024-450SXX5.0BXXXXXXX	G.4
2535850000	WIL-LWXXXX-6500D024-555SXX0.3BM12GXXXX	G.4
2535860000	WIL-LWXXXX-6500D024-555SXX5.0BXXXXXXX	G.4
2535870000	WIL-LWXXXX-6500D024-655SXX0.3BM12GXXXX	G.4
2535880000	WIL-LWXXXX-6500D024-655SXX5.0BXXXXXXX	G.4
2535890000	WIL-LWXXXX-6500D024-765SXX0.3BM12GXXXX	G.4
2535900000	WIL-LWXXXX-6500D024-765SXX5.0BXXXXXXX	G.4
2535910000	WIL-LWXXXX-6500D024-860SXX0.3BM12GXXXX	G.4
2535920000	WIL-LWXXXX-6500D024-860SXX5.0BXXXXXXX	G.4
2537700000	WIL-BM-SK-M12-3.0U	G.17
2537710000	WIL-BM-JP-M12-3.0U	G.18
2537720000	WIL-BM-SK	G.17
2537730000	WIL-TS-M12	G.19

2540000000

2544780000	SAIS-M-4S-IDC-M12-D-COD	C.32
2545170000	WIL-LWXXXX-6500D024-145MFX0.3BM12GXXXX	G.5
2548620000	WIL-LWXXXX-6500D012-240MFX5.0BCVPXXXXX	G.16

2550000000

2550850000	WIL-LWXXXX-2700D024-655SXX0.3BM12GXXXX	G.11
2552580000	IE-PP-RJ45	L.65

2570000000

2571480000	ERTE KLBC SPX 10	M.9
2571490000	ERTE KLBC SPX 16	M.9
2576960000	WIL-LWXXXX-6500D024-240SXX0.3BM12GM12G	G.4
2576970000	WIL-LBXXXX-WXXXD024-240SXX0.3BM12GM12G	G.13
2576980000	WIL-LRXXXX-WXXXD024-240SXX0.3BM12GM12G	G.12

2590000000

2598350000	WIL-NT-STANDARD	G.19
2598970000	SCREWTY SW12	M.5
2599430000	THM MULTIMARK	M.23

2610000000

2614220000	WIL-SCHWENKHALTER	G.20
2614400000	WIL-LWXXXX-5700D024-240SXX0.3BM12GXXXX	G.7
2616330000	WIL-LWXXXX-5700D024-350SXX0.3SM12GXXXX	G.7
2616350000	SAI-H4-M12-S	D.27
2616410000	SAI-H3-M12-S	D.27
2616420000	SAI-H3-M12-T	D.27
2616430000	SAI-T-M12-S	D.27
2616440000	SAI-T-M12-T	D.27
2616450000	SAI-H4-M12-L	D.28
2616460000	SAI-H4-M12-K	D.28
2616470000	SAI-H3-M12-L	D.28
2616480000	SAI-H3-M12-K	D.28
2616490000	SAI-T-M12-L	D.28
2616500000	SAI-T-M12-K	D.28
2617670500	SAIL-M12G-TS-5.0U	D.12
2617810000	WIL-LWXXXX-4000D024-240SXX0.3BM12GXXXX	G.10

2620000000

2625240000	WIL-LRYGXX-XXXXD024-240SXX0.3BM12GXXXX	G.14
2625940000	SAIE-M12BL-0.3VHM16-1.5	D.24
2625950000	SAIE-M12SL-0.3VHM16-1.5	D.24
2625960000	SAIE-M12SL-0.3VHM16-2.5	D.24
2625970000	SAIE-M12BL-0.3VHM16-2.5	D.24

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2633680000	WIL-LWXXXX-4000D024-350SXX0.3BM12GXXXX	G.10
2633830000	WIL-LWXXXX-2700D024-240SXX0.3BM12GXXXX	G.11
2633840000	WIL-LWXXXX-2700D024-450SXX0.3BM12GXXXX	G.11
2635090000	WIL-LRGBWX-XXXXD024-240SXX0.3BM12GXXXX	G.15

2660000000

2662450000	SAIEND 1/4 M8G 3P	F.5
2664780000	SAIBC-WDF-D-18/28-4/9CG	C.35
2664790000	SAISC-WDF-D-18/28-4/9CG	C.35
2664800000	SAIBC-5-18/28-4/9CG	C.34
2664810000	SAISC-D-18/28-4/9CG	C.35
2664830000	SAIBWC-5-18/28-4/9CG	C.34
2664840000	SAI-M12-KSC-18/20	C.36
2664850000	SAI-M12-KSC-20/22	C.36
2664860000	SAI-M12-KBC-18/20	C.36
2664870000	SAI-M12-KBC-20/22	C.36
2669230000	WIL-LWXXX-6500D024-145MFX1.5BM12GXXXX	G.5
2669240000	WIL-LWXXXX-6500D024-240MFX1.5BM12GXXXX	G.5

2670000000

2671670500	SAIL-M12BG-TS-5.0U	D.12
2672410000	SAISC-5-18/28-4/9CG	C.34
2672420000	SAIBC-D-18/28-4/9CG	C.35
2672430000	SAISWC-5-18/28-4/9CG	C.34
2673710000	SAI-M12-KSC-22/24	C.36
2673720000	SAI-M12-KSC-26/28	C.36
2673730000	SAI-M12-KBC-22/24	C.36
2673740000	SAI-M12-KBC-26/28	C.36

2680000000

2680950000	WIL-LWXXXX-2700D024-240SXX3.0BXXXXXXXXX	G.11
2681480000	SAISP-4A-4/8-M12	C.18
2681480000	SAISP-4A-4/8-M12	C.5
2681490000	SAISWP-4A-4/8-M12	C.18
2681490000	SAISWP-4A-4/8-M12	C.5
2681500000	SAIBP-4A-4/8-M12	C.18
2681500000	SAIBP-4A-4/8-M12	C.5
2681510000	SAIBWP-4A-4/8-M12	C.18
2681510000	SAIBWP-4A-4/8-M12	C.5
2681520000	SAISP-M-4A-4/8-M12	C.19
2681520000	SAISP-M-4A-4/8-M12	C.5
2681530000	SAISWP-M-4A-4/8-M12	C.19
2681530000	SAISWP-M-4A-4/8-M12	C.5
2681540000	SAIBP-M-4A-4/8-M12	C.19
2681540000	SAIBP-M-4A-4/8-M12	C.5
2681550000	SAIBWP-M-4A-4/8-M12	C.19
2681550000	SAIBWP-M-4A-4/8-M12	C.5
2681560000	SAISP-5A-4/8-M12	C.18
2681560000	SAISP-5A-4/8-M12	C.5
2681570000	SAISWP-5A-4/8-M12	C.18
2681570000	SAISWP-5A-4/8-M12	C.5
2681580000	SAIBP-5A-4/8-M12	C.19
2681580000	SAIBP-5A-4/8-M12	C.5
2681590000	SAIBWP-5A-4/8-M12	C.18
2681590000	SAIBWP-5A-4/8-M12	C.5
2681600000	SAISP-M-5A-4/8-M12	C.19
2681600000	SAISP-M-5A-4/8-M12	C.5
2681610000	SAISWP-M-5A-4/8-M12	C.19
2681610000	SAISWP-M-5A-4/8-M12	C.5
2681620000	SAIBP-M-5A-4/8-M12	C.19
2681620000	SAIBP-M-5A-4/8-M12	C.5
2681630000	SAIBWP-M-5A-4/8-M12	C.19
2681630000	SAIBWP-M-5A-4/8-M12	C.5
2681640000	SAISP-M-5B-4/8-M12	C.20
2681640000	SAISP-M-5B-4/8-M12	C.5
2681650000	SAISWP-M-5B-4/8-M12	C.20
2681650000	SAISWP-M-5B-4/8-M12	C.5
2681660000	SAIBP-M-5B-4/8-M12	C.20
2681660000	SAIBP-M-5B-4/8-M12	C.5
2681670000	SAIBWP-M-5B-4/8-M12	C.20
2681670000	SAIBWP-M-5B-4/8-M12	C.5
2681680000	SAISP-M-4D-4/8-M12	C.20
2681680000	SAISP-M-4D-4/8-M12	C.5
2681690000	SAISWP-M-4D-4/8-M12	C.20
2681690000	SAISWP-M-4D-4/8-M12	C.5
2681700000	SAIBP-M-4D-4/8-M12	C.20
2681700000	SAIBP-M-4D-4/8-M12	C.5
2681710000	SAIBWP-M-4D-4/8-M12	C.20
2681710000	SAIBWP-M-4D-4/8-M12	C.5

2690000000

2694370000	WIL-LWXXXX-4000D024-860SXX5.0BXXXXXXXXX	G.10
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2706670150	SAIL-M12BG-S3-1.5P	D.8
2706670300	SAIL-M12BG-S3-3.0P	D.8
2706670500	SAIL-M12BG-S3-5.0P	D.8
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

2710000000

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	THM MMP ROLLER SFM 3	M.23

2720000000

2726210000	SAI-MDC12AL1	M.13
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2730000000

2732860000	WIL-LWXXX-4000D024-555SXX0.3BM12GXXXX	G.10
2732910000	WIL-LWXXXX-4000D024-240SXX5.0BXXXXXXXXX	G.10
2732920000	WIL-LWXXXX-4000D024-350SXX5.0BXXXXXXXXX	G.10
2732940000	WIL-LWXXX-4000D024-555SXX5.0BXXXXXXXXX	G.10

2760000000

2762040000	WIL-LWXXXX-4000D024-145SXX0.3BM12GXXXX	G.10
2764890000	SAIH-SLL-3X1.0-16X0.5-100	B.80
2764900000	SAIH-SLL-3X1.0-16X0.5-500	B.80
2764930000	SAIH-SLL-3X0.75-8X0.34-100	B.79
2764940000	SAIH-SLL-3X0.75-8X0.34-500	B.79
2764950000	SAIH-SLL-3X0.75-16X0.34-100	B.79
2764960000	SAIH-SLL-3X0.75-16X0.34-500	B.79
2764970000	SAIH-SLL-5X0.75-16X0.34-100	B.80
2764980000	SAIH-SLL-5X0.75-16X0.34-500	B.80

2770000000

2770730000	WIL-LWXXX-4000D024-240SX10.0BXXXXXXXXX	G.10
2773240000	SAI JP FC SET-WG 100	H.11

2780000000

2783150000	SAIB-M4S-IDC-M12-D-COD	C.32
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2790000000

2793350000	WIL-LWXXX-4000D024-860SXX0.3BM12GXXXX	G.10
2793630000	WIL-LWXXX-5000D024-240SXX0.3BM12GXXXX	G.9
2796070000	WIL-LWXXXX-2700D024-860SXX0.3BM12GXXXX	G.11
2799050000	WIL-F-240	G.21

2810000000

2812410000	SAIB-WDF-M-4S-IDC-M12-D-COD	C.32
2812520150	SAIL-M12BG-4-1.5TOV	B.51
2812530150	SAIL-M12BW-4-3LR1.5TOV	B.52
2812540150	SAIL-M12BW-4-1.5TOV	B.51
2812550150	SAIL-M12G-4-1.5TOV	B.51
2812570150	SAIL-M12GM12G-4-3LR1.5TOV	B.54
2812600150	SAIL-M12GM12G-4-1.5TOV	B.53
2812610150	SAIL-M12GM12W-4-3LR1.5TOV	B.54
2812630150	SAIL-M12GM12W-4-1.5TOV	B.53
2812640150	SAIL-M12BG-5-1.5TOV	B.51
2812670150	SAIL-M12BW-5-3LR1.5TOV	B.52
2812680150	SAIL-M12BW-5-1.5TOV	B.51
2812690150	SAIL-M12G-5-1.5TOV	B.51
2812700150	SAIL-M12GM12G-5-1.5TOV	B.53
2812720150	SAIL-M12GM12W-5-3LR1.5TOV	B.54
2812730150	SAIL-M12GM12W-5-1.5TOV	B.53
2812750150	SAIL-M12BG-6-1.5TVY	B.51
2812780150	SAIL-M12BW-5-1.5TVY	B.51
2812800150	SAIL-M12GM12G-6-1.5TVY	B.53
2812820150	SAIL-M12GM12W-5-1.5TVY	B.53
2812840150	SAIL-M12GBG-3-1.5TOV	B.57
2812850150	SAIL-M12GBMW-3-1.5TOV	B.57
2812880150	SAIL-M8BG-3-1.5TOV	B.55
2812910150	SAIL-M8BW-3L-1.5TOV	B.56
2812940150	SAIL-M8BW-3-1.5TOV	B.55

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2812950150	SAIL-M12GM8W-3L-1.5TOV	B.56
2812960150	SAIL-M12GM8G-4-1.5TOV	B.57
2812970150	SAIL-M12GM8W-4-1.5TOV	B.57
2813030150	SAIL-M8BG-4-1.5TOV	B.55
2813040150	SAIL-M8BW-4-1.5TOV	B.55
2818930000	SAI-O4Z-VPPP-3A-MO8L-PNP	E.42
2818940000	SAI-O6Z-VPPP-3A-MO8L-PNP	E.42
2818950000	SAI-O8Z-VPPP-3A-MO8L-PNP	E.42
2818960000	SAI-10Z-VPPP-3A-MO8L-PNP	E.42
2818970000	SAI-O4Z-VPPP-4A-MO8L-PNP	E.42
2818980000	SAI-O6Z-VPPP-4A-MO8L-PNP	E.42
2818990000	SAI-O8Z-VPPP-4A-MO8L-PNP	E.42
2819000000	SAI-10Z-VPPP-4A-MO8L-PNP	E.42
2819010000	SAI-O4Z-VPUT-3A-MO8L-PNP	E.42
2819020000	SAI-O6Z-VPUT-3A-MO8L-PNP	E.42
2819030000	SAI-O8Z-VPUT-3A-MO8L-PNP	E.42
2819040000	SAI-10Z-VPUT-3A-MO8L-PNP	E.42
2819050000	SAI-O4Z-VPUT-4A-MO8L-PNP	E.42
2819060000	SAI-O6Z-VPUT-4A-MO8L-PNP	E.42
2819070000	SAI-O8Z-VPUT-4A-MO8L-PNP	E.42
2819080000	SAI-10Z-VPUT-4A-MO8L-PNP	E.42
2819090000	SAI-O4Z-MXPP-3A-MO8L-PNP-05U01	E.42
2819100000	SAI-O6Z-MXPP-3A-MO8L-PNP-05U01	E.42
2819110000	SAI-O8Z-MXPP-3A-MO8L-PNP-05U01	E.42
2819120000	SAI-10Z-MXPP-3A-MO8L-PNP-05U01	E.42
2819130000	SAI-O4Z-MXPP-3A-MO8L-PNP-10U01	E.42
2819140000	SAI-O6Z-MXPP-3A-MO8L-PNP-10U01	E.42
2819150000	SAI-O8Z-MXPP-3A-MO8L-PNP-10U01	E.42
2819160000	SAI-10Z-MXPP-3A-MO8L-PNP-10U01	E.42
2819170000	SAI-O4Z-MXPP-4A-MO8L-PNP-05U01	E.42
2819180000	SAI-O6Z-MXPP-4A-MO8L-PNP-05U01	E.42
2819190000	SAI-O8Z-MXPP-4A-MO8L-PNP-05U01	E.42
2819200000	SAI-10Z-MXPP-4A-MO8L-PNP-05U01	E.42
2819210000	SAI-O4Z-MXPP-4A-MO8L-PNP-10U01	E.42
2819220000	SAI-O6Z-MXPP-4A-MO8L-PNP-10U01	E.42
2819230000	SAI-O8Z-MXPP-4A-MO8L-PNP-10U01	E.42
2819240000	SAI-10Z-MXPP-4A-MO8L-PNP-10U01	E.42
2819250000	SAI-XXZ-MXPP-XX-MO8X-XXX	E.42
2819850000	SAI JP 4G LG K1	H.11

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2821180000	WIL-LWXXXX-5000D024-86DSXX3.0BXXXXXXXXXX	G.9
2821190000	WIL-LWXXXX-4000D024-145SXX3.0BXXXXXXXXXX	G.10
2821200000	WIL-LWXXXX-4000D024-45DSXX3.0BXXXXXXXXXX	G.10
2821210000	WIL-LWXXXX-4000D024-45DSXX3.0BXXXXXXXXXX	G.10
2821220000	WIL-LWXXXX-4000D024-65SXX0.3BM12GXXXX	G.10
2821230000	WIL-LWXXXX-4000D024-65SXX3.0BXXXXXXXXXX	G.10
2821240000	WIL-LWXXXX-4000D024-76SXX0.3BM12GXXXX	G.10
2821250000	WIL-LWXXXX-4000D024-76SXX3.0BXXXXXXXXXX	G.10
2821260000	WIL-LWXXXX-2700D024-145SXX0.3BM12GXXXX	G.11
2821270000	WIL-LWXXXX-2700D024-145SXX3.0BXXXXXXXXXX	G.11
2821280000	WIL-LWXXXX-2700D024-35DSXX0.3BM12GXXXX	G.11
2821290000	WIL-LWXXXX-2700D024-35DSXX3.0BXXXXXXXXXX	G.11
2821300000	WIL-LWXXXX-2700D024-45DSXX0.3BXXXXXXXXXX	G.11
2821310000	WIL-LWXXXX-2700D024-55SXX0.3BM12GXXXX	G.11
2821320000	WIL-LWXXXX-2700D024-55SXX3.0BXXXXXXXXXX	G.11
2821330000	WIL-LWXXXX-2700D024-65SXX3.0BXXXXXXXXXX	G.11
2821340000	WIL-LWXXXX-2700D024-76SXX0.3BM12GXXXX	G.11
2821350000	WIL-LWXXXX-2700D024-76SXX3.0BXXXXXXXXXX	G.11
2821360000	WIL-LWXXXX-2700D024-86DSXX3.0BXXXXXXXXXX	G.11

4290000000

4294820000	1/4" HANDGRIFF	M.5
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7910000000

7915030000	SAI-8F 5P 2M 0.5/1.0U	E.9
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8420000000

8425910000	POS-4P M12 PG13.5 300 MM	L.29
8425930000	POS-4P M12 M20 150MM	L.29
8425940000	POS-4P M12 M20 300MM	L.29
8425960000	SAI-SK-M12 BU	C.44
8426220000	FBCON M12 4P FM EMC	C.11
8426220000	FBCON M12 4P FM EMC	C.5
8426220000	FBCON M12 4P FM EMC	L.27

8550000000

8556460000	FBCON TERM.D EX FM	L.48
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8560000000

8564060000	FBCON PA CG/M12 1WAY	L.32
8564070000	FBCON PA CG/M12 2WAY	L.33
8564080000	FBCON PA CG/M12 4WAY	L.34
8564090000	FBCON PA CG 1WAY	L.32
8564100000	FBCON PA CG 2WAY	L.33
8564110000	FBCON PA CG 4WAY	L.34
8564150000	FBCON PA CG/M12 1WAY EX	L.44
8564160000	FBCON PA CG/M12 2WAY EX	L.45
8564170000	FBCON PA CG/M12 4WAY EX	L.46
8564180000	FBCON PA CG 1WAY EX	L.44
8564190000	FBCON PA CG 2WAY EX	L.45
8564200000	FBCON PA CG 4WAY EX	L.46
8564240000	FBCON PA CG 8WAY EX	L.47
8564250000	FBCON PA CG/M12 8WAY EX	L.47
8564290000	FBCON DP CG TERM 24V	L.20
8564300000	FBCON PA CG 8WAY	L.35
8564310000	FBCON PA CG/M12 8WAY	L.35
8564320000	FBCON DP M12 TERM 5V	L.20
8564330000	FBCON DP M12 TERM 24V	L.20
8564340000	FBCON DP CG 1WAY	L.19
8564350000	FBCON DP M12 1WAY	L.19

8600000000

8606180000	FBCON TERM.D EX FM/PEAN	L.48
8606190000	FBCON TERM.D EX	L.48
8606200000	FBCON TERM.D EX PEAN	L.48

8610000000

8613670000	FBCON SS PCG 1WAY	L.32
8613680000	FBCON SS PCG 4WAY	L.34

8700000000

8703430000	FBCON SS CG 1WAY	L.32
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Order No.	Type	Page
8703450000	FBCON SS CG 4WAY	L.34
8703470000	FBCON SS CG 8WAY	L.35

8710000000

8714160000	FBCON PA CG/M12 1WAY LIMITER	L.37
8714170000	FBCON PA CG/M12 2WAY LIMITER	L.38
8714180000	FBCON PA CG/M12 4WAY LIMITER	L.39
8714190000	FBCON PA CG/M12 8WAY LIMITER	L.40
8714200000	FBCON PA CG 1WAY LIMITER	L.37
8714210000	FBCON PA CG 2WAY LIMITER	L.38
8714220000	FBCON PA CG 4WAY LIMITER	L.39
8714230000	FBCON PA CG 8WAY LIMITER	L.40
8714240000	FBCON SS DP PCG TERM 24V	L.20
8714260000	FBCON SS DP PCG 1WAY	L.19
8715260000	FBCON SS PCG 4WAY LIMITER	L.39

8720000000

8726110000	FBCON SS PCG 1WAY LIMITER	L.37
8726160000	FBCON SS PCG 8WAY LIMITER	L.40

8770000000

8771420000	JPR 24VDC 1CD M12	H.3
8771430000	JPR 24VDC ISO 1CD M12	H.3
8771440000	JPTA 50MS 24VDC PNP M12	H.4
8778490000	JP CLIP M	H.9

8780000000

8788580000	RS PB-DP T SUB-D	L.21
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8790000000

8794080000	SAI JP 5P LG 100	H.10
8794090000	SAI JP 4P LG 100	H.10
8794120000	JP TEST	H.8

8800000000

8800040000	RS PB-DP T	L.21
8805550000	JPOVP RJ45 CAT6 IP20	H.7

8830000000

8836630000	JPTA100MS 24VDC PNP M12	H.4
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8850000000

8852350000	JPP NPN PNP 24VDC	H.5
8857030000	JPP PNP NPN 24VDC	H.5

9000000000

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
9002650000	KT 8	B.78
9002650000	KT 8	B.79
9002650000	KT 8	B.80
9002650000	KT 8	M.7
9002660000	KT 12	M.7
9005000000	STRIPAX	M.9
9005610000	STRIPAX 16	M.9

9010000000

9017330000	STRIPAX ZERT	M.9
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9030000000

9030060000	AM 12	B.69
9030060000	AM 12	B.70
9030060000	AM 12	B.71
9030060000	AM 12	B.72
9030060000	AM 12	B.73
9030060000	AM 12	B.74
9030060000	AM 12	B.75
9030060000	AM 12	B.76
9030060000	AM 12	B.77
9030060000	AM 12	B.78
9030060000	AM 12	B.79
9030060000	AM 12	B.80
9030060000	AM 12	L.65
9030060000	AM 12	L.69
9030060000	AM 12	M.8

9200000000

9202210000	MULTI-STRIPAX 6-16	M.11
9202250000	MULTI-STRIPAX ASI	M.11
9202260000	AIE MULTI-STRIPAX 6-16	M.11

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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.65
9204350000	IE-CST	L.69
9205760000	MULTI-STRIPAX GWK LW	M.11
9205770000	AIE MULTI-STRIPAX GWKLW	M.11

9450000000

9456400000	FBCON M12 4P M EMC	C.11
9456400000	FBCON M12 4P M EMC	C.5
9456400000	FBCON M12 4P M EMC	L.27
9456650000	POS-4P M12 PG13.5 150MM	L.29
9456600000	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.44
9456070150	SAIL-VSBD-1.5U	B.64
9456100150	SAIL-M12G-4-1.5U	B.11
9456100150	SAIL-M12G-4-1.5U	B.4
9456100300	SAIL-M12G-4-3.0U	B.4
9456100500	SAIL-M12G-4-5.0U	B.4
9456101000	SAIL-M12G-4-10U	B.4
9456140150	SAIL-M12BG-S5.1.5U	B.18
9456150150	SAIL-M8BW-4-1.5U	B.20
9456150150	SAIL-M8BW-4-1.5U	B.5
9456150300	SAIL-M8BW-4-3.0U	B.5
9456150500	SAIL-M8BW-4-5.0U	B.5
9456151000	SAIL-M8BW-4-10U	B.5
9456170150	SAIL-VSCD-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.27
9456190002	SAI-4-FMM-4P M12 5M	E.28
9456190002	SAI-4-FMM-4P M12 5M	E.6
9456200000	SAI-4-F 4P PUR 10M	E.6
9456200000	SAI-4-F 4P PUR 10M	E.9
9456200002	SAI-4-FMM-4P M12 10M	E.27
9456200002	SAI-4-FMM-4P M12 10M	E.28
9456200002	SAI-4-FMM-4P M12 10M	E.6
9456210000	SAI-4-F 4P PUR 15M	E.6
9456210000	SAI-4-F 4P PUR 15M	E.9
9456230000	SAI-4-F 4P PUR 20M	E.6
9456230000	SAI-4-F 4P PUR 20M	E.9
9456240150	SAIL-VSCD-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
9456380150	SAIL-M12BW-4-2L1.5U	B.16
9456380150	SAIL-M12BW-4-2L1.5U	B.8
9456380300	SAIL-M12BW-4-2L3.0U	B.8
9456380500	SAIL-M12BW-4-2L5.0U	B.8
9456381000	SAIL-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
9456490000	SAI-6-F 4P PUR 15M	E.6
9456490000	SAI-6-F 4P PUR 15M	E.9
9456500150	SAIL-M12WM12G-5-1.5U	B.7
9456500300	SAIL-M12WM12G-5-3.0U	B.7
9456500500	SAIL-M12WM12G-5-5.0U	B.7
9456501000	SAIL-M12WM12G-5-10U	B.7
9456510000	SAI-6-F 4P PUR 20M	E.6
9456510000	SAI-6-F 4P PUR 20M	E.9
9456560000	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
9456660150	SAIL-M12GM8G-4-1.5U	B.31
9456660150	SAIL-M12GM8G-4-1.5U	B.5
9456660300	SAIL-M12GM8G-4-3.0U	B.5
9456660500	SAIL-M12GM8G-4-5.0U	B.5
9456661000	SAIL-M12GM8G-4-10U	B.5
9456670150	SAIL-M12GM8W-4-1.5U	B.31
9456670150	SAIL-M12GM8W-4-1.5U	B.5
9456670300	SAIL-M12GM8W-4-3.0U	B.5
9456670500	SAIL-M12GM8W-4-5.0U	B.5
9456671000	SAIL-M12GM8W-4-10U	B.5
9456690150	SAIL-M12W-3-1.5U	B.11
9456690150	SAIL-M12W-3-1.5U	B.4
9456690300	SAIL-M12W-3-3.0U	B.4
9456690500	SAIL-M12W-3-5.0U	B.4

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9456691000	SAIL-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.27
9456750002	SAI-8-FMM-4P M12 5M	E.28
9456750002	SAI-8-FMM-4P M12 5M	E.6
9456760000	SAI-8-F 4P PUR 10M	E.6
9456760000	SAI-8-F 4P PUR 10M	E.9
9456760002	SAI-8-FMM-4P M12 10M	E.27
9456760002	SAI-8-FMM-4P M12 10M	E.28
9456760002	SAI-8-FMM-4P M12 10M	E.6

9456770000	SAI-8-F 4P PUR 15M	E.6
9456770000	SAI-8-F 4P PUR 15M	E.9
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
9456890000	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
9456890000	SAI-8-F 5P PUR 10M	E.9
9456910000	SAI-8-F 5P PUR 15M	E.6
9456910000	SAI-8-F 5P PUR 15M	E.9
9456930000	SAI-8-F 5P PUR 20M	E.6
9456930000	SAI-8-F 5P PUR 20M	E.9
9456940000	SAIS 5/7	C.5
9456940000	SAIS 5/7	C.6
9456950000	SAISW-5/7	C.8
9456950000	SAISW-5/7	C.8
9456990150	SAIL-M12G12M2G-2/4-1.5U	B.29
9457040000	SAIL-VSA-M12G1.5U	B.61
9457230150	SAIL-M12G12M12G-3-1.5U	B.27
9457230150	SAIL-M12G12M12G-3-1.5U	B.6
9457230300	SAIL-M12G12M12G-3-3.0U	B.6
9457230350	SAIL-M12G12M12G-3-3.0U	B.6
9457231000	SAIL-M12G12M12G-3-10U	B.6
9457240000	SAIB 4/7	C.5
9457240000	SAIB 4/7	C.7
9457250000	SAIB-5/7	C.5
9457250000	SAIB-5/7	C.8
9457260000	SAIBW-5/7	C.5
9457260000	SAIBW-5/7	C.8
9457270150	SAIL-M12G12M12W-5-1.5U	B.27
9457270150	SAIL-M12G12M12W-5-1.5U	B.7
9457270300	SAIL-M12G12M12W-5-3.0U	B.7
9457270500	SAIL-M12G12M12W-5-5.0U	B.7
9457271000	SAIL-M12G12M12W-5-10U	B.7
9457290000	SAISW-4/7	C.5
9457290000	SAISW-4/7	C.7
9457310150	SAIL-M12G12M12W-4-1.5U	B.27
9457310150	SAIL-M12G12M12W-4-1.5U	B.7
9457310300	SAIL-M12G12M12W-4-3.0U	B.7
9457310500	SAIL-M12G12M12W-4-5.0U	B.7
9457311000	SAIL-M12G12M12W-4-10U	B.7
9457320150	SAIL-M12BW-3-1.5U	B.11
9457320150	SAIL-M12BW-3-1.5U	B.7
9457320300	SAIL-M12BW-3-3.0U	B.7
9457320500	SAIL-M12BW-3-5.0U	B.7
9457321000	SAIL-M12BW-3-10U	B.7
9457340030	SAIL-M12G12M12G-5-0.3U	H.9
9457340060	SAIL-M12G12M12G-5-0.6U	H.9
9457340150	SAIL-M12G12M12G-5-1.5U	B.27
9457340150	SAIL-M12G12M12G-5-1.5U	B.7
9457340300	SAIL-M12G12M12G-5-3.0U	H.9
9457340300	SAIL-M12G12M12G-5-3.0U	B.7
9457340500	SAIL-M12G12M12G-5-5.0U	B.7
9457341000	SAIL-M12G12M12G-5-10U	B.7
9457380150	SAIL-M8BW-3-1.5U	B.20
9457380150	SAIL-M8BW-3-1.5U	B.5
9457380300	SAIL-M8BW-3-3.0U	B.5
9457380500	SAIL-M8BW-3-5.0U	B.5
9457381000	SAIL-M8BW-3-10U	B.5
9457390150	SAIL-M12G12M12W-3-1.5U	B.27
9457390150	SAIL-M12G12M12W-3-1.5U	B.7
9457390300	SAIL-M12G12M12W-3-3.0U	B.7
9457390500	SAIL-M12G12M12W-3-5.0U	B.7
9457391000	SAIL-M12G12M12W-3-10U	B.7
9457400150	SAIL-VSC-M12G1.5U	B.67
9457410150	SAIL-ZW-M8BW-3L1.5U	E.42
9457430000	SAI-8-F 5P PUR 10M	E.38
9457450150	SAIL-M8BG-3-1.5U	B.40
9457450150	SAIL-M8BG-3-1.5U	B.2
9457450300	SAIL-M8BG-3-3.0U	B.4
9457450500	SAIL-M8BG-3-5.0U	B.4
9457451000	SAIL-M8BG-3-10U	B.4
9457460150	SAIL-M8BW-3L1.5U	B.24
9457460150	SAIL-M8BW-3L1.5U	B.5
9457460300	SAIL-M8BW-3L3.0U	B.5
9457460500	SAIL-M8BW-3L5.0U	B.5
9457461000	SAIL-M8BW-3L10U	B.5
9457490150	SAIL-ZW-M8BG-3-1.5U	B.42
9457540000	SAIS-ZW-5	C.9
9457550000	SAIS 4/7	C.5
9457550000	SAIS 4/7	C.7
9457570150	SAIL-M12G12M8WR-3-1.5U	B.32
9457590000	SAI-8-F 5P 5M 0.5/1.0U	E.9
9457600000	SAI-8-F 5P 10M 0.5/1.0U	E.9
9457610150	SAIL-M12G-5-1.5U	B.11
9457610150	SAIL-M12G-5-1.5U	B.11

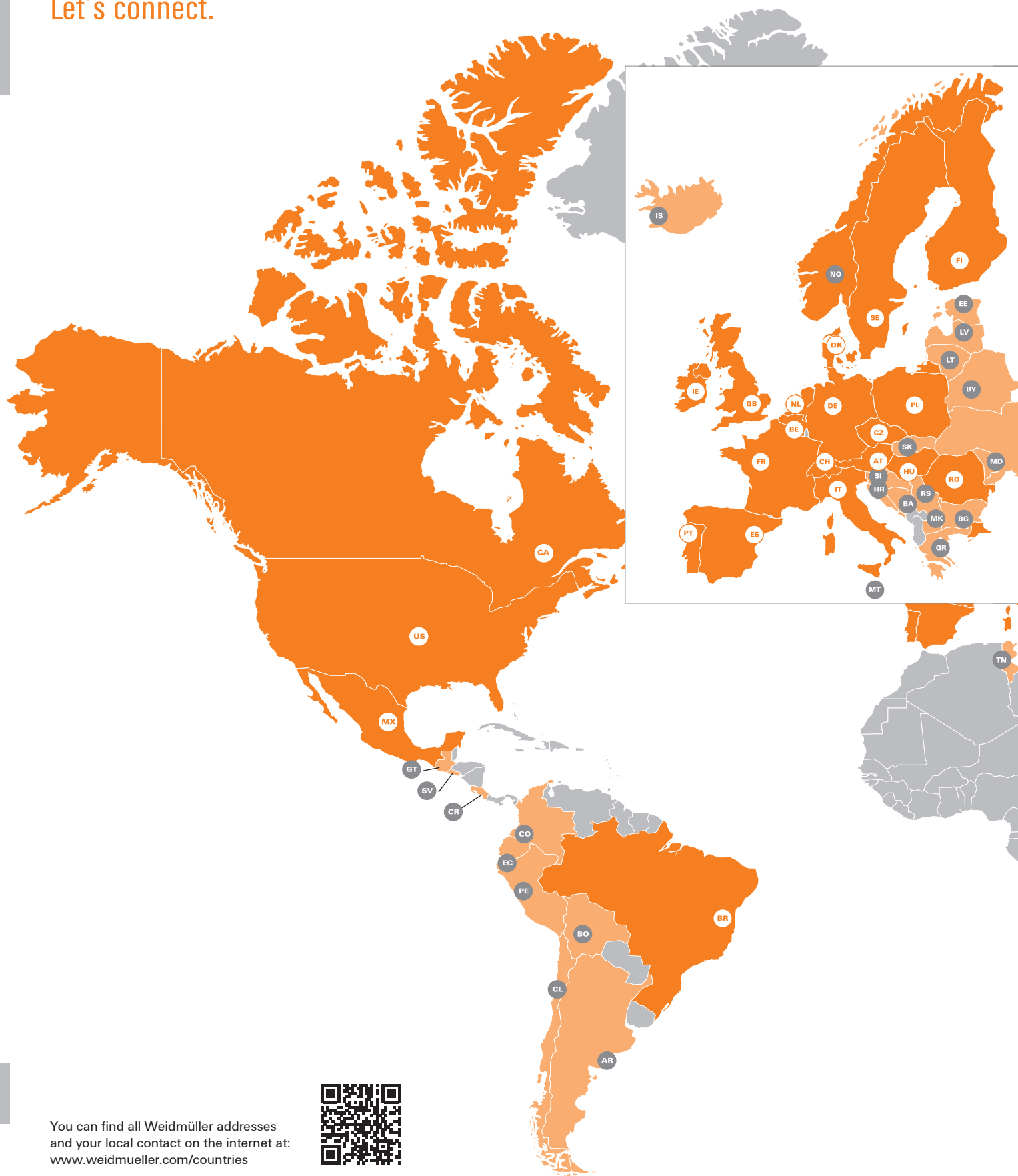
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9457610300	SAIL-M12G-5-3.0U	B.4
9457610500	SAIL-M12G-5-5.0U	B.4
9457611000	SAIL-M12G-5-10U	B.4
9457670150	SAIL-M12W-5-1.5U	B.11
9457670150	SAIL-M12W-5-1.5U	B.4
9457670300	SAIL-M12W-5-3.0U	B.4
9457670500	SAIL-M12W-5-5.0U	B.4
9457671000	SAIL-M12W-5-10U	B.4
9457680150	SAIL-VSB-M12G-1.5U	B.64
9457690150	SAIL-M12BW-5-1.5U	B.11
9457690150	SAIL-M12BW-5-1.5U	B.7
9457690300	SAIL-M12BW-5-3.0U	B.7
9457690500	SAIL-M12BW-5-5.0U	B.7
9457691000	SAIL-M12BW-5-10U	B.7
9457700000	SAIBW-4/7	C.5
9457700000	SAIBW-4/7	C.7
9457710150	SAIL-VSA-1.5U	B.61
9457720000	SAI-SA-340C	E.20
9457730150	SAIL-M12BG-4-1.5U	B.11
9457730150	SAIL-M12BG-4-1.5U	B.6
9457730300	SAIL-M12BG-4-3.0U	B.6
9457730500	SAIL-M12BG-4-5.0U	B.6
9457731000	SAIL-M12BG-4-10U	B.6
9457740150	SAIL-M12BW-4-1.5U	B.11
9457740150	SAIL-M12BW-4-1.5U	B.7
9457740300	SAIL-M12BW-4-3.0U	B.7
9457740500	SAIL-M12BW-4-5.0U	B.7
9457741000	SAIL-M12BW-4-10U	B.7
9457760150	SAIL-M12GM8W-3L1.5U	B.34
9457760150	SAIL-M12GM8W-3L1.5U	B.5
9457760300	SAIL-M12GM8W-3L3.0U	B.5
9457760500	SAIL-M12GM8W-3L5.0U	B.5
9457761000	SAIL-M12GM8W-3L10U	B.5
9457770150	SAIL-M12GM8G-3-1.5U	B.31
9457770150	SAIL-M12GM8G-3-1.5U	B.4
9457770300	SAIL-M12GM8G-3-3.0U	B.4
9457770500	SAIL-M12GM8G-3-5.0U	B.4
9457771000	SAIL-M12GM8G-3-10U	B.4
9457780150	SAIL-VSBD-M12G-1.5U	B.64
9457790150	SAIL-M12GM12W-3L1.5U	B.30
9457790150	SAIL-M12GM12W-3L1.5U	B.8
9457790300	SAIL-M12GM12W-3L3.0U	B.8
9457790500	SAIL-M12GM12W-3L5.0U	B.8
9457791000	SAIL-M12GM12W-3L10U	B.8
9457800150	SAIL-M12BW-3L1.5U	B.16
9457800150	SAIL-M12BW-3L1.5U	B.8
9457800300	SAIL-M12BW-3L3.0U	B.8
9457800500	SAIL-M12BW-3L5.0U	B.8
9457801000	SAIL-M12BW-3L10U	B.8
9457810150	SAIL-M12G-3-1.5U	B.11
9457810150	SAIL-M12G-3-1.5U	B.4
9457810300	SAIL-M12G-3-3.0U	B.4
9457810500	SAIL-M12G-3-5.0U	B.4
9457811000	SAIL-M12G-3-10U	B.4
9457820150	SAIL-M12BG-3-1.5U	B.11
9457820150	SAIL-M12BG-3-1.5U	B.6
9457820300	SAIL-M12BG-3-3.0U	B.6
9457820500	SAIL-M12BG-3-5.0U	B.6
9457821000	SAIL-M12BG-3-10U	B.6
9457850150	SAIL-M8BG-4-1.5U	B.20
9457850150	SAIL-M8BG-4-1.5U	B.5
9457850300	SAIL-M8BG-4-3.0U	B.5
9457850500	SAIL-M8BG-4-5.0U	B.5
9457851000	SAIL-M8BG-4-10U	B.5
9457890150	SAIL-M12GM12W-2/4-1.5U	B.29
9457900150	SAIL-M12WM12W-5-1.5U	B.27
9457900150	SAIL-M12WM12W-5-1.5U	B.7
9457900300	SAIL-M12WM12W-5-3.0U	B.7
9457900500	SAIL-M12WM12W-5-5.0U	B.7
9457901000	SAIL-M12WM12W-5-10U	B.7
9457910150	SAIL-M12BG-5-1.5U	B.11
9457910150	SAIL-M12BG-5-1.5U	B.7
9457910300	SAIL-M12BG-5-3.0U	B.7
9457910500	SAIL-M12BG-5-5.0U	B.7
9457911000	SAIL-M12BG-5-10U	B.7
9457920150	SAIL-VSC-1.5U	B.67
9457930150	SAIL-VSB-1.5U	B.64
9457950150	SAIV-M12BG-4-1.5U	B.13
9457960150	SAIV-M12BW-4-1.5U	B.13
9457980150	SAIL-M12GM8W-3-1.5U	B.31
9457980150	SAIL-M12GM8W-3-1.5U	B.5
9457980300	SAIL-M12GM8W-3-3.0U	B.5
9457980500	SAIL-M12GM8W-3-5.0U	B.5
9457981000	SAIL-M12GM8W-3-10U	B.5

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9918180000	STRIPAX 16 ZERT	M.9
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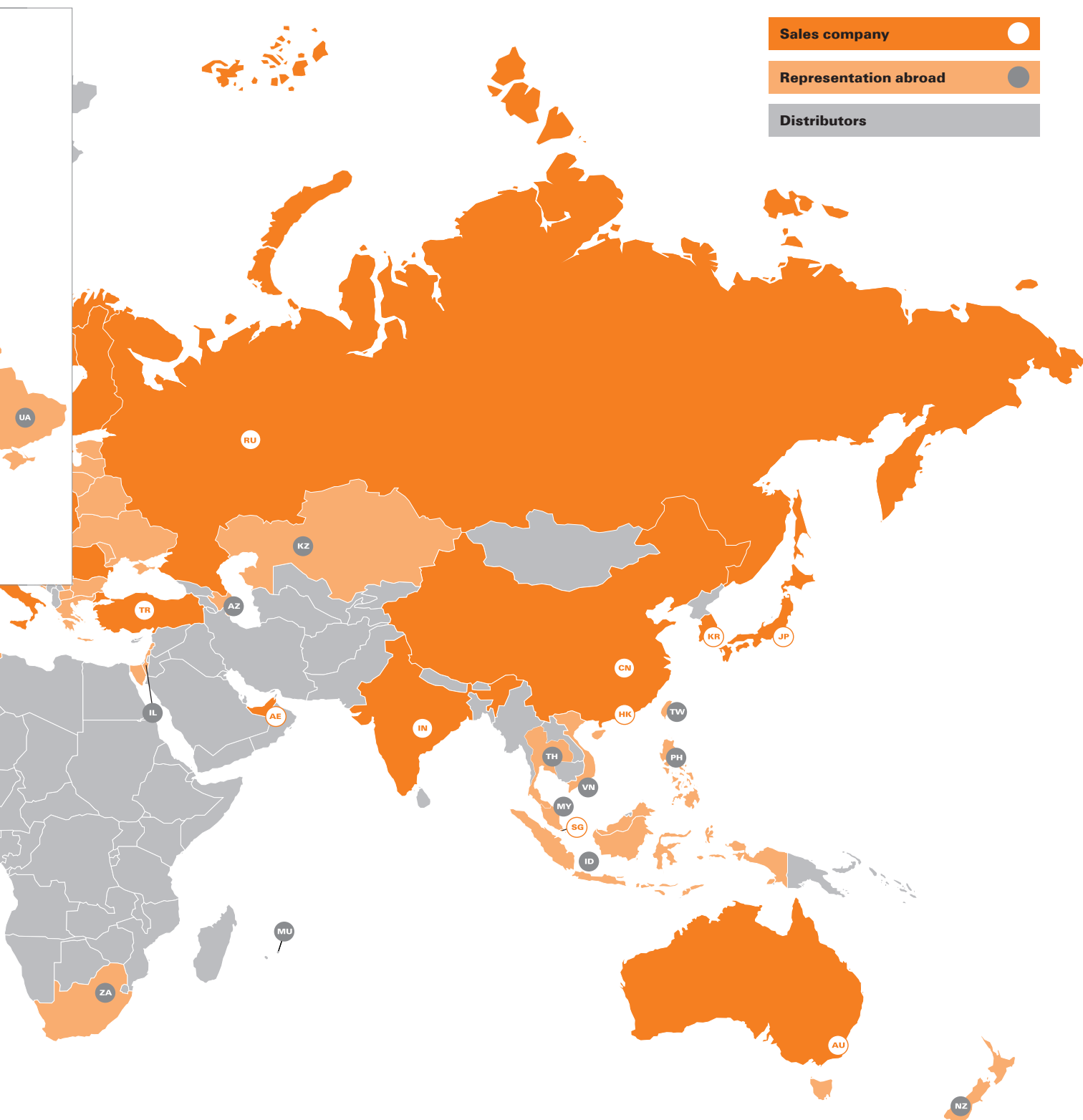
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