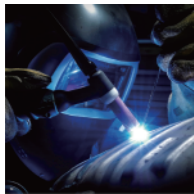
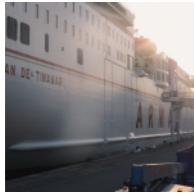


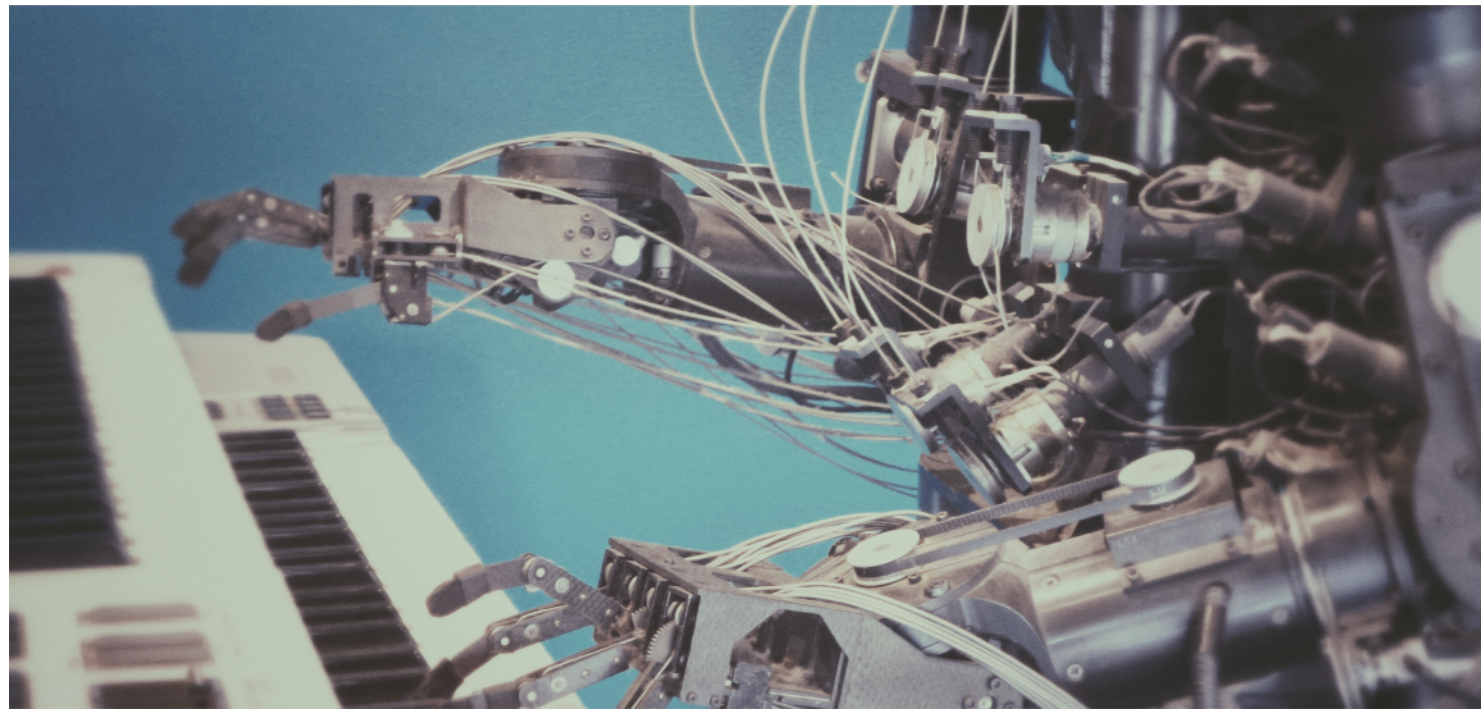
# Industrial circular connectors



## CONTENTS

Page

Overview.....	00-01
M8.....	01-01
Sensor/Actuator Cordsets .....	01-03
Sensor/Actuator Receptacles .....	02-01
Field Wireable Connectors .....	03-01
M12.....	04-01
Sensor/Actuator Cordsets .....	04-03
Sensor/Actuator Receptacles .....	05-01
Field Wireable Connectors .....	06-01
7/8" .....	07-01
Sensor/Actuator Cordsets .....	07-03
Sensor/Actuator Receptacles .....	08-01
Field Wireable Connectors .....	09-01
M23.....	10-01
Sensor/Actuator Cordsets .....	10-03
Sensor/Actuator Receptacles .....	11-01
Field Wireable Connectors .....	12-01
Splitters & Junction Boxes .....	13-01
Splitters .....	13-03
Junction Boxes .....	14-01
Cable range.....	15-01
Installation instructions.....	16-01



## PROFILE

INKONN is powered by a team of people who are experienced and constantly active in the field of Industrial Connector. Our team members have strong backgrounds in both manufacturing and development in Industrial Connector.

### - Sectors in which we operate

- Automation
- Railwayindustry
- Wind powerindustry
- Machinery industry

## MISSION

We are dedicated to provide our customers with the best solutions. Our close partnership with global industry leading companies enhance our service offering.

As your technical partener, we support our customers in advice on technical solutions and the design of tailor-made products by participating customer' s needs. We think from customers' perspective and do our utmost to solve their problems with our professional knowledge and skills.

Please note the following safety information:

- Never plug or unplug connectors under load or during operation.
- We can only guarantee the technical and electro-technical characteristics promised in this catalogue if all the components were supplied by Inkonn.

The following standards apply in the vicinity of circular connectors:

- DIN EN 60352 or IEC 60352:  
Solderless connections
- DIN EN 60529 or IEC 60529:  
Classes of protection provided by enclosures (IP code)
- DIN VDE 0870:  
Electromagnetic influence
- DIN EN 60999-1:  
Connecting devices, safety requirements for screw terminal connections and screwless terminal connections and screwless terminal connections for electrical copper conductors
- DIN 40050-9:  
Road vehicles; classes of protection (IP code)
- IEC61076-2-101:  
Connectors for electrical and electronic equipment - Product requirements - Part 2-101 :  
Circular connectors-Detail specification for circular connectors M8 with screw- or snap-locking,  
M12 with screw-locking for low voltage applications
- IEC61076-2-104:  
Connectors for electrical and electronic equipment - Product requirements - Part 2-104 :  
Circular connectors-Detail specification for circular connectors M8 with screw-locking or  
snap-locking

Type name for Sensor/Actuator Cordsets, Field Wireable Connectors, Sensor/Actuator Receptacles

M12A — S F 4 S — L5V

Type of connector:

- 'M8A' = M8 A-code
- 'M12A' = M12 A-code
- 'M12D' = M12 D-code
- '7/8' = 7/8"
- .....

Style of locking nut:

- ' ' = metal(zinc)
- 'S' = shielded
- 'V' = stainless steel
- 'P' = plastic
- .....

Gender/style of termination:

- 'F' = female
- 'M' = male
- 'FD' = female/dipsolder
- .....

Cable type:

- 'L5V' = length 5 meter/Type V
- 'D9' = diameter 7-9
- .....

Connector style:

- 'S' = staight
- 'A' = angled
- 'F' = front mounting
- 'R' = rear mounting
- .....

No. of poles:

- '4' = 4 pole
- '5' = 5 pole

Type name for Junction Boxes

M12JB - S8 - LED - PNP / 12.11-M23/H

Type of connector:

- 'M8JB' = M8 code Junction Boxes
- 'M12JB' = M12 code Junction Boxes
- .....

Signal/No. of Slots:

- 'S8' = Single signal per slot/8 slots
- 'D8' = Double signal per slot/8 slots
- .....

Signal type:

- ' ' = Without LED
- 'LED-PNP' = With LED/PNP
- 'LED-NPN' = With LED/NPN
- .....

Suitable Connector/Connection Type:

- '12.11-M23/H' = Suitable connector M23-F12S-LxV/  
M23 male-in horizontal
- '-L2V' = With Master-cable, cable length 2 meter, cable type V
- '-B' = With Plug-in connection
- .....

Type name for Splitters

M12Y — M 5 / 2 F 5

Type of connector:

- 'M8A' = M8 A-code
- 'M12A' = M12 A-code
- 'M12D' = M12 D-code
- '7/8' = 7/8"
- .....

Gender of one connector/

- No. of poles:
- 'F5' = female/5 pole
  - 'M5' = male/5 pole
  - .....

Gender of other 2 connectors/

- No. of poles:
- 'F5' = female/5 pole
  - 'M5' = male/5 pole
  - .....

Type name for Assembled cables

M12D - SM4S / SM4S- L2V

Type of connector:

- 'M8A' = M8 A-code
- 'M12A' = M12 A-code
- 'M12D' = M12 D-code
- '7/8' = 7/8"
- .....

Type of 1. connector:

- Shielded or unshielded/Gender/No. of poles/Straight or angled:
- 'SM4S' = Shielded/male/4 pole/straight
  - 'M5A' = Unshielded/male/5 pole/angled
  - .....

Cable type:

- 'L2V' = length 2 meter/Type V
- 'L5SV' = length 5 meter/Type SV
- .....

Type of 2. connector:

- Shielded or unshielded/Gender/No. of poles/Straight or angled:
- 'SM4S' = Shielded/male/4 pole/straight
  - 'M5A' = Unshielded/male/5 pole/angled
  - .....

# M8

## Contents

## Pages


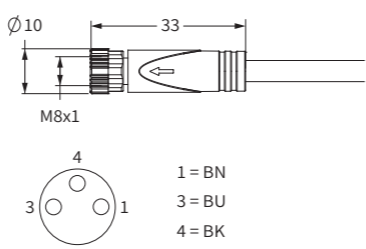

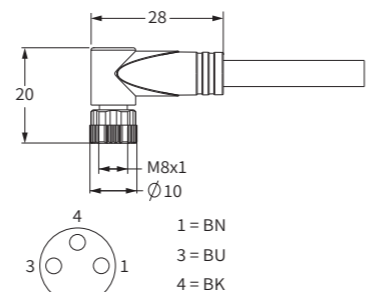

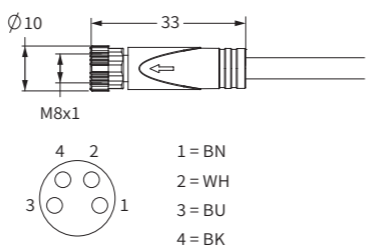

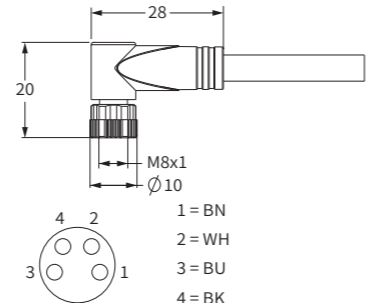
M8.....	01-01
Sensor/Actuator Cordsets .....	01-03
Sensor/Actuator Receptacles .....	02-01
Field Wireable Connectors .....	03-01

Technical characteristics


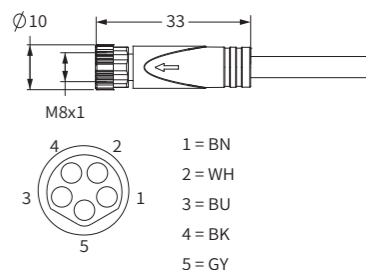

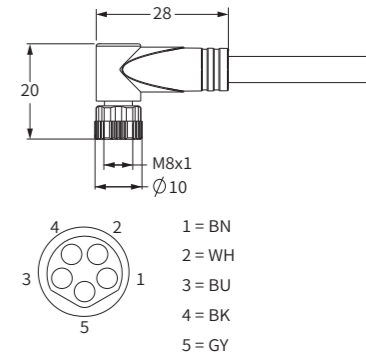
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 3	Tightening torque	0.2 Nm
Rated voltage	[V] 60	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Cable description	PVC-black
Rated current	[A] 3	Tightening torque	0.2 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, female,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-F3S-L2V	11 02 003 1200	 <p>1 = BN 3 = BU 4 = BK</p>
	5 m	M8A-F3S-L5V	11 02 003 1201	
	10 m	M8A-F3S-L10V	11 02 003 1202	
<b>3-pole, angled, female,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-F3A-L2V	11 02 003 0200	 <p>1 = BN 3 = BU 4 = BK</p>
	5 m	M8A-F3A-L5V	11 02 003 0201	
	10 m	M8A-F3A-L10V	11 02 003 0202	
<b>4-pole, straight, female,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-F4S-L2V	11 02 004 1200	 <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M8A-F4S-L5V	11 02 004 1201	
	10 m	M8A-F4S-L10V	11 02 004 1202	
<b>4-pole, angled, female,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-F4A-L2V	11 02 004 0200	 <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M8A-F4A-L5V	11 02 004 0201	
	10 m	M8A-F4A-L10V	11 02 004 0202	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole, straight, female,</b> M8 B-code, cable type: V, Anti-vibration 	2 m	M8B-F5S-L2V	11 07 005 1200	 <p>1 = BN 2 = WH 3 = BU 4 = BK 5 = GY</p>
	5 m	M8B-F5S-L5V	11 07 005 1201	
	10 m	M8B-F5S-L10V	11 07 005 1202	
<b>5-pole, angled, female,</b> M8 B-code, cable type: V, Anti-vibration 	2 m	M8B-F5A-L2V	11 07 005 0200	 <p>1 = BN 2 = WH 3 = BU 4 = BK 5 = GY</p>
	5 m	M8B-F5A-L5V	11 07 005 0201	
	10 m	M8B-F5A-L10V	11 07 005 0202	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Sensor/Actuator Cordsets, 6 and 8-poles, female, Anti-vibration


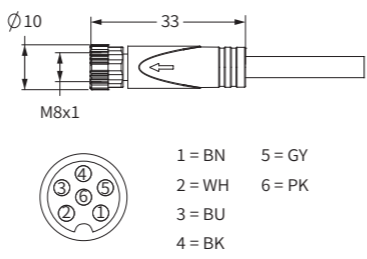

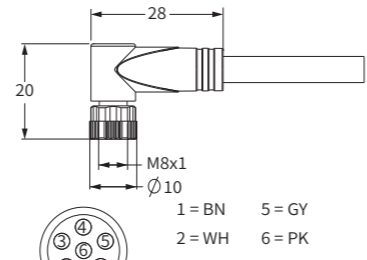

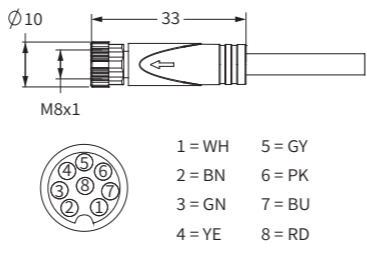

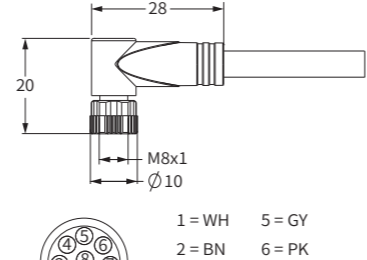
Sensor/Actuator Cordsets with LED, 3 and 4-poles, female, Anti-vibration

Technical characteristics


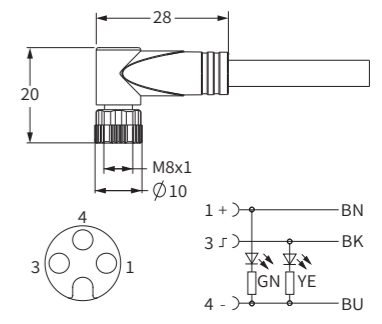

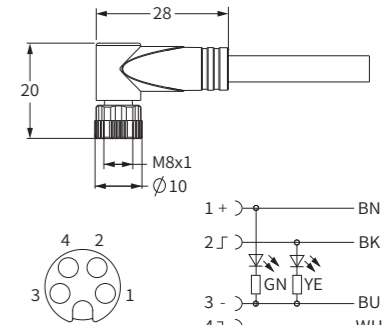
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.2 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 3	Tightening torque	0.2 Nm
Rated voltage	[V] 60	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-transparent	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole, straight, female,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-F6S-L2V	11 02 006 1200	 <p>1 = BN 5 = GY 2 = WH 6 = PK 3 = BU 4 = BK</p>
	5 m	M8A-F6S-L5V	11 02 006 1201	
	10 m	M8A-F6S-L10V	11 02 006 1202	
<b>6-pole, angled, female,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-F6A-L2V	11 02 006 0200	 <p>1 = BN 5 = GY 2 = WH 6 = PK 3 = BU 4 = BK</p>
	5 m	M8A-F6A-L5V	11 02 006 0201	
	10 m	M8A-F6A-L10V	11 02 006 0202	
<b>8-pole, straight, female,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-F8S-L2V	11 02 008 1200	 <p>1 = WH 5 = GY 2 = BN 6 = PK 3 = GN 7 = BU 4 = YE 8 = RD</p>
	5 m	M8A-F8S-L5V	11 02 008 1201	
	10 m	M8A-F8S-L10V	11 02 008 1202	
<b>8-pole, angled, female,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-F8A-L2V	11 02 008 0200	 <p>1 = WH 5 = GY 2 = BN 6 = PK 3 = GN 7 = BU 4 = YE 8 = RD</p>
	5 m	M8A-F8A-L5V	11 02 008 0201	
	10 m	M8A-F8A-L10V	11 02 008 0202	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, angled, female,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-F3A-L2V-LED	11 02 003 0210	 <p>1 + - BN 3 r - BK GN YE 4 - BU</p>
	5 m	M8A-F3A-L5V-LED	11 02 003 0211	
	10 m	M8A-F3A-L10V-LED	11 02 003 0212	
<b>4-pole, angled, female,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-F4A-L2V-LED	11 02 004 0210	 <p>1 + - BN 2 r - BK GN YE 3 - BU 4 l - WH</p>
	5 m	M8A-F4A-L5V-LED	11 02 004 0211	
	10 m	M8A-F4A-L10V-LED	11 02 004 0212	


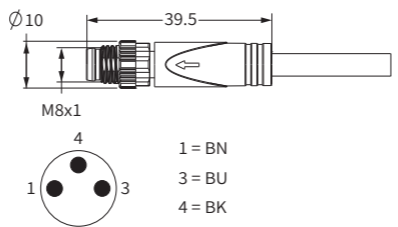

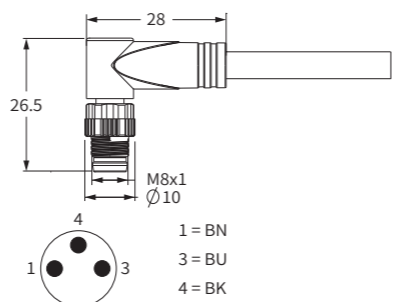

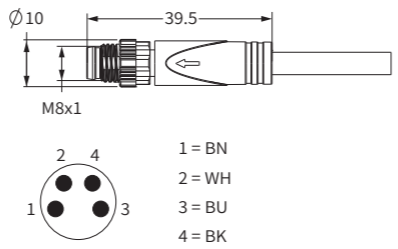

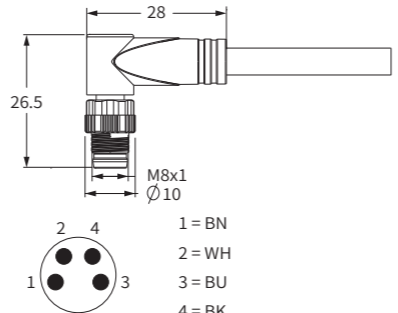
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics


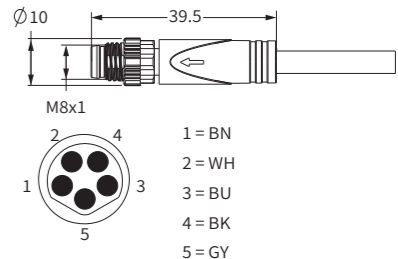

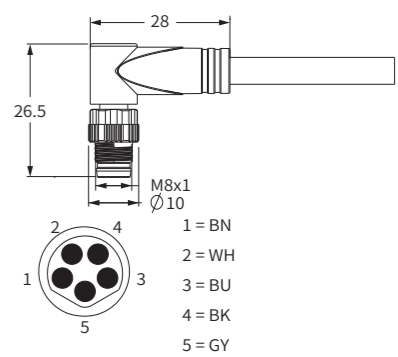
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 3	Tightening torque	0.2 Nm
Rated voltage	[V] 60	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Cable description	PVC-black
Rated current	[A] 3	Tightening torque	0.2 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, male,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-M3S-L2V	11 02 003 1100	 <p>Ø10 39.5</p> <p>M8x1</p> <p>4</p> <p>1 = BN 3 = BU 4 = BK</p>
	5 m	M8A-M3S-L5V	11 02 003 1101	
	10 m	M8A-M3S-L10V	11 02 003 1102	
<b>3-pole, angled, male,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-M3A-L2V	11 02 003 0100	 <p>28</p> <p>26.5</p> <p>M8x1</p> <p>Ø10</p> <p>4</p> <p>1 = BN 3 = BU 4 = BK</p>
	5 m	M8A-M3A-L5V	11 02 003 0101	
	10 m	M8A-M3A-L10V	11 02 003 0102	
<b>4-pole, straight, male,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-M4S-L2V	11 02 004 1100	 <p>Ø10 39.5</p> <p>M8x1</p> <p>2 4</p> <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M8A-M4S-L5V	11 02 004 1101	
	10 m	M8A-M4S-L10V	11 02 004 1102	
<b>4-pole, angled, male,</b> M8 A-code, cable type: V, Anti-vibration 	2 m	M8A-M4A-L2V	11 02 004 0100	 <p>28</p> <p>26.5</p> <p>M8x1</p> <p>Ø10</p> <p>2 4</p> <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M8A-M4A-L5V	11 02 004 0101	
	10 m	M8A-M4A-L10V	11 02 004 0102	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole, straight, male,</b> M8 B-code, cable type: V, Anti-vibration 	2 m	M8B-M5S-L2V	11 07 005 1100	 <p>Ø10 39.5</p> <p>M8x1</p> <p>2 4</p> <p>1 = BN 2 = WH 3 = BU 4 = BK 5 = GY</p>
	5 m	M8B-M5S-L5V	11 07 005 1101	
	10 m	M8B-M5S-L10V	11 07 005 1102	
<b>5-pole, angled, male,</b> M8 B-code, cable type: V, Anti-vibration 	2 m	M8B-M5A-L2V	11 07 005 0100	 <p>28</p> <p>26.5</p> <p>M8x1</p> <p>Ø10</p> <p>2 4</p> <p>1 = BN 2 = WH 3 = BU 4 = BK 5 = GY</p>
	5 m	M8B-M5A-L5V	11 07 005 0101	
	10 m	M8B-M5A-L10V	11 07 005 0102	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.





Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.2 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 3	Tightening torque	0.2 Nm
Rated voltage	[V] 60	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
6-pole, straight, male, M8 A-code, cable type: V, Anti-vibration	2 m	M8A-M6S-L2V	11 02 006 1100	
	5 m	M8A-M6S-L5V	11 02 006 1101	
	10 m	M8A-M6S-L10V	11 02 006 1102	
6-pole, angled, male, M8 A-code, cable type: V, Anti-vibration	2 m	M8A-M6A-L2V	11 02 006 0100	
	5 m	M8A-M6A-L5V	11 02 006 0101	
	10 m	M8A-M6A-L10V	11 02 006 0102	
8-pole, straight, male, M8 A-code, cable type: V, Anti-vibration	2 m	M8A-M8S-L2V	11 02 008 1100	
	5 m	M8A-M8S-L5V	11 02 008 1101	
	10 m	M8A-M8S-L10V	11 02 008 1102	
8-pole, angled, male, M8 A-code, cable type: V, Anti-vibration	2 m	M8A-M8A-L2V	11 02 008 0100	
	5 m	M8A-M8A-L5V	11 02 008 0101	
	10 m	M8A-M8A-L10V	11 02 008 0102	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
3-pole, straight, female, M8 A-code, cable type: SV, Anti-vibration	2 m	M8A-SF3S-L2SV	11 02 103 1200	
	5 m	M8A-SF3S-L5SV	11 02 103 1201	
	10 m	M8A-SF3S-L10SV	11 02 103 1202	
3-pole, angled, female, M8 A-code, cable type: SV, Anti-vibration	2 m	M8A-SF3A-L2SV	11 02 103 0200	
	5 m	M8A-SF3A-L5SV	11 02 103 0201	
	10 m	M8A-SF3A-L10SV	11 02 103 0202	
4-pole, straight, female, M8 A-code, cable type: SV, Anti-vibration	2 m	M8A-SF4S-L2SV	11 02 104 1200	
	5 m	M8A-SF4S-L5SV	11 02 104 1201	
	10 m	M8A-SF4S-L10SV	11 02 104 1202	
4-pole, angled, female, M8 A-code, cable type: SV, Anti-vibration	2 m	M8A-SF4A-L2SV	11 02 104 0200	
	5 m	M8A-SF4A-L5SV	11 02 104 0201	
	10 m	M8A-SF4A-L10SV	11 02 104 0202	


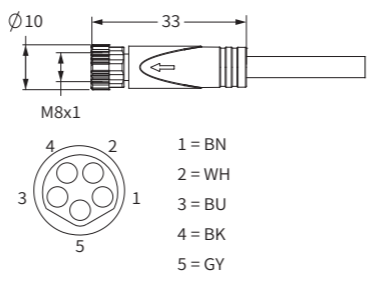

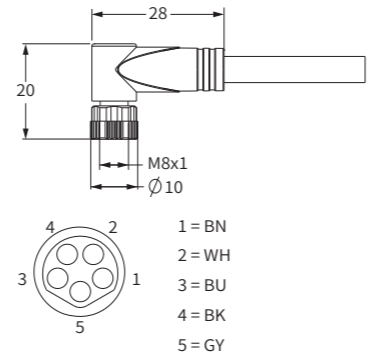
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.


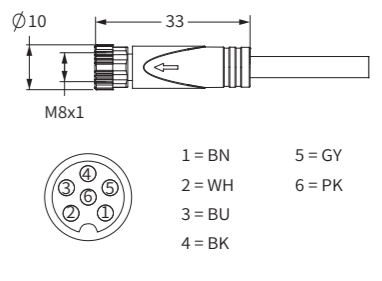

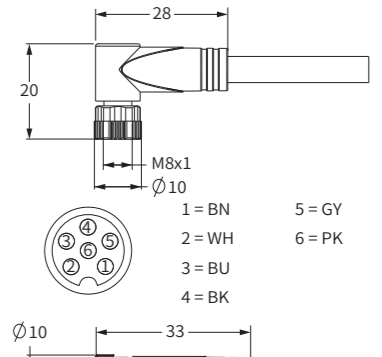

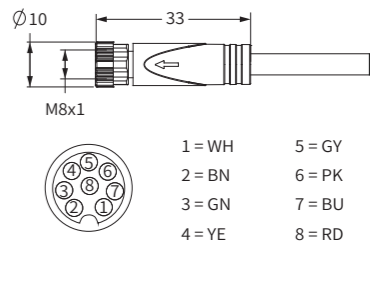

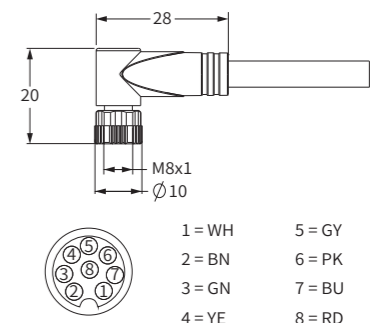
Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Cable description	PVC-black
Rated current	[A] 3	Tightening torque	0.2 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.2 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole, straight, female,</b> M8 B-code, cable type: SV, Anti-vibration 	2 m	M8B-SF5S-L2SV	11 07 105 1200	 <p>1 = BN 2 = WH 3 = BU 4 = BK 5 = GY</p>
	5 m	M8B-SF5S-L5SV	11 07 105 1201	
	10 m	M8B-SF5S-L10SV	11 07 105 1202	
<b>5-pole, angled, female,</b> M8 B-code, cable type: SV, Anti-vibration 	2 m	M8B-SF5A-L2SV	11 07 105 0200	 <p>1 = BN 2 = WH 3 = BU 4 = BK 5 = GY</p>
	5 m	M8B-SF5A-L5SV	11 07 105 0201	
	10 m	M8B-SF5A-L10SV	11 07 105 0202	

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole, straight, female,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-SF6S-L2SV	11 02 106 1200	 <p>1 = BN    5 = GY 2 = WH    6 = PK 3 = BU 4 = BK</p>
	5 m	M8A-SF6S-L5SV	11 02 106 1201	
	10 m	M8A-SF6S-L10SV	11 02 106 1202	
<b>6-pole, angled, female,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-SF6A-L2SV	11 02 106 0200	 <p>1 = BN    5 = GY 2 = WH    6 = PK 3 = BU 4 = BK</p>
	5 m	M8A-SF6A-L5SV	11 02 106 0201	
	10 m	M8A-SF6A-L10SV	11 02 106 0202	
<b>8-pole, straight, female,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-SF8S-L2SV	11 02 108 1200	 <p>1 = WH    5 = GY 2 = BN    6 = PK 3 = GN    7 = BU 4 = YE    8 = RD</p>
	5 m	M8A-SF8S-L5SV	11 02 108 1201	
	10 m	M8A-SF8S-L10SV	11 02 108 1202	
<b>8-pole, angled, female,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-SF8A-L2SV	11 02 108 0200	 <p>1 = WH    5 = GY 2 = BN    6 = PK 3 = GN    7 = BU 4 = YE    8 = RD</p>
	5 m	M8A-SF8A-L5SV	11 02 108 0201	
	10 m	M8A-SF8A-L10SV	11 02 108 0202	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.


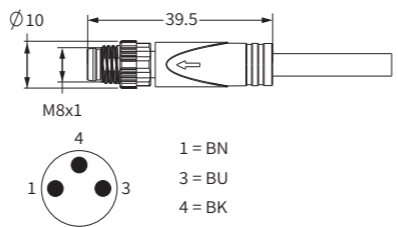

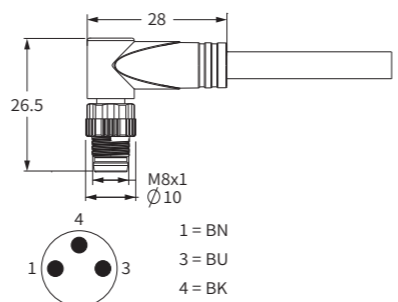

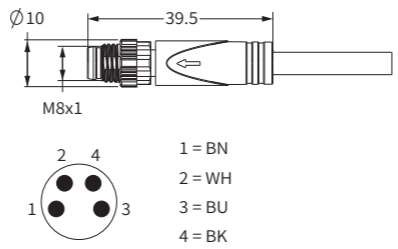

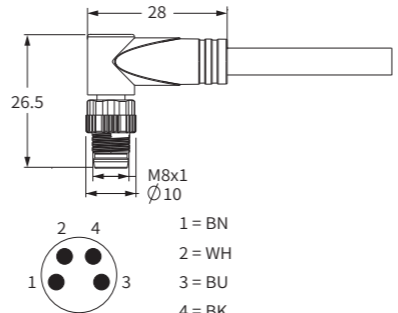
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics


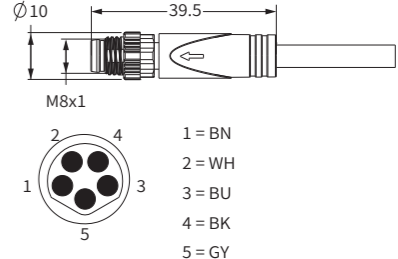

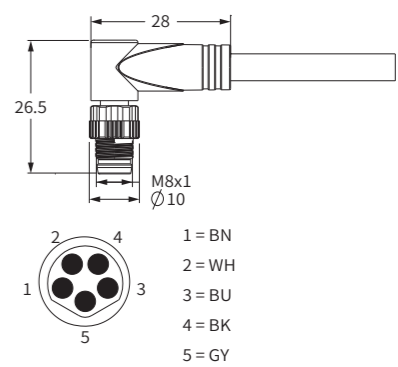
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 3	Tightening torque	0.2 Nm
Rated voltage	[V] 60	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Cable description	PVC-black
Rated current	[A] 3	Tightening torque	0.2 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, male,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-SM3S-L2SV	11 02 103 1100	 <p>1 = BN 3 = BU 4 = BK</p>
	5 m	M8A-SM3S-L5SV	11 02 103 1101	
	10 m	M8A-SM3S-L10SV	11 02 103 1102	
<b>3-pole, angled, male,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-SM3A-L2SV	11 02 103 0100	 <p>1 = BN 3 = BU 4 = BK</p>
	5 m	M8A-SM3A-L5SV	11 02 103 0101	
	10 m	M8A-SM3A-L10SV	11 02 103 0102	
<b>4-pole, straight, male,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-SM4S-L2SV	11 02 104 1100	 <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M8A-SM4S-L5SV	11 02 104 1101	
	10 m	M8A-SM4S-L10SV	11 02 104 1102	
<b>4-pole, angled, male,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-SM4A-L2SV	11 02 104 0100	 <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M8A-SM4A-L5SV	11 02 104 0101	
	10 m	M8A-SM4A-L10SV	11 02 104 0102	


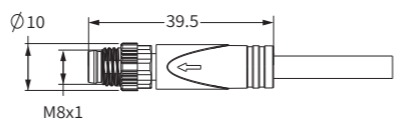

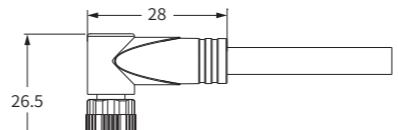

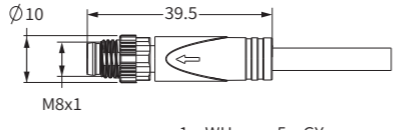

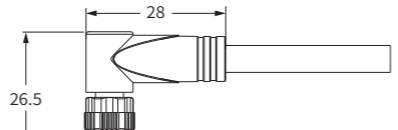
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole, straight, male,</b> M8 B-code, cable type: SV, Anti-vibration 	2 m	M8B-SM5S-L2SV	11 07 105 1100	 <p>1 = BN 2 = WH 3 = BU 4 = BK 5 = GY</p>
	5 m	M8B-SM5S-L5SV	11 07 105 1101	
	10 m	M8B-SM5S-L10SV	11 07 105 1102	
<b>5-pole, angled, male,</b> M8 B-code, cable type: SV, Anti-vibration 	2 m	M8B-SM5A-L2SV	11 07 105 0100	 <p>1 = BN 2 = WH 3 = BU 4 = BK 5 = GY</p>
	5 m	M8B-SM5A-L5SV	11 07 105 0101	
	10 m	M8B-SM5A-L10SV	11 07 105 0102	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.2 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole, straight, male,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-M6S-L2SV	11 02 106 1100	 1 = BN    5 = GY 2 = WH    6 = PK 3 = BU 4 = BK
	5 m	M8A-M6S-L5SV	11 02 106 1101	
	10 m	M8A-M6S-L10SV	11 02 106 1102	
<b>6-pole, angled, male,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-M6A-L2SV	11 02 106 0100	 1 = BN    5 = GY 2 = WH    6 = PK 3 = BU 4 = BK
	5 m	M8A-M6A-L5SV	11 02 106 0101	
	10 m	M8A-M6A-L10SV	11 02 106 0102	
<b>8-pole, straight, male,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-M8S-L2SV	11 02 108 1100	 1 = WH    5 = GY 2 = BN    6 = PK 3 = GN    7 = BU 4 = YE    8 = RD
	5 m	M8A-M8S-L5SV	11 02 108 1101	
	10 m	M8A-M8S-L10SV	11 02 108 1102	
<b>8-pole, angled, male,</b> M8 A-code, cable type: SV, Anti-vibration 	2 m	M8A-M8A-L2SV	11 02 108 0100	 1 = WH    5 = GY 2 = BN    6 = PK 3 = GN    7 = BU 4 = YE    8 = RD
	5 m	M8A-M8A-L5SV	11 02 108 0101	
	10 m	M8A-M8A-L10SV	11 02 108 0102	


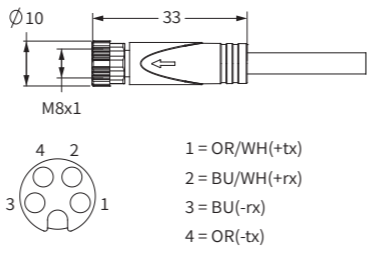

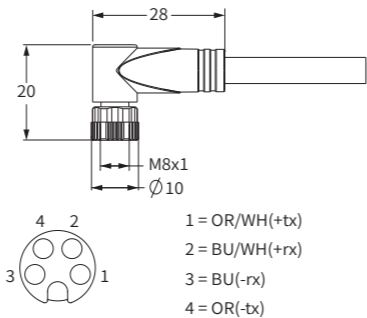
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics


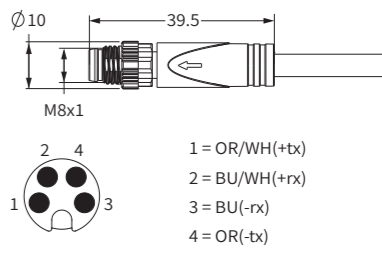

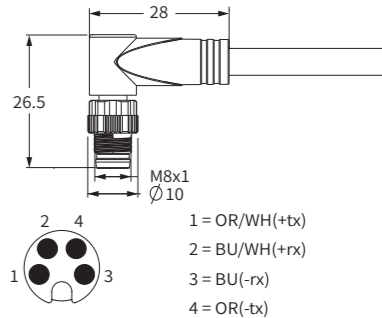
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.2 Nm
Rated voltage	[V] 48	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.2 Nm
Rated voltage	[V] 48	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-104
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, female,</b> M8 A-code, cable type: PN27, Anti-vibration 	2 m	M8A-SF4S-L2PN27	11 02 104 1210	 <p>1 = OR/WH(+tx) 2 = BU/WH(+rx) 3 = BU(-rx) 4 = OR(-tx)</p>
	5 m	M8A-SF4S-L5PN27	11 02 104 1211	
	10 m	M8A-SF4S-L10PN27	11 02 104 1212	
<b>4-pole, angled, female,</b> M8 A-code, cable type: PN27, Anti-vibration 	2 m	M8A-SF4A-L2PN27	11 02 104 0210	 <p>1 = OR/WH(+tx) 2 = BU/WH(+rx) 3 = BU(-rx) 4 = OR(-tx)</p>
	5 m	M8A-SF4A-L5PN27	11 02 104 0211	
	10 m	M8A-SF4A-L10PN27	11 02 104 0212	

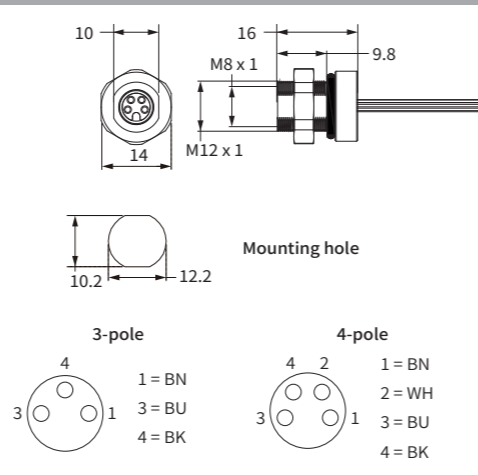
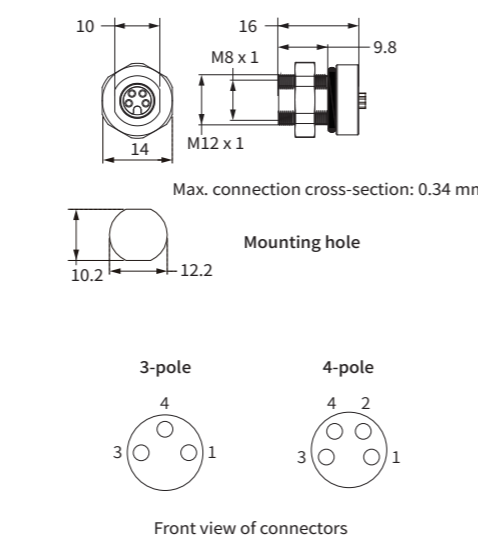
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

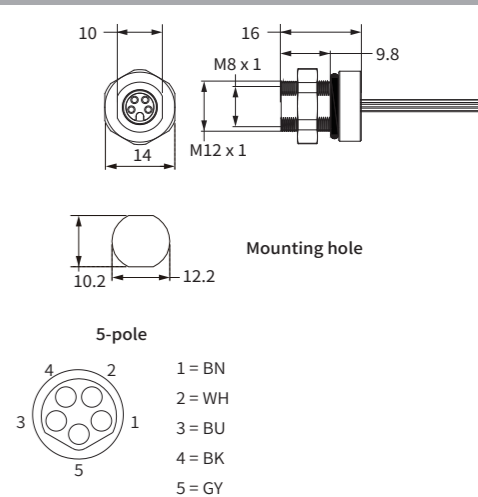
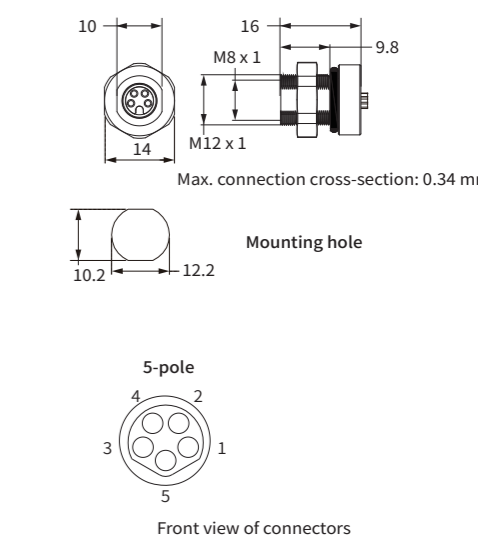
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, male,</b> M8 A-code, cable type: PN27, Anti-vibration 	2 m	M8A-SM4S-L2PN27	11 02 104 1110	 <p>1 = OR/WH(+tx) 2 = BU/WH(+rx) 3 = BU(-rx) 4 = OR(-tx)</p>
	5 m	M8A-SM4S-L5PN27	11 02 104 1111	
	10 m	M8A-SM4S-L10PN27	11 02 104 1112	
<b>4-pole, angled, male,</b> M8 A-code, cable type: PN27, Anti-vibration 	2 m	M8A-SM4A-L2PN27	11 02 104 0110	 <p>1 = OR/WH(+tx) 2 = BU/WH(+rx) 3 = BU(-rx) 4 = OR(-tx)</p>
	5 m	M8A-SM4A-L5PN27	11 02 104 0111	
	10 m	M8A-SM4A-L10PN27	11 02 104 0112	

1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M8 A-code	3-pole	M8A-F3R-L0.5M12	11 02 003 2200	
	4-pole	M8A-F4R-L0.5M12	11 02 004 2200	
Sensor/Actuator Receptacles, rear mounting, female, Solder Cup, M8 A-code	3-pole	M8A-FS3R-M12	11 02 003 2600	 <p>Max. connection cross-section: 0.34 mm<sup>2</sup></p>
	4-pole	M8A-FS4R-M12	11 02 004 2600	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M8 B-code	5-pole	M8B-F5R-L0.5M12	11 07 005 2200	
Sensor/Actuator Receptacles, rear mounting, female, Solder Cup, M8 B-code	5-pole	M8B-FS5R-M12	11 07 005 2600	 <p>Max. connection cross-section: 0.34 mm<sup>2</sup></p>

1): Standard cable length is 0.5m, variable cable length is optional

1): Standard cable length is 0.5m, variable cable length is optional

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M8 A-code	6-pole	M8A-F6R-L0.5M12	11 02 006 2200	<p>6-pole</p> <p>1 = BN    5 = GY 2 = WH    6 = PK 3 = BU 4 = BK</p>
Sensor/Actuator Receptacles, rear mounting, female, Solder Cup, M8 A-code	6-pole	M8A-FS6R-M12	11 02 006 2600	<p>6-pole</p> <p>Front view of connectors</p>

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M8 A-code	8-pole	M8A-F8R-L0.5M12	11 02 008 2200	<p>8-pole</p> <p>1 = BN    5 = GY 2 = WH    6 = PK 3 = BU    7 = BU 4 = BK    8 = RD</p>
Sensor/Actuator Receptacles, rear mounting, female, Solder Cup, M8 A-code	8-pole	M8A-FS8R-M12	11 02 008 2600	<p>8-pole</p> <p>Front view of connectors</p>

1): Standard cable length is 0.5m, variable cable length is optional


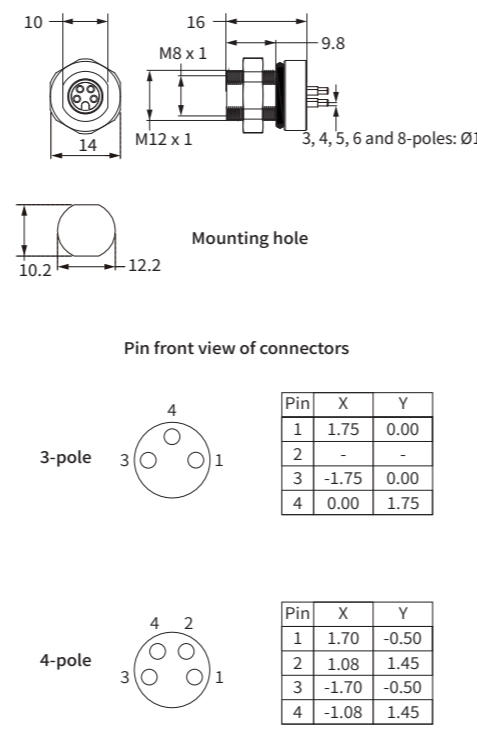
1): Standard cable length is 0.5m, variable cable length is optional


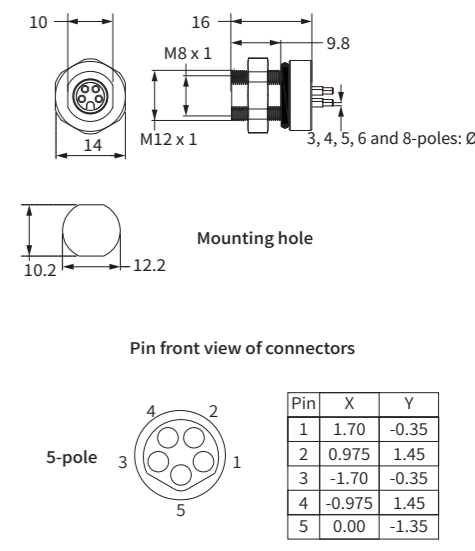
Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		


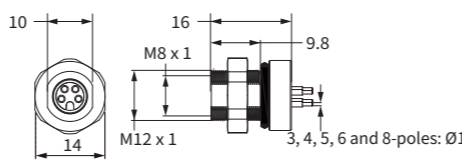

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																														
Sensor/Actuator Receptacles, rear mounting, female, PCB mounting, M8 A-code 	3-pole	M8A-FD3R-M12	11 02 003 2610	 <p>Pin front view of connectors</p> <table border="1"> <caption>3-pole</caption> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>1.75</td><td>0.00</td></tr> <tr><td>2</td><td>-</td><td>-</td></tr> <tr><td>3</td><td>-1.75</td><td>0.00</td></tr> <tr><td>4</td><td>0.00</td><td>1.75</td></tr> </tbody> </table> <table border="1"> <caption>4-pole</caption> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>1.70</td><td>-0.50</td></tr> <tr><td>2</td><td>1.08</td><td>1.45</td></tr> <tr><td>3</td><td>-1.70</td><td>-0.50</td></tr> <tr><td>4</td><td>-1.08</td><td>1.45</td></tr> </tbody> </table>	Pin	X	Y	1	1.75	0.00	2	-	-	3	-1.75	0.00	4	0.00	1.75	Pin	X	Y	1	1.70	-0.50	2	1.08	1.45	3	-1.70	-0.50	4	-1.08	1.45
	Pin	X	Y																															
1	1.75	0.00																																
2	-	-																																
3	-1.75	0.00																																
4	0.00	1.75																																
Pin	X	Y																																
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4	-1.08	1.45																																
4-pole	M8A-FD4R-M12	11 02 004 2610																																


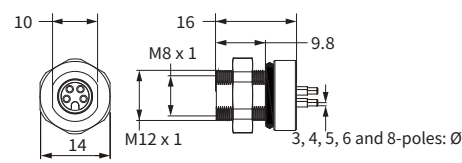
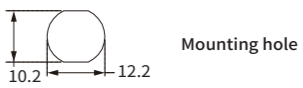
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																		
Sensor/Actuator Receptacles, rear mounting, female, PCB mounting, M8 B-code 	5-pole	M8B-FD5R-M12	11 07 005 2610	 <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>1.70</td><td>-0.35</td></tr> <tr><td>2</td><td>0.975</td><td>1.45</td></tr> <tr><td>3</td><td>-1.70</td><td>-0.35</td></tr> <tr><td>4</td><td>-0.975</td><td>1.45</td></tr> <tr><td>5</td><td>0.00</td><td>-1.35</td></tr> </tbody> </table>	Pin	X	Y	1	1.70	-0.35	2	0.975	1.45	3	-1.70	-0.35	4	-0.975	1.45	5	0.00	-1.35
Pin	X	Y																				
1	1.70	-0.35																				
2	0.975	1.45																				
3	-1.70	-0.35																				
4	-0.975	1.45																				
5	0.00	-1.35																				



Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

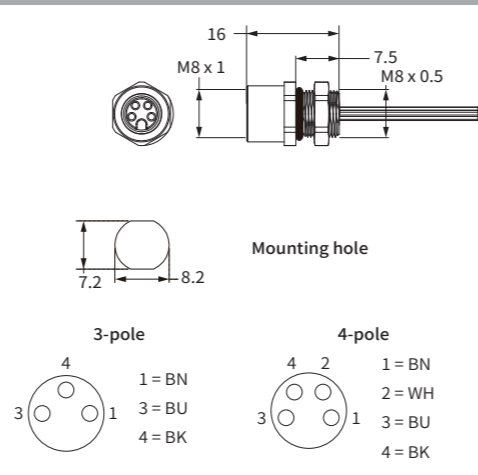
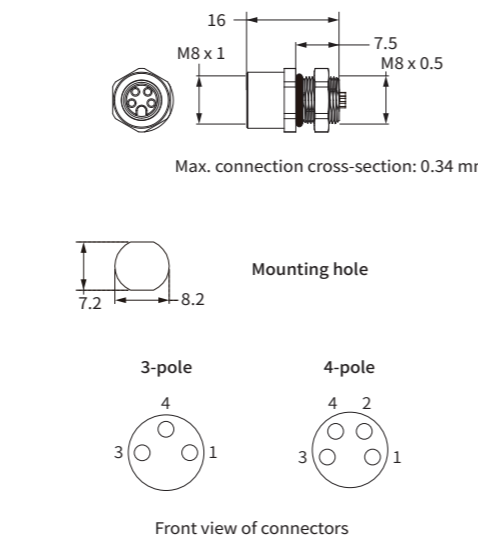
Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
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Material(knurl)	Zinc die-cast/Nickel plated		

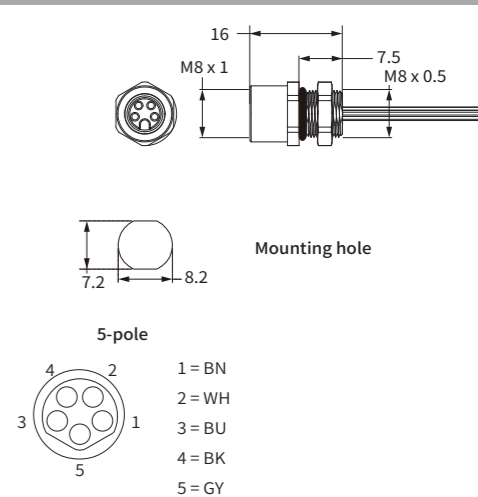
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																					
Sensor/Actuator Receptacles, rear mounting, female, PCB mounting, M8 A-code 	6-pole	M8A-FD6R-M12	11 02 006 2610	  <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>1.37</td><td>-1.32</td></tr> <tr><td>2</td><td>-1.37</td><td>-1.32</td></tr> <tr><td>3</td><td>-1.75</td><td>-0.74</td></tr> <tr><td>4</td><td>0.00</td><td>1.90</td></tr> <tr><td>5</td><td>1.75</td><td>0.74</td></tr> <tr><td>6</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	1.37	-1.32	2	-1.37	-1.32	3	-1.75	-0.74	4	0.00	1.90	5	1.75	0.74	6	0.00	0.00
Pin	X	Y																							
1	1.37	-1.32																							
2	-1.37	-1.32																							
3	-1.75	-0.74																							
4	0.00	1.90																							
5	1.75	0.74																							
6	0.00	0.00																							

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																											
Sensor/Actuator Receptacles, rear mounting, female, PCB mounting, M8 A-code 	8-pole	M8A-FD8R-M12	11 02 008 2610	  <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.90</td><td>-1.65</td></tr> <tr><td>2</td><td>-0.90</td><td>-1.65</td></tr> <tr><td>3</td><td>-1.85</td><td>-0.35</td></tr> <tr><td>4</td><td>-1.45</td><td>1.20</td></tr> <tr><td>5</td><td>0.00</td><td>1.85</td></tr> <tr><td>6</td><td>1.45</td><td>1.20</td></tr> <tr><td>7</td><td>1.85</td><td>-0.35</td></tr> <tr><td>8</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	0.90	-1.65	2	-0.90	-1.65	3	-1.85	-0.35	4	-1.45	1.20	5	0.00	1.85	6	1.45	1.20	7	1.85	-0.35	8	0.00	0.00
Pin	X	Y																													
1	0.90	-1.65																													
2	-0.90	-1.65																													
3	-1.85	-0.35																													
4	-1.45	1.20																													
5	0.00	1.85																													
6	1.45	1.20																													
7	1.85	-0.35																													
8	0.00	0.00																													

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M8 A-code	3-pole	M8A-F3F-L0.5M8	11 02 003 3200	
	4-pole	M8A-F4F-L0.5M8	11 02 004 3200	
Sensor/Actuator Receptacles, front mounting, female, Solder Cup, M8 A-code	3-pole	M8A-FS3F-M8	11 02 003 3600	
	4-pole	M8A-FS4F-M8	11 02 004 3600	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M8 B-code	5-pole	M8B-F5F-L0.5M8	11 07 005 3200	
	5-pole	M8B-FS5F-M8	11 07 005 3600	

1): Standard cable length is 0.5m, variable cable length is optional

1): Standard cable length is 0.5m, variable cable length is optional

Sensor/Actuator Receptacles, front mounting, 6-poles, female

Sensor/Actuator Receptacles, front mounting, 8-poles, female

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M8 A-code	6-pole	M8A-F6F-L0.5M8	11 02 006 3200	
Sensor/Actuator Receptacles, front mounting, female, Solder Cup, M8 A-code	6-pole	M8A-FS6F-M8	11 02 006 3600	


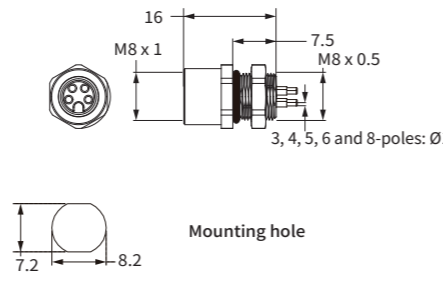
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M8 A-code	8-pole	M8A-F8F-L0.5M8	11 02 008 3200	
Sensor/Actuator Receptacles, front mounting, female, Solder Cup, M8 A-code	8-pole	M8A-FS8F-M8	11 02 008 3600	


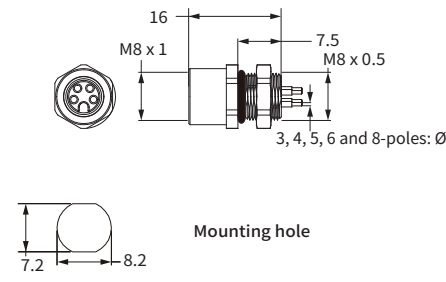
1): Standard cable length is 0.5m, variable cable length is optional

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Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		


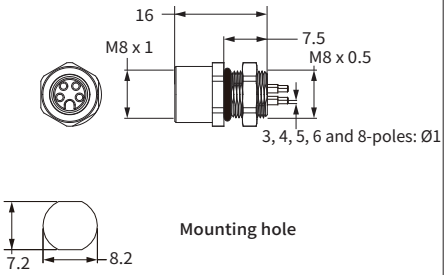

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
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Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
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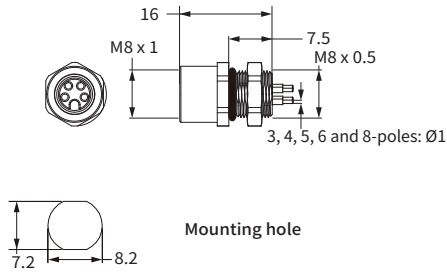

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																														
Sensor/Actuator Receptacles, front mounting, female, PCB mounting, M8 A-code 	3-pole	M8A-FD3F-M8	11 02 003 3610	 <p>Mounting hole</p> <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.75</td> <td>0.00</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>-1.75</td> <td>0.00</td> </tr> <tr> <td>4</td> <td>0.00</td> <td>1.75</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.70</td> <td>-0.50</td> </tr> <tr> <td>2</td> <td>1.08</td> <td>1.45</td> </tr> <tr> <td>3</td> <td>-1.70</td> <td>-0.50</td> </tr> <tr> <td>4</td> <td>-1.08</td> <td>1.45</td> </tr> </tbody> </table>	Pin	X	Y	1	1.75	0.00	2	-	-	3	-1.75	0.00	4	0.00	1.75	Pin	X	Y	1	1.70	-0.50	2	1.08	1.45	3	-1.70	-0.50	4	-1.08	1.45
	Pin	X	Y																															
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4-pole	M8A-FD4F-M8	11 02 004 3610																																

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																		
Sensor/Actuator Receptacles, front mounting, female, PCB mounting, M8 B-code 	5-pole	M8B-FD5F-M8	11 07 005 3610	 <p>Mounting hole</p> <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.70</td> <td>-0.35</td> </tr> <tr> <td>2</td> <td>0.975</td> <td>1.45</td> </tr> <tr> <td>3</td> <td>-1.70</td> <td>-0.35</td> </tr> <tr> <td>4</td> <td>-0.975</td> <td>1.45</td> </tr> <tr> <td>5</td> <td>0.00</td> <td>-1.35</td> </tr> </tbody> </table>	Pin	X	Y	1	1.70	-0.35	2	0.975	1.45	3	-1.70	-0.35	4	-0.975	1.45	5	0.00	-1.35
Pin	X	Y																				
1	1.70	-0.35																				
2	0.975	1.45																				
3	-1.70	-0.35																				
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Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

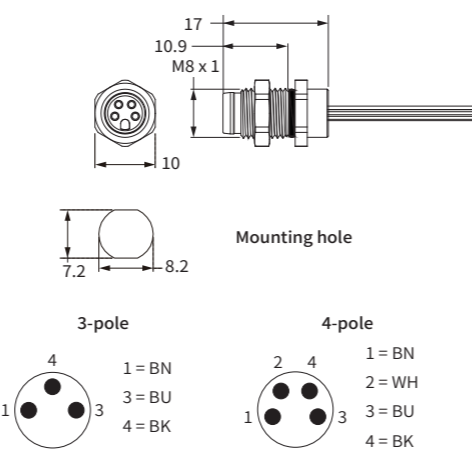
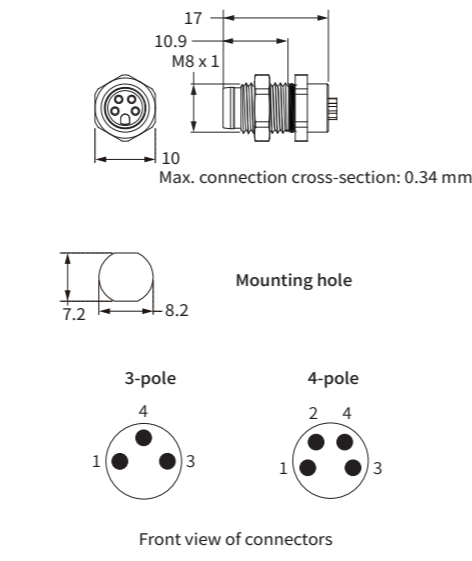
Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																					
Sensor/Actuator Receptacles, front mounting, female, PCB mounting, M8 A-code 	6-pole	M8A-FD6F-M8	11 02 006 3610	 <p>3, 4, 5, 6 and 8-poles: Ø1</p> <p>Mounting hole</p> <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>1.37</td><td>-1.32</td></tr> <tr><td>2</td><td>-1.37</td><td>-1.32</td></tr> <tr><td>3</td><td>-1.75</td><td>-0.74</td></tr> <tr><td>4</td><td>0.00</td><td>1.90</td></tr> <tr><td>5</td><td>1.75</td><td>0.74</td></tr> <tr><td>6</td><td>0.00</td><td>0.00</td></tr> </tbody> </table> <p>6-pole</p> 	Pin	X	Y	1	1.37	-1.32	2	-1.37	-1.32	3	-1.75	-0.74	4	0.00	1.90	5	1.75	0.74	6	0.00	0.00
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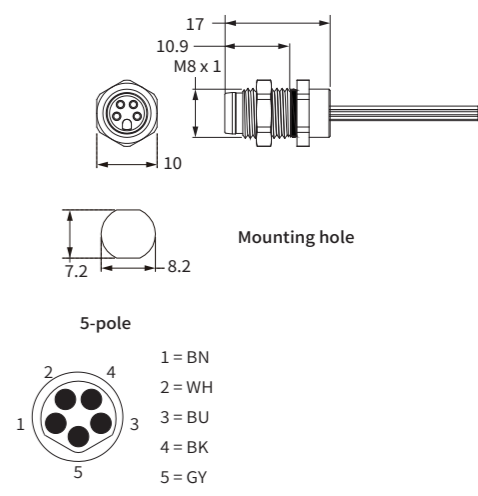
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																											
Sensor/Actuator Receptacles, front mounting, female, PCB mounting, M8 A-code 	8-pole	M8A-FD8F-M8	11 02 008 3610	 <p>3, 4, 5, 6 and 8-poles: Ø1</p> <p>Mounting hole</p> <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.90</td><td>-1.65</td></tr> <tr><td>2</td><td>-0.90</td><td>-1.65</td></tr> <tr><td>3</td><td>-1.85</td><td>-0.35</td></tr> <tr><td>4</td><td>-1.45</td><td>1.20</td></tr> <tr><td>5</td><td>0.00</td><td>1.85</td></tr> <tr><td>6</td><td>1.45</td><td>1.20</td></tr> <tr><td>7</td><td>1.85</td><td>-0.35</td></tr> <tr><td>8</td><td>0.00</td><td>0.00</td></tr> </tbody> </table> <p>8-pole</p> 	Pin	X	Y	1	0.90	-1.65	2	-0.90	-1.65	3	-1.85	-0.35	4	-1.45	1.20	5	0.00	1.85	6	1.45	1.20	7	1.85	-0.35	8	0.00	0.00
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Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M8 A-code	3-pole	M8A-M3R-L0.5M8	11 02 003 2100	
	4-pole	M8A-M4R-L0.5M8	11 02 004 2100	
Sensor/Actuator Receptacles, rear mounting, male, Solder Cup, M8 A-code	3-pole	M8A-MS3R-M8	11 02 003 2500	
	4-pole	M8A-MS4R-M8	11 02 004 2500	

1): Standard cable length is 0.5m, variable cable length is optional

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M8 B-code	5-pole	M8B-M5R-L0.5M8	11 07 005 2100	
	5-pole	M8B-MS5R-M8	11 07 005 2500	

1): Standard cable length is 0.5m, variable cable length is optional

Sensor/Actuator Receptacles, rear mounting, 6-poles, male

Sensor/Actuator Receptacles, rear mounting, 8-poles, male

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M8 A-code	6-pole	M8A-M6R-L0.5M8	11 02 006 2100	
Sensor/Actuator Receptacles, rear mounting, male, Solder Cup, M8 A-code	6-pole	M8A-MS6R-M8	11 02 006 2500	<p>Max. connection cross-section: 0.25 mm<sup>2</sup></p>


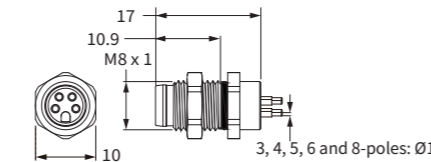
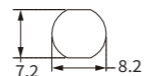
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M8 A-code	8-pole	M8A-M8R-L0.5M8	11 02 008 2100	
Sensor/Actuator Receptacles, rear mounting, male, Solder Cup, M8 A-code	8-pole	M8A-MS8R-M8	11 02 008 2500	<p>Max. connection cross-section: 0.14 mm<sup>2</sup></p>


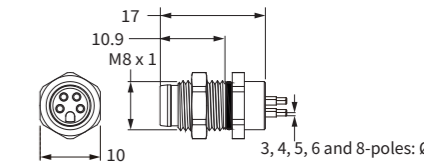
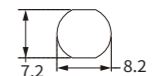
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Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
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Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																														
Sensor/Actuator Receptacles, rear mounting, male, PCB mounting, M8 A-code 	3-pole	M8A-MD3R-M8	11 02 003 2510	 <p>Mounting hole</p>  <p>Pin front view of connectors</p> <table border="1"> <caption>3-pole</caption> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>1.75</td><td>0.00</td></tr> <tr><td>2</td><td>-</td><td>-</td></tr> <tr><td>3</td><td>-1.75</td><td>0.00</td></tr> <tr><td>4</td><td>0.00</td><td>1.75</td></tr> </tbody> </table> <table border="1"> <caption>4-pole</caption> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>1.70</td><td>-0.50</td></tr> <tr><td>2</td><td>1.08</td><td>1.45</td></tr> <tr><td>3</td><td>-1.70</td><td>-0.50</td></tr> <tr><td>4</td><td>-1.08</td><td>1.45</td></tr> </tbody> </table>	Pin	X	Y	1	1.75	0.00	2	-	-	3	-1.75	0.00	4	0.00	1.75	Pin	X	Y	1	1.70	-0.50	2	1.08	1.45	3	-1.70	-0.50	4	-1.08	1.45
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Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																		
Sensor/Actuator Receptacles, rear mounting, male, PCB mounting, M8 B-code 	5-pole	M8B-MD5R-M8	11 07 005 2510	 <p>Mounting hole</p>  <p>Pin front view of connectors</p> <table border="1"> <caption>5-pole</caption> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>1.70</td><td>-0.35</td></tr> <tr><td>2</td><td>0.975</td><td>1.45</td></tr> <tr><td>3</td><td>-1.70</td><td>-0.35</td></tr> <tr><td>4</td><td>-0.975</td><td>1.45</td></tr> <tr><td>5</td><td>0.00</td><td>-1.35</td></tr> </tbody> </table>	Pin	X	Y	1	1.70	-0.35	2	0.975	1.45	3	-1.70	-0.35	4	-0.975	1.45	5	0.00	-1.35
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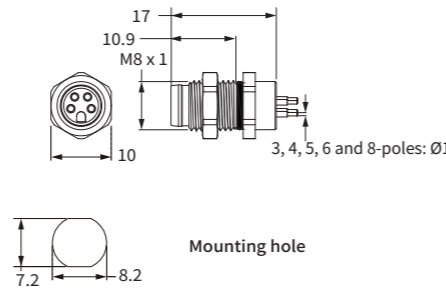



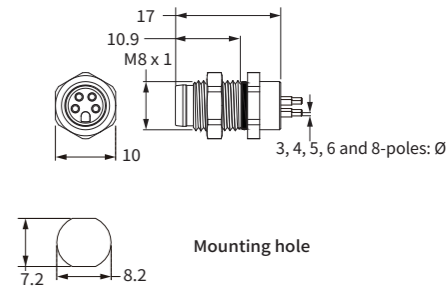
Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
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Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
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Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
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	4-pole	M8A-M4F-L0.5M8	11 02 004 3100	
Sensor/Actuator Receptacles, front mounting, male, Solder Cup, M8 A-code	3-pole	M8A-MS3F-M8	11 02 003 3500	
	4-pole	M8A-MS4F-M8	11 02 004 3500	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M8 B-code	5-pole	M8B-M5F-L0.5M8	11 07 005 3100	
	5-pole	M8B-MS5F-M8	11 07 005 3500	

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M10x0.75 is optional.

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M10x0.75 is optional.

Sensor/Actuator Receptacles, front mounting, 6-poles, male

Sensor/Actuator Receptacles, front mounting, 8-poles, male

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M8 A-code	6-pole	M8A-M6F-L0.5M8	11 02 006 3100	<p>6-pole</p> <p>1 = BN    5 = GY 2 = WH    6 = PK 3 = BU 4 = BK</p>
Sensor/Actuator Receptacles, front mounting, male, Solder Cup, M8 A-code	6-pole	M8A-MS6F-M8	11 02 006 3500	<p>Max. connection cross-section: 0.25 mm<sup>2</sup></p> <p>6-pole</p> <p>Front view of connectors</p>


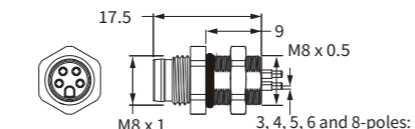
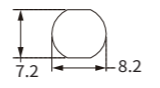
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M8 A-code	8-pole	M8A-M8F-L0.5M8	11 02 008 3100	<p>8-pole</p> <p>1 = BN    5 = GY 2 = WH    6 = PK 3 = BU    7 = BU 4 = BK    8 = RD</p>
Sensor/Actuator Receptacles, front mounting, male, Solder Cup, M8 A-code	8-pole	M8A-MS8F-M8	11 02 008 3500	<p>Max. connection cross-section: 0.14 mm<sup>2</sup></p> <p>8-pole</p> <p>Front view of connectors</p>

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M10x0.75 is optional.


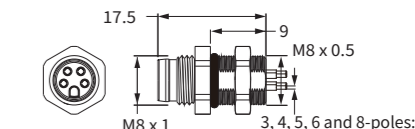
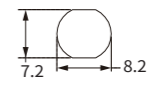
1): Standard cable length is 0.5m, variable cable length is optional; Fastening M10x0.75 is optional.

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	B-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 3	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																														
Sensor/Actuator Receptacles, front mounting, male, PCB mounting, M8 A-code 	3-pole	M8A-MD3F-M8	11 02 003 3510	 <p>M8 x 1 17.5 9 M8 x 0.5 3, 4, 5, 6 and 8-poles: Ø1</p>  <p>Mounting hole 7.2 8.2</p> <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.75</td> <td>0.00</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>-1.75</td> <td>0.00</td> </tr> <tr> <td>4</td> <td>0.00</td> <td>1.75</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.70</td> <td>-0.50</td> </tr> <tr> <td>2</td> <td>1.08</td> <td>1.45</td> </tr> <tr> <td>3</td> <td>-1.70</td> <td>-0.50</td> </tr> <tr> <td>4</td> <td>-1.08</td> <td>1.45</td> </tr> </tbody> </table>	Pin	X	Y	1	1.75	0.00	2	-	-	3	-1.75	0.00	4	0.00	1.75	Pin	X	Y	1	1.70	-0.50	2	1.08	1.45	3	-1.70	-0.50	4	-1.08	1.45
	Pin	X	Y																															
1	1.75	0.00																																
2	-	-																																
3	-1.75	0.00																																
4	0.00	1.75																																
Pin	X	Y																																
1	1.70	-0.50																																
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4	-1.08	1.45																																
4-pole	M8A-MD4F-M8	11 02 004 3510																																


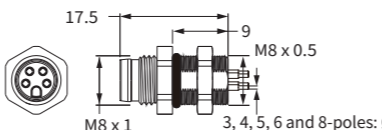


Fastening M10x0.75 is optional.

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																		
Sensor/Actuator Receptacles, front mounting, male, PCB mounting, M8 B-code 	5-pole	M8B-MD5F-M8	11 07 005 3510	 <p>M8 x 1 17.5 9 M8 x 0.5 3, 4, 5, 6 and 8-poles: Ø1</p>  <p>Mounting hole 7.2 8.2</p> <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.70</td> <td>-0.35</td> </tr> <tr> <td>2</td> <td>0.975</td> <td>1.45</td> </tr> <tr> <td>3</td> <td>-1.70</td> <td>-0.35</td> </tr> <tr> <td>4</td> <td>-0.975</td> <td>1.45</td> </tr> <tr> <td>5</td> <td>0.00</td> <td>-1.35</td> </tr> </tbody> </table>	Pin	X	Y	1	1.70	-0.35	2	0.975	1.45	3	-1.70	-0.35	4	-0.975	1.45	5	0.00	-1.35
Pin	X	Y																				
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2	0.975	1.45																				
3	-1.70	-0.35																				
4	-0.975	1.45																				
5	0.00	-1.35																				


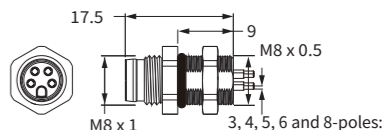
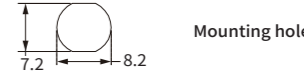

Fastening M10x0.75 is optional.

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Nylon, black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M8	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	1.5 ... 2.5 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-104
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Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																					
Sensor/Actuator Receptacles, front mounting, male, PCB mounting, M8 A-code 	6-pole	M8A-MD6F-M8	11 02 006 3510	  <p>Pin front view of connectors</p>  <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>1.37</td><td>-1.32</td></tr> <tr><td>2</td><td>-1.37</td><td>-1.32</td></tr> <tr><td>3</td><td>-1.75</td><td>-0.74</td></tr> <tr><td>4</td><td>0.00</td><td>1.90</td></tr> <tr><td>5</td><td>1.75</td><td>0.74</td></tr> <tr><td>6</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	1.37	-1.32	2	-1.37	-1.32	3	-1.75	-0.74	4	0.00	1.90	5	1.75	0.74	6	0.00	0.00
Pin	X	Y																							
1	1.37	-1.32																							
2	-1.37	-1.32																							
3	-1.75	-0.74																							
4	0.00	1.90																							
5	1.75	0.74																							
6	0.00	0.00																							

Fastening M10x0.75 is optional.

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																											
Sensor/Actuator Receptacles, front mounting, male, PCB mounting, M8 A-code 	8-pole	M8A-MD8F-M8	11 02 008 3510	  <p>Pin front view of connectors</p>  <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.90</td><td>-1.65</td></tr> <tr><td>2</td><td>-0.90</td><td>-1.65</td></tr> <tr><td>3</td><td>-1.85</td><td>-0.35</td></tr> <tr><td>4</td><td>-1.45</td><td>1.20</td></tr> <tr><td>5</td><td>0.00</td><td>1.85</td></tr> <tr><td>6</td><td>1.45</td><td>1.20</td></tr> <tr><td>7</td><td>1.85</td><td>-0.35</td></tr> <tr><td>8</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	0.90	-1.65	2	-0.90	-1.65	3	-1.85	-0.35	4	-1.45	1.20	5	0.00	1.85	6	1.45	1.20	7	1.85	-0.35	8	0.00	0.00
Pin	X	Y																													
1	0.90	-1.65																													
2	-0.90	-1.65																													
3	-1.85	-0.35																													
4	-1.45	1.20																													
5	0.00	1.85																													
6	1.45	1.20																													
7	1.85	-0.35																													
8	0.00	0.00																													


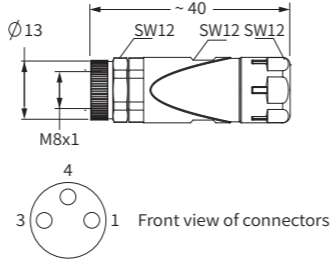

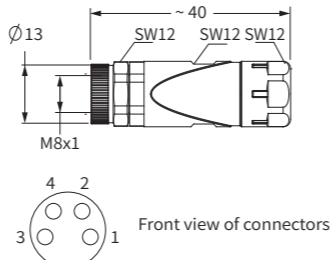
Fastening M10x0.75 is optional.


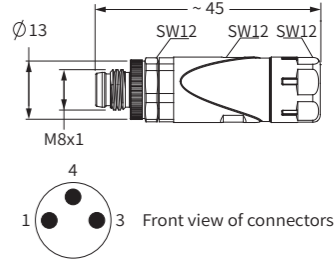

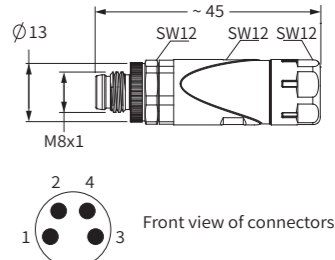
Technical characteristics

Connector	M8	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	3	Degree of protection (IP)	IP67
Rated voltage [V]	60	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-104
Material(grip body)	PA-black	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	PA-black		

Technical characteristics


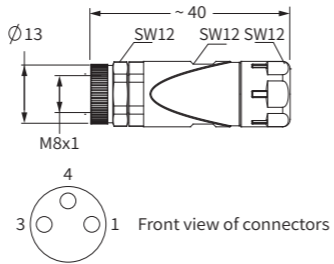

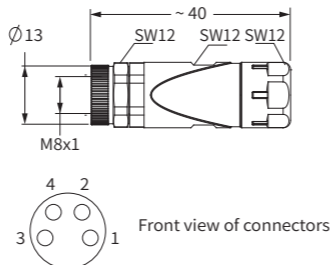
Connector	M8	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	3	Degree of protection (IP)	IP67
Rated voltage [V]	60	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-104
Material(grip body)	PA-black	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	PA-black		


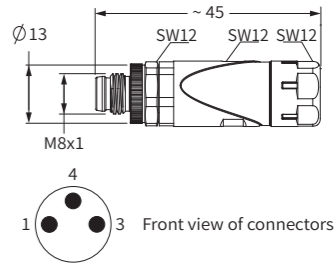

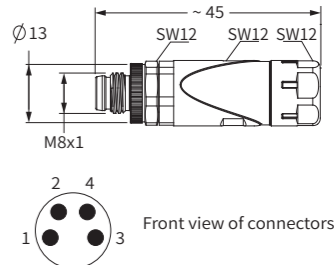
Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, female,</b> M8 A-code, cable diameter: 3.5 ... 5 mm 	0.14 ... 0.5 mm <sup>2</sup>	M8A-F3S-D5	11 02 003 1290	
<b>4-pole, straight, female,</b> M8 A-code, cable diameter: 3.5 ... 5 mm 	0.14 ... 0.5 mm <sup>2</sup>	M8A-F4S-D5	11 02 004 1290	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>3-pos., straight, male,</b> M8 A-code, cable diameter: 3.5 ... 5 mm 	0.14 ... 0.5 mm <sup>2</sup>	M8A-M3S-D5	11 02 003 1190	
<b>4-pos., straight, male,</b> M8 A-code, cable diameter: 3.5 ... 5 mm 	0.14 ... 0.5 mm <sup>2</sup>	M8A-M4S-D5	11 02 004 1190	

Technical characteristics			
Connector	M8	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	3	Degree of protection (IP)	IP67
Rated voltage [V]	60	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-104
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	PA-black		

Technical characteristics			
Connector	M8	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	3	Degree of protection (IP)	IP67
Rated voltage [V]	60	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-104
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	PA-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, female,</b> M8 A-code, cable diameter: 3.5 ... 5.5 mm 	0.14 ... 0.5 mm <sup>2</sup>	M8A-SF3S-D5.5	11 02 103 1290	
<b>4-pole, straight, female,</b> M8 A-code, cable diameter: 3.5 ... 5.5 mm 	0.14 ... 0.5 mm <sup>2</sup>	M8A-SF4S-D5.5	11 02 104 1290	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>3-pos., straight, male,</b> M8 A-code, cable diameter: 3.5 ... 5.5 mm 	0.14 ... 0.5 mm <sup>2</sup>	M8A-SM3S-D5.5	11 02 103 1190	
<b>4-pos., straight, male,</b> M8 A-code, cable diameter: 3.5 ... 5.5 mm 	0.14 ... 0.5 mm <sup>2</sup>	M8A-SM4S-D5.5	11 02 104 1190	

# M12

## Contents


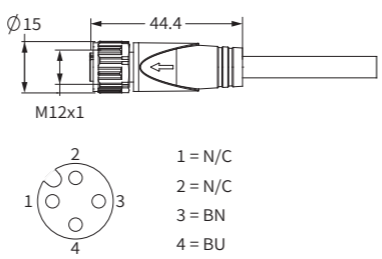

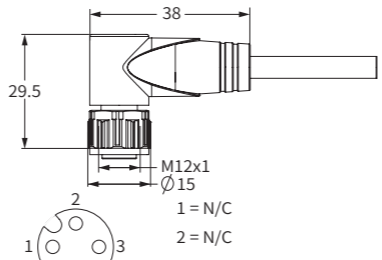

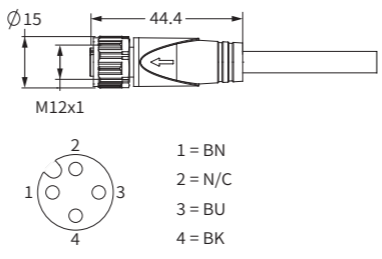

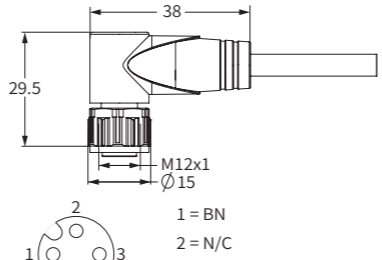
## Pages

M12.....	04-01
Sensor/Actuator Cordsets .....	04-03
Sensor/Actuator Receptacles .....	05-01
Field Wireable Connectors .....	06-01


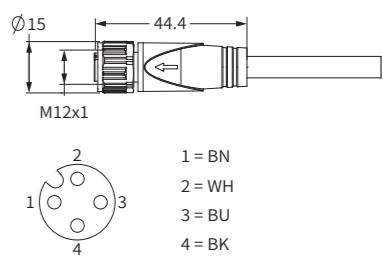

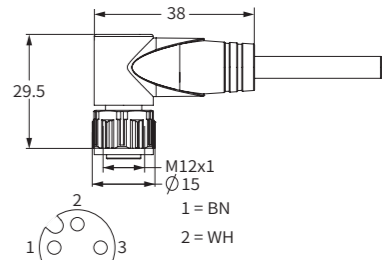


Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 250	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 250	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>2-pole, straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F2S-L2V	11 03 002 1200	 <p>1 = N/C 2 = N/C 3 = BN 4 = BU</p>
	5 m	M12A-F2S-L5V	11 03 002 1201	
	10 m	M12A-F2S-L10V	11 03 002 1202	
<b>2-pole, angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F2A-L2V	11 03 002 0200	 <p>1 = N/C 2 = N/C 3 = BN 4 = BU</p>
	5 m	M12A-F2A-L5V	11 03 002 0201	
	10 m	M12A-F2A-L10V	11 03 002 0202	
<b>3-pole, straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F3S-L2V	11 03 003 1200	 <p>1 = BN 2 = N/C 3 = BU 4 = BK</p>
	5 m	M12A-F3S-L5V	11 03 003 1201	
	10 m	M12A-F3S-L10V	11 03 003 1202	
<b>3-pole, angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F3A-L2V	11 03 003 0200	 <p>1 = BN 2 = N/C 3 = BU 4 = BK</p>
	5 m	M12A-F3A-L5V	11 03 003 0201	
	10 m	M12A-F3A-L10V	11 03 003 0202	


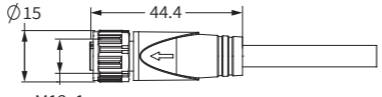

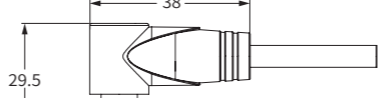

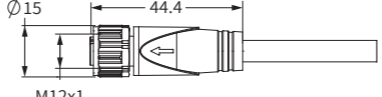

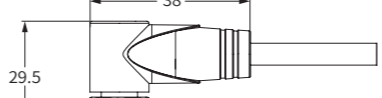
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F4S-L2V	11 03 004 1200	 <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M12A-F4S-L5V	11 03 004 1201	
	10 m	M12A-F4S-L10V	11 03 004 1202	
<b>4-pole, angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F4A-L2V	11 03 004 0200	 <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M12A-F4A-L5V	11 03 004 0201	
	10 m	M12A-F4A-L10V	11 03 004 0202	


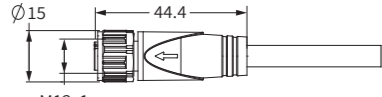

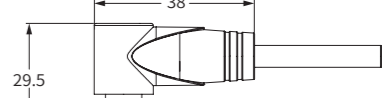
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 60	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 2	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole(+PE), straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F5S-L2V-5GNYE	11 03 005 1280	 <p>M12x1</p> <p>1 = BN      5 = GNYE                      2 = WH                      3 = BU                      4 = BK</p>
	5 m	M12A-F5S-L5V-5GNYE	11 03 005 1281	
	10 m	M12A-F5S-L10V-5GNYE	11 03 005 1282	
<b>5-pole(+PE), angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F5A-L2V-5GNYE	11 03 005 0280	 <p>M12x1</p> <p>1 = BN      5 = GNYE                      2 = WH                      3 = BU                      4 = BK</p>
	5 m	M12A-F5A-L5V-5GNYE	11 03 005 0281	
	10 m	M12A-F5A-L10V-5GNYE	11 03 005 0282	
<b>5-pole, straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F5S-L2V	11 03 005 1200	 <p>M12x1</p> <p>1 = BN      5 = GY                      2 = WH                      3 = BU                      4 = BK</p>
	5 m	M12A-F5S-L5V	11 03 005 1201	
	10 m	M12A-F5S-L10V	11 03 005 1202	
<b>5-pole, angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F5A-L2V	11 03 005 0200	 <p>M12x1</p> <p>1 = BN      5 = GY                      2 = WH                      3 = BU                      4 = BK</p>
	5 m	M12A-F5A-L5V	11 03 005 0201	
	10 m	M12A-F5A-L10V	11 03 005 0202	


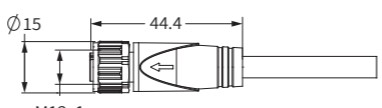

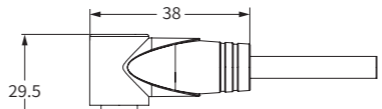
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.


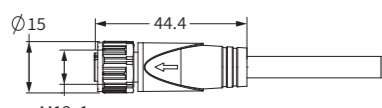

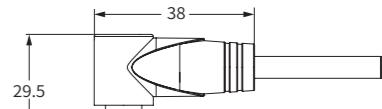
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole, straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F6S-L2V	11 03 006 1200	 <p>M12x1</p> <p>1 = BN      5 = GY                      2 = WH      6 = PK                      3 = BU                      4 = BK</p>
	5 m	M12A-F6S-L5V	11 03 006 1201	
	10 m	M12A-F6S-L10V	11 03 006 1202	
<b>6-pole, angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F6A-L2V	11 03 006 0200	 <p>M12x1</p> <p>1 = BN      5 = GY                      2 = WH      6 = PK                      3 = BU                      4 = BK</p>
	5 m	M12A-F6A-L5V	11 03 006 0201	
	10 m	M12A-F6A-L10V	11 03 006 0202	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 2	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole(4+2), straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F6S/B-L2V	11 03 006 1210	 <p>Ø15 44.4</p> <p>M12x1</p> <p>1 = BN 5 = GY 2 = WH 6 = BK 3 = BU 4 = PK</p>
	5 m	M12A-F6S/B-L5V	11 03 006 1211	
	10 m	M12A-F6S/B-L10V	11 03 006 1212	
<b>6-pole(4+2), angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F6A/B-L2V	11 03 006 0210	 <p>38 29.5</p> <p>M12x1 Ø15</p> <p>1 = BN 5 = GY 2 = WH 6 = BK 3 = BU 4 = PK</p>
	5 m	M12A-F6A/B-L5V	11 03 006 0211	
	10 m	M12A-F6A/B-L10V	11 03 006 0212	

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>8-pole, straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F8S-L2V	11 03 008 1200	 <p>Ø15 44.4</p> <p>M12x1</p> <p>1 = WH 5 = GY 2 = BN 6 = PK 3 = GN 7 = BU 4 = YE 8 = RD</p>
	5 m	M12A-F8S-L5V	11 03 008 1201	
	10 m	M12A-F8S-L10V	11 03 008 1202	
<b>8-pole, angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F8A-L2V	11 03 008 0200	 <p>38 29.5</p> <p>M12x1 Ø15</p> <p>1 = WH 5 = GY 2 = BN 6 = PK 3 = GN 7 = BU 4 = YE 8 = RD</p>
	5 m	M12A-F8A-L5V	11 03 008 0201	
	10 m	M12A-F8A-L10V	11 03 008 0202	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.


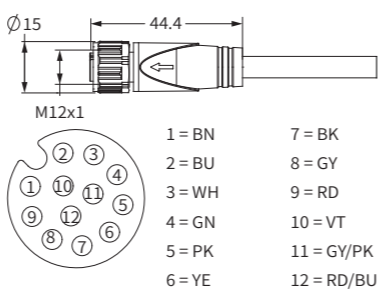

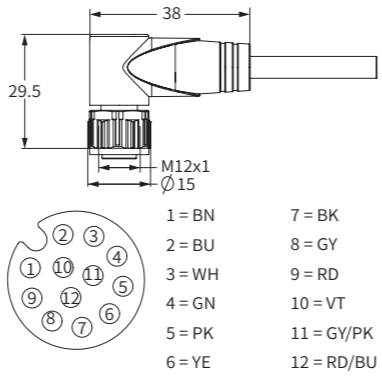
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.


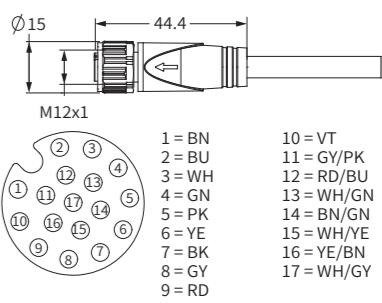

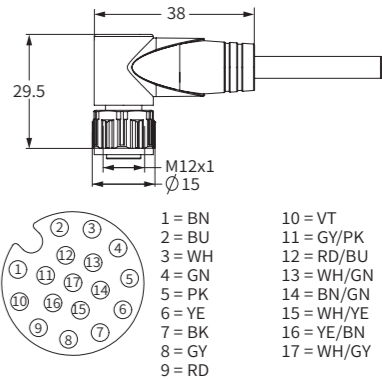
Sensor/Actuator Cordsets, 12-pole, female, Anti-vibration

Sensor/Actuator Cordsets, 17-pole, female, Anti-vibration

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>12-pole, straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F12S-L2V	11 03 012 1200	 <p>M12x1</p> <p>1 = BN      7 = BK                      2 = BU      8 = GY                      3 = WH      9 = RD                      4 = GN      10 = VT                      5 = PK      11 = GY/PK                      6 = YE      12 = RD/BU</p>
	5 m	M12A-F12S-L5V	11 03 012 1201	
	10 m	M12A-F12S-L10V	11 03 012 1202	
<b>12-pole, angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F12A-L2V	11 03 012 0200	 <p>M12x1</p> <p>1 = BN      7 = BK                      2 = BU      8 = GY                      3 = WH      9 = RD                      4 = GN      10 = VT                      5 = PK      11 = GY/PK                      6 = YE      12 = RD/BU</p>
	5 m	M12A-F12A-L5V	11 03 012 0201	
	10 m	M12A-F12A-L10V	11 03 012 0202	


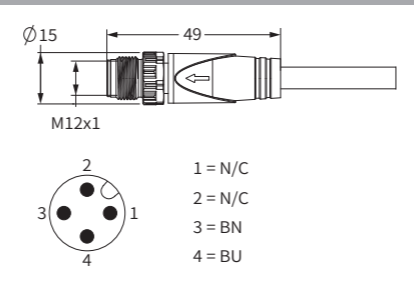

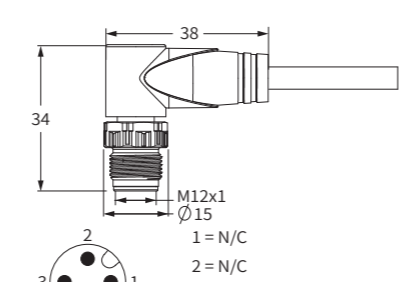

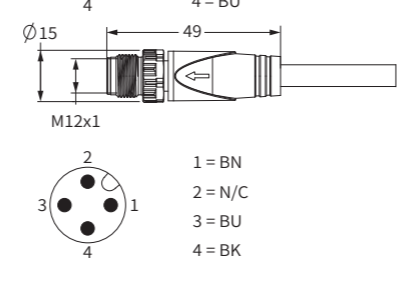

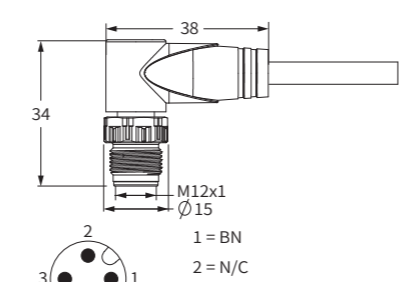
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>17-pole, straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F17S-L2V	11 03 017 1200	 <p>M12x1</p> <p>1 = BN      10 = VT                      2 = BU      11 = GY/PK                      3 = WH      12 = RD/BU                      4 = GN      13 = WH/GN                      5 = PK      14 = BN/GN                      6 = YE      15 = WH/YE                      7 = BK      16 = YE/BN                      8 = GY      17 = WH/GY                      9 = RD</p>
	5 m	M12A-F17S-L5V	11 03 017 1201	
	10 m	M12A-F17S-L10V	11 03 017 1202	
<b>17-pole, angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F17A-L2V	11 03 017 0200	 <p>M12x1</p> <p>1 = BN      10 = VT                      2 = BU      11 = GY/PK                      3 = WH      12 = RD/BU                      4 = GN      13 = WH/GN                      5 = PK      14 = BN/GN                      6 = YE      15 = WH/YE                      7 = BK      16 = YE/BN                      8 = GY      17 = WH/GY                      9 = RD</p>
	5 m	M12A-F17A-L5V	11 03 017 0201	
	10 m	M12A-F17A-L10V	11 03 017 0202	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.


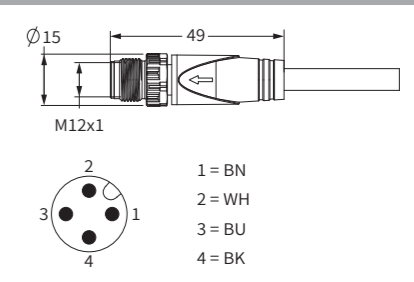

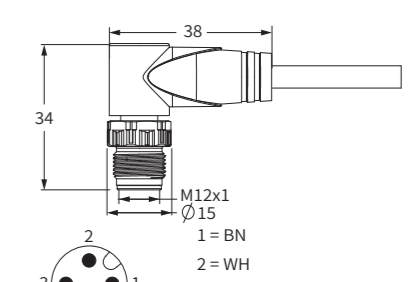
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 250	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 250	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>2-pole, straight, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M2S-L2V	11 03 002 1100	 <p>1 = N/C 2 = N/C 3 = BN 4 = BU</p>
	5 m	M12A-M2S-L5V	11 03 002 1101	
	10 m	M12A-M2S-L10V	11 03 002 1102	
<b>2-pole, angled, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M2A-L2V	11 03 002 0100	 <p>1 = N/C 2 = N/C 3 = BN 4 = BU</p>
	5 m	M12A-M2A-L5V	11 03 002 0101	
	10 m	M12A-M2A-L10V	11 03 002 0102	
<b>3-pole, straight, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M3S-L2V	11 03 003 1100	 <p>1 = BN 2 = N/C 3 = BU 4 = BK</p>
	5 m	M12A-M3S-L5V	11 03 003 1101	
	10 m	M12A-M3S-L10V	11 03 003 1102	
<b>3-pole, angled, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M3A-L2V	11 03 003 0100	 <p>1 = BN 2 = N/C 3 = BU 4 = BK</p>
	5 m	M12A-M3A-L5V	11 03 003 0101	
	10 m	M12A-M3A-L10V	11 03 003 0102	


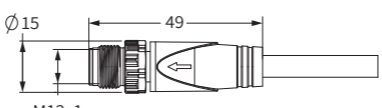
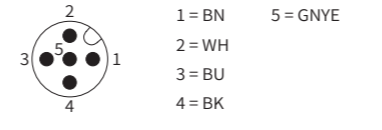

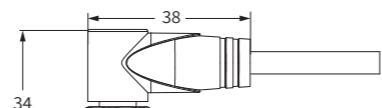
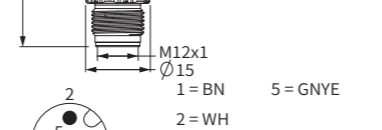

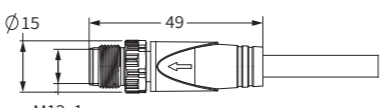
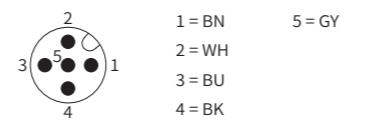

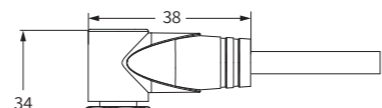
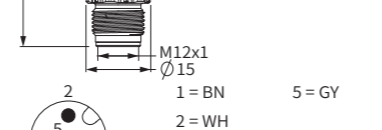
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M4S-L2V	11 03 004 1100	 <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M12A-M4S-L5V	11 03 004 1101	
	10 m	M12A-M4S-L10V	11 03 004 1102	
<b>4-pole, angled, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M4A-L2V	11 03 004 0100	 <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M12A-M4A-L5V	11 03 004 0101	
	10 m	M12A-M4A-L10V	11 03 004 0102	


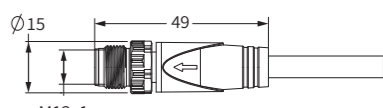
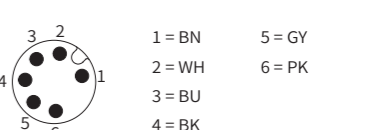

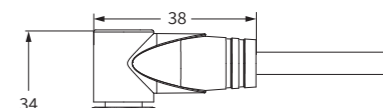
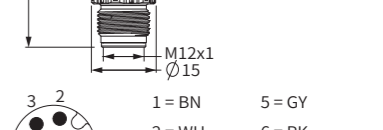
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 60	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 2	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole(+PE), straight, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M5S-L2V-5GNYE	11 03 005 1180	 Ø15 49 M12x1  1 = BN 5 = GNYE 2 = WH 3 = BU 4 = BK
	5 m	M12A-M5S-L5V-5GNYE	11 03 005 1181	
	10 m	M12A-M5S-L10V-5GNYE	11 03 005 1182	
<b>5-pole(+PE), angled, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M5A-L2V-5GNYE	11 03 005 0180	 38 34 M12x1 Ø15  1 = BN 5 = GNYE 2 = WH 3 = BU 4 = BK
	5 m	M12A-M5A-L5V-5GNYE	11 03 005 0181	
	10 m	M12A-M5A-L10V-5GNYE	11 03 005 0182	
<b>5-pole, straight, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M5S-L2V	11 03 005 1100	 Ø15 49 M12x1  1 = BN 5 = GY 2 = WH 3 = BU 4 = BK
	5 m	M12A-M5S-L5V	11 03 005 1101	
	10 m	M12A-M5S-L10V	11 03 005 1102	
<b>5-pole, angled, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M5A-L2V	11 03 005 0100	 38 34 M12x1 Ø15  1 = BN 5 = GY 2 = WH 3 = BU 4 = BK
	5 m	M12A-M5A-L5V	11 03 005 0101	
	10 m	M12A-M5A-L10V	11 03 005 0102	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole, straight, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M6S-L2V	11 03 006 1100	 Ø15 49 M12x1  1 = BN 5 = GY 2 = WH 6 = PK 3 = BU 4 = BK
	5 m	M12A-M6S-L5V	11 03 006 1101	
	10 m	M12A-M6S-L10V	11 03 006 1102	
<b>6-pole, angled, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M6A-L2V	11 03 006 0100	 38 34 M12x1 Ø15  1 = BN 5 = GY 2 = WH 6 = PK 3 = BU 4 = BK
	5 m	M12A-M6A-L5V	11 03 006 0101	
	10 m	M12A-M6A-L10V	11 03 006 0102	


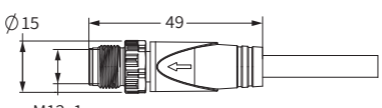

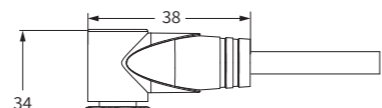
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.


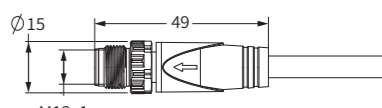

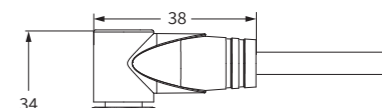
Technical characteristics

Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 2	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole(4+2), straight, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M6S/B-L2V	11 03 006 1110	 <p>Ø15 49</p> <p>M12x1</p> <p>1 = BN 5 = GY 2 = WH 6 = BK 3 = BU 4 = PK</p>
	5 m	M12A-M6S/B-L5V	11 03 006 1111	
	10 m	M12A-M6S/B-L10V	11 03 006 1112	
<b>6-pole(4+2), angled, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M6A/B-L2V	11 03 006 0110	 <p>38 34</p> <p>M12x1 Ø15</p> <p>1 = BN 5 = GY 2 = WH 6 = BK 3 = BU 4 = PK</p>
	5 m	M12A-M6A/B-L5V	11 03 006 0111	
	10 m	M12A-M6A/B-L10V	11 03 006 0112	


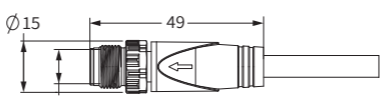

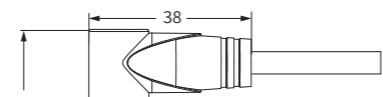
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>8-pole, straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M8S-L2V	11 03 008 1100	 <p>Ø15 49</p> <p>M12x1</p> <p>1 = WH 5 = GY 2 = BN 6 = PK 3 = GN 7 = BU 4 = YE 8 = RD</p>
	5 m	M12A-M8S-L5V	11 03 008 1101	
	10 m	M12A-M8S-L10V	11 03 008 1102	
<b>8-pole, angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M8A-L2V	11 03 008 0100	 <p>38 34</p> <p>M12x1 Ø15</p> <p>1 = WH 5 = GY 2 = BN 6 = PK 3 = GN 7 = BU 4 = YE 8 = RD</p>
	5 m	M12A-M8A-L5V	11 03 008 0101	
	10 m	M12A-M8A-L10V	11 03 008 0102	


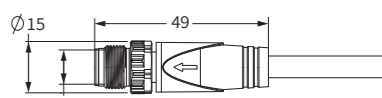

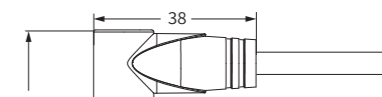
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)												
<b>12-pole, straight, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M12S-L2V	11 03 012 1100	 <p>M12x1</p> <table border="0"> <tr><td>1 = BN</td><td>7 = BK</td></tr> <tr><td>2 = BU</td><td>8 = GY</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN</td><td>10 = VT</td></tr> <tr><td>5 = PK</td><td>11 = GY/PK</td></tr> <tr><td>6 = YE</td><td>12 = RD/BU</td></tr> </table>	1 = BN	7 = BK	2 = BU	8 = GY	3 = WH	9 = RD	4 = GN	10 = VT	5 = PK	11 = GY/PK	6 = YE	12 = RD/BU
	1 = BN	7 = BK														
	2 = BU	8 = GY														
3 = WH	9 = RD															
4 = GN	10 = VT															
5 = PK	11 = GY/PK															
6 = YE	12 = RD/BU															
5 m	M12A-M12S-L5V	11 03 012 1101														
10 m	M12A-M12S-L10V	11 03 012 1102														
<b>12-pole, angled, male,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M12A-L2V	11 03 012 0100	 <p>M12x1</p> <table border="0"> <tr><td>1 = BN</td><td>7 = BK</td></tr> <tr><td>2 = BU</td><td>8 = GY</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN</td><td>10 = VT</td></tr> <tr><td>5 = PK</td><td>11 = GY/PK</td></tr> <tr><td>6 = YE</td><td>12 = RD/BU</td></tr> </table>	1 = BN	7 = BK	2 = BU	8 = GY	3 = WH	9 = RD	4 = GN	10 = VT	5 = PK	11 = GY/PK	6 = YE	12 = RD/BU
	1 = BN	7 = BK														
	2 = BU	8 = GY														
3 = WH	9 = RD															
4 = GN	10 = VT															
5 = PK	11 = GY/PK															
6 = YE	12 = RD/BU															
5 m	M12A-M12A-L5V	11 03 012 0101														
10 m	M12A-M12A-L10V	11 03 012 0102														

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)																		
<b>17-pole, straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M17S-L2V	11 03 017 1100	 <p>M12x1</p> <table border="0"> <tr><td>1 = BN</td><td>10 = VT</td></tr> <tr><td>2 = BU</td><td>11 = GY/PK</td></tr> <tr><td>3 = WH</td><td>12 = RD/BU</td></tr> <tr><td>4 = GN</td><td>13 = WH/GN</td></tr> <tr><td>5 = PK</td><td>14 = BN/GN</td></tr> <tr><td>6 = YE</td><td>15 = WH/YE</td></tr> <tr><td>7 = BK</td><td>16 = YE/BN</td></tr> <tr><td>8 = GY</td><td>17 = WH/GY</td></tr> <tr><td>9 = RD</td><td></td></tr> </table>	1 = BN	10 = VT	2 = BU	11 = GY/PK	3 = WH	12 = RD/BU	4 = GN	13 = WH/GN	5 = PK	14 = BN/GN	6 = YE	15 = WH/YE	7 = BK	16 = YE/BN	8 = GY	17 = WH/GY	9 = RD	
	1 = BN	10 = VT																				
	2 = BU	11 = GY/PK																				
3 = WH	12 = RD/BU																					
4 = GN	13 = WH/GN																					
5 = PK	14 = BN/GN																					
6 = YE	15 = WH/YE																					
7 = BK	16 = YE/BN																					
8 = GY	17 = WH/GY																					
9 = RD																						
5 m	M12A-M17S-L5V	11 03 017 1101																				
10 m	M12A-M17S-L10V	11 03 017 1102																				
<b>17-pole, angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-M17A-L2V	11 03 017 0100	 <p>M12x1</p> <table border="0"> <tr><td>1 = BN</td><td>10 = VT</td></tr> <tr><td>2 = BU</td><td>11 = GY/PK</td></tr> <tr><td>3 = WH</td><td>12 = RD/BU</td></tr> <tr><td>4 = GN</td><td>13 = WH/GN</td></tr> <tr><td>5 = PK</td><td>14 = BN/GN</td></tr> <tr><td>6 = YE</td><td>15 = WH/YE</td></tr> <tr><td>7 = BK</td><td>16 = YE/BN</td></tr> <tr><td>8 = GY</td><td>17 = WH/GY</td></tr> <tr><td>9 = RD</td><td></td></tr> </table>	1 = BN	10 = VT	2 = BU	11 = GY/PK	3 = WH	12 = RD/BU	4 = GN	13 = WH/GN	5 = PK	14 = BN/GN	6 = YE	15 = WH/YE	7 = BK	16 = YE/BN	8 = GY	17 = WH/GY	9 = RD	
	1 = BN	10 = VT																				
	2 = BU	11 = GY/PK																				
3 = WH	12 = RD/BU																					
4 = GN	13 = WH/GN																					
5 = PK	14 = BN/GN																					
6 = YE	15 = WH/YE																					
7 = BK	16 = YE/BN																					
8 = GY	17 = WH/GY																					
9 = RD																						
5 m	M12A-M17A-L5V	11 03 017 0101																				
10 m	M12A-M17A-L10V	11 03 017 0102																				

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.


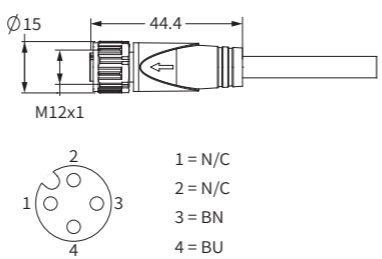

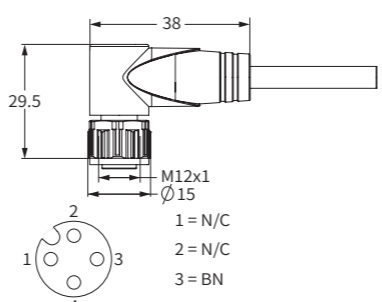

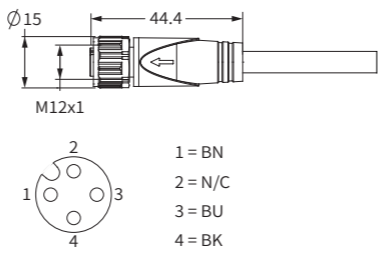

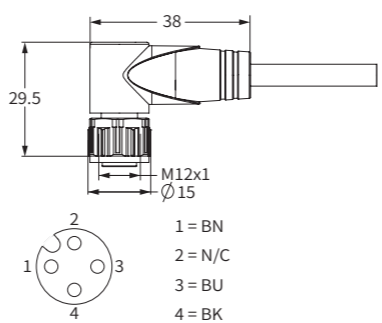


Sensor/Actuator Cordsets, 2 and 3-poles, female, shielded, Anti-vibration


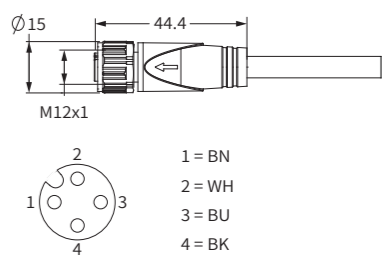

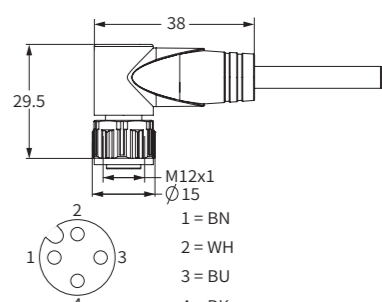
Sensor/Actuator Cordsets, 4-pole, female, shielded, Anti-vibration

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 250	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 250	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>2-pole, straight, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF2S-L2SV	11 03 102 1200	 <p>1 = N/C 2 = N/C 3 = BN 4 = BU</p>
	5 m	M12A-SF2S-L5SV	11 03 102 1201	
	10 m	M12A-SF2S-L10SV	11 03 102 1202	
<b>2-pole, angled, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF2A-L2SV	11 03 102 0200	 <p>1 = N/C 2 = N/C 3 = BN 4 = BU</p>
	5 m	M12A-SF2A-L5SV	11 03 102 0201	
	10 m	M12A-SF2A-L10SV	11 03 102 0202	
<b>3-pole, straight, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF3S-L2SV	11 03 103 1200	 <p>1 = BN 2 = N/C 3 = BU 4 = BK</p>
	5 m	M12A-SF3S-L5SV	11 03 103 1201	
	10 m	M12A-SF3S-L10SV	11 03 103 1202	
<b>3-pole, angled, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF3A-L2SV	11 03 103 0200	 <p>1 = BN 2 = N/C 3 = BU 4 = BK</p>
	5 m	M12A-SF3A-L5SV	11 03 103 0201	
	10 m	M12A-SF3A-L10SV	11 03 103 0202	

1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF4S-L2SV	11 03 104 1200	 <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M12A-SF4S-L5SV	11 03 104 1201	
	10 m	M12A-SF4S-L10SV	11 03 104 1202	
<b>4-pole, angled, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF4A-L2SV	11 03 104 0200	 <p>1 = BN 2 = WH 3 = BU 4 = BK</p>
	5 m	M12A-SF4A-L5SV	11 03 104 0201	
	10 m	M12A-SF4A-L10SV	11 03 104 0202	


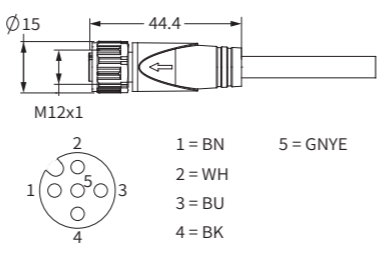

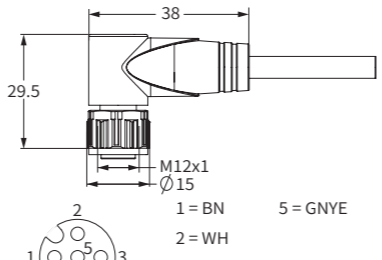

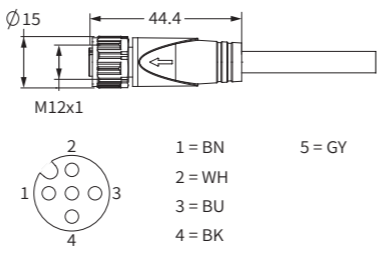

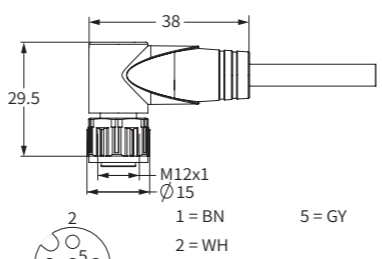
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics


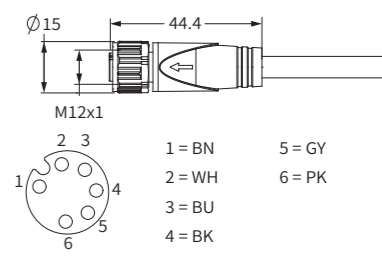

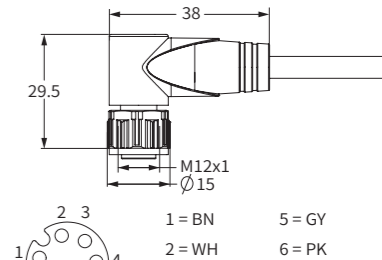
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 60	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 2	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole(+PE), straight, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF5S-L2SV-5GNYE	11 03 105 1280	 <p>Ø15 44.4 M12x1</p> <p>1 = BN 5 = GNYE 2 = WH 3 = BU 4 = BK</p>
	5 m	M12A-SF5S-L5SV-5GNYE	11 03 105 1281	
	10 m	M12A-SF5S-L10SV-5GNYE	11 03 105 1282	
<b>5-pole(+PE), angled, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF5A-L2SV-5GNYE	11 03 105 0280	 <p>38 29.5 M12x1 Ø15</p> <p>1 = BN 5 = GNYE 2 = WH 3 = BU 4 = BK</p>
	5 m	M12A-SF5A-L5SV-5GNYE	11 03 105 0281	
	10 m	M12A-SF5A-L10SV-5GNYE	11 03 105 0282	
<b>5-pole, straight, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF5S-L2SV	11 03 105 1200	 <p>Ø15 44.4 M12x1</p> <p>1 = BN 5 = GY 2 = WH 3 = BU 4 = BK</p>
	5 m	M12A-SF5S-L5SV	11 03 105 1201	
	10 m	M12A-SF5S-L10SV	11 03 105 1202	
<b>5-pole, angled, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF5A-L2SV	11 03 105 0200	 <p>38 29.5 M12x1 Ø15</p> <p>1 = BN 5 = GY 2 = WH 3 = BU 4 = BK</p>
	5 m	M12A-SF5A-L5SV	11 03 105 0201	
	10 m	M12A-SF5A-L10SV	11 03 105 0202	


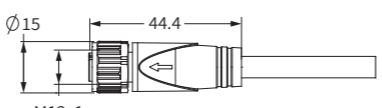

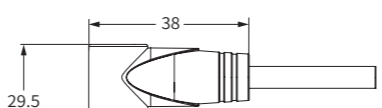
1): Cable type U= PUR and UT= PUR-carrier chain are optional, variable cable length is possible.


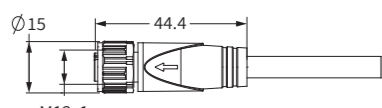

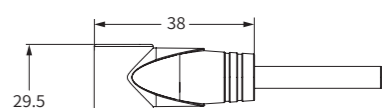
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole, straight, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF6S-L2SV	11 03 106 1200	 <p>Ø15 44.4 M12x1</p> <p>1 = BN 5 = GY 2 = WH 6 = PK 3 = BU 4 = BK</p>
	5 m	M12A-SF6S-L5SV	11 03 106 1201	
	10 m	M12A-SF6S-L10SV	11 03 106 1202	
<b>6-pole, angled, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF6A-L2SV	11 03 106 0200	 <p>38 29.5 M12x1 Ø15</p> <p>1 = BN 5 = GY 2 = WH 6 = PK 3 = BU 4 = BK</p>
	5 m	M12A-SF6A-L5SV	11 03 106 0201	
	10 m	M12A-SF6A-L10SV	11 03 106 0202	

1): Cable type UT= PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 2	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole(4+2), straight, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF6S/B-L2SV	11 03 106 1210	 <p>Ø15 44.4</p> <p>M12x1</p> <p>1 = BN 5 = GY 2 = WH 6 = BK 3 = BU 4 = PK</p>
	5 m	M12A-SF6S/B-L5SV	11 03 106 1211	
	10 m	M12A-SF6S/B-L10SV	11 03 106 1212	
<b>6-pole(4+2), angled, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF6A/B-L2SV	11 03 106 0210	 <p>38</p> <p>29.5</p> <p>M12x1</p> <p>Ø15</p> <p>1 = BN 5 = GY 2 = WH 6 = BK 3 = BU 4 = PK</p>
	5 m	M12A-SF6A/B-L5SV	11 03 106 0211	
	10 m	M12A-SF6A/B-L10SV	11 03 106 0212	

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>8-pole, straight, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF8S-L2SV	11 03 108 1200	 <p>Ø15 44.4</p> <p>M12x1</p> <p>1 = WH 5 = GY 2 = BN 6 = PK 3 = GN 7 = BU 4 = YE 8 = RD</p>
	5 m	M12A-SF8S-L5SV	11 03 108 1201	
	10 m	M12A-SF8S-L10SV	11 03 108 1202	
<b>8-pole, angled, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF8A-L2SV	11 03 108 0200	 <p>38</p> <p>29.5</p> <p>M12x1</p> <p>Ø15</p> <p>1 = WH 5 = GY 2 = BN 6 = PK 3 = GN 7 = BU 4 = YE 8 = RD</p>
	5 m	M12A-SF8A-L5SV	11 03 108 0201	
	10 m	M12A-SF8A-L10SV	11 03 108 0202	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Sensor/Actuator Cordsets, 12-pole, female, shielded, Anti-vibration


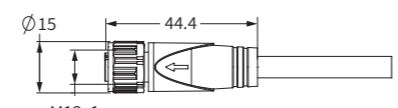

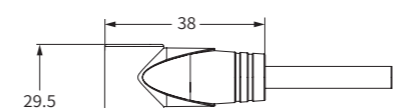
Sensor/Actuator Cordsets, 17-pole, female, shielded, Anti-vibration

Technical characteristics


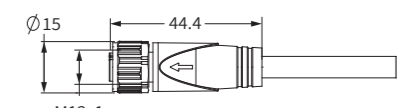

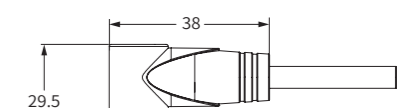
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1,5	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
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Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)												
<b>12-pole, straight, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF12S-L2SV	11 03 112 1200	 <p>M12x1</p> <table border="0"> <tr><td>1 = BN</td><td>7 = BK</td></tr> <tr><td>2 = BU</td><td>8 = GY</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN</td><td>10 = VT</td></tr> <tr><td>5 = PK</td><td>11 = GY/PK</td></tr> <tr><td>6 = YE</td><td>12 = RD/BU</td></tr> </table>	1 = BN	7 = BK	2 = BU	8 = GY	3 = WH	9 = RD	4 = GN	10 = VT	5 = PK	11 = GY/PK	6 = YE	12 = RD/BU
	1 = BN	7 = BK														
	2 = BU	8 = GY														
3 = WH	9 = RD															
4 = GN	10 = VT															
5 = PK	11 = GY/PK															
6 = YE	12 = RD/BU															
5 m	M12A-SF12S-L5SV	11 03 112 1201														
10 m	M12A-SF12S-L10SV	11 03 112 1202														
<b>12-pole, angled, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF12A-L2SV	11 03 112 0200	 <p>M12x1 ∅15</p> <table border="0"> <tr><td>1 = BN</td><td>7 = BK</td></tr> <tr><td>2 = BU</td><td>8 = GY</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN</td><td>10 = VT</td></tr> <tr><td>5 = PK</td><td>11 = GY/PK</td></tr> <tr><td>6 = YE</td><td>12 = RD/BU</td></tr> </table>	1 = BN	7 = BK	2 = BU	8 = GY	3 = WH	9 = RD	4 = GN	10 = VT	5 = PK	11 = GY/PK	6 = YE	12 = RD/BU
	1 = BN	7 = BK														
	2 = BU	8 = GY														
3 = WH	9 = RD															
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5 m	M12A-SF12A-L5SV	11 03 112 0201														
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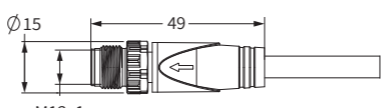
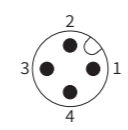

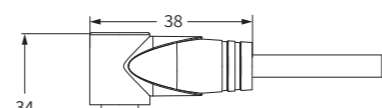

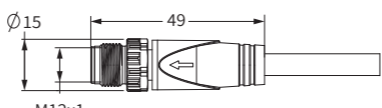

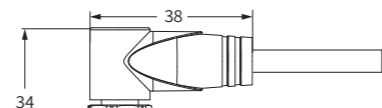
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)																		
<b>17-pole, straight, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF17S-L2SV	11 03 117 1200	 <p>M12x1</p> <table border="0"> <tr><td>1 = BN</td><td>10 = VT</td></tr> <tr><td>2 = BU</td><td>11 = GY/PK</td></tr> <tr><td>3 = WH</td><td>12 = RD/BU</td></tr> <tr><td>4 = GN</td><td>13 = WH/GN</td></tr> <tr><td>5 = PK</td><td>14 = BN/GN</td></tr> <tr><td>6 = YE</td><td>15 = WH/YE</td></tr> <tr><td>7 = BK</td><td>16 = YE/BN</td></tr> <tr><td>8 = GY</td><td>17 = WH/GY</td></tr> <tr><td>9 = RD</td><td></td></tr> </table>	1 = BN	10 = VT	2 = BU	11 = GY/PK	3 = WH	12 = RD/BU	4 = GN	13 = WH/GN	5 = PK	14 = BN/GN	6 = YE	15 = WH/YE	7 = BK	16 = YE/BN	8 = GY	17 = WH/GY	9 = RD	
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5 m	M12A-SF17S-L5SV	11 03 117 1201																				
10 m	M12A-SF17S-L10SV	11 03 117 1202																				
<b>17-pole, angled, female,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SF17A-L2SV	11 03 117 0200	 <p>M12x1 ∅15</p> <table border="0"> <tr><td>1 = BN</td><td>10 = VT</td></tr> <tr><td>2 = BU</td><td>11 = GY/PK</td></tr> <tr><td>3 = WH</td><td>12 = RD/BU</td></tr> <tr><td>4 = GN</td><td>13 = WH/GN</td></tr> <tr><td>5 = PK</td><td>14 = BN/GN</td></tr> <tr><td>6 = YE</td><td>15 = WH/YE</td></tr> <tr><td>7 = BK</td><td>16 = YE/BN</td></tr> <tr><td>8 = GY</td><td>17 = WH/GY</td></tr> <tr><td>9 = RD</td><td></td></tr> </table>	1 = BN	10 = VT	2 = BU	11 = GY/PK	3 = WH	12 = RD/BU	4 = GN	13 = WH/GN	5 = PK	14 = BN/GN	6 = YE	15 = WH/YE	7 = BK	16 = YE/BN	8 = GY	17 = WH/GY	9 = RD	
	1 = BN	10 = VT																				
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5 m	M12A-SF17A-L5SV	11 03 117 0201																				
10 m	M12A-SF17A-L10SV	11 03 117 0202																				


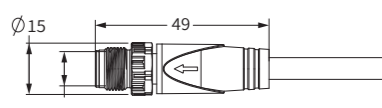
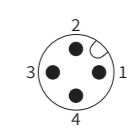

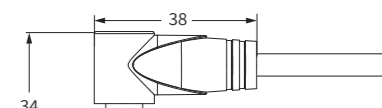
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 250	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 250	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>2-pole, straight, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM2S-L2SV	11 03 102 1100	 M12x1  1 = N/C 2 = N/C 3 = BN 4 = BU
	5 m	M12A-SM2S-L5SV	11 03 102 1101	
	10 m	M12A-SM2S-L10SV	11 03 102 1102	
<b>2-pole, angled, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM2A-L2SV	11 03 102 0100	 M12x1 Ø15 1 = N/C 2 = N/C 3 = BN 4 = BU
	5 m	M12A-SM2A-L5SV	11 03 102 0101	
	10 m	M12A-SM2A-L10SV	11 03 102 0102	
<b>3-pole, straight, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM3S-L2SV	11 03 103 1100	 M12x1 Ø15 1 = BN 2 = N/C 3 = BU 4 = BK
	5 m	M12A-SM3S-L5SV	11 03 103 1101	
	10 m	M12A-SM3S-L10SV	11 03 103 1102	
<b>3-pole, angled, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM3A-L2SV	11 03 103 0100	 M12x1 Ø15 1 = BN 2 = N/C 3 = BU 4 = BK
	5 m	M12A-SM3A-L5SV	11 03 103 0101	
	10 m	M12A-SM3A-L10SV	11 03 103 0102	


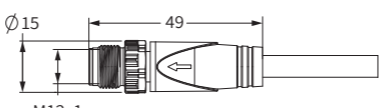
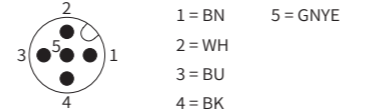

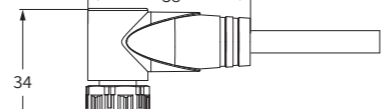
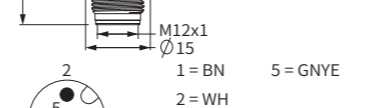

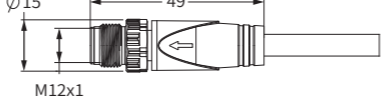
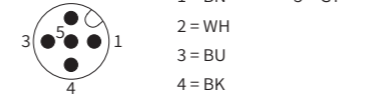

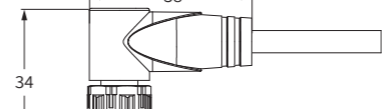
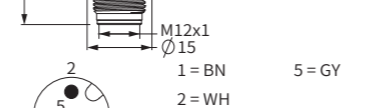
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM4S-L2SV	11 03 104 1100	 M12x1  1 = BN 2 = WH 3 = BU 4 = BK
	5 m	M12A-SM4S-L5SV	11 03 104 1101	
	10 m	M12A-SM4S-L10SV	11 03 104 1102	
<b>4-pole, angled, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM4A-L2SV	11 03 104 0100	 M12x1 Ø15 1 = BN 2 = WH 3 = BU 4 = BK
	5 m	M12A-SM4A-L5SV	11 03 104 0101	
	10 m	M12A-SM4A-L10SV	11 03 104 0102	


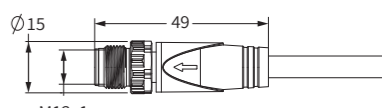
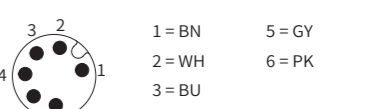

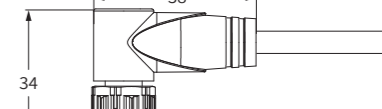
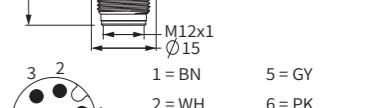
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 60	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 2	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole (+PE), straight, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM5S-L2SV-5GNYE	11 03 105 1180	 Ø15      49 M12x1  1 = BN      5 = GNYE 2 = WH 3 = BU 4 = BK
	5 m	M12A-SM5S-L5SV-5GNYE	11 03 105 1181	
	10 m	M12A-SM5S-L10SV-5GNYE	11 03 105 1182	
<b>5-pole (+PE), angled, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM5A-L2SV-5GNYE	11 03 105 0180	 38 34 M12x1 Ø15  1 = BN      5 = GNYE 2 = WH 3 = BU 4 = BK
	5 m	M12A-SM5A-L5SV-5GNYE	11 03 105 0181	
	10 m	M12A-SM5A-L10SV-5GNYE	11 03 105 0182	
<b>5-pole, straight, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM5S-L2SV	11 03 105 1100	 Ø15      49 M12x1  1 = BN      5 = GY 2 = WH 3 = BU 4 = BK
	5 m	M12A-SM5S-L5SV	11 03 105 1101	
	10 m	M12A-SM5S-L10SV	11 03 105 1102	
<b>5-pole, angled, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM5A-L2SV	11 03 105 0100	 38 34 M12x1 Ø15  1 = BN      5 = GY 2 = WH 3 = BU 4 = BK
	5 m	M12A-SM5A-L5SV	11 03 105 0101	
	10 m	M12A-SM5A-L10SV	11 03 105 0102	


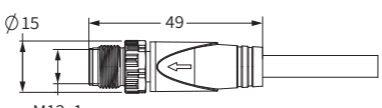

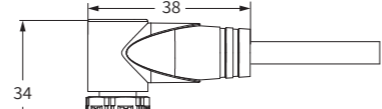
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.


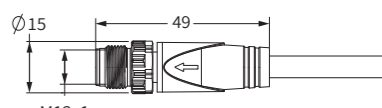

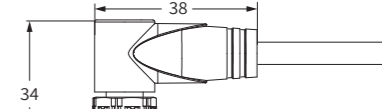
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole, straight, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM6S-L2SV	11 03 106 1100	 Ø15      49 M12x1  1 = BN      5 = GY 2 = WH      6 = PK 3 = BU 4 = BK
	5 m	M12A-SM6S-L5SV	11 03 106 1101	
	10 m	M12A-SM6S-L10SV	11 03 106 1102	
<b>6-pole, angled, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM6A-L2SV	11 03 106 0100	 38 34 M12x1 Ø15  1 = BN      5 = GY 2 = WH      6 = PK 3 = BU 4 = BK
	5 m	M12A-SM6A-L5SV	11 03 106 0101	
	10 m	M12A-SM6A-L10SV	11 03 106 0102	

1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 2	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>6-pole(4+2), straight, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM6S/B-L2SV	11 03 106 1110	 <p>Ø15 49</p> <p>M12x1</p> <p>1 = BN 5 = GY 2 = WH 6 = BK 3 = BU 4 = PK</p>
	5 m	M12A-SM6S/B-L5SV	11 03 106 1111	
	10 m	M12A-SM6S/B-L10SV	11 03 106 1112	
<b>6-pole(4+2), angled, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM6A/B-L2SV	11 03 106 0110	 <p>38 34</p> <p>M12x1 Ø15</p> <p>1 = BN 5 = GY 2 = WH 6 = BK 3 = BU 4 = PK</p>
	5 m	M12A-SM6A/B-L5SV	11 03 106 0111	
	10 m	M12A-SM6A/B-L10SV	11 03 106 0112	


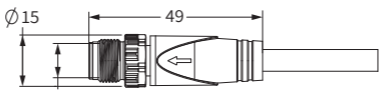

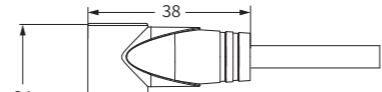
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>8-pole, straight, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM8S-L2SV	11 03 108 1100	 <p>Ø15 49</p> <p>M12x1</p> <p>1 = WH 5 = GY 2 = BN 6 = PK 3 = GN 7 = BU 4 = YE 8 = RD</p>
	5 m	M12A-SM8S-L5SV	11 03 108 1101	
	10 m	M12A-SM8S-L10SV	11 03 108 1102	
<b>8-pole, angled, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM8A-L2SV	11 03 108 0100	 <p>38 34</p> <p>M12x1 Ø15</p> <p>1 = WH 5 = GY 2 = BN 6 = PK 3 = GN 7 = BU 4 = YE 8 = RD</p>
	5 m	M12A-SM8A-L5SV	11 03 108 0101	
	10 m	M12A-SM8A-L10SV	11 03 108 0102	


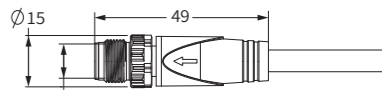

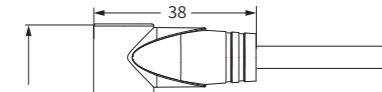
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 1.5	Tightening torque	0.4 Nm
Rated voltage	[V] 30	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)												
<b>12-pole, straight, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM12S-L2SV	11 03 112 1100	 <p>M12x1</p> <table border="0"> <tr><td>1 = BN</td><td>7 = BK</td></tr> <tr><td>2 = BU</td><td>8 = GY</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN</td><td>10 = VT</td></tr> <tr><td>5 = PK</td><td>11 = GY/PK</td></tr> <tr><td>6 = YE</td><td>12 = RD/BU</td></tr> </table>	1 = BN	7 = BK	2 = BU	8 = GY	3 = WH	9 = RD	4 = GN	10 = VT	5 = PK	11 = GY/PK	6 = YE	12 = RD/BU
	1 = BN	7 = BK														
	2 = BU	8 = GY														
3 = WH	9 = RD															
4 = GN	10 = VT															
5 = PK	11 = GY/PK															
6 = YE	12 = RD/BU															
5 m	M12A-SM12S-L5SV	11 03 112 1101														
10 m	M12A-SM12S-L10SV	11 03 112 1102														
<b>12-pole, angled, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM12A-L2SV	11 03 112 0100	 <p>M12x1 ∅15</p> <table border="0"> <tr><td>1 = BN</td><td>7 = BK</td></tr> <tr><td>2 = BU</td><td>8 = GY</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN</td><td>10 = VT</td></tr> <tr><td>5 = PK</td><td>11 = GY/PK</td></tr> <tr><td>6 = YE</td><td>12 = RD/BU</td></tr> </table>	1 = BN	7 = BK	2 = BU	8 = GY	3 = WH	9 = RD	4 = GN	10 = VT	5 = PK	11 = GY/PK	6 = YE	12 = RD/BU
	1 = BN	7 = BK														
	2 = BU	8 = GY														
3 = WH	9 = RD															
4 = GN	10 = VT															
5 = PK	11 = GY/PK															
6 = YE	12 = RD/BU															
5 m	M12A-SM12A-L5SV	11 03 112 0101														
10 m	M12A-SM12A-L10SV	11 03 112 0102														

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)																		
<b>17-pole, straight, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM17S-L2SV	11 03 117 1100	 <p>M12x1</p> <table border="0"> <tr><td>1 = BN</td><td>10 = VT</td></tr> <tr><td>2 = BU</td><td>11 = GY/PK</td></tr> <tr><td>3 = WH</td><td>12 = RD/BU</td></tr> <tr><td>4 = GN</td><td>13 = WH/GN</td></tr> <tr><td>5 = PK</td><td>14 = BN/GN</td></tr> <tr><td>6 = YE</td><td>15 = WH/YE</td></tr> <tr><td>7 = BK</td><td>16 = YE/BN</td></tr> <tr><td>8 = GY</td><td>17 = WH/GY</td></tr> <tr><td>9 = RD</td><td></td></tr> </table>	1 = BN	10 = VT	2 = BU	11 = GY/PK	3 = WH	12 = RD/BU	4 = GN	13 = WH/GN	5 = PK	14 = BN/GN	6 = YE	15 = WH/YE	7 = BK	16 = YE/BN	8 = GY	17 = WH/GY	9 = RD	
	1 = BN	10 = VT																				
	2 = BU	11 = GY/PK																				
3 = WH	12 = RD/BU																					
4 = GN	13 = WH/GN																					
5 = PK	14 = BN/GN																					
6 = YE	15 = WH/YE																					
7 = BK	16 = YE/BN																					
8 = GY	17 = WH/GY																					
9 = RD																						
5 m	M12A-SM17S-L5SV	11 03 117 1101																				
10 m	M12A-SM17S-L10SV	11 03 117 1102																				
<b>17-pole, angled, male,</b> M12 A-code, cable type: SV, Anti-vibration 	2 m	M12A-SM17A-L2SV	11 03 117 0100	 <p>M12x1 ∅15</p> <table border="0"> <tr><td>1 = BN</td><td>10 = VT</td></tr> <tr><td>2 = BU</td><td>11 = GY/PK</td></tr> <tr><td>3 = WH</td><td>12 = RD/BU</td></tr> <tr><td>4 = GN</td><td>13 = WH/GN</td></tr> <tr><td>5 = PK</td><td>14 = BN/GN</td></tr> <tr><td>6 = YE</td><td>15 = WH/YE</td></tr> <tr><td>7 = BK</td><td>16 = YE/BN</td></tr> <tr><td>8 = GY</td><td>17 = WH/GY</td></tr> <tr><td>9 = RD</td><td></td></tr> </table>	1 = BN	10 = VT	2 = BU	11 = GY/PK	3 = WH	12 = RD/BU	4 = GN	13 = WH/GN	5 = PK	14 = BN/GN	6 = YE	15 = WH/YE	7 = BK	16 = YE/BN	8 = GY	17 = WH/GY	9 = RD	
	1 = BN	10 = VT																				
	2 = BU	11 = GY/PK																				
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4 = GN	13 = WH/GN																					
5 = PK	14 = BN/GN																					
6 = YE	15 = WH/YE																					
7 = BK	16 = YE/BN																					
8 = GY	17 = WH/GY																					
9 = RD																						
5 m	M12A-SM17A-L5SV	11 03 117 0101																				
10 m	M12A-SM17A-L10SV	11 03 117 0102																				

1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

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Sensor/Actuator Cordsets with LED, 3 and 4-poles, female, Anti-vibration

Sensor/Actuator Cordsets with LED, 4-pole(+Red) and 5-pole(+PE), female, Anti-vibration

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 10-30VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-transparent	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 10-30VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-transparent	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
3-pole, straight, female, M12 A-code, cable type: V, Anti-vibration	2 m	M12A-F3S-L2V-LED	11 03 003 1220	
	5 m	M12A-F3S-L5V-LED	11 03 003 1221	
	10 m	M12A-F3S-L10V-LED	11 03 003 1222	
3-pole, angled, female, M12 A-code, cable type: V, Anti-vibration	2 m	M12A-F3A-L2V-LED	11 03 003 0220	
	5 m	M12A-F3A-L5V-LED	11 03 003 0221	
	10 m	M12A-F3A-L10V-LED	11 03 003 0222	
4-pole, straight, female, M12 A-code, cable type: V, Anti-vibration	2 m	M12A-F4S-L2V-LED	11 03 004 1220	
	5 m	M12A-F4S-L5V-LED	11 03 004 1221	
	10 m	M12A-F4S-L10V-LED	11 03 004 1222	
4-pole, angled, female, M12 A-code, cable type: V, Anti-vibration	2 m	M12A-F4A-L2V-LED	11 03 004 0220	
	5 m	M12A-F4A-L5V-LED	11 03 004 0221	
	10 m	M12A-F4A-L10V-LED	11 03 004 0222	


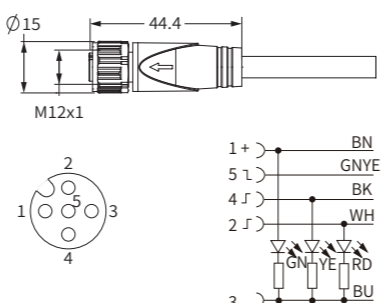

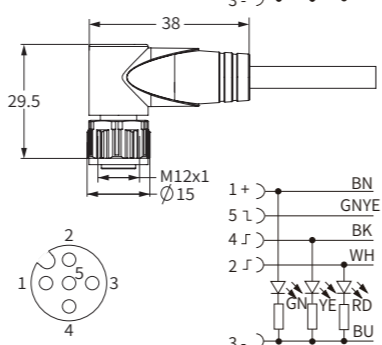
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
4-pole(+Red), straight, female, M12 A-code, cable type: V, Anti-vibration	2 m	M12A-F4S-L2V-LED/RD	11 03 004 1223	
	5 m	M12A-F4S-L5V-LED/RD	11 03 004 1224	
	10 m	M12A-F4S-L10V-LED/RD	11 03 004 1225	
4-pole(+Red), angled, female, M12 A-code, cable type: V, Anti-vibration	2 m	M12A-F4A-L2V-LED/RD	11 03 004 0223	
	5 m	M12A-F4A-L5V-LED/RD	11 03 004 0224	
	10 m	M12A-F4A-L10V-LED/RD	11 03 004 0225	
5-pole(+PE), straight, female, M12 A-code, cable type: V, Anti-vibration	2 m	M12A-F5S-L2V-5GNYE-LED	11 03 005 1220	
	5 m	M12A-F5S-L5V-5GNYE-LED	11 03 005 1221	
	10 m	M12A-F5S-L10V-5GNYE-LED	11 03 005 1222	
5-pole(+PE), angled, female, M12 A-code, cable type: V, Anti-vibration	2 m	M12A-F5A-L2V-5GNYE-LED	11 03 005 0220	
	5 m	M12A-F5A-L5V-5GNYE-LED	11 03 005 0221	
	10 m	M12A-F5A-L10V-5GNYE-LED	11 03 005 0222	


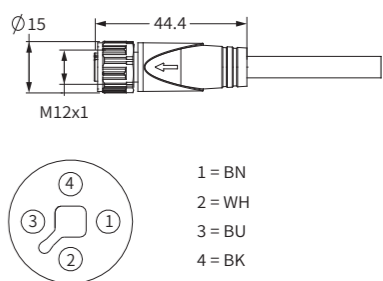

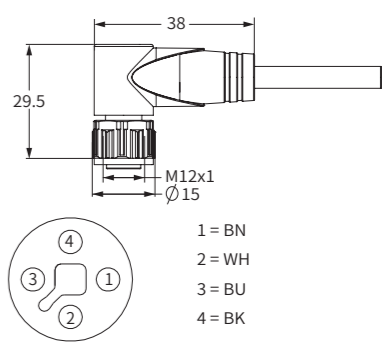
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Cable description	PVC-black
Rated current	[A] 4	Tightening torque	0.4 Nm
Rated voltage	[V] 10-30VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-transparent	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	T-code	Cable description	PVC-black
Rated current	[A] 12	Tightening torque	0.4 Nm
Rated voltage	[V] 63VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole(+PE/+Red), straight, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F5S-L2V-5GNYE	11 03 005 1223	
	5 m	M12A-F5S-L5V-5GNYE	11 03 005 1224	
	10 m	M12A-F5S-L10V-5GNYE	11 03 005 1225	
<b>5-pole(+PE/+Red), angled, female,</b> M12 A-code, cable type: V, Anti-vibration 	2 m	M12A-F5A-L2V-5GNYE	11 03 005 0223	
	5 m	M12A-F5A-L5V-5GNYE	11 03 005 0224	
	10 m	M12A-F5A-L10V-5GNYE	11 03 005 0225	


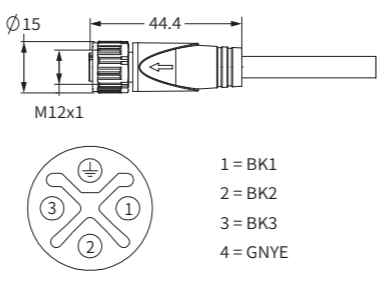

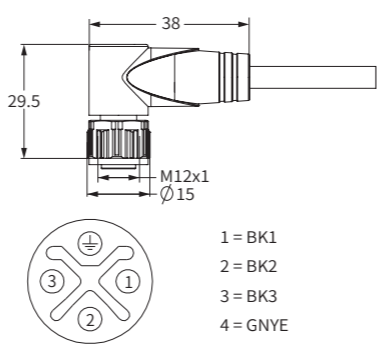
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.


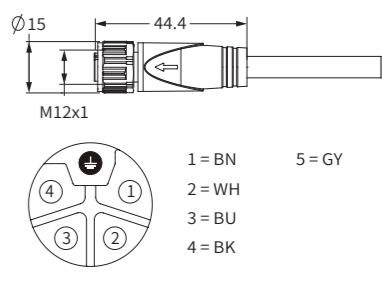

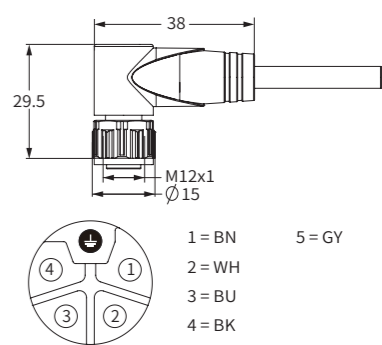
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, female,</b> M12 T-code, cable type: V, Anti-vibration 	2 m	M12T-F4S-L2V	11 09 004 1200	
	5 m	M12T-F4S-L5V	11 09 004 1201	
	10 m	M12T-F4S-L10V	11 09 004 1202	
<b>4-pole, angled, female,</b> M12 T-code, cable type: V, Anti-vibration 	2 m	M12T-F4A-L2V	11 09 004 0200	
	5 m	M12T-F4A-L5V	11 09 004 0201	
	10 m	M12T-F4A-L10V	11 09 004 0202	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	S-code	Cable description	PVC-black
Rated current	[A] 12	Tightening torque	0.4 Nm
Rated voltage	[V] 630VAC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	L-code	Cable description	PVC-black
Rated current	[A] 16	Tightening torque	0.4 Nm
Rated voltage	[V] 63VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole(+PE), straight, female,</b> M12 S-code, cable type: V, Anti-vibration 	2 m	M12S-F4S-L2V	11 15 004 1200	 <p>1 = BK1 2 = BK2 3 = BK3 4 = GNYE</p>
	5 m	M12S-F4S-L5V	11 15 004 1201	
	10 m	M12S-F4S-L10V	11 15 004 1202	
<b>4-pole(+PE), angled, female,</b> M12 S-code, cable type: V, Anti-vibration 	2 m	M12S-F4A-L2V	11 15 004 0200	 <p>1 = BK1 2 = BK2 3 = BK3 4 = GNYE</p>
	5 m	M12S-F4A-L5V	11 15 004 0201	
	10 m	M12S-F4A-L10V	11 15 004 0202	


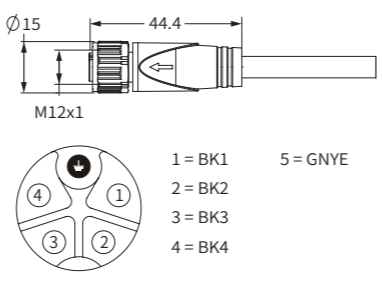

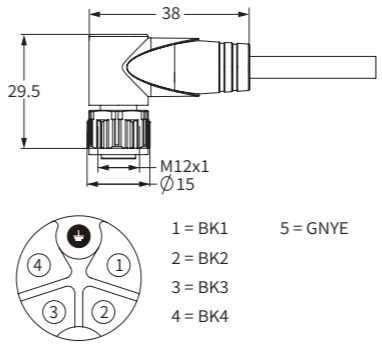
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole(+PE), straight, female,</b> M12 L-code, cable type: V, Anti-vibration 	2 m	M12L-F5S-L2V	11 16 005 1200	 <p>1 = BN      5 = GY 2 = WH 3 = BU 4 = BK</p>
	5 m	M12L-F5S-L5V	11 16 005 1201	
	10 m	M12L-F5S-L10V	11 16 005 1202	
<b>5-pole(+PE), angled, female,</b> M12 L-code, cable type: V, Anti-vibration 	2 m	M12L-F5A-L2V	11 16 005 0200	 <p>1 = BN      5 = GY 2 = WH 3 = BU 4 = BK</p>
	5 m	M12L-F5A-L5V	11 16 005 0201	
	10 m	M12L-F5A-L10V	11 16 005 0202	


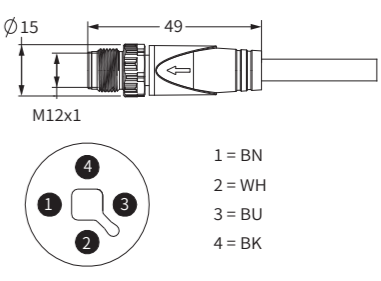

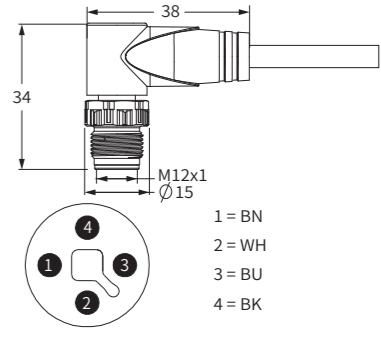
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	K-code	Cable description	PVC-black
Rated current	[A] 16	Tightening torque	0.4 Nm
Rated voltage	[V] 630VAC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	T-code	Cable description	PVC-black
Rated current	[A] 12	Tightening torque	0.4 Nm
Rated voltage	[V] 63VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole(+PE), straight, female,</b> M12 K-code, cable type: V, Anti-vibration 	2 m	M12K-F5S-L2V	11 17 005 1200	
	5 m	M12K-F5S-L5V	11 17 005 1201	
	10 m	M12K-F5S-L10V	11 17 005 1202	
<b>5-pole(+PE), angled, female,</b> M12 K-code, cable type: V, Anti-vibration 	2 m	M12K-F5A-L2V	11 17 005 0200	
	5 m	M12K-F5A-L5V	11 17 005 0201	
	10 m	M12K-F5A-L10V	11 17 005 0202	


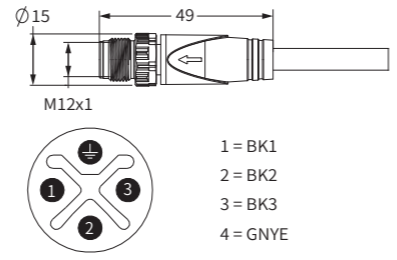

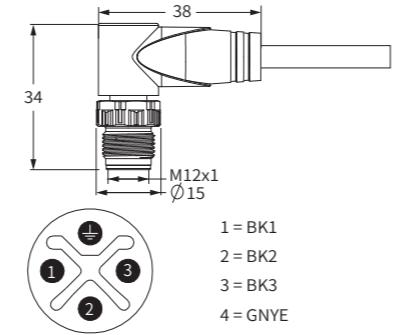
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, male,</b> M12 T-code, cable type: V, Anti-vibration 	2 m	M12T-M4S-L2V	11 09 004 1100	
	5 m	M12T-M4S-L5V	11 09 004 1101	
	10 m	M12T-M4S-L10V	11 09 004 1102	
<b>4-pole, angled, male,</b> M12 T-code, cable type: V, Anti-vibration 	2 m	M12T-M4A-L2V	11 09 004 0100	
	5 m	M12T-M4A-L5V	11 09 004 0101	
	10 m	M12T-M4A-L10V	11 09 004 0102	


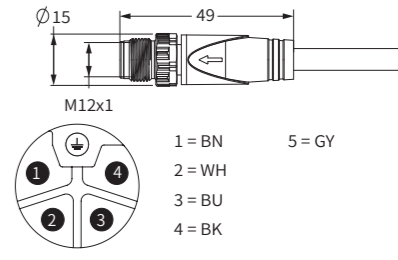

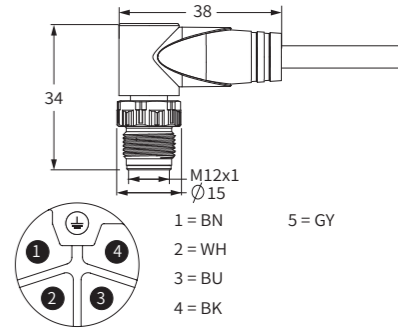
1): Cable type **UT=PUR-carrier chain** are optional, variable cable length is possible.

1): Cable type **U= PUR** and **UT=PUR-carrier chain** are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	S-code	Cable description	PVC-black
Rated current	[A] 12	Tightening torque	0.4 Nm
Rated voltage	[V] 630VAC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	L-code	Cable description	PVC-black
Rated current	[A] 16	Tightening torque	0.4 Nm
Rated voltage	[V] 63VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole(+PE), straight, male,</b> M12 S-code, cable type: V, Anti-vibration 	2 m	M12S-M4S-L2V	11 15 004 1100	
	5 m	M12S-M4S-L5V	11 15 004 1101	
	10 m	M12S-M4S-L10V	11 15 004 1102	
<b>4-pole(+PE), angled, male,</b> M12 S-code, cable type: V, Anti-vibration 	2 m	M12S-M4A-L2V	11 15 004 0100	
	5 m	M12S-M4A-L5V	11 15 004 0101	
	10 m	M12S-M4A-L10V	11 15 004 0102	


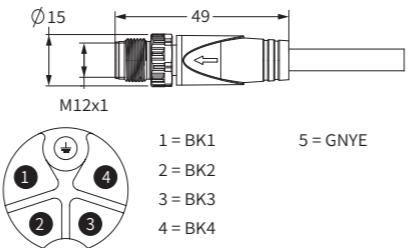

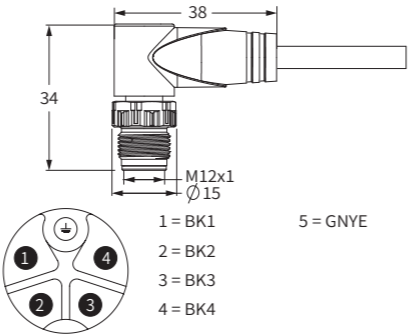
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole(+PE), straight, male,</b> M12 L-code, cable type: V, Anti-vibration 	2 m	M12L-M5S-L2V	11 16 005 1100	
	5 m	M12L-M5S-L5V	11 16 005 1101	
	10 m	M12L-M5S-L10V	11 16 005 1102	
<b>5-pole(+PE), angled, male,</b> M12 L-code, cable type: V, Anti-vibration 	2 m	M12L-M5A-L2V	11 16 005 0100	
	5 m	M12L-M5A-L5V	11 16 005 0101	
	10 m	M12L-M5A-L10V	11 16 005 0102	


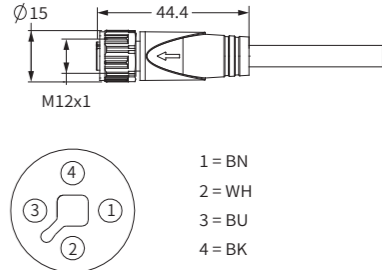

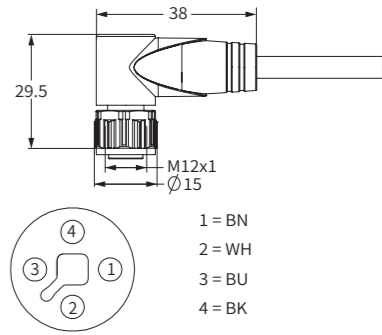
1): Cable type **UT=PUR-carrier chain** are optional, variable cable length is possible.

1): Cable type **U= PUR** and **UT=PUR-carrier chain** are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	K-code	Cable description	PVC-black
Rated current	[A] 16	Tightening torque	0.4 Nm
Rated voltage	[V] 630VAC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	T-code	Cable description	PVC-black
Rated current	[A] 12	Tightening torque	0.4 Nm
Rated voltage	[V] 63VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole(+PE), straight, male,</b> M12 K-code, cable type: V, Anti-vibration 	2 m	M12K-M5S-L2V	11 17 005 1100	
	5 m	M12K-M5S-L5V	11 17 005 1101	
	10 m	M12K-M5S-L10V	11 17 005 1102	
<b>5-pole(+PE), angled, male,</b> M12 K-code, cable type: V, Anti-vibration 	2 m	M12K-M5A-L2V	11 17 005 0100	
	5 m	M12K-M5A-L5V	11 17 005 0101	
	10 m	M12K-M5A-L10V	11 17 005 0102	


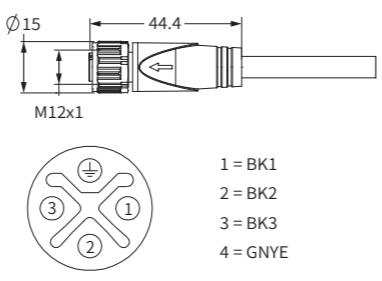

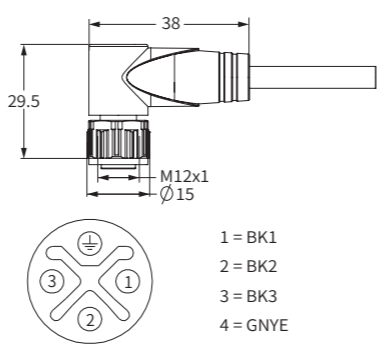
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, female,</b> M12 T-code, cable type: SV, Anti-vibration 	2 m	M12T-SF4S-L2SV	11 09 104 1200	
	5 m	M12T-SF4S-L5SV	11 09 104 1201	
	10 m	M12T-SF4S-L10SV	11 09 104 1202	
<b>4-pole, angled, female,</b> M12 T-code, cable type: SV, Anti-vibration 	2 m	M12T-SF4A-L2SV	11 09 104 0200	
	5 m	M12T-SF4A-L5SV	11 09 104 0201	
	10 m	M12T-SF4A-L10SV	11 09 104 0202	


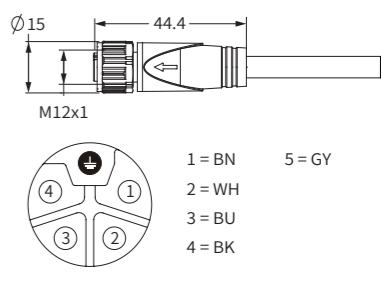

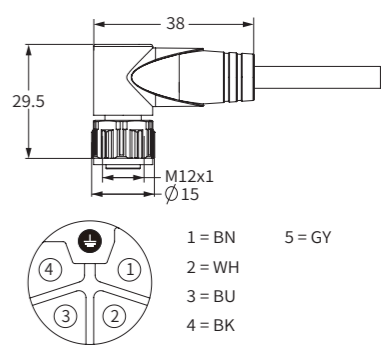
1): Cable type **UT=PUR-carrier chain** are optional, variable cable length is possible.

1): Cable type **U= PUR** and **UT=PUR-carrier chain** are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	S-code	Cable description	PVC-black
Rated current	[A] 12	Tightening torque	0.4 Nm
Rated voltage	[V] 630VAC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	L-code	Cable description	PVC-black
Rated current	[A] 16	Tightening torque	0.4 Nm
Rated voltage	[V] 63VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
4-pole(+PE), straight, female, M12 S-code, cable type: SV, Anti-vibration 	2 m	M12S-SF4S-L2SV	11 15 104 1200	 <p>1 = BK1 2 = BK2 3 = BK3 4 = GNYE</p>
	5 m	M12S-SF4S-L5SV	11 15 104 1201	
	10 m	M12S-SF4S-L10SV	11 15 104 1202	
4-pole(+PE), angled, female, M12 S-code, cable type: SV, Anti-vibration 	2 m	M12S-SF4A-L2SV	11 15 104 0200	 <p>1 = BK1 2 = BK2 3 = BK3 4 = GNYE</p>
	5 m	M12S-SF4A-L5SV	11 15 104 0201	
	10 m	M12S-SF4A-L10SV	11 15 104 0202	


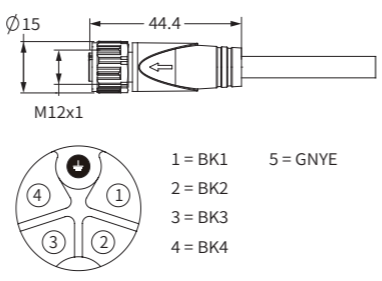

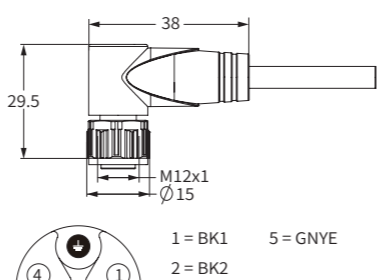
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
5-pole(+PE), straight, female, M12 L-code, cable type: SV, Anti-vibration 	2 m	M12L-SF5S-L2SV	11 16 105 1200	 <p>1 = BN 5 = GY 2 = WH 3 = BU 4 = BK</p>
	5 m	M12L-SF5S-L5SV	11 16 105 1201	
	10 m	M12L-SF5S-L10SV	11 16 105 1202	
5-pole(+PE), angled, female, M12 L-code, cable type: SV, Anti-vibration 	2 m	M12L-SF5A-L2SV	11 16 105 0200	 <p>1 = BN 5 = GY 2 = WH 3 = BU 4 = BK</p>
	5 m	M12L-SF5A-L5SV	11 16 105 0201	
	10 m	M12L-SF5A-L10SV	11 16 105 0202	


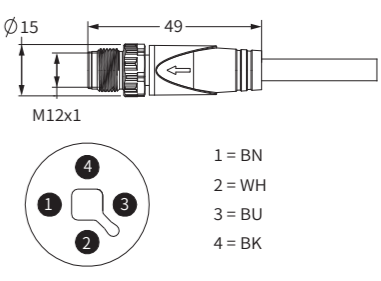

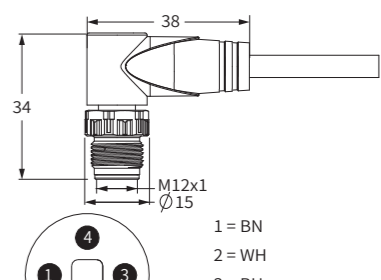
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	K-code	Cable description	PVC-black
Rated current	[A] 16	Tightening torque	0.4 Nm
Rated voltage	[V] 630VAC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	T-code	Cable description	PVC-black
Rated current	[A] 12	Tightening torque	0.4 Nm
Rated voltage	[V] 63VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole(+PE), straight, female,</b> M12 K-code, cable type: SV, Anti-vibration 	2 m	M12K-SF5S-L2SV	11 17 105 1200	
	5 m	M12K-SF5S-L5SV	11 17 105 1201	
	10 m	M12K-SF5S-L10SV	11 17 105 1202	
<b>5-pole(+PE), angled, female,</b> M12 K-code, cable type: SV, Anti-vibration 	2 m	M12K-SF5A-L2SV	11 17 105 0200	
	5 m	M12K-SF5A-L5SV	11 17 105 0201	
	10 m	M12K-SF5A-L10SV	11 17 105 0202	

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, male,</b> M12 T-code, cable type: SV, Anti-vibration 	2 m	M12T-SM4S-L2SV	11 09 104 1100	
	5 m	M12T-SM4S-L5SV	11 09 104 1101	
	10 m	M12T-SM4S-L10SV	11 09 104 1102	
<b>4-pole, angled, male,</b> M12 T-code, cable type: SV, Anti-vibration 	2 m	M12T-SM4A-L2SV	11 09 104 0100	
	5 m	M12T-SM4A-L5SV	11 09 104 0101	
	10 m	M12T-SM4A-L10SV	11 09 104 0102	


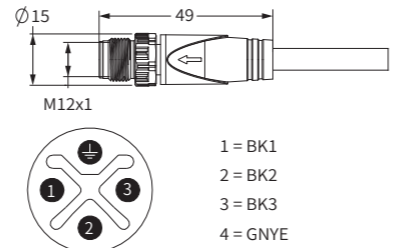

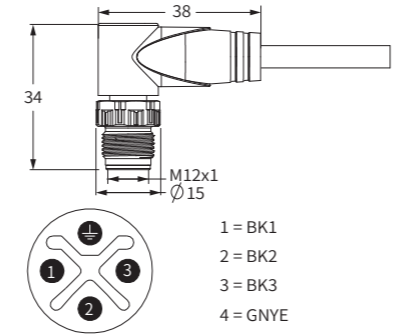
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.


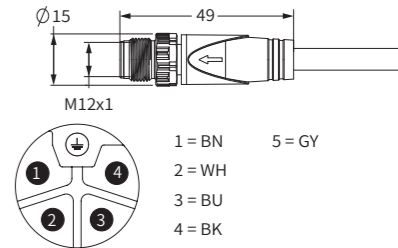

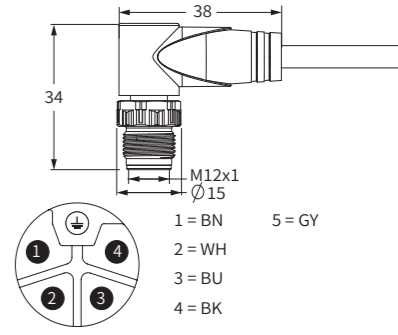
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.



Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	S-code	Cable description	PVC-black
Rated current	[A] 12	Tightening torque	0.4 Nm
Rated voltage	[V] 630VAC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	L-code	Cable description	PVC-black
Rated current	[A] 16	Tightening torque	0.4 Nm
Rated voltage	[V] 63VDC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
4-pole(+PE), straight, male, M12 S-code, cable type: SV, Anti-vibration 	2 m	M12S-SM4S-L2SV	11 15 104 1100	
	5 m	M12S-SM4S-L5SV	11 15 104 1101	
	10 m	M12S-SM4S-L10SV	11 15 104 1102	
4-pole(+PE), angled, male, M12 S-code, cable type: SV, Anti-vibration 	2 m	M12S-SM4A-L2SV	11 15 104 0100	
	5 m	M12S-SM4A-L5SV	11 15 104 0101	
	10 m	M12S-SM4A-L10SV	11 15 104 0102	


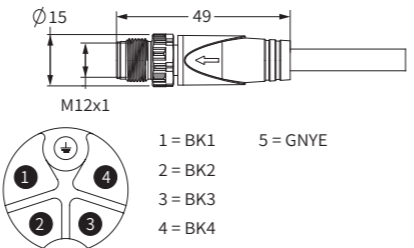

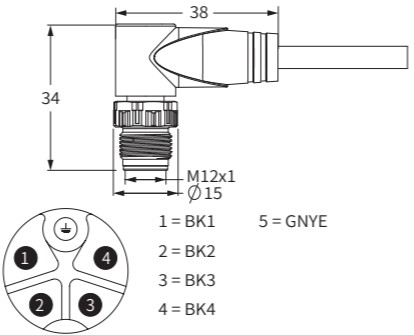
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
5-pole(+PE), straight, male, M12 L-code, cable type: SV, Anti-vibration 	2 m	M12L-SM5S-L2SV	11 16 105 1100	
	5 m	M12L-SM5S-L5SV	11 16 105 1101	
	10 m	M12L-SM5S-L10SV	11 16 105 1102	
5-pole(+PE), angled, male, M12 L-code, cable type: SV, Anti-vibration 	2 m	M12L-SM5A-L2SV	11 16 105 0100	
	5 m	M12L-SM5A-L5SV	11 16 105 0101	
	10 m	M12L-SM5A-L10SV	11 16 105 0102	

1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics

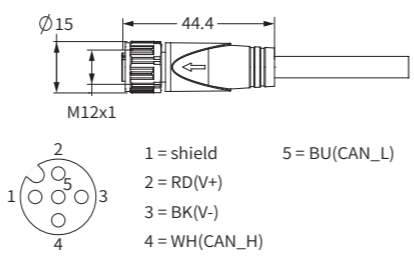
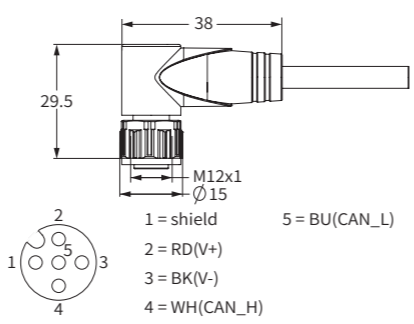
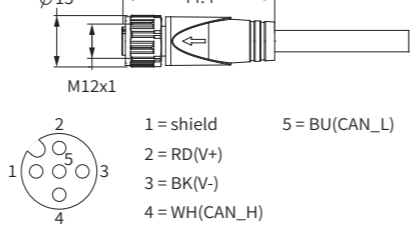
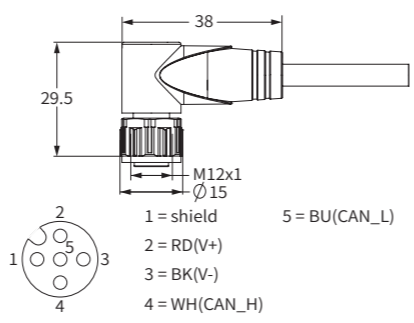
Connector	M12	Material(seal)	FPM/FKM
Version	K-code	Cable description	PVC-black
Rated current	[A] 16	Tightening torque	0.4 Nm
Rated voltage	[V] 630VAC	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] $\geq 10^8$	Degree of protection (IP)	IP67
Contact resistance	[mΩ] $\leq 5$	Mating cycles	$\geq 100$
Material(grip body)	TPU-black	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	TPU+GF	RoHS	compliant
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
5-pole(+PE), straight, male, M12 K-code, cable type: SV, Anti-vibration 	2 m	M12K-SM5S-L2SV	11 17 105 1100	
	5 m	M12K-SM5S-L5SV	11 17 105 1101	
	10 m	M12K-SM5S-L10SV	11 17 105 1102	
5-pole(+PE), angled, male, M12 K-code, cable type: SV, Anti-vibration 	2 m	M12K-SM5A-L2SV	11 17 105 0100	
	5 m	M12K-SM5A-L5SV	11 17 105 0101	
	10 m	M12K-SM5A-L10SV	11 17 105 0102	

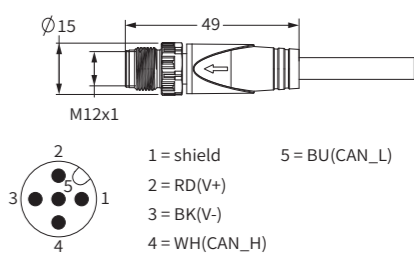
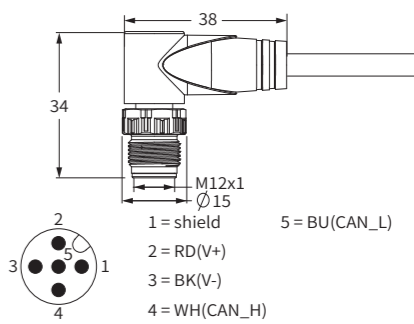
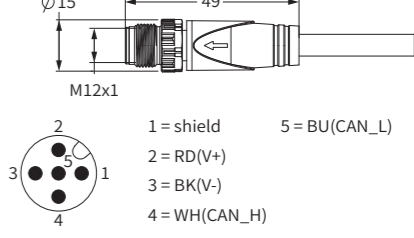
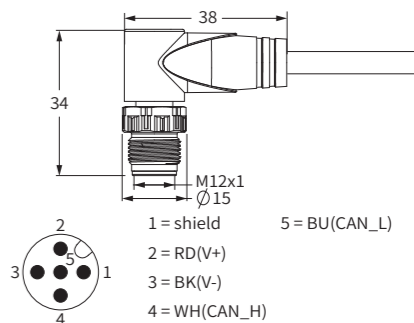
1): Cable type UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	0.4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	TPU-blue	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU+GF		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	0.4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	TPU-blue	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU+GF		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
5-pole, straight, female, M12 A-code, cable type: V/DN10, Anti-vibration	2 m	M12A-SF5S-L2V/DN10	11 03 105 1220	
	5 m	M12A-SF5S-L5V/DN10	11 03 105 1221	
	10 m	M12A-SF5S-L10V/DN10	11 03 105 1222	
5-pole, angled, female, M12 A-code, cable type: V/DN10, Anti-vibration	2 m	M12A-SF5A-L2V/DN10	11 03 105 0220	
	5 m	M12A-SF5A-L5V/DN10	11 03 105 0221	
	10 m	M12A-SF5A-L10V/DN10	11 03 105 0222	
5-pole, straight, female, M12 A-code, cable type: V/DN32, Anti-vibration	2 m	M12A-SF5S-L2V/DN32	11 03 105 1230	
	5 m	M12A-SF5S-L5V/DN32	11 03 105 1231	
	10 m	M12A-SF5S-L10V/DN32	11 03 105 1232	
5-pole, angled, female, M12 A-code, cable type: V/DN32, Anti-vibration	2 m	M12A-SF5A-L2V/DN32	11 03 105 0230	
	5 m	M12A-SF5A-L5V/DN32	11 03 105 0231	
	10 m	M12A-SF5A-L10V/DN32	11 03 105 0232	


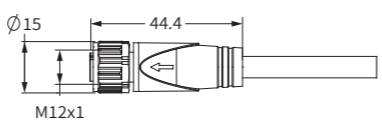

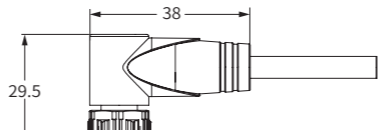

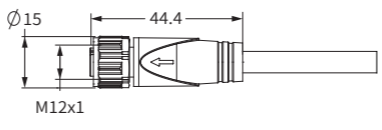

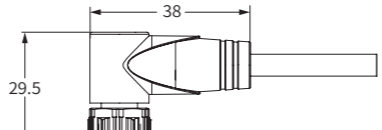
1): Ordering with variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
5-pole, straight, male, M12 A-code, cable type: V/DN10, Anti-vibration	2 m	M12A-SM5S-L2V/DN10	11 03 105 1120	
	5 m	M12A-SM5S-L5V/DN10	11 03 105 1121	
	10 m	M12A-SM5S-L10V/DN10	11 03 105 1122	
5-pole, angled, male, M12 A-code, cable type: V/DN10, Anti-vibration	2 m	M12A-SM5A-L2V/DN10	11 03 105 0120	
	5 m	M12A-SM5A-L5V/DN10	11 03 105 0121	
	10 m	M12A-SM5A-L10V/DN10	11 03 105 0122	
5-pole, straight, male, M12 A-code, cable type: V/DN32, Anti-vibration	2 m	M12A-SM5S-L2V/DN32	11 03 105 1130	
	5 m	M12A-SM5S-L5V/DN32	11 03 105 1131	
	10 m	M12A-SM5S-L10V/DN32	11 03 105 1132	
5-pole, angled, male, M12 A-code, cable type: V/DN32, Anti-vibration	2 m	M12A-SM5A-L2V/DN32	11 03 105 0130	
	5 m	M12A-SM5A-L5V/DN32	11 03 105 0131	
	10 m	M12A-SM5A-L10V/DN32	11 03 105 0132	


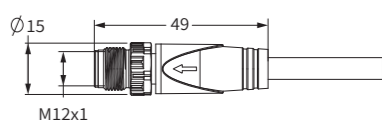

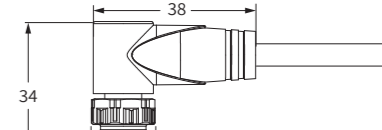

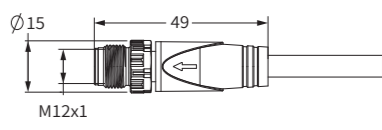

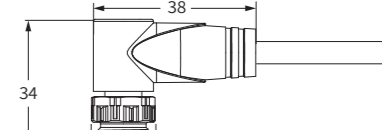
1): Ordering with variable cable length is possible.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	D-code	Tightening torque	0.4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	TPU-black	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU+GF		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	D-code	Tightening torque	0.4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	TPU-black	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU+GF		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
4-pole, straight, female, M12 D-code, cable type: PN21, Anti-vibration 	2 m	M12D-SF4S-L2PN21	11 05 104 1210	 <p>1 = Yellow(+tx) 2 = White(+rx) 3 = Orange(-tx) 4 = Blue(-rx)</p>
	5 m	M12D-SF4S-L5PN21	11 05 104 1211	
	10 m	M12D-SF4S-L10PN21	11 05 104 1212	
4-pole, angled, female, M12 D-code, cable type: PN21, Anti-vibration 	2 m	M12D-SF4A-L2PN21	11 05 104 0210	 <p>1 = Yellow(+tx) 2 = White(+rx) 3 = Orange(-tx) 4 = Blue(-rx)</p>
	5 m	M12D-SF4A-L5PN21	11 05 104 0211	
	10 m	M12D-SF4A-L10PN21	11 05 104 0212	
4-pole, straight, female, M12 D-code, cable type: PN23, Anti-vibration 	2 m	M12D-SF4S-L2PN23	11 05 104 1213	 <p>1 = Yellow(+tx) 2 = White(+rx) 3 = Orange(-tx) 4 = Blue(-rx)</p>
	5 m	M12D-SF4S-L5PN23	11 05 104 1214	
	10 m	M12D-SF4S-L10PN23	11 05 104 1215	
4-pole, angled, female, M12 D-code, cable type: PN23, Anti-vibration 	2 m	M12D-SF4A-L2PN23	11 05 104 0213	 <p>1 = Yellow(+tx) 2 = White(+rx) 3 = Orange(-tx) 4 = Blue(-rx)</p>
	5 m	M12D-SF4A-L5PN23	11 05 104 0214	
	10 m	M12D-SF4A-L10PN23	11 05 104 0215	

1): Ordering with variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
4-pole, straight, male, M12 D-code, cable type: PN21, Anti-vibration 	2 m	M12D-SM4S-L2PN21	11 05 104 1110	 <p>1 = Yellow(+tx) 2 = White(+rx) 3 = Orange(-tx) 4 = Blue(-rx)</p>
	5 m	M12D-SM4S-L5PN21	11 05 104 1111	
	10 m	M12D-SM4S-L10PN21	11 05 104 1112	
4-pole, angled, male, M12 D-code, cable type: PN21, Anti-vibration 	2 m	M12D-SM4A-L2PN21	11 05 104 0110	 <p>1 = Yellow(+tx) 2 = White(+rx) 3 = Orange(-tx) 4 = Blue(-rx)</p>
	5 m	M12D-SM4A-L5PN21	11 05 104 0111	
	10 m	M12D-SM4A-L10PN21	11 05 104 0112	
4-pole, straight, male, M12 D-code, cable type: PN23, Anti-vibration 	2 m	M12D-SM4S-L2PN23	11 05 104 1113	 <p>1 = Yellow(+tx) 2 = White(+rx) 3 = Orange(-tx) 4 = Blue(-rx)</p>
	5 m	M12D-SM4S-L5PN23	11 05 104 1114	
	10 m	M12D-SM4S-L10PN23	11 05 104 1115	
4-pole, angled, male, M12 D-code, cable type: PN23, Anti-vibration 	2 m	M12D-SM4A-L2PN23	11 05 104 0113	 <p>1 = Yellow(+tx) 2 = White(+rx) 3 = Orange(-tx) 4 = Blue(-rx)</p>
	5 m	M12D-SM4A-L5PN23	11 05 104 0114	
	10 m	M12D-SM4A-L10PN23	11 05 104 0115	


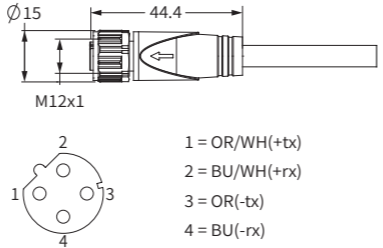

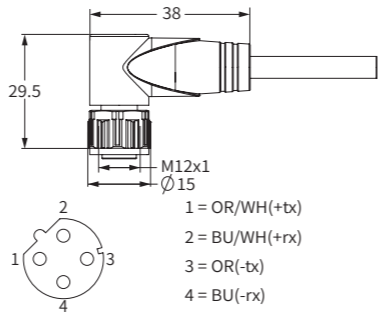
1): Ordering with variable cable length is possible.

Technical characteristics


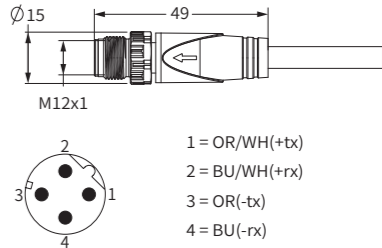

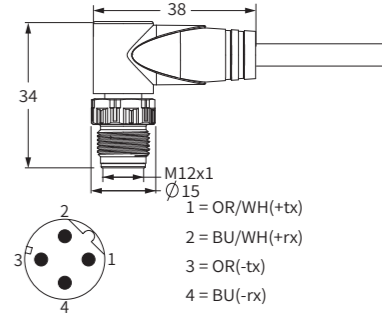
Connector	M12	Material(seal)	FPM/FKM
Version	D-code	Tightening torque	0.4 Nm
Rated current	[A] 1.5	Limiting temperature	[-25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	TPU-black	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU+GF		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M12	Material(seal)	FPM/FKM
Version	D-code	Tightening torque	0.4 Nm
Rated current	[A] 1.5	Limiting temperature	[-25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	TPU-black	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU+GF		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, female,</b> M12 D-code, cable type: PN27, Anti-vibration 	2 m	M12D-SF4S-L2PN27	11 05 104 1216	 <p>1 = OR/WH(+tx) 2 = BU/WH(+rx) 3 = OR(-tx) 4 = BU(-rx)</p>
	5 m	M12D-SF4S-L5PN27	11 05 104 1217	
	10 m	M12D-SF4S-L10PN27	11 05 104 1218	
<b>4-pole, angled, female,</b> M12 D-code, cable type: PN27, Anti-vibration 	2 m	M12D-SF4A-L2PN27	11 05 104 0216	 <p>1 = OR/WH(+tx) 2 = BU/WH(+rx) 3 = OR(-tx) 4 = BU(-rx)</p>
	5 m	M12D-SF4A-L5PN27	11 05 104 0217	
	10 m	M12D-SF4A-L10PN27	11 05 104 0218	

1): Ordering with variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>4-pole, straight, male,</b> M12 D-code, cable type: PN27, Anti-vibration 	2 m	M12D-SM4S-L2PN27	11 05 104 1116	 <p>1 = OR/WH(+tx) 2 = BU/WH(+rx) 3 = OR(-tx) 4 = BU(-rx)</p>
	5 m	M12D-SM4S-L5PN27	11 05 104 1117	
	10 m	M12D-SM4S-L10PN27	11 05 104 1118	
<b>4-pole, angled, male,</b> M12 D-code, cable type: PN27, Anti-vibration 	2 m	M12D-SM4A-L2PN27	11 05 104 0116	 <p>1 = OR/WH(+tx) 2 = BU/WH(+rx) 3 = OR(-tx) 4 = BU(-rx)</p>
	5 m	M12D-SM4A-L5PN27	11 05 104 0117	
	10 m	M12D-SM4A-L10PN27	11 05 104 0118	

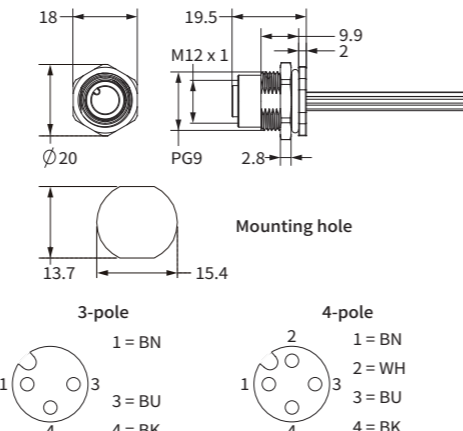
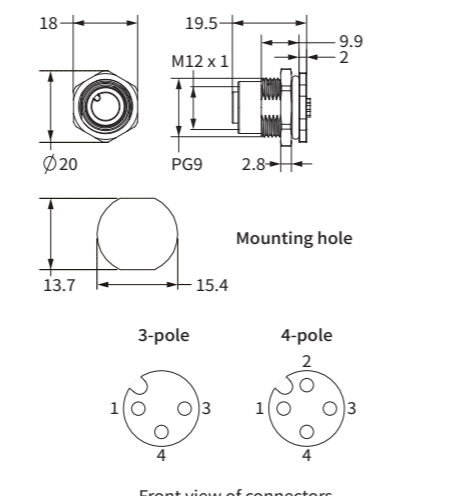
1): Ordering with variable cable length is possible.

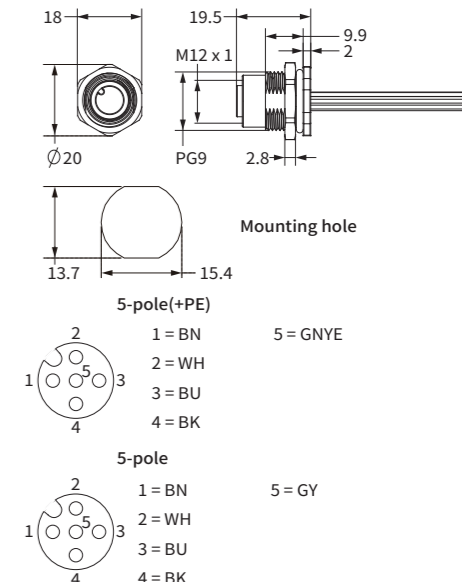
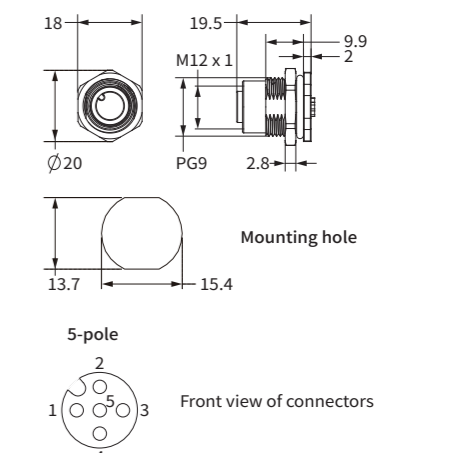
Sensor/Actuator Receptacles, rear mounting, 3 and 4-poles, female

Sensor/Actuator Receptacles, rear mounting, 5-pole(+PE contact) and 5-pole, female

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M12 A-code	3-pole	M12A-F3R-L0.5PG9	11 03 003 2200	
	4-pole	M12A-F4R-L0.5PG9	11 03 004 2200	
Sensor/Actuator Receptacles, rear mounting, female, Solder Cup, M12 A-code	3-pole	M12A-FS3R-PG9	11 03 003 2600	
	4-pole	M12A-FS4R-PG9	11 03 004 2600	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M12 A-code	5-pole(+PE)	M12A-F5R-L0.5PG9-5GNYE	11 03 005 2280	
	5-pole	M12A-F5R-L0.5PG9	11 03 005 2200	
Sensor/Actuator Receptacles, rear mounting, female, Solder Cup, M12 A-code	5-pole	M12A-FS5R-PG9	11 03 005 2600	

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M12 A-code	6-pole	M12A-F6R-L0.5PG9	11 03 006 2200	
Sensor/Actuator Receptacles, rear mounting, female, Solder Cup, M12 A-code	6-pole	M12A-FS6R-PG9	11 03 006 2600	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M12 A-code	8-pole	M12A-F8R-L0.5PG9	11 03 008 2200	
Sensor/Actuator Receptacles, rear mounting, female, Solder Cup, M12 A-code	8-pole	M12A-FS8R-PG9	11 03 008 2600	

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Sensor/Actuator Receptacles, rear mounting, 12 and 17-poles, female

Sensor/Actuator Receptacles, rear mounting, Dipsolder, 3 and 4-poles, female

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																														
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M12 A-code	12-pole	M12A-F12R-L0.5PG9	11 03 012 2200	<p>Mounting hole</p> <p>13.7 15.4</p> <p>12-pole</p> <table border="0"> <tr><td>1 = BN</td><td>7 = BK</td></tr> <tr><td>2 = BU</td><td>8 = GY</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN</td><td>10 = VT</td></tr> <tr><td>5 = PK</td><td>11 = GY/PK</td></tr> <tr><td>6 = YE</td><td>12 = RD/BU</td></tr> </table> <p>17-pole</p> <table border="0"> <tr><td>1 = BN</td><td>10 = VT</td></tr> <tr><td>2 = BU</td><td>11 = GY/PK</td></tr> <tr><td>3 = WH</td><td>12 = RD/BU</td></tr> <tr><td>4 = GN</td><td>13 = WH/GN</td></tr> <tr><td>5 = PK</td><td>14 = BN/GN</td></tr> <tr><td>6 = YE</td><td>15 = WH/YE</td></tr> <tr><td>7 = BK</td><td>16 = YE/BN</td></tr> <tr><td>8 = GY</td><td>17 = WH/GY</td></tr> <tr><td>9 = RD</td><td></td></tr> </table>	1 = BN	7 = BK	2 = BU	8 = GY	3 = WH	9 = RD	4 = GN	10 = VT	5 = PK	11 = GY/PK	6 = YE	12 = RD/BU	1 = BN	10 = VT	2 = BU	11 = GY/PK	3 = WH	12 = RD/BU	4 = GN	13 = WH/GN	5 = PK	14 = BN/GN	6 = YE	15 = WH/YE	7 = BK	16 = YE/BN	8 = GY	17 = WH/GY	9 = RD	
	1 = BN	7 = BK																																
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8 = GY	17 = WH/GY																																	
9 = RD																																		
	17-pole	M12A-F17R-L0.5PG9	11 03 017 2200																															

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																														
Sensor/Actuator Receptacles, rear mounting, female, PCB mounting, M12 A-code	3-pole	M12A-FD3R-PG9	11 03 003 2610	<p>Mounting hole</p> <p>13.7 15.4</p> <p>Pin front view of connectors</p> <p>3-pole</p> <p>4-pole</p> <table border="1"> <caption>3-pole</caption> <thead> <tr><th>Pin</th><th>X</th><th>Y</th></tr> </thead> <tbody> <tr><td>1</td><td>-2.50</td><td>0.00</td></tr> <tr><td>2</td><td>N/C</td><td>N/C</td></tr> <tr><td>3</td><td>2.50</td><td>0.00</td></tr> <tr><td>4</td><td>0.00</td><td>-2.50</td></tr> </tbody> </table> <table border="1"> <caption>4-pole</caption> <thead> <tr><th>Pin</th><th>X</th><th>Y</th></tr> </thead> <tbody> <tr><td>1</td><td>-2.50</td><td>0.00</td></tr> <tr><td>2</td><td>0.00</td><td>2.50</td></tr> <tr><td>3</td><td>2.50</td><td>0.00</td></tr> <tr><td>4</td><td>0.00</td><td>-2.50</td></tr> </tbody> </table>	Pin	X	Y	1	-2.50	0.00	2	N/C	N/C	3	2.50	0.00	4	0.00	-2.50	Pin	X	Y	1	-2.50	0.00	2	0.00	2.50	3	2.50	0.00	4	0.00	-2.50
	Pin	X	Y																															
1	-2.50	0.00																																
2	N/C	N/C																																
3	2.50	0.00																																
4	0.00	-2.50																																
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4	0.00	-2.50																																
	4-pole	M12A-FD4R-PG9	11 03 004 2610																															

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Fastening M16x1.5 is optional.


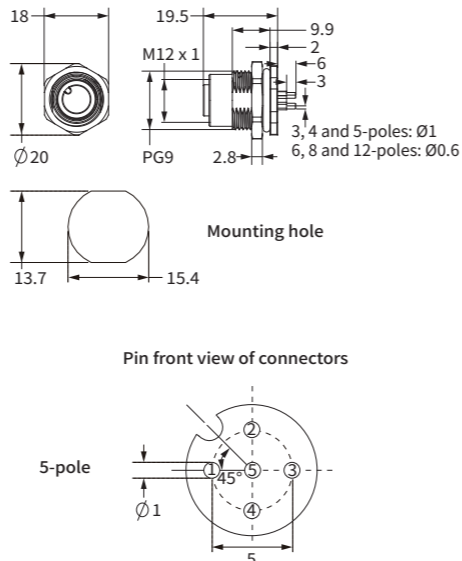


Technical characteristics


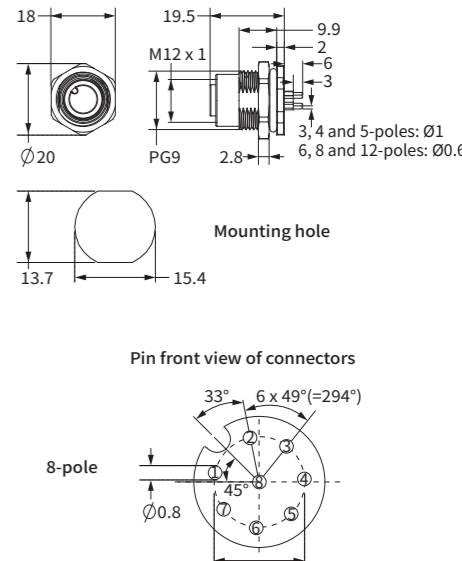
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																		
Sensor/Actuator Receptacles, rear mounting, female, PCB mounting, M12 A-code 	5-pole	M12A-FD5R-PG9	11 03 005 2610	 <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>-2.50</td><td>0.00</td></tr> <tr><td>2</td><td>0.00</td><td>2.50</td></tr> <tr><td>3</td><td>2.50</td><td>0.00</td></tr> <tr><td>4</td><td>0.00</td><td>-2.50</td></tr> <tr><td>5</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	-2.50	0.00	2	0.00	2.50	3	2.50	0.00	4	0.00	-2.50	5	0.00	0.00
Pin	X	Y																				
1	-2.50	0.00																				
2	0.00	2.50																				
3	2.50	0.00																				
4	0.00	-2.50																				
5	0.00	0.00																				

Fastening M16x1.5 is optional.

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																											
Sensor/Actuator Receptacles, rear mounting, female, PCB mounting, M12 A-code 	8-pole	M12A-FD8R-PG9	11 03 008 2610	 <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>-2.69</td><td>0.57</td></tr> <tr><td>2</td><td>-0.57</td><td>2.69</td></tr> <tr><td>3</td><td>1.66</td><td>2.20</td></tr> <tr><td>4</td><td>2.75</td><td>0.19</td></tr> <tr><td>5</td><td>1.94</td><td>-1.94</td></tr> <tr><td>6</td><td>-0.19</td><td>-2.75</td></tr> <tr><td>7</td><td>-2.20</td><td>-1.66</td></tr> <tr><td>8</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	-2.69	0.57	2	-0.57	2.69	3	1.66	2.20	4	2.75	0.19	5	1.94	-1.94	6	-0.19	-2.75	7	-2.20	-1.66	8	0.00	0.00
Pin	X	Y																													
1	-2.69	0.57																													
2	-0.57	2.69																													
3	1.66	2.20																													
4	2.75	0.19																													
5	1.94	-1.94																													
6	-0.19	-2.75																													
7	-2.20	-1.66																													
8	0.00	0.00																													

Fastening M16x1.5 is optional.

Sensor/Actuator Receptacles, front mounting, 3 and 4-poles, female

Sensor/Actuator Receptacles, front mounting, 5-pole(+PE contact) and 5-pole, female

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M12 A-code	3-pole	M12A-F3F-L0.5PG9	11 03 003 3200	
	4-pole	M12A-F4F-L0.5PG9	11 03 004 3200	
Sensor/Actuator Receptacles, front mounting, female, Solder Cup, M12 A-code	3-pole	M12A-FS3F-PG9	11 03 003 3600	
	4-pole	M12A-FS4F-PG9	11 03 004 3600	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M12 A-code	5-pole(+PE)	M12A-F5F-L0.5PG9-5GNYE	11 03 005 3280	
	5-pole	M12A-F5F-L0.5PG9	11 03 005 3200	
Sensor/Actuator Receptacles, front mounting, female, Solder Cup, M12 A-code	5-pole	M12A-FS5F-PG9	11 03 005 3600	

1): Standard cable length is 0.5m, variable cable length is optional.; Fastening M16x1.5 is optional.


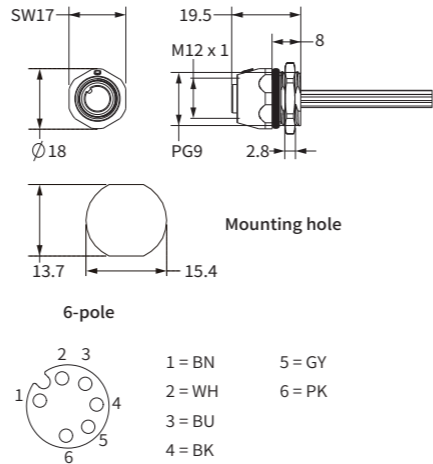

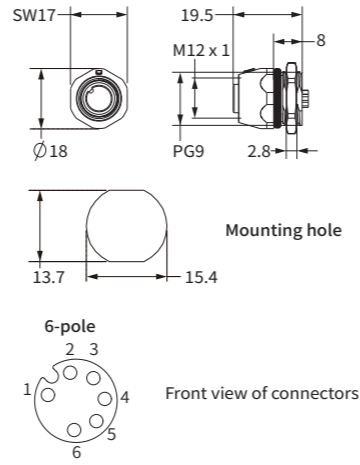
1): Standard cable length is 0.5m, variable cable length is optional.; Fastening M16x1.5 is optional.


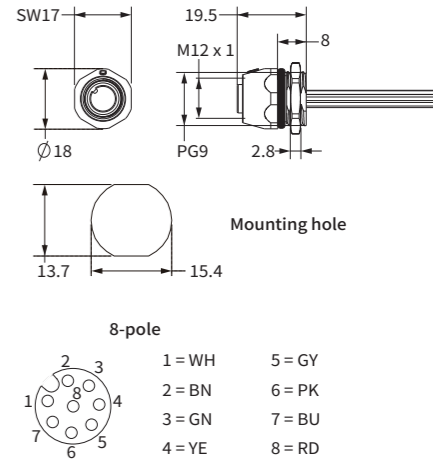

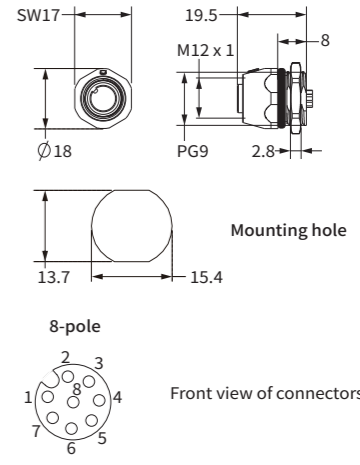
Sensor/Actuator Receptacles, front mounting, 6-pole, female

Sensor/Actuator Receptacles, front mounting, 8-pole, female

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M12 A-code 	6-pole	M12A-F6F-L0.5PG9	11 03 006 3200	
Sensor/Actuator Receptacles, front mounting, female, Solder Cup, M12 A-code 	6-pole	M12A-FS6F-PG9	11 03 006 3600	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M12 A-code 	8-pole	M12A-F8F-L0.5PG9	11 03 008 3200	
Sensor/Actuator Receptacles, front mounting, female, Solder Cup, M12 A-code 	8-pole	M12A-FS8F-PG9	11 03 008 3600	

1): Standard cable length is 0.5m, variable cable length is optional.; Fastening M16x1.5 is optional.

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Sensor/Actuator Receptacles, front mounting, 12 and 17-poles, female

Sensor/Actuator Receptacles, front mounting, Dipsolder, 3 and 4-poles, female

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																														
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M12 A-code	12-pole	M12A-F12F-L0.5PG9	11 03 012 3200	<p><b>12-pole</b></p> <table border="0"> <tr><td>1 = BN</td><td>7 = BK</td></tr> <tr><td>2 = BU</td><td>8 = GY</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN</td><td>10 = VT</td></tr> <tr><td>5 = PK</td><td>11 = GY/PK</td></tr> <tr><td>6 = YE</td><td>12 = RD/BU</td></tr> </table> <p><b>17-pole</b></p> <table border="0"> <tr><td>1 = BN</td><td>10 = VT</td></tr> <tr><td>2 = BU</td><td>11 = GY/PK</td></tr> <tr><td>3 = WH</td><td>12 = RD/BU</td></tr> <tr><td>4 = GN</td><td>13 = WH/GN</td></tr> <tr><td>5 = PK</td><td>14 = BN/GN</td></tr> <tr><td>6 = YE</td><td>15 = WH/YE</td></tr> <tr><td>7 = BK</td><td>16 = YE/BN</td></tr> <tr><td>8 = GY</td><td>17 = WH/GY</td></tr> <tr><td>9 = RD</td><td></td></tr> </table>	1 = BN	7 = BK	2 = BU	8 = GY	3 = WH	9 = RD	4 = GN	10 = VT	5 = PK	11 = GY/PK	6 = YE	12 = RD/BU	1 = BN	10 = VT	2 = BU	11 = GY/PK	3 = WH	12 = RD/BU	4 = GN	13 = WH/GN	5 = PK	14 = BN/GN	6 = YE	15 = WH/YE	7 = BK	16 = YE/BN	8 = GY	17 = WH/GY	9 = RD	
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	17-pole	M12A-F17F-L0.5PG9	11 03 017 3200																															

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																														
Sensor/Actuator Receptacles, front mounting, female, PCB mounting, M12 A-code	3-pole	M12A-FD3F-PG9	11 03 003 3610	<p><b>Pin front view of connectors</b></p> <p>3-pole: Ø1, 45°, 5</p> <p>4-pole: Ø1, 45°, 5</p> <table border="1"> <caption>3-pole</caption> <thead> <tr><th>Pin</th><th>X</th><th>Y</th></tr> </thead> <tbody> <tr><td>1</td><td>-2.50</td><td>0.00</td></tr> <tr><td>2</td><td>N/C</td><td>N/C</td></tr> <tr><td>3</td><td>2.50</td><td>0.00</td></tr> <tr><td>4</td><td>0.00</td><td>-2.50</td></tr> </tbody> </table> <table border="1"> <caption>4-pole</caption> <thead> <tr><th>Pin</th><th>X</th><th>Y</th></tr> </thead> <tbody> <tr><td>1</td><td>-2.50</td><td>0.00</td></tr> <tr><td>2</td><td>0.00</td><td>2.50</td></tr> <tr><td>3</td><td>2.50</td><td>0.00</td></tr> <tr><td>4</td><td>0.00</td><td>-2.50</td></tr> </tbody> </table>	Pin	X	Y	1	-2.50	0.00	2	N/C	N/C	3	2.50	0.00	4	0.00	-2.50	Pin	X	Y	1	-2.50	0.00	2	0.00	2.50	3	2.50	0.00	4	0.00	-2.50
	Pin	X	Y																															
1	-2.50	0.00																																
2	N/C	N/C																																
3	2.50	0.00																																
4	0.00	-2.50																																
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1	-2.50	0.00																																
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4	0.00	-2.50																																
	4-pole	M12A-FD4F-PG9	11 03 004 3610																															

1): Standard cable length is 0.5m, variable cable length is optional.; Fastening M16x1.5 is optional.


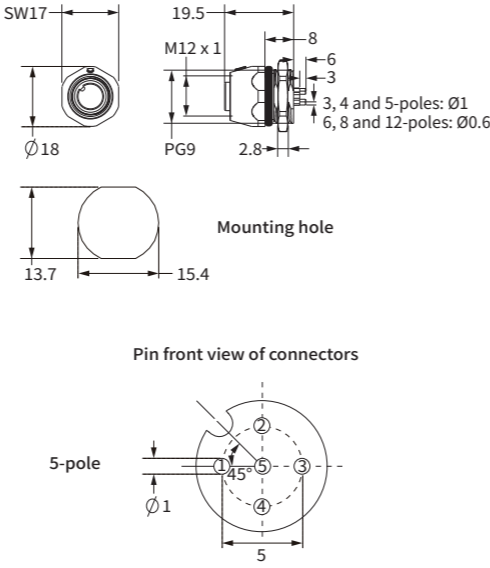
Fastening M16x1.5 is optional.

Technical characteristics


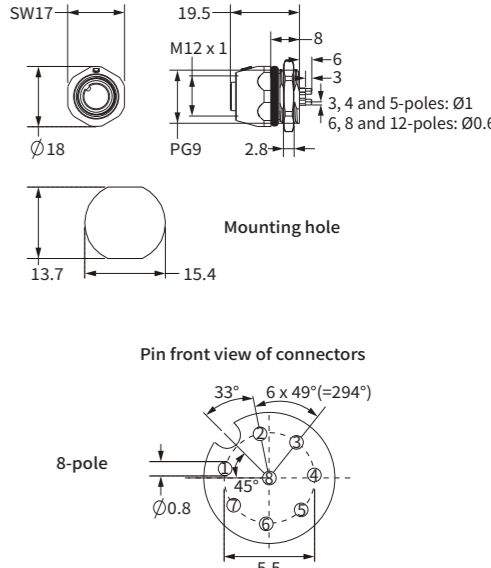
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																		
Sensor/Actuator Receptacles, front mounting, female, PCB mounting, M12 A-code 	5-pole	M12A-FD5F-PG9	11 03 005 3610	 <p>3, 4 and 5-poles: Ø1 6, 8 and 12-poles: Ø0.6</p> <p>Mounting hole</p> <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>-2.50</td><td>0.00</td></tr> <tr><td>2</td><td>0.00</td><td>2.50</td></tr> <tr><td>3</td><td>2.50</td><td>0.00</td></tr> <tr><td>4</td><td>0.00</td><td>-2.50</td></tr> <tr><td>5</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	-2.50	0.00	2	0.00	2.50	3	2.50	0.00	4	0.00	-2.50	5	0.00	0.00
Pin	X	Y																				
1	-2.50	0.00																				
2	0.00	2.50																				
3	2.50	0.00																				
4	0.00	-2.50																				
5	0.00	0.00																				

Fastening M16x1.5 is optional.

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																											
Sensor/Actuator Receptacles, front mounting, female, PCB mounting, M12 A-code 	8-pole	M12A-FD8F-PG9	11 03 008 3610	 <p>3, 4 and 5-poles: Ø1 6, 8 and 12-poles: Ø0.6</p> <p>Mounting hole</p> <p>Pin front view of connectors</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>-2.69</td><td>0.57</td></tr> <tr><td>2</td><td>-0.57</td><td>2.69</td></tr> <tr><td>3</td><td>1.66</td><td>2.20</td></tr> <tr><td>4</td><td>2.75</td><td>0.19</td></tr> <tr><td>5</td><td>1.94</td><td>-1.94</td></tr> <tr><td>6</td><td>-0.19</td><td>-2.75</td></tr> <tr><td>7</td><td>-2.20</td><td>-1.66</td></tr> <tr><td>8</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	-2.69	0.57	2	-0.57	2.69	3	1.66	2.20	4	2.75	0.19	5	1.94	-1.94	6	-0.19	-2.75	7	-2.20	-1.66	8	0.00	0.00
Pin	X	Y																													
1	-2.69	0.57																													
2	-0.57	2.69																													
3	1.66	2.20																													
4	2.75	0.19																													
5	1.94	-1.94																													
6	-0.19	-2.75																													
7	-2.20	-1.66																													
8	0.00	0.00																													

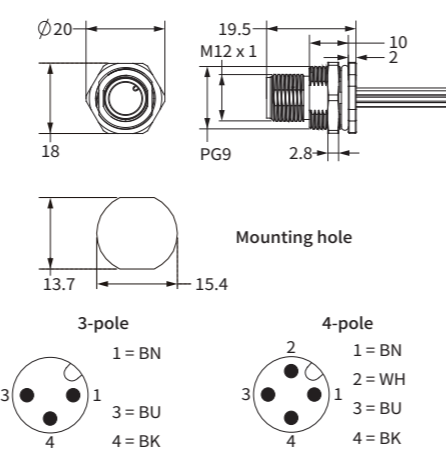
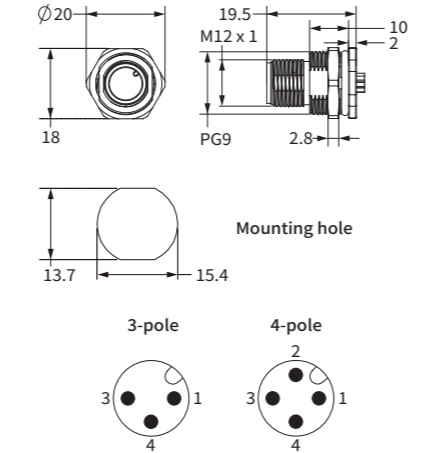
Fastening M16x1.5 is optional.

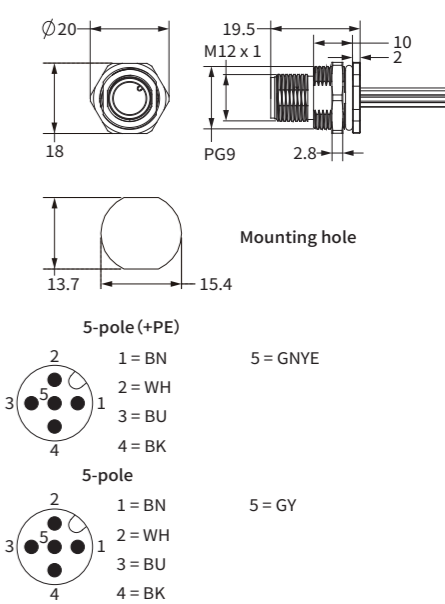
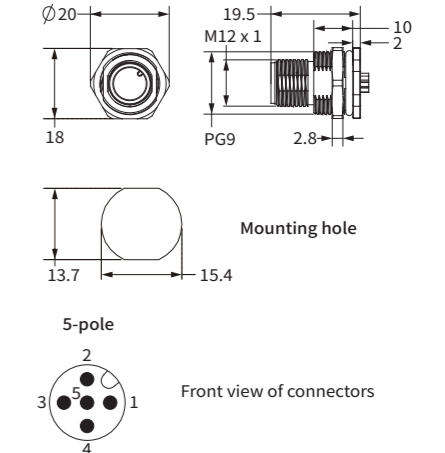
Sensor/Actuator Receptacles, rear mounting, 3 and 4-poles, male

Sensor/Actuator Receptacles, rear mounting, 5-pole(+PE) and 5-pole, male

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M12 A-code	3-pole	M12A-M3R-L0.5PG9	11 03 003 2100	
	4-pole	M12A-M4R-L0.5PG9	11 03 004 2100	
Sensor/Actuator Receptacles, rear mounting, male, Solder Cup, M12 A-code	3-pole	M12A-MS3R-PG9	11 03 003 2500	
	4-pole	M12A-MS4R-PG9	11 03 004 2500	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M12 A-code	5-pole(+PE)	M12A-M5R-L0.5PG9-5GNYE	11 03 005 2180	
	5-pole	M12A-M5R-L0.5PG9	11 03 005 2100	
Sensor/Actuator Receptacles, rear mounting, male, Solder Cup, M12 A-code	5-pole	M12A-MS5R-PG9	11 03 005 2500	

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M12 A-code	6-pole	M12A-M6R-L0.5PG9	11 03 006 2100	
Sensor/Actuator Receptacles, rear mounting, male, Solder Cup, M12 A-code	6-pole	M12A-MS6R-PG9	11 03 006 2500	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M12 A-code	8-pole	M12A-M8R-L0.5PG9	11 03 008 2100	
Sensor/Actuator Receptacles, rear mounting, male, Solder Cup, M12 A-code	8-pole	M12A-MS8R-PG9	11 03 008 2500	

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Sensor/Actuator Receptacles, rear mounting, 12 and 17-poles, male

Sensor/Actuator Receptacles, rear mounting, Dipsolder, 3 and 4-poles, male

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 1.5	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																								
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M12 A-code	12-pole	M12A-M12R-L0.5PG9	11 03 012 2100	<p>Mounting hole</p> <p>12-pole</p> <table border="0"> <tr><td>1 = BN</td><td>7 = BK</td></tr> <tr><td>2 = BU</td><td>8 = GY</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN</td><td>10 = VT</td></tr> <tr><td>5 = PK</td><td>11 = GY/PK</td></tr> <tr><td>6 = YE</td><td>12 = RD/BU</td></tr> </table> <p>17-pole</p> <table border="0"> <tr><td>1 = BN</td><td>7 = BK</td></tr> <tr><td>2 = BU</td><td>8 = GY</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN</td><td>10 = VT</td></tr> <tr><td>5 = PK</td><td>11 = GY/PK</td></tr> <tr><td>6 = YE</td><td>12 = RD/BU</td></tr> </table>	1 = BN	7 = BK	2 = BU	8 = GY	3 = WH	9 = RD	4 = GN	10 = VT	5 = PK	11 = GY/PK	6 = YE	12 = RD/BU	1 = BN	7 = BK	2 = BU	8 = GY	3 = WH	9 = RD	4 = GN	10 = VT	5 = PK	11 = GY/PK	6 = YE	12 = RD/BU
	1 = BN	7 = BK																										
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	17-pole	M12A-M17R-L0.5PG9	11 03 017 2100																									

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																																				
Sensor/Actuator Receptacles, rear mounting, male, PCB mounting, M12 A-code	3-pole	M12A-MD3R-PG9	11 03 003 2510	<p>Mounting hole</p> <p>Pin front view of connectors</p> <p>3-pole</p> <p>4-pole</p> <table border="1"> <thead> <tr> <th colspan="3">3-pole</th> <th colspan="3">4-pole</th> </tr> <tr> <th>Pin</th> <th>X</th> <th>Y</th> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.50</td> <td>0.00</td> <td>1</td> <td>2.50</td> <td>0.00</td> </tr> <tr> <td>2</td> <td>N/C</td> <td>N/C</td> <td>2</td> <td>0.00</td> <td>2.50</td> </tr> <tr> <td>3</td> <td>-2.50</td> <td>0.00</td> <td>3</td> <td>-2.50</td> <td>0.00</td> </tr> <tr> <td>4</td> <td>0.00</td> <td>-2.50</td> <td>4</td> <td>0.00</td> <td>-2.50</td> </tr> </tbody> </table>	3-pole			4-pole			Pin	X	Y	Pin	X	Y	1	2.50	0.00	1	2.50	0.00	2	N/C	N/C	2	0.00	2.50	3	-2.50	0.00	3	-2.50	0.00	4	0.00	-2.50	4	0.00	-2.50
	3-pole				4-pole																																			
Pin	X	Y	Pin	X	Y																																			
1	2.50	0.00	1	2.50	0.00																																			
2	N/C	N/C	2	0.00	2.50																																			
3	-2.50	0.00	3	-2.50	0.00																																			
4	0.00	-2.50	4	0.00	-2.50																																			
	4-pole	M12A-MD4R-PG9	11 03 004 2510																																					


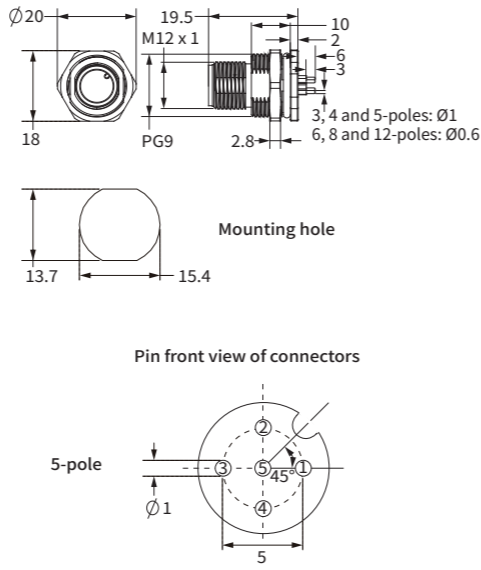
1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Fastening M16x1.5 is optional.


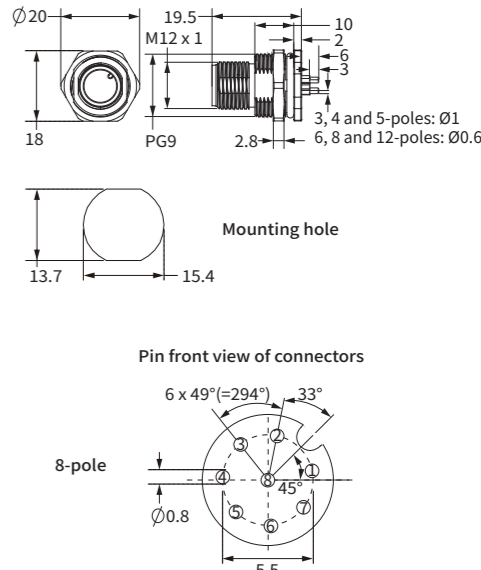


Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																		
Sensor/Actuator Receptacles, rear mounting, male, PCB mounting, M12 A-code 	5-pole	M12A-MD5R-PG9	11 03 005 2510	 <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.50</td><td>0.00</td></tr> <tr><td>2</td><td>0.00</td><td>2.50</td></tr> <tr><td>3</td><td>-2.50</td><td>0.00</td></tr> <tr><td>4</td><td>0.00</td><td>-2.50</td></tr> <tr><td>5</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	2.50	0.00	2	0.00	2.50	3	-2.50	0.00	4	0.00	-2.50	5	0.00	0.00
Pin	X	Y																				
1	2.50	0.00																				
2	0.00	2.50																				
3	-2.50	0.00																				
4	0.00	-2.50																				
5	0.00	0.00																				

Fastening M16x1.5 is optional.

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																											
Sensor/Actuator Receptacles, rear mounting, male, PCB mounting, M12 A-code 	8-pole	M12A-MD8R-PG9	11 03 008 2510	 <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.69</td><td>0.57</td></tr> <tr><td>2</td><td>0.57</td><td>2.69</td></tr> <tr><td>3</td><td>-1.66</td><td>2.20</td></tr> <tr><td>4</td><td>-2.75</td><td>0.19</td></tr> <tr><td>5</td><td>-1.94</td><td>-1.94</td></tr> <tr><td>6</td><td>0.19</td><td>-2.75</td></tr> <tr><td>7</td><td>2.20</td><td>-1.66</td></tr> <tr><td>8</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	2.69	0.57	2	0.57	2.69	3	-1.66	2.20	4	-2.75	0.19	5	-1.94	-1.94	6	0.19	-2.75	7	2.20	-1.66	8	0.00	0.00
Pin	X	Y																													
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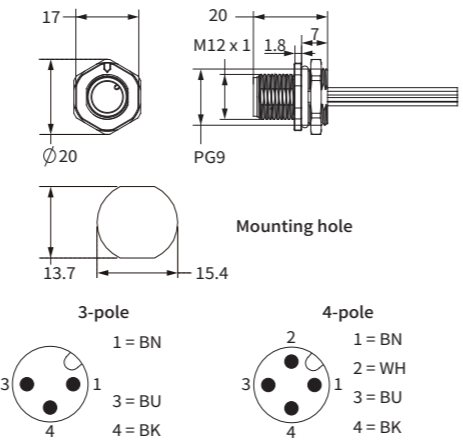
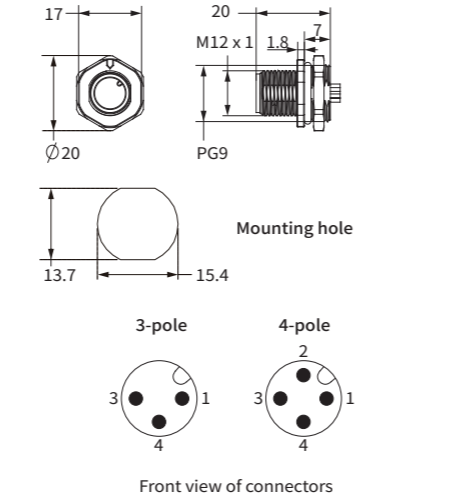
Fastening M16x1.5 is optional.

Sensor/Actuator Receptacles, front mounting, 3 and 4-pole, male

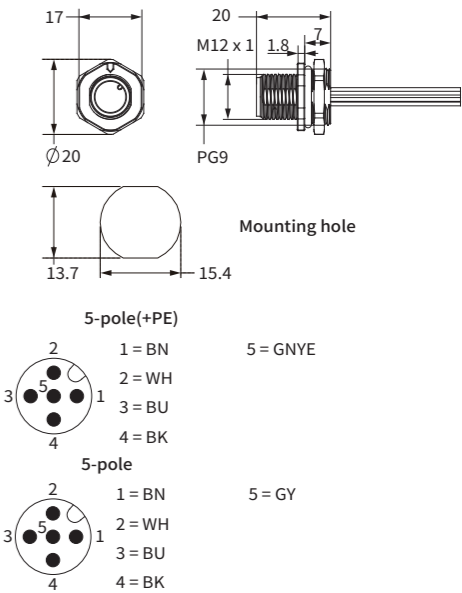
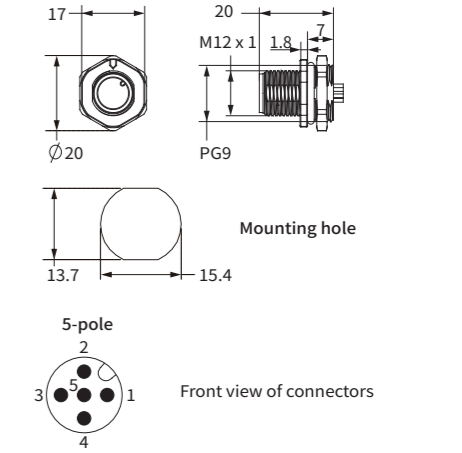
Sensor/Actuator Receptacles, front mounting, 5-pole (+PE) and 5-pole, male

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M12 A-code	3-pole	M12A-M3F-L0.5PG9	11 03 003 3100	
	4-pole	M12A-M4F-L0.5PG9	11 03 004 3100	
Sensor/Actuator Receptacles, front mounting, male, Solder Cup, M12 A-code	3-pole	M12A-MS3F-PG9	11 03 003 3500	
	4-pole	M12A-MS4F-PG9	11 03 004 3500	

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M12 A-code	5-pole(+PE)	M12A-M5F-L0.5PG9-5GNYE	11 03 005 3180	
	5-pole	M12A-M5F-L0.5PG9	11 03 005 3100	
Sensor/Actuator Receptacles, front mounting, male, Solder Cup, M12 A-code	5-pole	M12A-MS5F-PG9	11 03 005 3500	

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Sensor/Actuator Receptacles, front mounting, 6-pole, male

Sensor/Actuator Receptacles, front mounting, 8-pole, male

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M12 A-code	6-pole	M12A-M6F-L0.5PG9	11 03 006 3100	<p>6-pole</p> <p>1 = BN    5 = GY 2 = WH    6 = PK 3 = BU 4 = BK</p>
Sensor/Actuator Receptacles, front mounting, male, Solder Cup, M12 A-code	6-pole	M12A-MS6F-PG9	11 03 006 3500	<p>6-pole</p> <p>Front view of connectors</p>

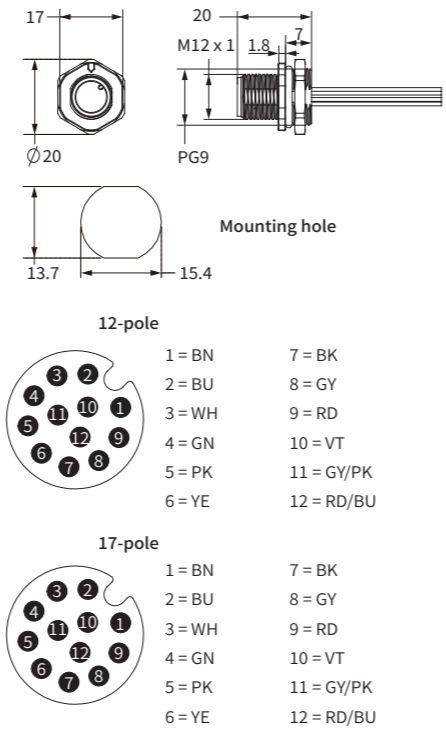
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M12 A-code	8-pole	M12A-M8F-L0.5PG9	11 03 008 3100	<p>8-pole</p> <p>1 = WH    5 = GY 2 = BN    6 = PK 3 = GN    7 = BU 4 = YE    8 = RD</p>
Sensor/Actuator Receptacles, front mounting, male, Solder Cup, M12 A-code	8-pole	M12A-MS8F-PG9	11 03 008 3500	<p>8-pole</p> <p>Front view of connectors</p>

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

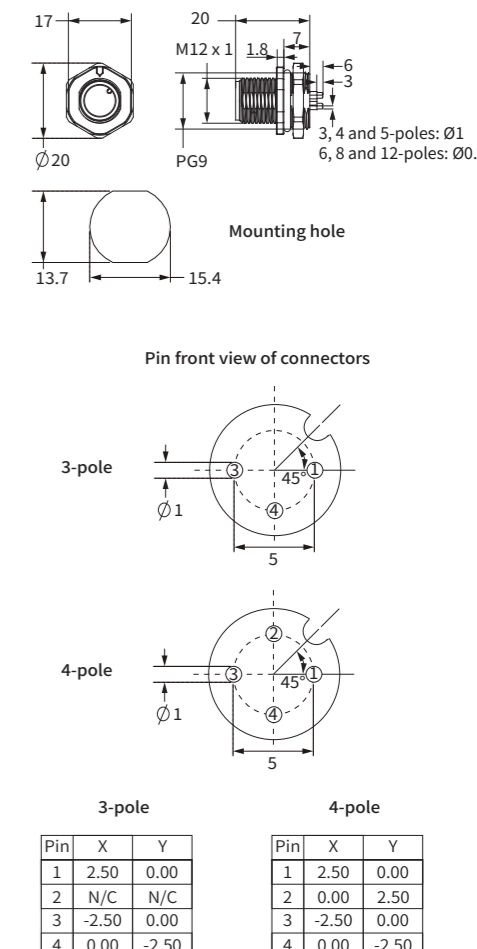
1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 1.5	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M12 A-code	12-pole	M12A-M12F-L0.5PG9	11 03 012 3100	
	17-pole	M12A-M17F-L0.5PG9	11 03 017 3100	

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M16x1.5 is optional.

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, front mounting, male, PCB mounting, M12 A-code	3-pole	M12A-MD3F-PG9	11 03 003 3510	
	4-pole	M12A-MD4F-PG9	11 03 004 3510	


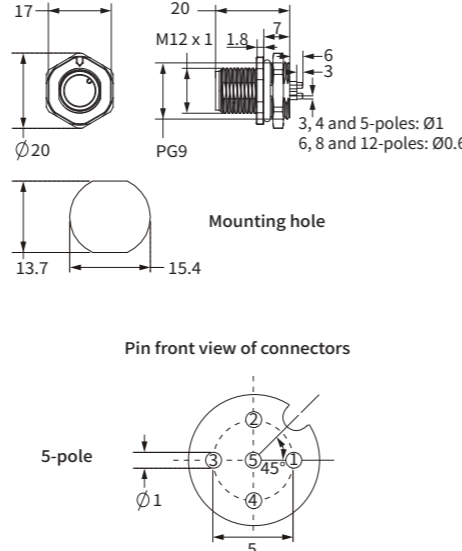
Fastening M16x1.5 is optional.

Pin	X	Y
1	2.50	0.00
2	N/C	N/C
3	-2.50	0.00
4	0.00	-2.50


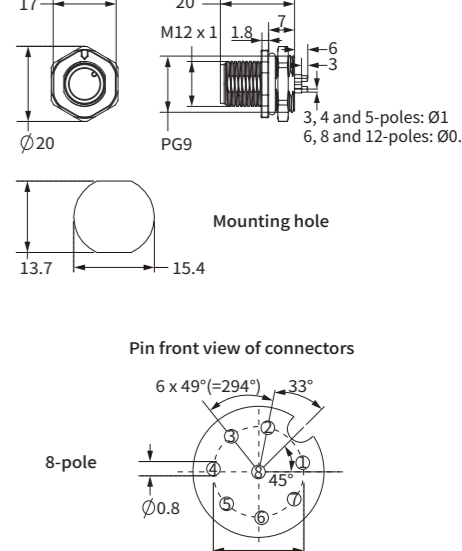
Pin	X	Y
1	2.50	0.00
2	0.00	2.50
3	-2.50	0.00
4	0.00	-2.50

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 30	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																		
Sensor/Actuator Receptacles, front mounting, male, PCB mounting, M12 A-code 	5-pole	M12A-MD5F-PG9	11 03 005 3510	 <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.50</td><td>0.00</td></tr> <tr><td>2</td><td>0.00</td><td>2.50</td></tr> <tr><td>3</td><td>-2.50</td><td>0.00</td></tr> <tr><td>4</td><td>0.00</td><td>-2.50</td></tr> <tr><td>5</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	2.50	0.00	2	0.00	2.50	3	-2.50	0.00	4	0.00	-2.50	5	0.00	0.00
Pin	X	Y																				
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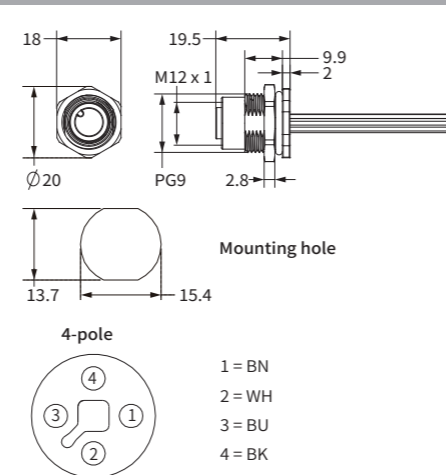
Fastening M16x1.5 is optional.

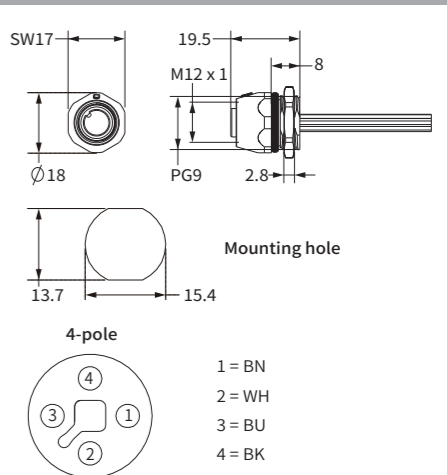
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																											
Sensor/Actuator Receptacles, front mounting, male, PCB mounting, M12 A-code 	8-pole	M12A-MD8F-PG9	11 03 008 3510	 <table border="1"> <thead> <tr> <th>Pin</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.69</td><td>0.57</td></tr> <tr><td>2</td><td>0.57</td><td>2.69</td></tr> <tr><td>3</td><td>-1.66</td><td>2.20</td></tr> <tr><td>4</td><td>-2.75</td><td>0.19</td></tr> <tr><td>5</td><td>-1.94</td><td>-1.94</td></tr> <tr><td>6</td><td>0.19</td><td>-2.75</td></tr> <tr><td>7</td><td>2.20</td><td>-1.66</td></tr> <tr><td>8</td><td>0.00</td><td>0.00</td></tr> </tbody> </table>	Pin	X	Y	1	2.69	0.57	2	0.57	2.69	3	-1.66	2.20	4	-2.75	0.19	5	-1.94	-1.94	6	0.19	-2.75	7	2.20	-1.66	8	0.00	0.00
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7	2.20	-1.66																													
8	0.00	0.00																													

Fastening M16x1.5 is optional.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	T-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 12	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 63VDC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	T-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 12	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 63VDC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M12 T-code	4-pole	M12T-F4R-L0.5M16	11 09 004 2200	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M12 T-code	4-pole	M12T-F4F-L0.5M16	11 09 004 3200	

1): Standard cable length is 0.5m, variable cable length is optional.

1): Standard cable length is 0.5m, variable cable length is optional.

Sensor/Actuator Receptacles, rear mounting, 4-pole, male

Sensor/Actuator Receptacles, front mounting, 4-pole, male

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	T-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 12	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 63VDC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	T-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 12	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 63VDC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M12 T-code	4-pole	M12T-M4R-L0.5M16	11 09 004 2100	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M12 T-code	4-pole	M12T-M4F-L0.5M16	11 09 004 3100	

1): Standard cable length is 0.5m, variable cable length is optional.

1): Standard cable length is 0.5m, variable cable length is optional.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	S-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 12	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 630VAC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	S-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 12	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 630VAC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M12 S-code	4-pole	M12S-F4R-L0.5M16	11 15 004 2200	<p>Mounting hole</p> <p>4-pole</p> <p>1 = BK1 2 = BK2 3 = BK3 4 = GNYE</p>

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M12 S-code	4-pole	M12S-F4F-L0.5M16	11 15 004 3200	<p>Mounting hole</p> <p>4-pole</p> <p>1 = BK1 2 = BK2 3 = BK3 4 = GNYE</p>

1): Standard cable length is 0.5m, variable cable length is optional.

1): Standard cable length is 0.5m, variable cable length is optional.



Sensor/Actuator Receptacles, rear mounting, 4-pole(+PE), male

Sensor/Actuator Receptacles, front mounting, 4-pole(+PE), male

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	S-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 12	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 630VAC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	S-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 12	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 630VAC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M12 S-code	4-pole	M12S-M4R-L0.5M16	11 15 004 2100	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M12 S-code	4-pole	M12S-M4F-L0.5M16	11 15 004 3100	

1): Standard cable length is 0.5m, variable cable length is optional.

1): Standard cable length is 0.5m, variable cable length is optional.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	L-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 16	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 63VDC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	L-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 16	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 63VDC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M12 L-code	5-pole	M12L-F5R-L0.5M16	11 16 005 2200	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M12 L-code	5-pole	M12L-F5F-L0.5M16	11 16 005 3200	

1): Standard cable length is 0.5m, variable cable length is optional.

1): Standard cable length is 0.5m, variable cable length is optional.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	L-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 16	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 63VDC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	L-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 16	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 63VDC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M12 L-code	5-pole	M12L-M5R-L0.5M16	11 16 005 2100	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M12 L-code	5-pole	M12L-M5F-L0.5M16	11 16 005 3100	

1): Standard cable length is 0.5m, variable cable length is optional.

1): Standard cable length is 0.5m, variable cable length is optional.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	K-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 16	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 630VAC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	K-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 16	Limiting temperature	[-25 ... +85 °C]
Rated voltage	[V] 630VAC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, female, individual wires, M12 K-code	5-pole	M12K-F5R-L0.5M16	11 17 005 2200	

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, female, individual wires, M12 K-code	5-pole	M12K-F5F-L0.5M16	11 17 005 3200	

1): Standard cable length is 0.5m, variable cable length is optional.

1): Standard cable length is 0.5m, variable cable length is optional.

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	K-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 16	Limiting temperature	[-25 ... +85
Rated voltage	[V] 630VAC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	K-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 16	Limiting temperature	[-25 ... +85
Rated voltage	[V] 630VAC	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	Zinc die-cast/Nickel plated	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	Polyamides		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , rear mounting, male, individual wires, M12 K-code	5-pole	M12K-M5R-L0.5M16	11 17 005 2100	


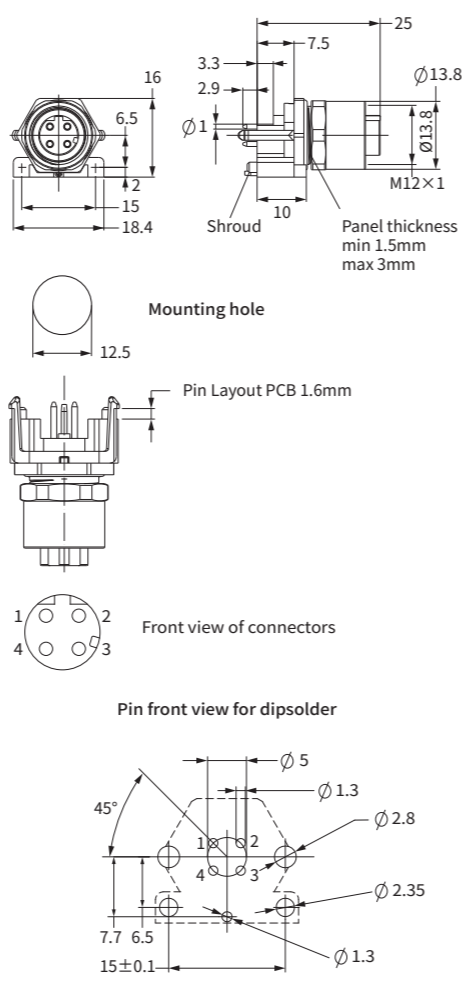
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, with wire ends <sup>1)</sup> , front mounting, male, individual wires, M12 K-code	5-pole	M12K-M5F-L0.5M16	11 17 005 3100	

1): Standard cable length is 0.5m, variable cable length is optional.

1): Standard cable length is 0.5m, variable cable length is optional.

Technical characteristics

Connector	M12	Material(seal)	FPM/FKM
Version	D-code	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	250	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	Nylon-black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
Sensor/Actuator Receptacles, rear mounting, female, PCB mounting, M12 D-code  	4 pole	M12D-FD4R-TM12	11 05 004 2600	 <p>Technical drawing details:</p> <ul style="list-style-type: none"> <li>Overall length: 25 mm</li> <li>Panel thickness: min 1.5mm, max 3mm</li> <li>Mounting hole diameter: 12.5 mm</li> <li>Pin layout PCB: 1.6mm</li> <li>Front view of connectors: 4 poles labeled 1, 2, 3, 4</li> <li>Pin front view for dipsolder: 4 pins with diameters of 1.3, 2.8, 2.35, and 1.3 mm.</li> </ul>

Technical characteristics			
Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	250	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Technical characteristics			
Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	60	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
4-pole, straight, female, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-F4S-D8	11 03 004 1290	
4-pole, angled, female, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-F4A-D8	11 03 004 0290	


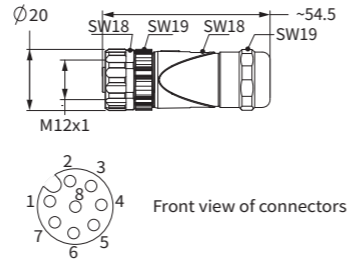

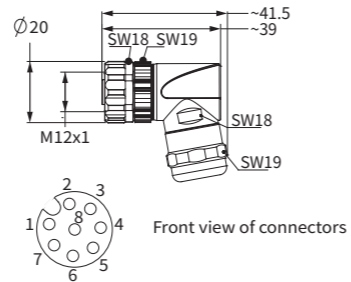
Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
5-pole, straight, female, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-F5S-D8	11 03 005 1290	
5-pole, angled, female, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-F5A-D8	11 03 005 0290	


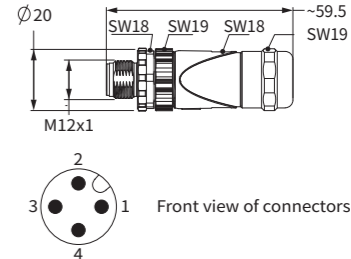

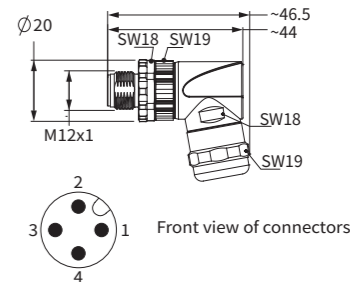
Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	2	Degree of protection (IP)	IP67
Rated voltage [V]	30	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	250	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<p>8-pole, straight, female, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)</p> 	<p>without terminal 0.25 ... 0.5 mm<sup>2</sup> with terminal 0.14 ... 0.5 mm<sup>2</sup></p>	M12A-F8S-D8	11 03 008 1290	
<p>8-pole, angled, female, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)</p> 	<p>without terminal 0.25 ... 0.5 mm<sup>2</sup> with terminal 0.14 ... 0.5 mm<sup>2</sup></p>	M12A-F8A-D8	11 03 008 0290	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<p>4-pole, straight, male, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)</p> 	<p>without terminal 0.25 ... 0.75 mm<sup>2</sup> with terminal 0.14 ... 0.75 mm<sup>2</sup></p>	M12A-M4S-D8	11 03 004 1190	
<p>4-pole, angled, male, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)</p> 	<p>without terminal 0.25 ... 0.75 mm<sup>2</sup> with terminal 0.14 ... 0.75 mm<sup>2</sup></p>	M12A-M4A-D8	11 03 004 0190	



Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	60	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	2	Degree of protection (IP)	IP67
Rated voltage [V]	30	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
5-pole, straight, male, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-M5S-D8	11 03 005 1190	
5-pole, angled, male, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-M5A-D8	11 03 005 0190	


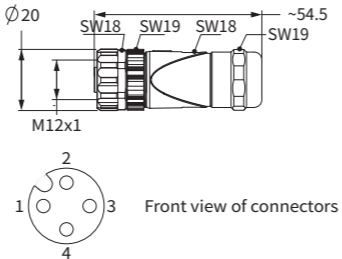
Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
8-pole, straight, male, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.5 mm <sup>2</sup> with terminal 0.14 ... 0.5 mm <sup>2</sup>	M12A-M8S-D8	11 03 008 1190	
8-pole, angled, male, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.5 mm <sup>2</sup> with terminal 0.14 ... 0.5 mm <sup>2</sup>	M12A-M8A-D8	11 03 008 0190	


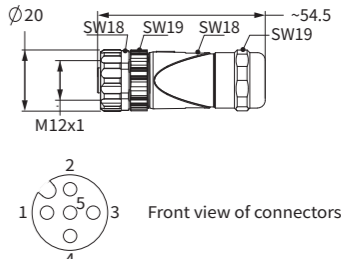
Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	250	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	60	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
4-pole, straight, female, M12 A-code, cable diameter: 2 x (3 ... 5 mm) 	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-F4S-D10/2C	11 03 004 1291	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
5-pole, straight, female, M12 A-code, cable diameter: 2 x (3 ... 5 mm) 	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-F5S-D10/2C	11 03 005 1291	

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	250	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	60	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
4-pole, straight, male, M12 A-code, cable diameter: 2 x (3 ... 5 mm)	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-M4S-D10/2C	11 03 004 1191	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
5-pole, straight, male, M12 A-code, cable diameter: 2 x (3 ... 5 mm)	without terminal 0.25 ... 0.5 mm <sup>2</sup> with terminal 0.14 ... 0.5 mm <sup>2</sup>	M12A-M5S-D10/2C	11 03 005 1191	

Technical characteristics			
Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature	-25 ... +85 [°C]
Rated current	[A] 4	Degree of protection (IP)	IP67
Rated voltage	[V] 250	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	Standard	IEC61076-2-101
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	Nylon-black		

Technical characteristics			
Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature	-25 ... +85 [°C]
Rated current	[A] 4	Degree of protection (IP)	IP67
Rated voltage	[V] 60	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	Standard	IEC61076-2-101
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
4-pole, straight, female, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-SF4S-D8	11 03 104 1290	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
5-pole, straight, female, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-SF5S-D8	11 03 105 1290	

Technical characteristics			
Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	2	Degree of protection (IP)	IP67
Rated voltage [V]	60	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	Nylon-black		

Technical characteristics			
Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	250	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
8-pole, straight, female, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.5 mm <sup>2</sup> with terminal 0.14 ... 0.5 mm <sup>2</sup>	M12A-SF8S-D8	11 03 108 1290	


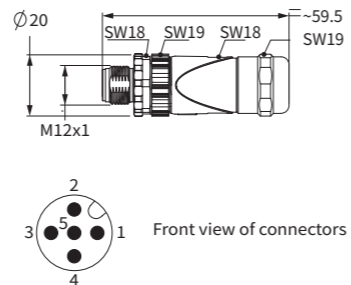
Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
4-pole, straight, male, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)	without terminal 0.25 ... 0.75 mm <sup>2</sup> with terminal 0.14 ... 0.75 mm <sup>2</sup>	M12A-SM4S-D8	11 03 104 1190	


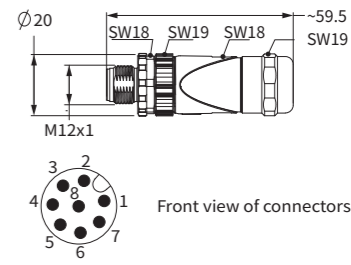
Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	60	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	Nylon-black		

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	A-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	2	Degree of protection (IP)	IP67
Rated voltage [V]	30	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<p>5-pole, straight, male, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)</p> 	<p>without terminal 0.25 ... 0.75 mm<sup>2</sup> with terminal 0.14 ... 0.75 mm<sup>2</sup></p>	M12A-SM5S-D8	11 03 105 1190	 <p>Front view of connectors</p>

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<p>8-pole, straight, male, M12 A-code, cable diameter: 4 ... 6 mm (black sealing) 6 ... 8 mm (grey sealing)</p> 	<p>without terminal 0.25 ... 0.5 mm<sup>2</sup> with terminal 0.14 ... 0.5 mm<sup>2</sup></p>	M12A-SM8S-D8	11 03 108 1190	 <p>Front view of connectors</p>

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	T-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	12	Degree of protection (IP)	IP67
Rated voltage [V]	63VDC	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	T-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	12	Degree of protection (IP)	IP67
Rated voltage [V]	63VDC	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
4-pole, straight, female, M12 T-code, cable diameter: 8 ... 10 mm (black sealing)	without terminal 0.25 ... 1.5 mm <sup>2</sup> with terminal 0.14 ... 1.5 mm <sup>2</sup>	M12T-F4S-D10	11 09 004 1290	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
4-pole, straight, male, M12 T-code, cable diameter: 8 ... 10 mm (black sealing)	without terminal 0.25 ... 1.5 mm <sup>2</sup> with terminal 0.14 ... 1.5 mm <sup>2</sup>	M12T-M4S-D10	11 09 004 1190	

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	S-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	12	Degree of protection (IP)	IP67
Rated voltage [V]	630VAC	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	S-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	12	Degree of protection (IP)	IP67
Rated voltage [V]	630VAC	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
4-pole(+PE), straight, female, M12 S-code, cable diameter: 8 ... 10 mm (black sealing)	without terminal 0.25 ... 1.5 mm <sup>2</sup> with terminal 0.14 ... 1.5 mm <sup>2</sup>	M12S-F4S-D10	11 15 004 1290	<p>Front view of connectors</p>

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
4-pole(+PE), straight, male, M12 S-code, cable diameter: 8 ... 10 mm (black sealing)	without terminal 0.25 ... 1.5 mm <sup>2</sup> with terminal 0.14 ... 1.5 mm <sup>2</sup>	M12S-M4S-D10	11 15 004 1190	<p>Front view of connectors</p>



Technical characteristics			
Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	L-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	16	Degree of protection (IP)	IP67
Rated voltage [V]	63VDC	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Technical characteristics			
Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	L-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	16	Degree of protection (IP)	IP67
Rated voltage [V]	63VDC	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
5-pole(+PE), straight, female, M12 L-code, cable diameter: 8 ... 10 mm(black sealing)	without terminal 0.25 ... 2.5 mm <sup>2</sup> with terminal 0.14 ... 2.5 mm <sup>2</sup>	M12L-F5S-D10	11 16 005 1290	<p>Front view of connectors</p>

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
5-pole(+PE), straight, male, M12 L-code, cable diameter: 8 ... 10 mm(black sealing)	without terminal 0.25 ... 2.5 mm <sup>2</sup> with terminal 0.14 ... 2.5 mm <sup>2</sup>	M12L-M5S-D10	11 16 005 1190	<p>Front view of connectors</p>

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	K-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	16	Degree of protection (IP)	IP67
Rated voltage [V]	630VAC	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	K-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	16	Degree of protection (IP)	IP67
Rated voltage [V]	630VAC	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Nylon-black	RoHS	compliant
Material(contact)	Brass, silver plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
5-pole(+PE), straight, female, M12 K-code, cable diameter: 8 ... 10 mm(black sealing)	without terminal 0.25 ... 2.5 mm <sup>2</sup> with terminal 0.14 ... 2.5 mm <sup>2</sup>	M12K-F5S-D10	11 17 005 1290	 <p>Front view of connectors</p>


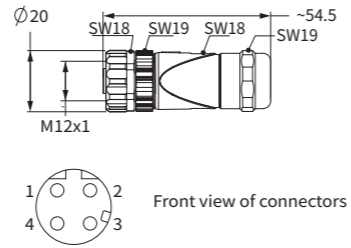
Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
5-pole(+PE), straight, male, M12 K-code, cable diameter: 8 ... 10 mm(black sealing)	without terminal 0.25 ... 2.5 mm <sup>2</sup> with terminal 0.14 ... 2.5 mm <sup>2</sup>	M12K-M5S-D10	11 17 005 1190	 <p>Front view of connectors</p>


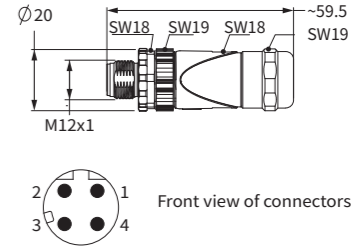
Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	D-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	250	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	Nylon-black		

Technical characteristics

Connector	M12	Material(knurl)	Zinc die-cast/Nickel plated
Version	D-code	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	4	Degree of protection (IP)	IP67
Rated voltage [V]	250	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	Standard	IEC61076-2-101
Material(grip body)	Zinc die-cast/Nickel plated	RoHS	compliant
Material(contact)	Brass, gold plated		
Material(contact carrier)	Nylon-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<p>4-pole, straight, female, M12 D-code, cable diameter:                      4 ... 6 mm (black sealing)                      6 ... 8 mm (grey sealing)</p> 	<p>without terminal                      0.25 ... 0.75 mm<sup>2</sup>                      with terminal                      0.14 ... 0.75 mm<sup>2</sup></p>	M12D-SF4S-D8	11 05 104 1290	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<p>4-pole, straight, male, M12 D-code, cable diameter:                      4 ... 6 mm (black sealing)                      6 ... 8 mm (grey sealing)</p> 	<p>without terminal                      0.25 ... 0.75 mm<sup>2</sup>                      with terminal                      0.14 ... 0.75 mm<sup>2</sup></p>	M12D-SM4S-D8	11 05 104 1190	

7/8"

**Contents**

**Pages**

7/8" ..... 07-01


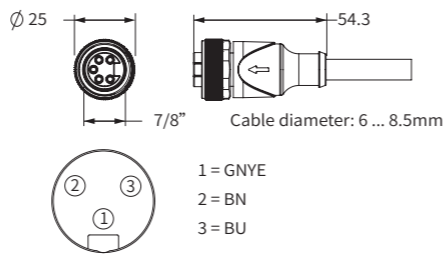

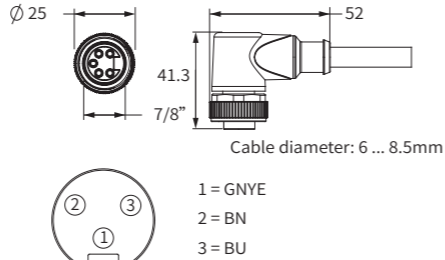

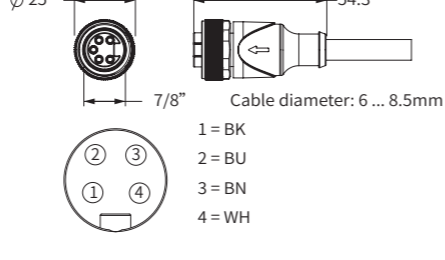

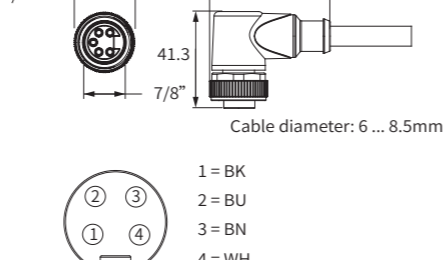
Sensor/Actuator Cordsets ..... 07-03

Sensor/Actuator Receptacles ..... 08-01


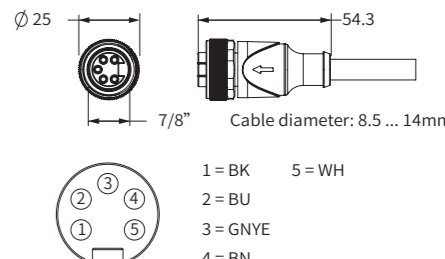

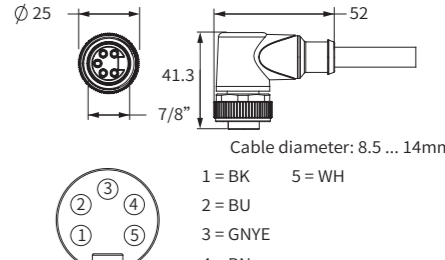

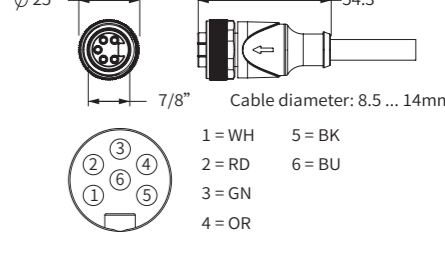

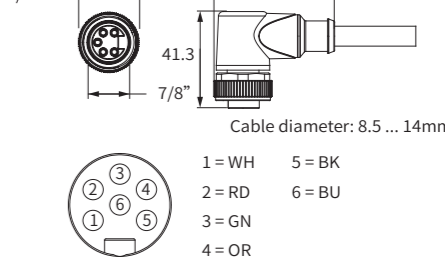
Field Wireable Connectors ..... 09-01

Technical characteristics				
Connector		7/8"	Cable description	PVC-black
Rated current	[A]	9	Tightening torque	1.5 Nm
Rated voltage	[V]	600	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ]	≤5	Mating cycles	≥100
Material(grip body)		TPU-black	Pollution degree	3
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Technical characteristics				
Connector		7/8"	Cable description	PVC-black
Rated current	[A]	9	Tightening torque	1.5 Nm
Rated voltage	[V]	600	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ]	≤5	Mating cycles	≥100
Material(grip body)		TPU-black	Pollution degree	3
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, female,</b> 7/8", cable type: V 	2 m	7/8-F3S-L2V	11 14 003 1200	 <p>1 = GNYE 2 = BN 3 = BU</p>
	5 m	7/8-F3S-L5V	11 14 003 1201	
	10 m	7/8-F3S-L10V	11 14 003 1202	
<b>3-pole, angled, female,</b> 7/8", cable type: V 	2 m	7/8-F3A-L2V	11 14 003 0200	 <p>1 = GNYE 2 = BN 3 = BU</p>
	5 m	7/8-F3A-L5V	11 14 003 0201	
	10 m	7/8-F3A-L10V	11 14 003 0202	
<b>4-pole, straight, female,</b> 7/8", cable type: V 	2 m	7/8-F4S-L2V	11 14 004 1200	 <p>1 = BK 2 = BU 3 = BN 4 = WH</p>
	5 m	7/8-F4S-L5V	11 14 004 1201	
	10 m	7/8-F4S-L10V	11 14 004 1202	
<b>4-pole, angled, female,</b> 7/8", cable type: V 	2 m	7/8-F4A-L2V	11 14 004 0200	 <p>1 = BK 2 = BU 3 = BN 4 = WH</p>
	5 m	7/8-F4A-L5V	11 14 004 0201	
	10 m	7/8-F4A-L10V	11 14 004 0202	


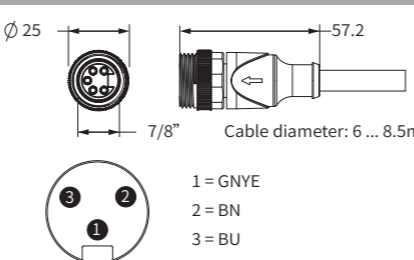

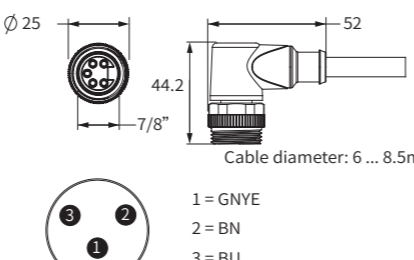

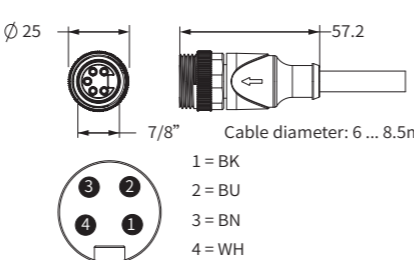

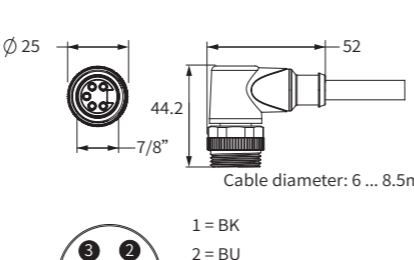
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole, straight, female,</b> 7/8", cable type: V 	2 m	7/8-F5S-L2V	11 14 005 1200	 <p>1 = BK 5 = WH 2 = BU 3 = GNYE 4 = BN</p>
	5 m	7/8-F5S-L5V	11 14 005 1201	
	10 m	7/8-F5S-L10V	11 14 005 1202	
<b>5-pole, angled, female,</b> 7/8", cable type: V 	2 m	7/8-F5A-L2V	11 14 005 0200	 <p>1 = BK 5 = WH 2 = BU 3 = GNYE 4 = BN</p>
	5 m	7/8-F5A-L5V	11 14 005 0201	
	10 m	7/8-F5A-L10V	11 14 005 0202	
<b>6-pole, straight, female,</b> 7/8", cable type: V 	2 m	7/8-F6S-L2V	11 14 006 1200	 <p>1 = WH 5 = BK 2 = RD 6 = BU 3 = GN 4 = OR</p>
	5 m	7/8-F6S-L5V	11 14 006 1201	
	10 m	7/8-F6S-L10V	11 14 006 1202	
<b>6-pole, angled, female,</b> 7/8", cable type: V 	2 m	7/8-F6A-L2V	11 14 006 0200	 <p>1 = WH 5 = BK 2 = RD 6 = BU 3 = GN 4 = OR</p>
	5 m	7/8-F6A-L5V	11 14 006 0201	
	10 m	7/8-F6A-L10V	11 14 006 0202	


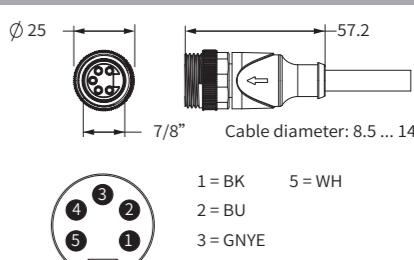

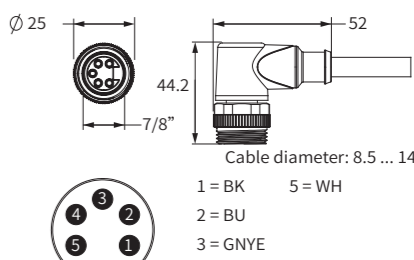

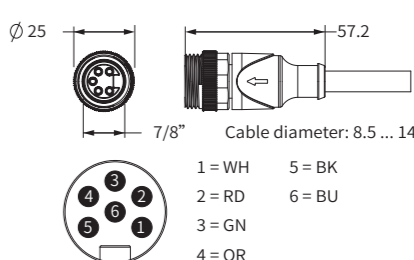

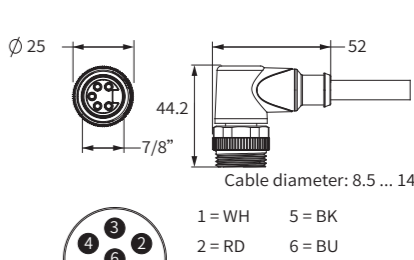
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics				
Connector		7/8"	Cable description	PVC-black
Rated current	[A]	9	Tightening torque	1.5 Nm
Rated voltage	[V]	600	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ]	≤5	Mating cycles	≥100
Material(grip body)		TPU-black	Pollution degree	3
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Technical characteristics				
Connector		7/8"	Cable description	PVC-black
Rated current	[A]	9	Tightening torque	1.5 Nm
Rated voltage	[V]	600	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ]	≤5	Mating cycles	≥100
Material(grip body)		TPU-black	Pollution degree	3
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		


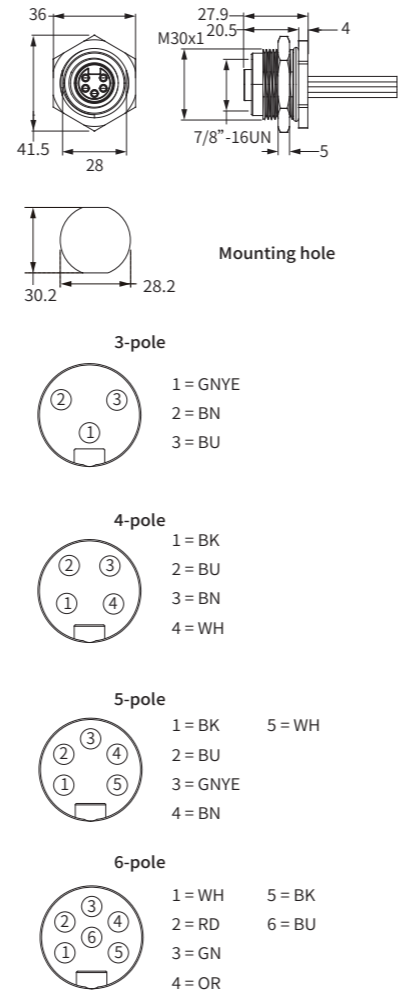
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, male,</b> 7/8", cable type: V 	2 m	7/8-M3S-L2V	11 14 003 1100	 Cable diameter: 6 ... 8.5mm 1 = GNYE 2 = BN 3 = BU
	5 m	7/8-M3S-L5V	11 14 003 1101	
	10 m	7/8-M3S-L10V	11 14 003 1102	
<b>3-pole, angled, male,</b> 7/8", cable type: V 	2 m	7/8-M3A-L2V	11 14 003 0100	 Cable diameter: 6 ... 8.5mm 1 = GNYE 2 = BN 3 = BU
	5 m	7/8-M3A-L5V	11 14 003 0101	
	10 m	7/8-M3A-L10V	11 14 003 0102	
<b>4-pole, straight, male,</b> 7/8", cable type: V 	2 m	7/8-M4S-L2V	11 14 004 1100	 Cable diameter: 6 ... 8.5mm 1 = BK 2 = BU 3 = BN 4 = WH
	5 m	7/8-M4S-L5V	11 14 004 1101	
	10 m	7/8-M4S-L10V	11 14 004 1102	
<b>4-pole, angled, male,</b> 7/8", cable type: V 	2 m	7/8-M4A-L2V	11 14 004 0100	 Cable diameter: 6 ... 8.5mm 1 = BK 2 = BU 3 = BN 4 = WH
	5 m	7/8-M4A-L5V	11 14 004 0101	
	10 m	7/8-M4A-L10V	11 14 004 0102	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>5-pole, straight, male,</b> 7/8", cable type: V 	2 m	7/8-M5S-L2V	11 14 005 1100	 Cable diameter: 8.5 ... 14mm 1 = BK 5 = WH 2 = BU 3 = GNYE 4 = BN
	5 m	7/8-M5S-L5V	11 14 005 1101	
	10 m	7/8-M5S-L10V	11 14 005 1102	
<b>5-pole, angled, male,</b> 7/8", cable type: V 	2 m	7/8-M5A-L2V	11 14 005 0100	 Cable diameter: 8.5 ... 14mm 1 = BK 5 = WH 2 = BU 3 = GNYE 4 = BN
	5 m	7/8-M5A-L5V	11 14 005 0101	
	10 m	7/8-M5A-L10V	11 14 005 0102	
<b>6-pole, straight, male,</b> 7/8", cable type: V 	2 m	7/8-M6S-L2V	11 14 006 1100	 Cable diameter: 8.5 ... 14mm 1 = WH 5 = BK 2 = RD 6 = BU 3 = GN 4 = OR
	5 m	7/8-M6S-L5V	11 14 006 1101	
	10 m	7/8-M6S-L10V	11 14 006 1102	
<b>6-pole, angled, male,</b> 7/8", cable type: V 	2 m	7/8-M6A-L2V	11 14 006 0100	 Cable diameter: 8.5 ... 14mm 1 = WH 5 = BK 2 = RD 6 = BU 3 = GN 4 = OR
	5 m	7/8-M6A-L5V	11 14 006 0101	
	10 m	7/8-M6A-L10V	11 14 006 0102	


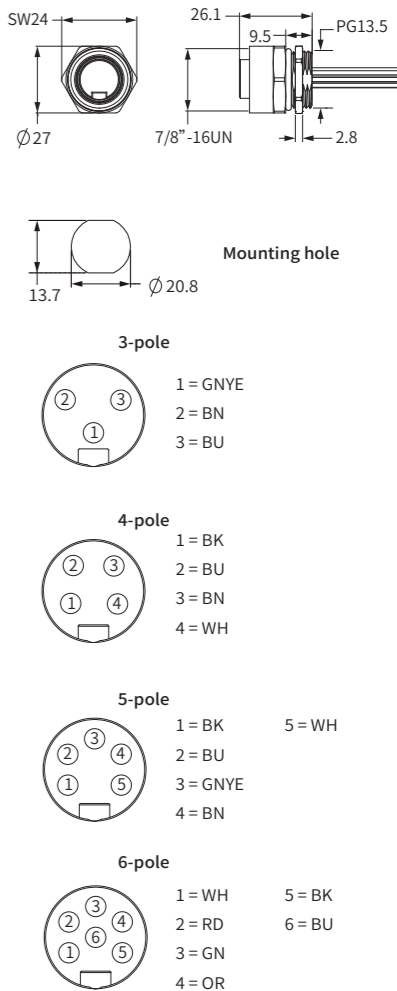
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector		7/8"	
Rated current	[A]	9	Tightening torque
Rated voltage	[V]	600	24 Nm
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Limiting temperature
Contact resistance	[mΩ]	≤5	[°C]
Material(grip body)		Zinc die-cast/Nickel plated	-25 ... +85
Material(contact)		Brass, gold plated	Degree of protection (IP)
Material(contact carrier)		TPU-black	IP67
Material(knurl)		Zinc die-cast/Nickel plated	Mating cycles
Material(seal)		FPM/FKM	≥100
			Pollution degree
			3
			RoHS
			compliant

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>Sensor/Actuator Receptacles, with wire ends<sup>1)</sup>, rear mounting, female, individual wires, 7/8"</b> 	3-pole	7/8-F3R-L0.5M30-1GNYE	11 14 003 2200	
	4-pole	7/8-F4R-L0.5M30	11 14 004 2200	
	5-pole	7/8-F5R-L0.5M30-3GNYE	11 14 005 2200	
	6-pole	7/8-F6R-L0.5M30	11 14 006 2200	


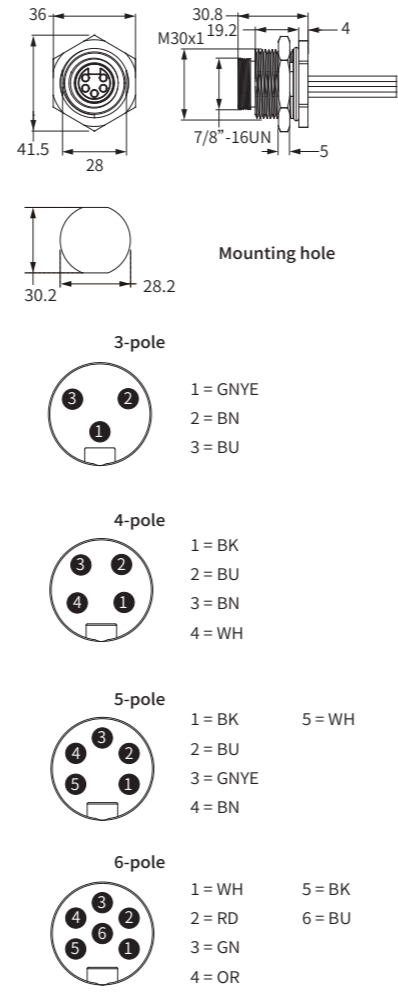
1): Standard cable length is 0.5m, variable cable length is optional.

Technical characteristics			
Connector		7/8"	
Rated current	[A]	9	Tightening torque
Rated voltage	[V]	600	24 Nm
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Limiting temperature
Contact resistance	[mΩ]	≤5	[°C]
Material(grip body)		Zinc die-cast/Nickel plated	-25 ... +85
Material(contact)		Brass, gold plated	Degree of protection (IP)
Material(contact carrier)		TPU-black	IP67
Material(knurl)		Zinc die-cast/Nickel plated	Mating cycles
Material(seal)		FPM/FKM	≥100
			Pollution degree
			3
			RoHS
			compliant

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>Sensor/Actuator Receptacles, with wire ends<sup>1)</sup>, front mounting, female, individual wires, 7/8"</b> 	3-pole	7/8-F3F-L0.5PG13.5-1GNYE	11 14 003 3201	
	4-pole	7/8-F4F-L0.5PG13.5	11 14 004 3201	
	5-pole	7/8-F5F-L0.5PG13.5	11 14 005 3200	
	6-pole	7/8-F6F-L0.5PG13.5	11 14 006 3200	


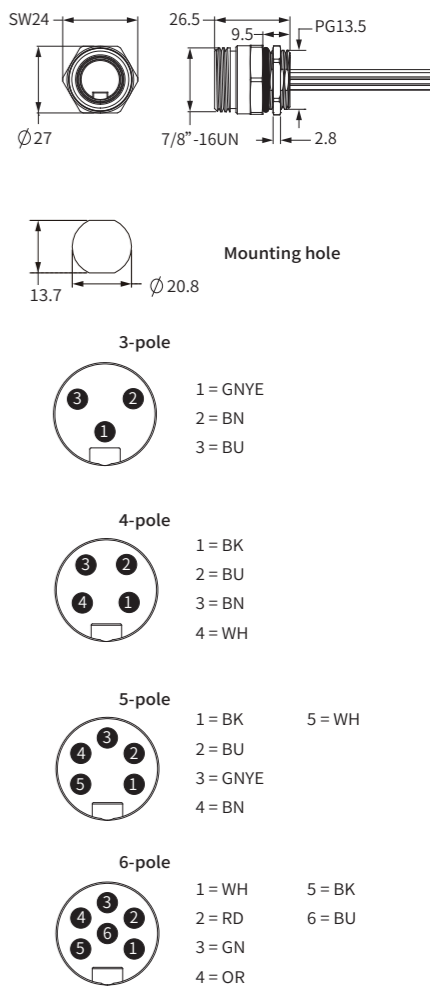
1): Standard cable length is 0.5m, variable cable length is optional; Fastening M20x1.5 is optional.

Technical characteristics			
Connector		7/8"	
Rated current	[A]	9	Tightening torque
Rated voltage	[V]	600	24 Nm
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Limiting temperature
Contact resistance	[mΩ]	≤5	[°C]
Material(grip body)		Zinc die-cast/Nickel plated	-25 ... +85
Material(contact)		Brass, gold plated	Degree of protection (IP)
Material(contact carrier)		TPU-black	IP67
Material(knurl)		Zinc die-cast/Nickel plated	Mating cycles
Material(seal)		FPM/FKM	≥100
			Pollution degree
			3
			RoHS
			compliant

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>Sensor/Actuator Receptacles, with wire ends<sup>1)</sup>, rear mounting, male, individual wires, 7/8"</b> 	3-pole	7/8-M3R-L0.5M30-1GNYE	11 14 003 2100	
	4-pole	7/8-M4R-L0.5M30	11 14 004 2100	
	5-pole	7/8-M5R-L0.5M30-3GNYE	11 14 005 2100	
	6-pole	7/8-M6R-L0.5M30	11 14 006 2100	

1): Standard cable length is 0.5m, variable cable length is optional.

Technical characteristics			
Connector		7/8"	
Rated current	[A]	9	Tightening torque
Rated voltage	[V]	600	24 Nm
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Limiting temperature
Contact resistance	[mΩ]	≤5	[°C]
Material(grip body)		Zinc die-cast/Nickel plated	-25 ... +85
Material(contact)		Brass, gold plated	Degree of protection (IP)
Material(contact carrier)		TPU-black	IP67
Material(knurl)		Zinc die-cast/Nickel plated	Mating cycles
Material(seal)		FPM/FKM	≥100
			Pollution degree
			3
			RoHS
			compliant

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>Sensor/Actuator Receptacles, with wire ends<sup>1)</sup>, front mounting, male, individual wires, 7/8"</b> 	3-pole	7/8-M3F-L0.5PG13.5-1GNYE	11 14 003 3101	
	4-pole	7/8-M4F-L0.5PG13.5	11 14 004 3101	
	5-pole	7/8-M5F-L0.5PG13.5	11 14 005 3100	
	6-pole	7/8-M6F-L0.5PG13.5	11 14 006 3100	

1): Standard cable length is 0.5m, variable cable length is optional; Fastening M20x1.5 is optional.



Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current	[A] 9	Degree of protection (IP)	IP67
Rated voltage	[V] 300	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Aluminium oxide-black		

Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current	[A] 9	Degree of protection (IP)	IP67
Rated voltage	[V] 300	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Aluminium oxide-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F3S-D13	11 14 003 1290	
<b>3-pole, angled, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F3A-D13	11 14 003 0290	
<b>4-pole, straight, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F4S-D13	11 14 004 1290	
<b>4-pole, angled, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F4A-D13	11 14 004 0290	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>5-pole, straight, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F5S-D13	11 14 005 1290	
<b>5-pole, angled, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F5A-D13	11 14 005 0290	
<b>6-pole, straight, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F6S-D13	11 14 006 1290	
<b>6-pole, angled, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F6A-D13	11 14 006 0290	

Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	9	Degree of protection (IP)	IP67
Rated voltage [V]	300	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Aluminium oxide-black		

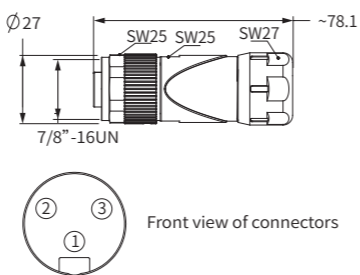
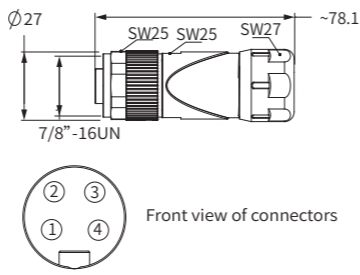
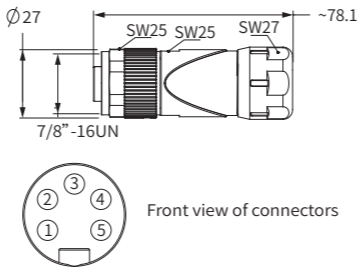
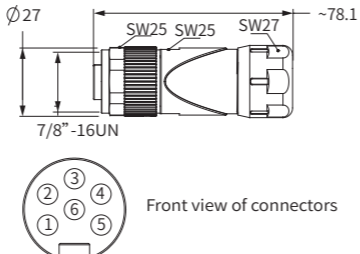
Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M3S-D13	11 14 003 1190	
<b>3-pole, angled, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M4S-D13	11 14 004 1190	
<b>4-pole, straight, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M3A-D13	11 14 003 0190	
<b>4-pole, angled, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M4A-D13	11 14 004 0190	

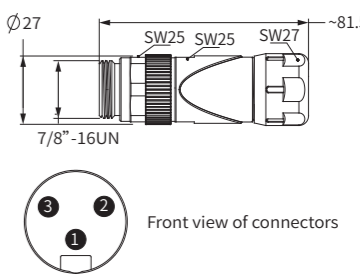
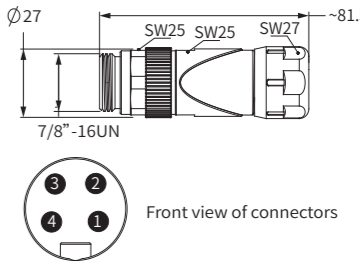
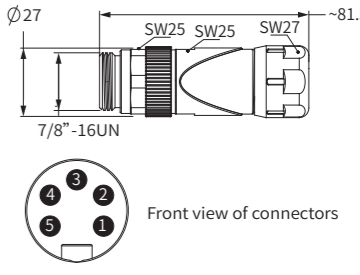
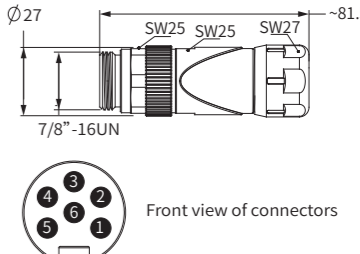
Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	9	Degree of protection (IP)	IP67
Rated voltage [V]	300	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Aluminium oxide-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>5-pole, straight, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M5S-D13	11 14 005 1190	
<b>5-pole, angled, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M5A-D13	11 14 005 0190	
<b>6-pole, straight, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M6S-D13	11 14 006 1190	
<b>6-pole, angled, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M6A-D13	11 14 006 0190	

Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current	[A] 9	Degree of protection (IP)	IP67
Rated voltage	[V] 300	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Aluminium oxide-black		

Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current	[A] 9	Degree of protection (IP)	IP67
Rated voltage	[V] 300	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Aluminium oxide-black		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
3-pole, straight, female, 7/8", cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F3S-D18	11 14 003 1291	
4-pole, straight, female, 7/8", cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F4S-D18	11 14 004 1291	
5-pole, straight, female, 7/8", cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F5S-D18	11 14 005 1291	
6-pole, straight, female, 7/8", cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-F6S-D18	11 14 006 1291	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
3-pole, straight, male, 7/8", cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M3S-D18	11 14 003 1191	
4-pole, straight, male, 7/8", cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M4S-D18	11 14 004 1191	
5-pole, straight, male, 7/8", cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M5S-D18	11 14 005 1191	
6-pole, straight, male, 7/8", cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-M6S-D18	11 14 006 1191	

Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current	[A] 9	Degree of protection (IP)	IP67
Rated voltage	[V] 300	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Stainless steel		

Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current	[A] 9	Degree of protection (IP)	IP67
Rated voltage	[V] 300	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Stainless steel		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF3S-D13	11 14 203 1290	
<b>3-pole, angled, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF3A-D13	11 14 203 0290	
<b>4-pole, straight, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF4S-D13	11 14 204 1290	
<b>4-pole, angled, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF4A-D13	11 14 204 0290	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>5-pole, straight, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF5S-D13	11 14 205 1290	
<b>5-pole, angled, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF5A-D13	11 14 205 0290	
<b>6-pole, straight, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF6S-D13	11 14 206 1290	
<b>6-pole, angled, female, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF6A-D13	11 14 206 0290	

Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	9	Degree of protection (IP)	IP67
Rated voltage [V]	300	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Stainless steel		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM3S-D13	11 14 203 1190	
<b>3-pole, angled, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM3A-D13	11 14 203 0190	
<b>4-pole, straight, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM4S-D13	11 14 204 1190	
<b>4-pole, angled, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM4A-D13	11 14 204 0190	

Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current [A]	9	Degree of protection (IP)	IP67
Rated voltage [V]	300	Mating cycles	≥100
Insulation resistance [Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance [mΩ]	≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Stainless steel		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>5-pole, straight, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM5S-D13	11 14 205 1190	
<b>5-pole, angled, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM5A-D13	11 14 205 0190	
<b>6-pole, straight, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM6S-D13	11 14 206 1190	
<b>6-pole, angled, male, 7/8"</b> , cable diameter: 6 ... 8 mm (black sealing) 8 ... 10 mm (blue sealing) 10 ... 13 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM6A-D13	11 14 206 0190	

Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current	[A] 9	Degree of protection (IP)	IP67
Rated voltage	[V] 300	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Stainless steel		

Technical characteristics			
Connector	7/8"	Material(seal)	FPM/FKM
Connection method	Screw	Limiting temperature [°C]	-25 ... +85
Rated current	[A] 9	Degree of protection (IP)	IP67
Rated voltage	[V] 300	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(grip body)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Stainless steel		

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, female, 7/8"</b> , cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF3S-D18	11 14 203 1291	
<b>4-pole, straight, female, 7/8"</b> , cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF4S-D18	11 14 204 1291	
<b>5-pole, straight, female, 7/8"</b> , cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF5S-D18	11 14 205 1291	
<b>6-pole, straight, female, 7/8"</b> , cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VF6S-D18	11 14 206 1291	

Identification	Connection cross section	Type	Part number	Drawing (dimensions in mm)
<b>3-pole, straight, male, 7/8"</b> , cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM3S-D18	11 14 203 1191	
<b>4-pole, straight, male, 7/8"</b> , cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM4S-D18	11 14 204 1191	
<b>5-pole, straight, male, 7/8"</b> , cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM5S-D18	11 14 205 1191	
<b>6-pole, straight, male, 7/8"</b> , cable diameter: 13 ... 15 mm (black sealing) 15 ... 18 mm (grey sealing)	0.34 ... 2.5 mm <sup>2</sup>	7/8-VM6S-D18	11 14 206 1191	

# M23

## Contents

## Pages

M23.....	10-01
Sensor/Actuator Cordsets .....	10-03
Sensor/Actuator Receptacles .....	11-01
Field Wireable Connectors .....	12-01

Technical characteristics				
Connector		M23	Cable description	PVC-black
Rated voltage	[V]	630	Tightening torque	2 Nm
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ]	≤5	Degree of protection (IP)	IP67
Material(grip body)		TPU-black	Mating cycles	≥100
Material(contact)		Brass, gold plated	Pollution degree	3
Material(contact carrier)		PBT-black	Standard	IEC61076-2-101
Material(knurl)		Brass/Nickel plated	RoHS	compliant
Material(seal)		FPM/FKM		

Technical characteristics				
Connector		M23	Cable description	PVC-black
Rated voltage	[V]	630	Tightening torque	2 Nm
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ]	≤5	Degree of protection (IP)	IP67
Material(grip body)		TPU-black	Mating cycles	≥100
Material(contact)		Brass, gold plated	Pollution degree	3
Material(contact carrier)		PBT-black	Standard	IEC61076-2-101
Material(knurl)		Brass/Nickel plated	RoHS	compliant
Material(seal)		FPM/FKM		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
6-pole, straight, female, M23, with coupling nut, Power/Brake: 9A/9A, cable type: V	2 m	M23-F6S-L2PV.16	11 12 006 1200	
6-pole, angled, female, M23, with coupling nut, Power/Brake: 9A/9A, cable type: V	2 m	M23-F6A-L2PV.16	11 12 006 0200	
6-pole, straight, female, M23, with coupling nut, Power/Brake: 16A/9A, cable type: V	2 m	M23-F6S-L2PV.14	11 12 006 1201	
6-pole, angled, female, M23, with coupling nut, Power/Brake: 16A/9A, cable type: V	2 m	M23-F6A-L2PV.14	11 12 006 0201	


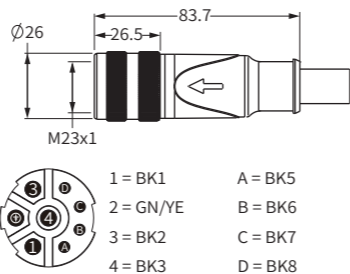

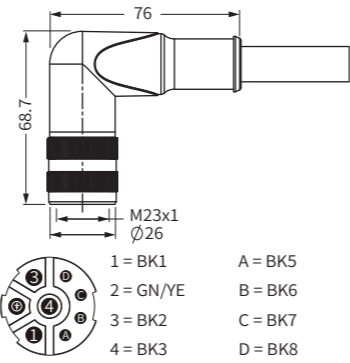
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
6-pole, straight, female, M23, with coupling nut, Power/Brake: 28A/9A, cable type: V	2 m	M23-F6S-L2PV.12	11 12 006 1202	
6-pole, angled, female, M23, with coupling nut, Power/Brake: 28A/9A, cable type: V	2 m	M23-F6A-L2PV.12	11 12 006 0202	
8-pole, straight, female, M23, with coupling nut, Power/Brake: 9A/7A, cable type: V	2 m	M23-F8S-L2PV.16	11 12 008 1200	
8-pole, angled, female, M23, with coupling nut, Power/Brake: 9A/7A, cable type: V	2 m	M23-F8A-L2PV.16	11 12 008 0200	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.




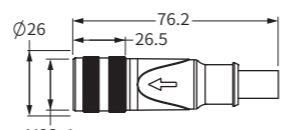

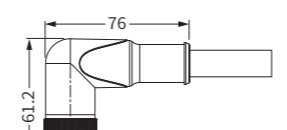

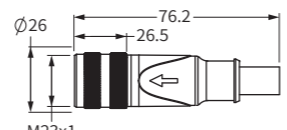

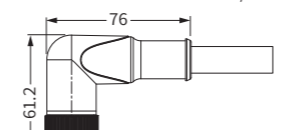
Technical characteristics				
Connector		M23	Cable description	PVC-black
Rated voltage	[V]	630	Tightening torque	2 Nm
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Limiting temperature	-25 ... +85
Contact resistance	[mΩ]	≤5	Degree of protection (IP)	IP67
Material(grip body)		TPU-black	Mating cycles	≥100
Material(contact)		Brass, gold plated	Pollution degree	3
Material(contact carrier)		PBT-black	Standard	IEC61076-2-101
Material(knurl)		Brass/Nickel plated	RoHS	compliant
Material(seal)		FPM/FKM		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<p>8-pole, straight, female, M23, with coupling nut, Power/Brake: 16A/7A, cable type: V</p> 	2 m	M23-F8S-L2PV.14	11 12 008 1201	
<p>8-pole, angled, female, M23, with coupling nut, Power/Brake: 16A/7A, cable type: V</p> 	2 m	M23-F8A-L2PV.14	11 12 008 0201	


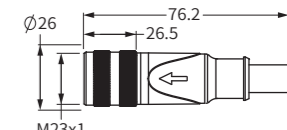

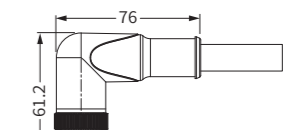

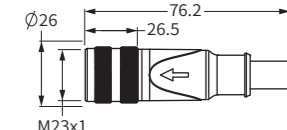

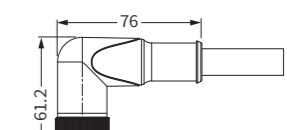
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics				
Connector		M23	Material(seal)	FPM/FKM
Rated current	[A]	9	Cable description	PVC-black
Rated voltage	[V]	150	Tightening torque	2 Nm
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ]	≤5	Degree of protection (IP)	IP67
Material(grip body)		TPU-black	Mating cycles	≥100
Material(contact)		Brass, gold plated	Pollution degree	3
Material(contact carrier)		PBT-white	Standard	IEC61076-2-101
Material(knurl)		Zinc die-cast/Nickel plated	RoHS	compliant

Technical characteristics				
Connector		M23	Material(seal)	FPM/FKM
Rated current	[A]	9	Cable description	PVC-black
Rated voltage	[V]	150	Tightening torque	2 Nm
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ]	≤5	Degree of protection (IP)	IP67
Material(grip body)		TPU-black	Mating cycles	≥100
Material(contact)		Brass, gold plated	Pollution degree	3
Material(contact carrier)		PBT-white	Standard	IEC61076-2-101
Material(knurl)		Zinc die-cast/Nickel plated	RoHS	compliant

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>12.7-pole, straight, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F12.7S-L2V	11 12 012 1212	 M23x1 1 = WH      9 = BU 2 = GN      10 = connect with 9 3 = YE      11 = BN 4 = GY      12 = GN/YE
	5 m	MN23-F12.7S-L5V	11 12 012 1213	
	10 m	MN23-F12.7S-L10V	11 12 012 1214	
<b>12.7-pole, angled, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F12.7A-L2V	11 12 012 0212	 M23x1 1 = WH      9 = BU 2 = GN      10 = connect with 9 3 = YE      11 = BN 4 = GY      12 = GN/YE
	5 m	MN23-F12.7A-L5V	11 12 012 0213	
	10 m	MN23-F12.7A-L10V	11 12 012 0214	
<b>12.9-pole, straight, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F12.9S-L2V	11 12 012 1215	 M23x1 1 = WH      6 = RD 2 = GN      9 = BU 3 = YE      10 = connect with 9 4 = GY      11 = BN 5 = PK      12 = GN/YE
	5 m	MN23-F12.9S-L5V	11 12 012 1216	
	10 m	MN23-F12.9S-L10V	11 12 012 1217	
<b>12.9-pole, angled, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F12.9A-L2V	11 12 012 0215	 M23x1 1 = WH      6 = RD 2 = GN      9 = BU 3 = YE      10 = connect with 9 4 = GY      11 = BN 5 = PK      12 = GN/YE
	5 m	MN23-F12.9A-L5V	11 12 012 0216	
	10 m	MN23-F12.9A-L10V	11 12 012 0217	


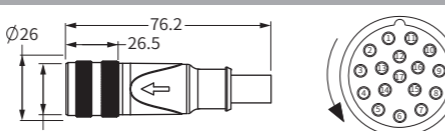

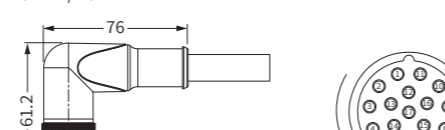

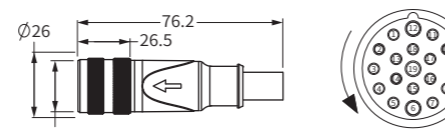

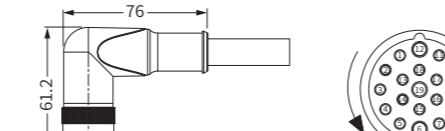
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>12.11-pole, straight, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F12.11S-L2V	11 12 012 1218	 M23x1 1 = WH      7 = BK 2 = GN      8 = VT 3 = YE      9 = BU 4 = GY      10 = connect with 9 5 = PK      11 = BN 6 = RD      12 = GN/YE
	5 m	MN23-F12.11S-L5V	11 12 012 1219	
	10 m	MN23-F12.11S-L10V	11 12 012 1220	
<b>12.11-pole, angled, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F12.11A-L2V	11 12 012 0218	 M23x1 1 = WH      7 = BK 2 = GN      8 = VT 3 = YE      9 = BU 4 = GY      10 = connect with 9 5 = PK      11 = BN 6 = RD      12 = GN/YE
	5 m	MN23-F12.11A-L5V	11 12 012 0219	
	10 m	MN23-F12.11A-L10V	11 12 012 0220	
<b>12-pole, straight, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F12S-L2V	11 12 012 1221	 M23x1 1 = BN      7 = GY 2 = BU      8 = PK 3 = WH      9 = RD 4 = GN/YE      10 = BN/WH 5 = OG      11 = BU/WH 6 = YE      12 = GN/WH
	5 m	MN23-F12S-L5V	11 12 012 1222	
	10 m	MN23-F12S-L10V	11 12 012 1223	
<b>12-pole, angled, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F12A-L2V	11 12 012 0221	 M23x1 1 = BN      7 = GY 2 = BU      8 = PK 3 = WH      9 = RD 4 = GN/YE      10 = BN/WH 5 = OG      11 = BU/WH 6 = YE      12 = GN/WH
	5 m	MN23-F12A-L5V	11 12 012 0222	
	10 m	MN23-F12A-L10V	11 12 012 0223	


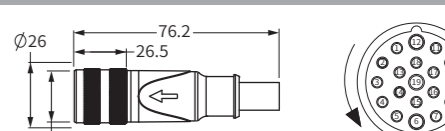

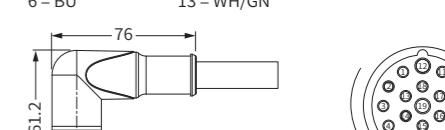

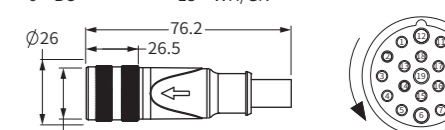

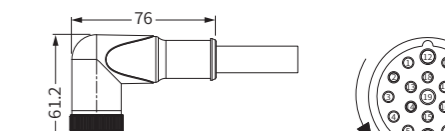
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>17-pole, straight, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F17S-L2V	11 12 017 1203	 M23x1 1 = BU      7 = GN      13 = YE/BN 2 = RD      8 = GY/PK      14 = BN/GN 3 = BN      9 = WH/GN      15 = WH 4 = GY      10 = WH/YE      16 = YE 5 = GN/YE      11 = WH/GY      17 = PK 6 = RD/BU      12 = BK
	5 m	MN23-F17S-L5V	11 12 017 1204	
	10 m	MN23-F17S-L10V	11 12 017 1205	
<b>17-pole, angled, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F17A-L2V	11 12 017 0203	 M23x1 1 = BU      7 = GN      13 = YE/BN 2 = RD      8 = GY/PK      14 = BN/GN 3 = BN      9 = WH/GN      15 = WH 4 = GY      10 = WH/YE      16 = YE 5 = GN/YE      11 = WH/GY      17 = PK 6 = RD/BU      12 = BK
	5 m	MN23-F17A-L5V	11 12 017 0204	
	10 m	MN23-F17A-L10V	11 12 017 0205	
<b>19.11-pole, straight, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F19.11S-L2V	11 12 019 1213	 M23x1 3 = GY      12 = GN/YE 4 = RD/BU      14 = BN/GN 5 = GN      15 = WH 6 = BU      16 = YE 7 = GY/PK      19 = BN 8 = WH/GN
	5 m	MN23-F19.11S-L5V	11 12 019 1214	
	10 m	MN23-F19.11S-L10V	11 12 019 1215	
<b>19.11-pole, angled, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F19.11A-L2V	11 12 019 0213	 M23x1 3 = GY      12 = GN/YE 4 = RD/BU      14 = BN/GN 5 = GN      15 = WH 6 = BU      16 = YE 7 = GY/PK      19 = BN 8 = WH/GN
	5 m	MN23-F19.11A-L5V	11 12 019 0214	
	10 m	MN23-F19.11A-L10V	11 12 019 0215	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>19.14-pole, straight, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F19.14S-L2V	11 12 019 1216	 M23x1 1 = WH      7 = RD      14 = BN/GN 2 = GN      8 = BK      19 = BN 3 = YE      9 = VT 4 = GY      10 = GY/PK 5 = PK      11 = RD/BU 6 = BU      13 = WH/GN
	5 m	MN23-F19.14S-L5V	11 12 019 1217	
	10 m	MN23-F19.14S-L10V	11 12 019 1218	
<b>19.14-pole, angled, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F19.14A-L2V	11 12 019 0216	 M23x1 1 = WH      7 = RD      14 = BN/GN 2 = GN      8 = BK      19 = BN 3 = YE      9 = VT 4 = GY      10 = GY/PK 5 = PK      11 = RD/BU 6 = BU      13 = WH/GN
	5 m	MN23-F19.14A-L5V	11 12 019 0217	
	10 m	MN23-F19.14A-L10V	11 12 019 0218	
<b>19.15-pole, straight, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F19.15S-L2V	11 12 019 1219	 M23x1 2 = RD      8 = WH/GN      16 = YE 3 = GY      9 = WH/YE      17 = PK 4 = RD/BU      12 = GN/YE      19 = BN 5 = GN      13 = YE/BN 6 = BU      14 = BN/GN 7 = GY/PK      15 = WH
	5 m	MN23-F19.15S-L5V	11 12 019 1220	
	10 m	MN23-F19.15S-L10V	11 12 019 1221	
<b>19.15-pole, angled, female, M23, with coupling nut, cable type: V</b> 	2 m	MN23-F19.15A-L2V	11 12 019 0219	 M23x1 2 = RD      8 = WH/GN      16 = YE 3 = GY      9 = WH/YE      17 = PK 4 = RD/BU      12 = GN/YE      19 = BN 5 = GN      13 = YE/BN 6 = BU      14 = BN/GN 7 = GY/PK      15 = WH
	5 m	MN23-F19.15A-L5V	11 12 019 0220	
	10 m	MN23-F19.15A-L10V	11 12 019 0221	


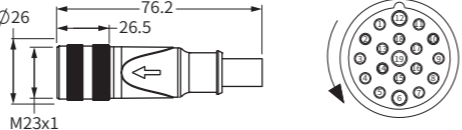

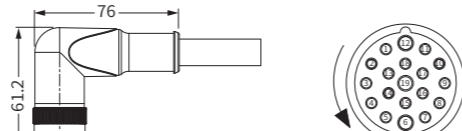
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

## Technical characteristics


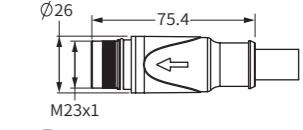

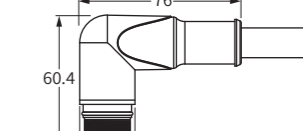

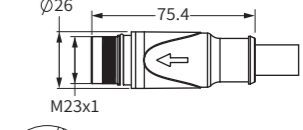

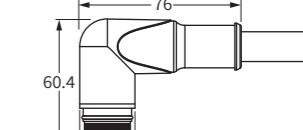
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] $\geq 10^8$	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] $\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

## Technical characteristics

Connector	M23	Cable description	PVC-black
Rated voltage	[V] 630	Tightening torque	2 Nm
Insulation resistance	[Ω] $\geq 10^8$	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] $\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-black	Standard	IEC61076-2-101
Material(knurl)	Brass/Nickel plated	RoHS	compliant
Material(seal)	FPM/FKM		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
19-pole, straight, female, M23, with coupling nut, cable type: V 	2 m	MN23-F19S-L2V	11 12 019 1222	 <p>M23x1</p> <p>1 = VT      8 = WH/GN      15 = WH 2 = RD      9 = WH/YE      16 = YE 3 = GY      10 = WH/GY      17 = PK 4 = RD/BU      11 = BK      18 = GY/BN 5 = GN      12 = GN/YE      19 = BN 6 = BU      13 = YE/BN 7 = GY/PK      14 = BN/GN</p>
	5 m	MN23-F19S-L5V	11 12 019 1223	
	10 m	MN23-F19S-L10V	11 12 019 1224	
19-pole, angled, female, M23, with coupling nut, cable type: V 	2 m	MN23-F19A-L2V	11 12 019 0222	 <p>M23x1</p> <p>1 = VT      8 = WH/GN      15 = WH 2 = RD      9 = WH/YE      16 = YE 3 = GY      10 = WH/GY      17 = PK 4 = RD/BU      11 = BK      18 = GY/BN 5 = GN      12 = GN/YE      19 = BN 6 = BU      13 = YE/BN 7 = GY/PK      14 = BN/GN</p>
	5 m	MN23-F19A-L5V	11 12 019 0223	
	10 m	MN23-F19A-L10V	11 12 019 0224	


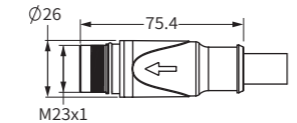

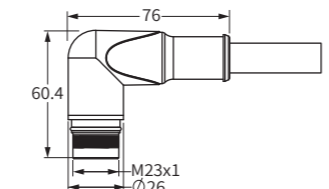

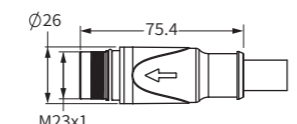

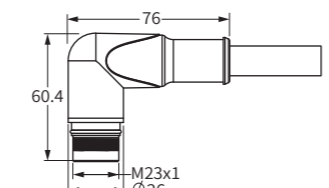
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
6-pole, straight, male, M23, with outside thread, Power/Brake: 9A/9A, cable type: V 	2 m	M23-M6S-L2PV.16	11 12 006 1100	 <p>M23x1</p> <p>1 = BK1      4 = BK3 2 = BK2      5 = BK 3 = GN/YE      6 = WH</p>
	2 m	M23-M6A-L2PV.16	11 12 006 0100	
6-pole, angled, male, M23, with outside thread, Power/Brake: 9A/9A, cable type: V 	2 m	M23-M6A-L2PV.16	11 12 006 0100	 <p>M23x1</p> <p>1 = BK1      4 = BK3 2 = BK2      5 = BK 3 = GN/YE      6 = WH</p>
	2 m	M23-M6S-L2PV.14	11 12 006 1101	
6-pole, straight, male, M23, with outside thread, Power/Brake: 16A/9A, cable type: V 	2 m	M23-M6S-L2PV.14	11 12 006 1101	 <p>M23x1</p> <p>1 = BK1      4 = BK3 2 = BK2      5 = BK 3 = GN/YE      6 = WH</p>
	2 m	M23-M6A-L2PV.14	11 12 006 0101	
6-pole, angled, male, M23, with outside thread, Power/Brake: 16A/9A, cable type: V 	2 m	M23-M6A-L2PV.14	11 12 006 0101	 <p>M23x1</p> <p>1 = BK1      4 = BK3 2 = BK2      5 = BK 3 = GN/YE      6 = WH</p>
	2 m	M23-M6S-L2PV.14	11 12 006 1101	


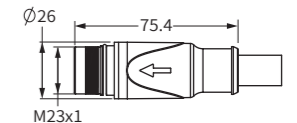

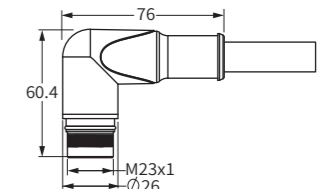
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M23	Cable description	PVC-black
Rated voltage	[V] 630	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-black	Standard	IEC61076-2-101
Material(knurl)	Brass/Nickel plated	RoHS	compliant
Material(seal)	FPM/FKM		

Technical characteristics			
Connector	M23	Cable description	PVC-black
Rated voltage	[V] 630	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-black	Standard	IEC61076-2-101
Material(knurl)	Brass/Nickel plated	RoHS	compliant
Material(seal)	FPM/FKM		

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<p>6-pole, straight, male, M23, with outside thread, Power/Brake: 28A/9A, cable type: V</p> 	2 m	M23-M6S-L2PV.12	11 12 006 1102	 <p>Ø26 75.4</p> <p>M23x1</p> <p>1 = BK1      4 = BK3 2 = BK2      5 = BK 3 = GN/YE    6 = WH</p>
<p>6-pole, angled, male, M23, with outside thread, Power/Brake: 28A/9A, cable type: V</p> 	2 m	M23-M6A-L2PV.12	11 12 006 0102	 <p>76 60.4</p> <p>M23x1 Ø26</p> <p>1 = BK1      4 = BK3 2 = BK2      5 = BK 3 = GN/YE    6 = WH</p>
<p>8-pole, straight, male, M23, with outside thread, Power/Brake: 9A/7A, cable type: V</p> 	2 m	M23-M8S-L2PV.16	11 12 008 1100	 <p>Ø26 75.4</p> <p>M23x1</p> <p>1 = BK1      A = BK5 2 = GN/YE    B = BK6 3 = BK2      C = BK7 4 = BK3      D = BK8</p>
<p>8-pole, angled, male, M23, with outside thread, Power/Brake: 9A/7A, cable type: V</p> 	2 m	M23-M8A-L2PV.16	11 12 008 0100	 <p>76 60.4</p> <p>M23x1 Ø26</p> <p>1 = BK1      A = BK5 2 = GN/YE    B = BK6 3 = BK2      C = BK7 4 = BK3      D = BK8</p>


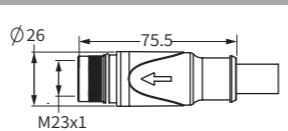

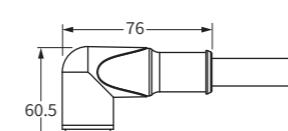

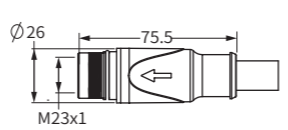

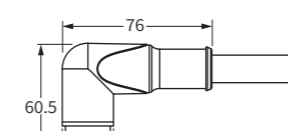
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<p>8-pole, straight, male, M23, with outside thread, Power/Brake: 28A/9A, cable type: V</p> 	2 m	M23-M8S-L2PV.14	11 12 008 1101	 <p>Ø26 75.4</p> <p>M23x1</p> <p>1 = BK1      A = BK5 2 = GN/YE    B = BK6 3 = BK2      C = BK7 4 = BK3      D = BK8</p>
<p>8-pole, angled, male, M23, with outside thread, Power/Brake: 28A/9A, cable type: V</p> 	2 m	M23-M8A-L2PV.14	11 12 008 0101	 <p>76 60.4</p> <p>M23x1 Ø26</p> <p>1 = BK1      A = BK5 2 = GN/YE    B = BK6 3 = BK2      C = BK7 4 = BK3      D = BK8</p>


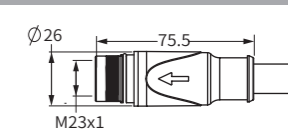

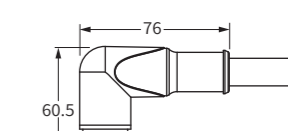

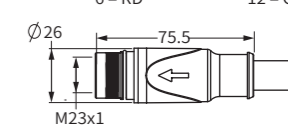

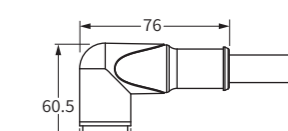
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>12.7-pole, straight, male, M23, with outside thread, cable type: V</b> 	2 m	MS23-M12.7S-L2V	11 12 012 1100	 M23x1 1 = WH      9 = BU 2 = GN      10 = connect with 9 3 = YE      11 = BN 4 = GY      12 = GN/YE
	5 m	MS23-M12.7S-L5V	11 12 012 1101	
	10 m	MS23-M12.7S-L10V	11 12 012 1102	
<b>12.7-pole, angled, male, M23, with outside thread, cable type: V</b> 	2 m	MS23-M12.7A-L2V	11 12 012 0100	 M23x1 1 = WH      9 = BU 2 = GN      10 = connect with 9 3 = YE      11 = BN 4 = GY      12 = GN/YE
	5 m	MS23-M12.7A-L5V	11 12 012 0101	
	10 m	MS23-M12.7A-L10V	11 12 012 0102	
<b>12.9-pole, straight, male, M23, with outside thread, cable type: V</b> 	2 m	MS23-M12.9S-L2V	11 12 012 1103	 M23x1 1 = WH      6 = RD 2 = GN      9 = BU 3 = YE      10 = connect with 9 4 = GY      11 = BN 5 = PK      12 = GN/YE
	5 m	MS23-M12.9S-L5V	11 12 012 1104	
	10 m	MS23-M12.9S-L10V	11 12 012 1105	
<b>12.9-pole, angled, male, M23, with outside thread, cable type: V</b> 	2 m	MS23-M12.9A-L2V	11 12 012 0103	 M23x1 1 = WH      6 = RD 2 = GN      9 = BU 3 = YE      10 = connect with 9 4 = GY      11 = BN 5 = PK      12 = GN/YE
	5 m	MS23-M12.9A-L5V	11 12 012 0104	
	10 m	MS23-M12.9A-L10V	11 12 012 0105	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>12.11-pole, straight, male, M23, with outside thread, cable type: V</b> 	2 m	MS23-M12.11S-L2V	11 12 012 1106	 M23x1 1 = WH      7 = BK 2 = GN      8 = VT 3 = YE      9 = BU 4 = GY      10 = connect with 9 5 = PK      11 = BN 6 = RD      12 = GN/YE
	5 m	MS23-M12.11S-L5V	11 12 012 1107	
	10 m	MS23-M12.11S-L10V	11 12 012 1108	
<b>12.11-pole, angled, male, M23, with outside thread, cable type: V</b> 	2 m	MS23-M12.11A-L2V	11 12 012 0106	 M23x1 1 = WH      7 = BK 2 = GN      8 = VT 3 = YE      9 = BU 4 = GY      10 = connect with 9 5 = PK      11 = BN 6 = RD      12 = GN/YE
	5 m	MS23-M12.11A-L5V	11 12 012 0107	
	10 m	MS23-M12.11A-L10V	11 12 012 0108	
<b>12-pole, straight, male, M23, with outside thread, cable type: V</b> 	2 m	MS23-M12S-L2V	11 12 012 1109	 M23x1 1 = BN      7 = GY 2 = BU      8 = PK 3 = WH      9 = RD 4 = GN/YE      10 = BN/WH 5 = OG      11 = BU/WH 6 = YE      12 = GN/WH
	5 m	MS23-M12S-L5V	11 12 012 1110	
	10 m	MS23-M12S-L10V	11 12 012 1111	
<b>12-pole, angled, male, M23, with outside thread, cable type: V</b> 	2 m	MS23-M12A-L2V	11 12 012 0109	 M23x1 1 = BN      7 = GY 2 = BU      8 = PK 3 = WH      9 = RD 4 = GN/YE      10 = BN/WH 5 = OG      11 = BU/WH 6 = YE      12 = GN/WH
	5 m	MS23-M12A-L5V	11 12 012 0110	
	10 m	MS23-M12A-L10V	11 12 012 0111	


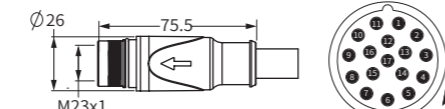

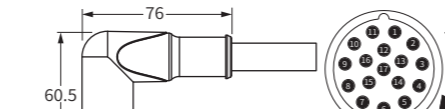

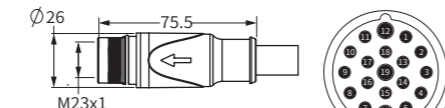

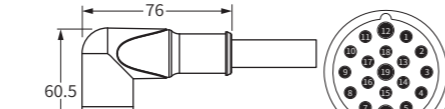
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics


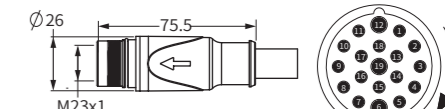

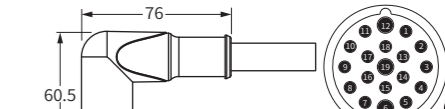

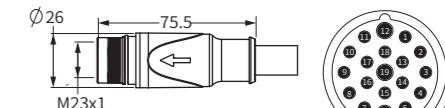

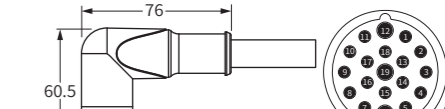
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Technical characteristics

Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant


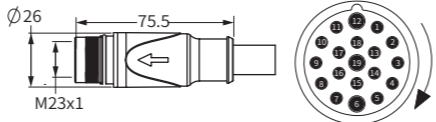

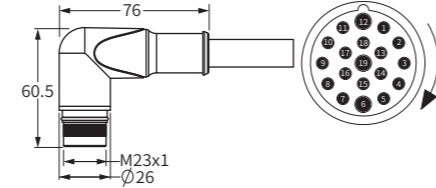
Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
17-pole, straight, male, M23, with outside thread, cable type: V 	2 m	MS23-M17S-L2V	11 12 017 1100	 <p>1 = BU      7 = GN      13 = YE/BN 2 = RD      8 = GY/PK      14 = BN/GN 3 = BN      9 = WH/GN      15 = WH 4 = GY      10 = WH/YE      16 = YE 5 = GN/YE      11 = WH/GY      17 = PK 6 = RD/BU      12 = BK</p>
	5 m	MS23-M17S-L5V	11 12 017 1101	
	10 m	MS23-M17S-L10V	11 12 017 1102	
17-pole, angled, male, M23, with outside thread, cable type: V 	2 m	MS23-M17A-L2V	11 12 017 0100	 <p>1 = BU      7 = GN      13 = YE/BN 2 = RD      8 = GY/PK      14 = BN/GN 3 = BN      9 = WH/GN      15 = WH 4 = GY      10 = WH/YE      16 = YE 5 = GN/YE      11 = WH/GY      17 = PK 6 = RD/BU      12 = BK</p>
	5 m	MS23-M17A-L5V	11 12 017 0101	
	10 m	MS23-M17A-L10V	11 12 017 0102	
19.11-pole, straight, male, M23, with outside thread, cable type: V 	2 m	MS23-M19.11S-L2V	11 12 019 1100	 <p>3 = GY      12 = GN/YE 4 = RD/BU      14 = BN/GN 5 = GN      15 = WH 6 = BU      16 = YE 7 = GY/PK      19 = BN 8 = WH/GN</p>
	5 m	MS23-M19.11S-L5V	11 12 019 1101	
	10 m	MS23-M19.11S-L10V	11 12 019 1102	
19.11-pole, angled, male, M23, with outside thread, cable type: V 	2 m	MS23-M19.11A-L2V	11 12 019 0100	 <p>3 = GY      12 = GN/YE 4 = RD/BU      14 = BN/GN 5 = GN      15 = WH 6 = BU      16 = YE 7 = GY/PK      19 = BN 8 = WH/GN</p>
	5 m	MS23-M19.11A-L5V	11 12 019 0101	
	10 m	MS23-M19.11A-L10V	11 12 019 0102	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
19.14-pole, straight, male, M23, with outside thread, cable type: V 	2 m	MS23-M19.14S-L2V	11 12 019 1103	 <p>1 = WH      7 = RD      14 = BN/GN 2 = GN      8 = BK      19 = BN 3 = YE      9 = VT 4 = GY      10 = GY/PK 5 = PK      11 = RD/BU 6 = BU      13 = WH/GN</p>
	5 m	MS23-M19.14S-L5V	11 12 019 1104	
	10 m	MS23-M19.14S-L10V	11 12 019 1105	
19.14-pole, angled, male, M23, with outside thread, cable type: V 	2 m	MS23-M19.14A-L2V	11 12 019 0103	 <p>1 = WH      7 = RD      14 = BN/GN 2 = GN      8 = BK      19 = BN 3 = YE      9 = VT 4 = GY      10 = GY/PK 5 = PK      11 = RD/BU 6 = BU      13 = WH/GN</p>
	5 m	MS23-M19.14A-L5V	11 12 019 0104	
	10 m	MS23-M19.14A-L10V	11 12 019 0105	
19.15-pole, straight, male, M23, with outside thread, cable type: V 	2 m	MS23-M19.15S-L2V	11 12 019 1106	 <p>2 = RD      8 = WH/GN      16 = YE 3 = GY      9 = WH/YE      17 = PK 4 = RD/BU      12 = GN/YE      19 = BN 5 = GN      13 = YE/BN 6 = BU      14 = BN/GN 7 = GY/PK      15 = WH</p>
	5 m	MS23-M19.15S-L5V	11 12 019 1107	
	10 m	MS23-M19.15S-L10V	11 12 019 1108	
19.15-pole, angled, male, M23, with outside thread, cable type: V 	2 m	MS23-M19.15A-L2V	11 12 019 0106	 <p>2 = RD      8 = WH/GN      16 = YE 3 = GY      9 = WH/YE      17 = PK 4 = RD/BU      12 = GN/YE      19 = BN 5 = GN      13 = YE/BN 6 = BU      14 = BN/GN 7 = GY/PK      15 = WH</p>
	5 m	MS23-M19.15A-L5V	11 12 019 0107	
	10 m	MS23-M19.15A-L10V	11 12 019 0108	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>19-pole, straight, male,</b> M23, with outside thread, cable type: V 	2 m	MS23-M19S-L2V	11 12 019 1109	 1 = VT      8 = WH/GN      15 = WH 2 = RD      9 = WH/YE      16 = YE 3 = GY      10 = WH/GY      17 = PK 4 = RD/BU      11 = BK      18 = GY/BN 5 = GN      12 = GN/YE      19 = BN 6 = BU      13 = YE/BN 7 = GY/PK      14 = BN/GN
	5 m	MS23-M19S-L5V	11 12 019 1110	
	10 m	MS23-M19S-L10V	11 12 019 1112	
<b>19-pole, angled, male,</b> M23, with outside thread, cable type: V 	2 m	MS23-M19A-L2V	11 12 019 0109	 1 = VT      8 = WH/GN      15 = WH 2 = RD      9 = WH/YE      16 = YE 3 = GY      10 = WH/GY      17 = PK 4 = RD/BU      11 = BK      18 = GY/BN 5 = GN      12 = GN/YE      19 = BN 6 = BU      13 = YE/BN 7 = GY/PK      14 = BN/GN
	5 m	MS23-M19A-L5V	11 12 019 0110	
	10 m	MS23-M19A-L10V	11 12 019 0112	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.



Sensor/Actuator Cordsets, 12.7 and 12.9-poles, with outside thread, female


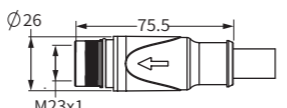
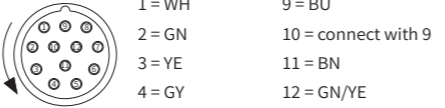

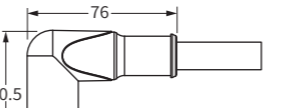
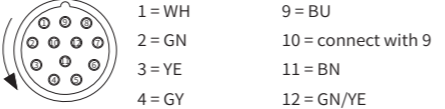

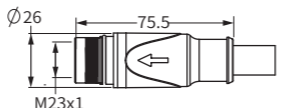
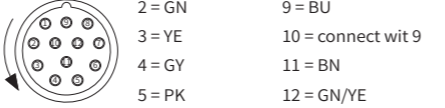

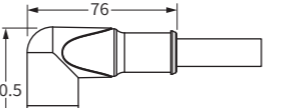
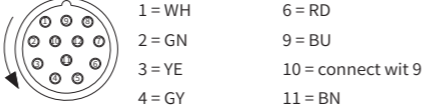
Sensor/Actuator Cordsets, 12.11 and 12-poles, with outside thread, female

Technical characteristics


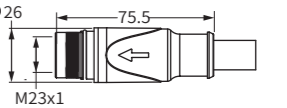


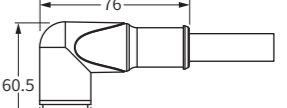


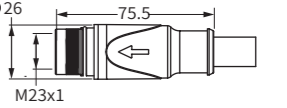
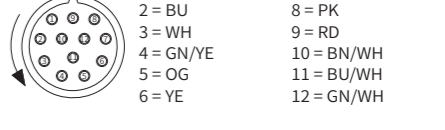

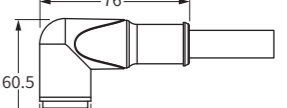
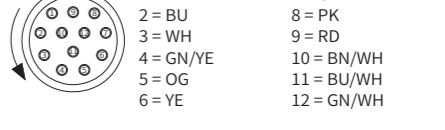
Connector	M23	Material(seal)	FPM/FKM
Rated current [A]	9	Cable description	PVC-black
Rated voltage [V]	150	Tightening torque	2 Nm
Insulation resistance [ $\Omega$ ]	$\geq 10^8$	Limiting temperature [°C]	-25 ... +85
Contact resistance [m $\Omega$ ]	$\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Technical characteristics

Connector	M23	Material(seal)	FPM/FKM
Rated current [A]	9	Cable description	PVC-black
Rated voltage [V]	150	Tightening torque	2 Nm
Insulation resistance [ $\Omega$ ]	$\geq 10^8$	Limiting temperature [°C]	-25 ... +85
Contact resistance [m $\Omega$ ]	$\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>12.7-pole, straight, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F12.7S-L2V	11 12 012 1200	 $\varnothing 26$ 75.5 M23x1  1 = WH 9 = BU 2 = GN 10 = connect with 9 3 = YE 11 = BN 4 = GY 12 = GN/YE
	5 m	MS23-F12.7S-L5V	11 12 012 1201	
	10 m	MS23-F12.7S-L10V	11 12 012 1202	
<b>12.7-pole, angled, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F12.7A-L2V	11 12 012 0200	 76 60.5 M23x1 $\varnothing 26$  1 = WH 9 = BU 2 = GN 10 = connect with 9 3 = YE 11 = BN 4 = GY 12 = GN/YE
	5 m	MS23-F12.7A-L5V	11 12 012 0201	
	10 m	MS23-F12.7A-L10V	11 12 012 0202	
<b>12.9-pole, straight, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F12.9S-L2V	11 12 012 1203	 $\varnothing 26$ 75.5 M23x1  1 = WH 6 = RD 2 = GN 9 = BU 3 = YE 10 = connect with 9 4 = GY 11 = BN 5 = PK 12 = GN/YE
	5 m	MS23-F12.9S-L5V	11 12 012 1204	
	10 m	MS23-F12.9S-L10V	11 12 012 1205	
<b>12.9-pole, angled, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F12.9A-L2V	11 12 012 0203	 76 60.5 M23x1 $\varnothing 26$  1 = WH 6 = RD 2 = GN 9 = BU 3 = YE 10 = connect with 9 4 = GY 11 = BN 5 = PK 12 = GN/YE
	5 m	MS23-F12.9A-L5V	11 12 012 0204	
	10 m	MS23-F12.9A-L10V	11 12 012 0205	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>12.11-pole, straight, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F12.11S-L2V	11 12 012 1206	 $\varnothing 26$ 75.5 M23x1  1 = WH 7 = BK 2 = GN 8 = VT 3 = YE 9 = BU 4 = GY 10 = connect with 9 5 = PK 11 = BN 6 = RD 12 = GN/YE
	5 m	MS23-F12.11S-L5V	11 12 012 1207	
	10 m	MS23-F12.11S-L10V	11 12 012 1208	
<b>12.11-pole, angled, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F12.11A-L2V	11 12 012 0206	 76 60.5 M23x1 $\varnothing 26$  1 = WH 7 = BK 2 = GN 8 = VT 3 = YE 9 = BU 4 = GY 10 = connect with 9 5 = PK 11 = BN 6 = RD 12 = GN/YE
	5 m	MS23-F12.11A-L5V	11 12 012 0207	
	10 m	MS23-F12.11A-L10V	11 12 012 0208	
<b>12-pole, straight, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F12S-L2V	11 12 012 1209	 $\varnothing 26$ 75.5 M23x1  1 = BN 7 = GY 2 = BU 8 = PK 3 = WH 9 = RD 4 = GN/YE 10 = BN/WH 5 = OG 11 = BU/WH 6 = YE 12 = GN/WH
	5 m	MS23-F12S-L5V	11 12 012 1210	
	10 m	MS23-F12S-L10V	11 12 012 1211	
<b>12-pole, angled, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F12A-L2V	11 12 012 0209	 76 60.5 M23x1 $\varnothing 26$  1 = BN 7 = GY 2 = BU 8 = PK 3 = WH 9 = RD 4 = GN/YE 10 = BN/WH 5 = OG 11 = BU/WH 6 = YE 12 = GN/WH
	5 m	MS23-F12A-L5V	11 12 012 0210	
	10 m	MS23-F12A-L10V	11 12 012 0211	


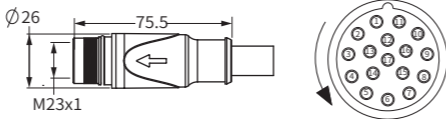

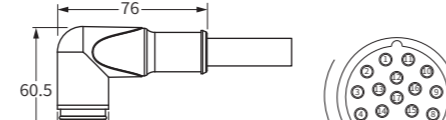

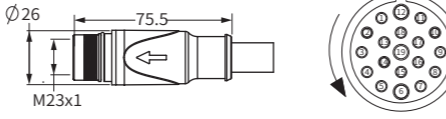

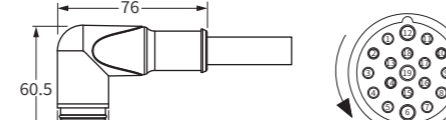
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Sensor/Actuator Cordsets, 17 and 19.11-poles, with outside thread, female


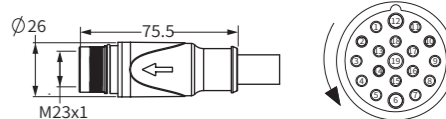

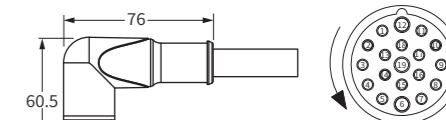

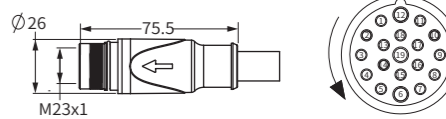

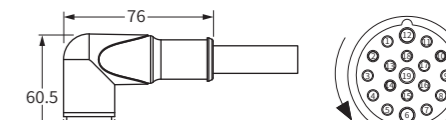
Sensor/Actuator Cordsets, 19.14 and 19.15-poles, with outside thread, female

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>17-pole, straight, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F17S-L2V	11 12 017 1200	 1 = BU      7 = GN      13 = YE/BN 2 = RD      8 = GY/PK      14 = BN/GN 3 = BN      9 = WH/GN      15 = WH 4 = GY      10 = WH/YE      16 = YE 5 = GN/YE      11 = WH/GY      17 = PK 6 = RD/BU      12 = BK
	5 m	MS23-F17S-L5V	11 12 017 1201	
	10 m	MS23-F17S-L10V	11 12 017 1202	
<b>17-pole, angled, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F17A-L2V	11 12 017 0200	 1 = BU      7 = GN      13 = YE/BN 2 = RD      8 = GY/PK      14 = BN/GN 3 = BN      9 = WH/GN      15 = WH 4 = GY      10 = WH/YE      16 = YE 5 = GN/YE      11 = WH/GY      17 = PK 6 = RD/BU      12 = BK
	5 m	MS23-F17A-L5V	11 12 017 0201	
	10 m	MS23-F17A-L10V	11 12 017 0202	
<b>19.11-pole, straight, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F19.11S-L2V	11 12 019 1200	 3 = GY      12 = GN/YE 4 = RD/BU      14 = BN/GN 5 = GN      15 = WH 6 = BU      16 = YE 7 = GY/PK      19 = BN 8 = WH/GN
	5 m	MS23-F19.11S-L5V	11 12 019 1201	
	10 m	MS23-F19.11S-L10V	11 12 019 1202	
<b>19.11-pole, angled, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F19.11A-L2V	11 12 019 0200	 3 = GY      12 = GN/YE 4 = RD/BU      14 = BN/GN 5 = GN      15 = WH 6 = BU      16 = YE 7 = GY/PK      19 = BN 8 = WH/GN
	5 m	MS23-F19.11A-L5V	11 12 019 0201	
	10 m	MS23-F19.11A-L10V	11 12 019 0202	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>19.14-pole, straight, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F19.14S-L2V	11 12 019 1203	 1 = WH      7 = RD      14 = BN/GN 2 = GN      8 = BK      19 = BN 3 = YE      9 = VT 4 = GY      10 = GY/PK 5 = PK      11 = RD/BU 6 = BU      13 = WH/GN
	5 m	MS23-F19.14S-L5V	11 12 019 1204	
	10 m	MS23-F19.14S-L10V	11 12 019 1205	
<b>19.14-pole, angled, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F19.14A-L2V	11 12 019 0203	 1 = WH      7 = RD      14 = BN/GN 2 = GN      8 = BK      19 = BN 3 = YE      9 = VT 4 = GY      10 = GY/PK 5 = PK      11 = RD/BU 6 = BU      13 = WH/GN
	5 m	MS23-F19.14A-L5V	11 12 019 0204	
	10 m	MS23-F19.14A-L10V	11 12 019 0205	
<b>19.15-pole, straight, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F19.15S-L2V	11 12 019 1206	 2 = RD      8 = WH/GN      16 = YE 3 = GY      9 = WH/YE      17 = PK 4 = RD/BU      12 = GN/YE      19 = BN 5 = GN      13 = YE/BN 6 = BU      14 = BN/GN 7 = GY/PK      15 = WH
	5 m	MS23-F19.15S-L5V	11 12 019 1207	
	10 m	MS23-F19.15S-L10V	11 12 019 1208	
<b>19.15-pole, angled, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F19.15A-L2V	11 12 019 0206	 2 = RD      8 = WH/GN      16 = YE 3 = GY      9 = WH/YE      17 = PK 4 = RD/BU      12 = GN/YE      19 = BN 5 = GN      13 = YE/BN 6 = BU      14 = BN/GN 7 = GY/PK      15 = WH
	5 m	MS23-F19.15A-L5V	11 12 019 0207	
	10 m	MS23-F19.15A-L10V	11 12 019 0208	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Sensor/Actuator Cordsets, 19-pole, with outside thread, female


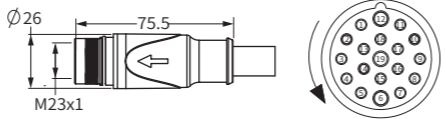

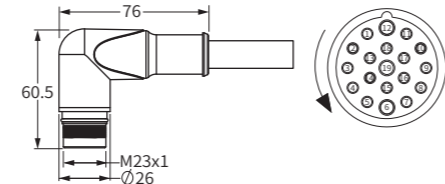
Sensor/Actuator Cordsets, 12.7 and 12.9-poles, with coupling nut, male

Technical characteristics


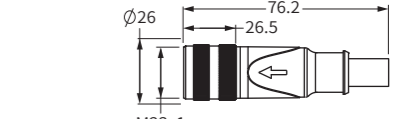

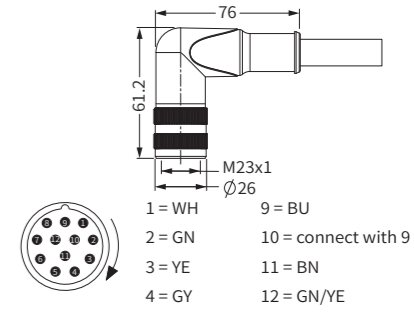

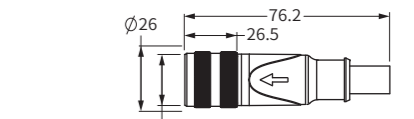

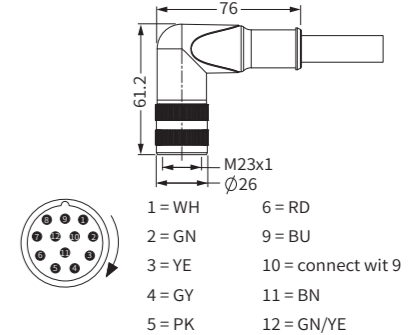
Connector	M23	Material(seal)	FPM/FKM
Rated current [A]	9	Cable description	PVC-black
Rated voltage [V]	150	Tightening torque	2 Nm
Insulation resistance [ $\Omega$ ]	$\geq 10^8$	Limiting temperature [°C]	-25 ... +85
Contact resistance [m $\Omega$ ]	$\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Technical characteristics

Connector	M23	Material(seal)	FPM/FKM
Rated current [A]	9	Cable description	PVC-black
Rated voltage [V]	150	Tightening torque	2 Nm
Insulation resistance [ $\Omega$ ]	$\geq 10^8$	Limiting temperature [°C]	-25 ... +85
Contact resistance [m $\Omega$ ]	$\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>19-pole, straight, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F19S-L2V	11 12 019 1209	 <p>M23x1</p> <p>1 = VT      8 = WH/GN      15 = WH                  2 = RD      9 = WH/YE      16 = YE                  3 = GY      10 = WH/GY      17 = PK                  4 = RD/BU      11 = BK      18 = GY/BN                  5 = GN      12 = GN/YE      19 = BN                  6 = BU      13 = YE/BN                  7 = GY/PK      14 = BN/GN</p>
	5 m	MS23-F19S-L5V	11 12 019 1210	
	10 m	MS23-F19S-L10V	11 12 019 1212	
<b>19-pole, angled, female, M23, with outside thread, cable type: V</b> 	2 m	MS23-F19A-L2V	11 12 019 0209	 <p>M23x1</p> <p>1 = VT      8 = WH/GN      15 = WH                  2 = RD      9 = WH/YE      16 = YE                  3 = GY      10 = WH/GY      17 = PK                  4 = RD/BU      11 = BK      18 = GY/BN                  5 = GN      12 = GN/YE      19 = BN                  6 = BU      13 = YE/BN                  7 = GY/PK      14 = BN/GN</p>
	5 m	MS23-F19A-L5V	11 12 019 0210	
	10 m	MS23-F19A-L10V	11 12 019 0212	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>12.7-pole, straight, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M12.7S-L2V	11 12 012 1112	 <p>M23x1</p> <p>1 = WH      9 = BU                  2 = GN      10 = connect with 9                  3 = YE      11 = BN                  4 = GY      12 = GN/YE</p>
	5 m	MN23-M12.7S-L5V	11 12 012 1113	
	10 m	MN23-M12.7S-L10V	11 12 012 1114	
<b>12.7-pole, angled, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M12.7A-L2V	11 12 012 0112	 <p>M23x1</p> <p>1 = WH      9 = BU                  2 = GN      10 = connect with 9                  3 = YE      11 = BN                  4 = GY      12 = GN/YE</p>
	5 m	MN23-M12.7A-L5V	11 12 012 0113	
	10 m	MN23-M12.7A-L10V	11 12 012 0114	
<b>12.9-pole, straight, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M12.9S-L2V	11 12 012 1115	 <p>M23x1</p> <p>1 = WH      6 = RD                  2 = GN      9 = BU                  3 = YE      10 = connect wit 9                  4 = GY      11 = BN                  5 = PK      12 = GN/YE</p>
	5 m	MN23-M12.9S-L5V	11 12 012 1116	
	10 m	MN23-M12.9S-L10V	11 12 012 1117	
<b>12.9-pole, angled, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M12.9A-L2V	11 12 012 0115	 <p>M23x1</p> <p>1 = WH      6 = RD                  2 = GN      9 = BU                  3 = YE      10 = connect wit 9                  4 = GY      11 = BN                  5 = PK      12 = GN/YE</p>
	5 m	MN23-M12.9A-L5V	11 12 012 0116	
	10 m	MN23-M12.9A-L10V	11 12 012 0117	

1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Sensor/Actuator Cordsets, 12.11 and 12-poles, with coupling nut, male


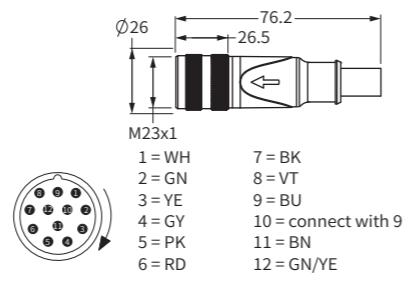

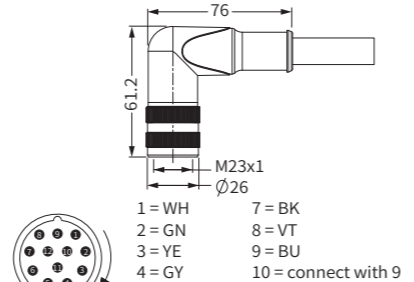

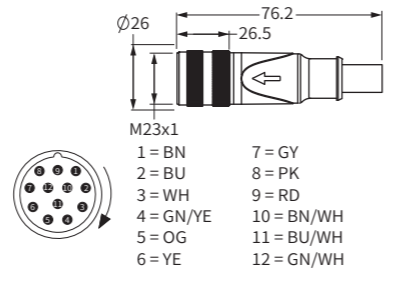

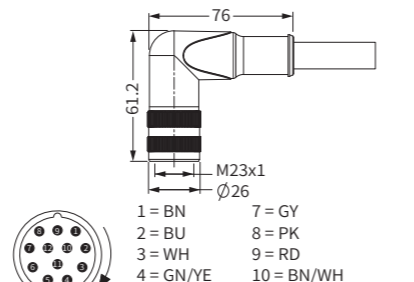
Sensor/Actuator Cordsets, 17 and 19.11-poles, with coupling nut, male

Technical characteristics


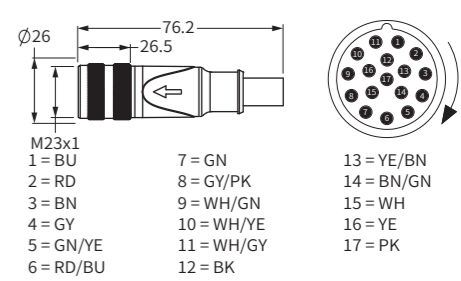

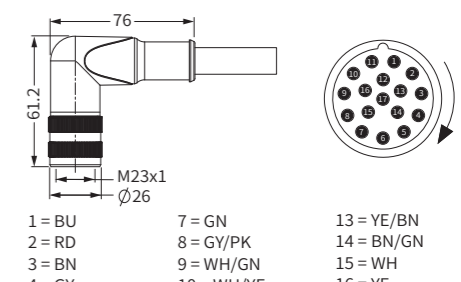

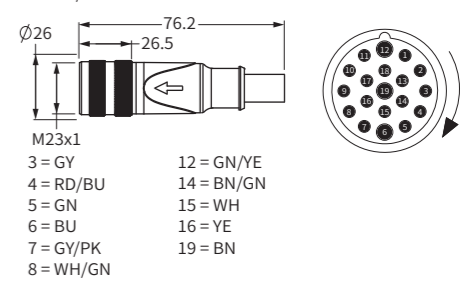

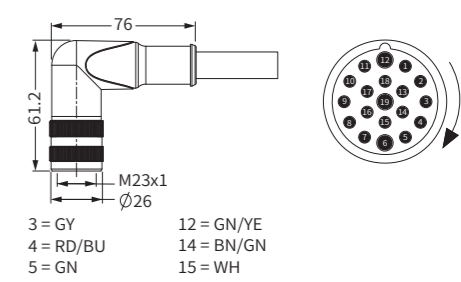
Connector	M23	Material(seal)	FPM/FKM
Rated current [A]	9	Cable description	PVC-black
Rated voltage [V]	150	Tightening torque	2 Nm
Insulation resistance [ $\Omega$ ]	$\geq 10^8$	Limiting temperature [°C]	-25 ... +85
Contact resistance [m $\Omega$ ]	$\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Technical characteristics

Connector	M23	Material(seal)	FPM/FKM
Rated current [A]	9	Cable description	PVC-black
Rated voltage [V]	150	Tightening torque	2 Nm
Insulation resistance [ $\Omega$ ]	$\geq 10^8$	Limiting temperature [°C]	-25 ... +85
Contact resistance [m $\Omega$ ]	$\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>12.11-pole, straight, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M12.11S-L2V	11 12 012 1118	 M23x1 1 = WH 7 = BK 2 = GN 8 = VT 3 = YE 9 = BU 4 = GY 10 = connect with 9 5 = PK 11 = BN 6 = RD 12 = GN/YE
	5 m	MN23-M12.11S-L5V	11 12 012 1119	
	10 m	MN23-M12.11S-L10V	11 12 012 1120	
<b>12.11-pole, angled, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M12.11A-L2V	11 12 012 0118	 M23x1 1 = WH 7 = BK 2 = GN 8 = VT 3 = YE 9 = BU 4 = GY 10 = connect with 9 5 = PK 11 = BN 6 = RD 12 = GN/YE
	5 m	MN23-M12.11A-L5V	11 12 012 0119	
	10 m	MN23-M12.11A-L10V	11 12 012 0120	
<b>12-pole, straight, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M12S-L2V	11 12 012 1121	 M23x1 1 = BN 7 = GY 2 = BU 8 = PK 3 = WH 9 = RD 4 = GN/YE 10 = BN/WH 5 = OG 11 = BU/WH 6 = YE 12 = GN/WH
	5 m	MN23-M12S-L5V	11 12 012 1122	
	10 m	MN23-M12S-L10V	11 12 012 1123	
<b>12-pole, angled, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M12A-L2V	11 12 012 0121	 M23x1 1 = BN 7 = GY 2 = BU 8 = PK 3 = WH 9 = RD 4 = GN/YE 10 = BN/WH 5 = OG 11 = BU/WH 6 = YE 12 = GN/WH
	5 m	MN23-M12A-L5V	11 12 012 0122	
	10 m	MN23-M12A-L10V	11 12 012 0123	

1): Cable type U= PUR and UT= PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
<b>17-pole, straight, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M17S-L2V	11 12 017 1103	 M23x1 1 = BU 7 = GN 13 = YE/BN 2 = RD 8 = GY/PK 14 = BN/GN 3 = BN 9 = WH/GN 15 = WH 4 = GY 10 = WH/YE 16 = YE 5 = GN/YE 11 = WH/GY 17 = PK 6 = RD/BU 12 = BK
	5 m	MN23-M17S-L5V	11 12 017 1104	
	10 m	MN23-M17S-L10V	11 12 017 1105	
<b>17-pole, angled, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M17A-L2V	11 12 017 0103	 M23x1 1 = BU 7 = GN 13 = YE/BN 2 = RD 8 = GY/PK 14 = BN/GN 3 = BN 9 = WH/GN 15 = WH 4 = GY 10 = WH/YE 16 = YE 5 = GN/YE 11 = WH/GY 17 = PK 6 = RD/BU 12 = BK
	5 m	MN23-M17A-L5V	11 12 017 0104	
	10 m	MN23-M17A-L10V	11 12 017 0105	
<b>19.11-pole, straight, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M19.11S-L2V	11 12 019 1113	 M23x1 3 = GY 12 = GN/YE 4 = RD/BU 14 = BN/GN 5 = GN 15 = WH 6 = BU 16 = YE 7 = GY/PK 19 = BN 8 = WH/GN
	5 m	MN23-M19.11S-L5V	11 12 019 1114	
	10 m	MN23-M19.11S-L10V	11 12 019 1115	
<b>19.11-pole, angled, male, M23, with coupling nut, cable type: V</b> 	2 m	MN23-M19.11A-L2V	11 12 019 0113	 M23x1 3 = GY 12 = GN/YE 4 = RD/BU 14 = BN/GN 5 = GN 15 = WH 6 = BU 16 = YE 7 = GY/PK 19 = BN 8 = WH/GN
	5 m	MN23-M19.11A-L5V	11 12 019 0114	
	10 m	MN23-M19.11A-L10V	11 12 019 0115	

1): Cable type U= PUR and UT= PUR-carrier chain are optional, variable cable length is possible.

## Sensor/Actuator Cordsets, 19.14 and 19.15-poles, with coupling nut, male


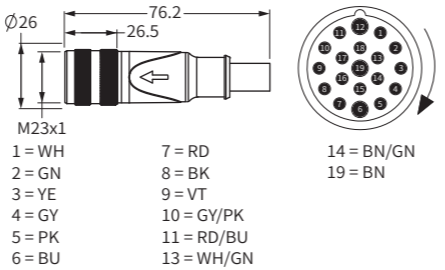

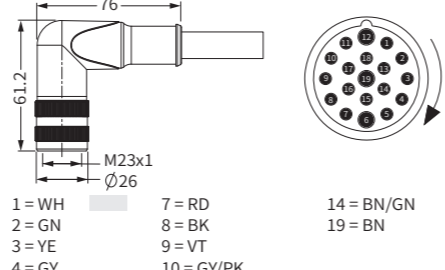

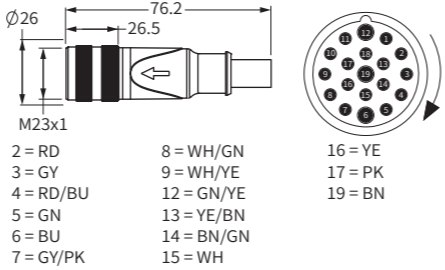

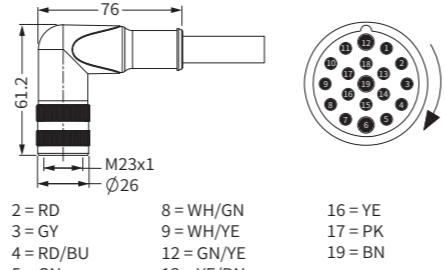
## Sensor/Actuator Cordsets, 19-pole, with coupling nut, male

## Technical characteristics


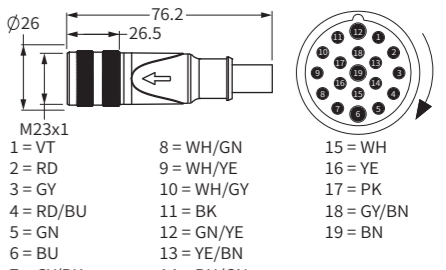

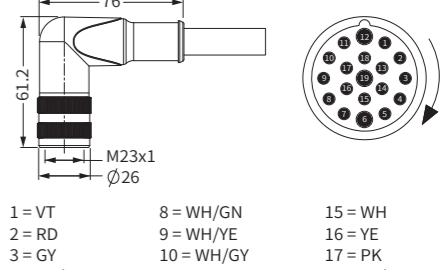
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Cable description	PVC-black
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] $\geq 10^8$	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] $\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	TPU-black	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Zinc die-cast/Nickel plated	RoHS	compliant

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Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
19.14-pole, straight, male, M23, with coupling nut, cable type: V 	2 m	MN23-M19.14S-L2V	11 12 019 1116	 <p>M23x1 1 = WH 7 = RD 14 = BN/GN 2 = GN 8 = BK 19 = BN 3 = YE 9 = VT 4 = GY 10 = GY/PK 5 = PK 11 = RD/BU 6 = BU 13 = WH/GN</p>
	5 m	MN23-M19.14S-L5V	11 12 019 1117	
	10 m	MN23-M19.14S-L10V	11 12 019 1118	
19.14-pole, angled, male, M23, with coupling nut, cable type: V 	2 m	MN23-M19.14A-L2V	11 12 019 0116	 <p>M23x1 1 = WH 7 = RD 14 = BN/GN 2 = GN 8 = BK 19 = BN 3 = YE 9 = VT 4 = GY 10 = GY/PK 5 = PK 11 = RD/BU 6 = BU 13 = WH/GN</p>
	5 m	MN23-M19.14A-L5V	11 12 019 0117	
	10 m	MN23-M19.14A-L10V	11 12 019 0118	
19.15-pole, straight, male, M23, with coupling nut, cable type: V 	2 m	MN23-M19.15S-L2V	11 12 019 1119	 <p>M23x1 2 = RD 8 = WH/GN 16 = YE 3 = GY 9 = WH/YE 17 = PK 4 = RD/BU 12 = GN/YE 19 = BN 5 = GN 13 = YE/BN 6 = BU 14 = BN/GN 7 = GY/PK 15 = WH</p>
	5 m	MN23-M19.15S-L5V	11 12 019 1120	
	10 m	MN23-M19.15S-L10V	11 12 019 1121	
19.15-pole, angled, male, M23, with coupling nut, cable type: V 	2 m	MN23-M19.15A-L2V	11 12 019 0119	 <p>M23x1 2 = RD 8 = WH/GN 16 = YE 3 = GY 9 = WH/YE 17 = PK 4 = RD/BU 12 = GN/YE 19 = BN 5 = GN 13 = YE/BN 6 = BU 14 = BN/GN 7 = GY/PK 15 = WH</p>
	5 m	MN23-M19.15A-L5V	11 12 019 0120	
	10 m	MN23-M19.15A-L10V	11 12 019 0121	


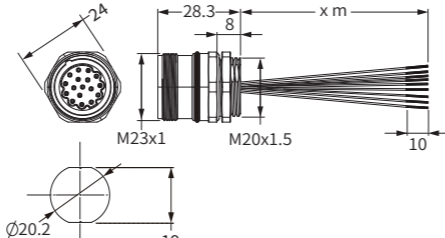
1): Cable type U= PUR and UT=PUR-carrier chain are optional, variable cable length is possible.

Identification	Cable length <sup>1)</sup>	Type	Part number	Drawing (dimensions in mm)
19-pole, straight, male, M23, with coupling nut, cable type: V 	2 m	MN23-M19S-L2V	11 12 019 1122	 <p>M23x1 1 = VT 8 = WH/GN 15 = WH 2 = RD 9 = WH/YE 16 = YE 3 = GY 10 = WH/GY 17 = PK 4 = RD/BU 11 = BK 18 = GY/BN 5 = GN 12 = GN/YE 19 = BN 6 = BU 13 = YE/BN 7 = GY/PK 14 = BN/GN</p>
	5 m	MN23-M19S-L5V	11 12 019 1123	
	10 m	MN23-M19S-L10V	11 12 019 1124	
19-pole, angled, male, M23, with coupling nut, cable type: V 	2 m	MN23-M19A-L2V	11 12 019 0122	 <p>M23x1 1 = VT 8 = WH/GN 15 = WH 2 = RD 9 = WH/YE 16 = YE 3 = GY 10 = WH/GY 17 = PK 4 = RD/BU 11 = BK 18 = GY/BN 5 = GN 12 = GN/YE 19 = BN 6 = BU 13 = YE/BN 7 = GY/PK 14 = BN/GN</p>
	5 m	MN23-M19A-L5V	11 12 019 0123	
	10 m	MN23-M19A-L10V	11 12 019 0124	


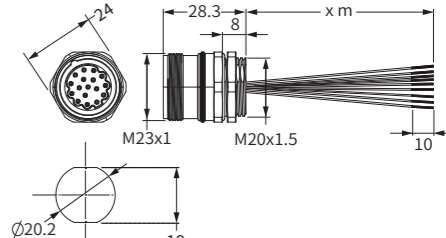
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Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Tightening torque	2 Nm
Rated voltage	[V] 150	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	Brass, nickel plated	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	PBT-white	RoHS	compliant
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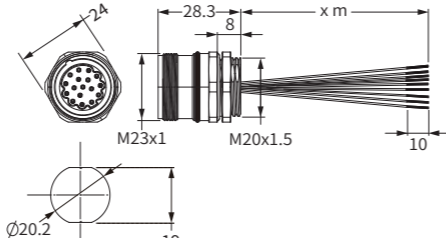
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																																																												
<b>Receptacles, with wire ends<sup>1)</sup>, front mounting, female, with outside thread, individual wires</b> 	12.7-Pole	MS23-F12.7F-L0.5M20	11 12 012 3200	 <p><b>12.7-Pole</b></p> <table border="0"> <tr><td>1 = WH</td><td>9 = BU</td></tr> <tr><td>2 = GN</td><td>10 = connect with 9</td></tr> <tr><td>3 = YE</td><td>11 = BN</td></tr> <tr><td>4 = GY</td><td>12 = GN/YE</td></tr> </table> <p><b>12.9-Pole</b></p> <table border="0"> <tr><td>1 = WH</td><td>6 = RD</td></tr> <tr><td>2 = GN</td><td>9 = BU</td></tr> <tr><td>3 = YE</td><td>10 = connect with 9</td></tr> <tr><td>4 = GY</td><td>11 = BN</td></tr> <tr><td>5 = PK</td><td>12 = GN/YE</td></tr> </table> <p><b>12.11-Pole</b></p> <table border="0"> <tr><td>1 = WH</td><td>7 = BK</td></tr> <tr><td>2 = GN</td><td>8 = VT</td></tr> <tr><td>3 = YE</td><td>9 = BU</td></tr> <tr><td>4 = GY</td><td>10 = connect with 9</td></tr> <tr><td>5 = PK</td><td>11 = BN</td></tr> <tr><td>6 = RD</td><td>12 = GN/YE</td></tr> </table> <p><b>12-Pole</b></p> <table border="0"> <tr><td>1 = BN</td><td>7 = GY</td></tr> <tr><td>2 = BU</td><td>8 = PK</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN/YE</td><td>10 = BN/WH</td></tr> <tr><td>5 = OG</td><td>11 = BU/WH</td></tr> <tr><td>6 = YE</td><td>12 = GN/WH</td></tr> </table> <p><b>17-Pole</b></p> <table border="0"> <tr><td>1 = BU</td><td>7 = GN</td><td>13 = YE/BN</td></tr> <tr><td>2 = RD</td><td>8 = GY/PK</td><td>14 = BN/GN</td></tr> <tr><td>3 = BN</td><td>9 = WH/GN</td><td>15 = WH</td></tr> <tr><td>4 = GY</td><td>10 = WH/YE</td><td>16 = YE</td></tr> <tr><td>5 = GN/YE</td><td>11 = WH/GY</td><td>17 = PK</td></tr> <tr><td>6 = RD/BU</td><td>12 = BK</td><td></td></tr> </table>	1 = WH	9 = BU	2 = GN	10 = connect with 9	3 = YE	11 = BN	4 = GY	12 = GN/YE	1 = WH	6 = RD	2 = GN	9 = BU	3 = YE	10 = connect with 9	4 = GY	11 = BN	5 = PK	12 = GN/YE	1 = WH	7 = BK	2 = GN	8 = VT	3 = YE	9 = BU	4 = GY	10 = connect with 9	5 = PK	11 = BN	6 = RD	12 = GN/YE	1 = BN	7 = GY	2 = BU	8 = PK	3 = WH	9 = RD	4 = GN/YE	10 = BN/WH	5 = OG	11 = BU/WH	6 = YE	12 = GN/WH	1 = BU	7 = GN	13 = YE/BN	2 = RD	8 = GY/PK	14 = BN/GN	3 = BN	9 = WH/GN	15 = WH	4 = GY	10 = WH/YE	16 = YE	5 = GN/YE	11 = WH/GY	17 = PK	6 = RD/BU	12 = BK	
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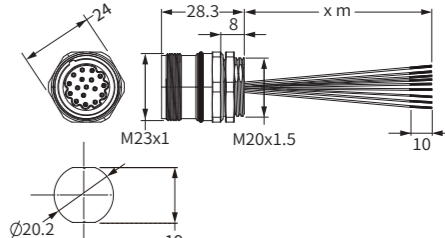
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12.9-Pole	MS23-M12.9F-L0.5M20	11 12 012 3101																																																														
12.11-Pole	MS23-M12.11F-L0.5M20	11 12 012 3102																																																														
12-Pole	MS23-M12F-L0.5M20	11 12 012 3103																																																														
17-Pole	MS23-M17F-L0.5M20	11 12 017 3100																																																														

1): Standard cable length is 0.5m, variable cable length is optional.

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Tightening torque	2 Nm
Rated voltage	[V] 150	Limiting temperature	[°C] -25 ... +85
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	Brass, nickel plated	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	PBT-white	RoHS	compliant
Material(knurl)	Brass, nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																																																																					
<b>Receptacles, with wire ends<sup>1)</sup>, front mounting, male, with outside thread, individual wires</b>  	19.11-Pole	MS23-M19.11F-L0.5M20	11 12 019 3100	 <p><b>19.11-Pole</b></p> <table border="0"> <tr><td>3 = GY</td><td>12 = GN/YE</td></tr> <tr><td>4 = RD/BU</td><td>14 = BN/GN</td></tr> <tr><td>5 = GN</td><td>15 = WH</td></tr> <tr><td>6 = BU</td><td>16 = YE</td></tr> <tr><td>7 = GY/PK</td><td>19 = BN</td></tr> <tr><td>8 = WH/GN</td><td></td></tr> </table> <p><b>19.14-Pole</b></p> <table border="0"> <tr><td>1 = WH</td><td>7 = RD</td><td>14 = BN/GN</td></tr> <tr><td>2 = GN</td><td>8 = BK</td><td>19 = BN</td></tr> <tr><td>3 = YE</td><td>9 = VT</td><td></td></tr> <tr><td>4 = GY</td><td>10 = GY/PK</td><td></td></tr> <tr><td>5 = PK</td><td>11 = RD/BU</td><td></td></tr> <tr><td>6 = BU</td><td>13 = WH/GN</td><td></td></tr> </table> <p><b>19.15-Pole</b></p> <table border="0"> <tr><td>2 = RD</td><td>8 = WH/GN</td><td>16 = YE</td></tr> <tr><td>3 = GY</td><td>9 = WH/YE</td><td>17 = PK</td></tr> <tr><td>4 = RD/BU</td><td>12 = GN/YE</td><td>19 = BN</td></tr> <tr><td>5 = GN</td><td>13 = YE/BN</td><td></td></tr> <tr><td>6 = BU</td><td>14 = BN/GN</td><td></td></tr> <tr><td>7 = GY/PK</td><td>15 = WH</td><td></td></tr> </table> <p><b>19-Pole</b></p> <table border="0"> <tr><td>1 = VT</td><td>8 = WH/GN</td><td>15 = WH</td></tr> <tr><td>2 = RD</td><td>9 = WH/YE</td><td>16 = YE</td></tr> <tr><td>3 = GY</td><td>10 = WH/GY</td><td>17 = PK</td></tr> <tr><td>4 = RD/BU</td><td>11 = BK</td><td>18 = GY/BN</td></tr> <tr><td>5 = GN</td><td>12 = GN/YE</td><td>19 = BN</td></tr> <tr><td>6 = BU</td><td>13 = YE/BN</td><td></td></tr> <tr><td>7 = GY/PK</td><td>14 = BN/GN</td><td></td></tr> </table>	3 = GY	12 = GN/YE	4 = RD/BU	14 = BN/GN	5 = GN	15 = WH	6 = BU	16 = YE	7 = GY/PK	19 = BN	8 = WH/GN		1 = WH	7 = RD	14 = BN/GN	2 = GN	8 = BK	19 = BN	3 = YE	9 = VT		4 = GY	10 = GY/PK		5 = PK	11 = RD/BU		6 = BU	13 = WH/GN		2 = RD	8 = WH/GN	16 = YE	3 = GY	9 = WH/YE	17 = PK	4 = RD/BU	12 = GN/YE	19 = BN	5 = GN	13 = YE/BN		6 = BU	14 = BN/GN		7 = GY/PK	15 = WH		1 = VT	8 = WH/GN	15 = WH	2 = RD	9 = WH/YE	16 = YE	3 = GY	10 = WH/GY	17 = PK	4 = RD/BU	11 = BK	18 = GY/BN	5 = GN	12 = GN/YE	19 = BN	6 = BU	13 = YE/BN		7 = GY/PK	14 = BN/GN	
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1 = WH	7 = RD	14 = BN/GN																																																																							
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19.14-Pole	MS23-M19.14F-L0.5M20	11 12 019 3101																																																																							
19.15-Pole	MS23-M19.15F-L0.5M20	11 12 019 3102																																																																							
19-Pole	MS23-M19F-L0.5M20	11 12 019 3103																																																																							

1): Standard cable length is 0.5m, variable cable length is optional.

Sensor-Actuator Receptacles, front mounting, with outside thread, 12-17 poles, RS19.8, female


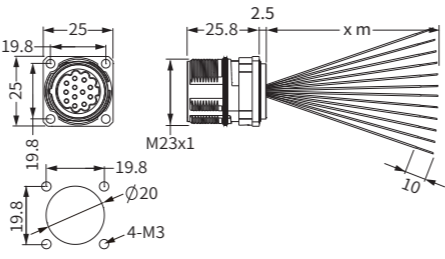
Sensor-Actuator Receptacles, front mounting, with outside thread, 19 poles, RS19.8, female

Technical characteristics


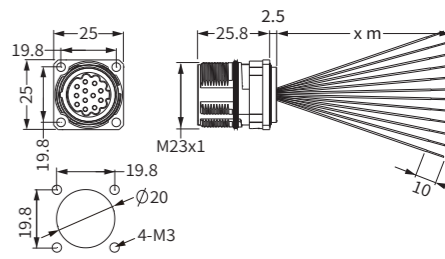
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Tightening torque	2 Nm
Rated voltage	[V] 150	Limiting temperature	[-25 ... +85 °C]
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	Brass, nickel plated	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	PBT-white	RoHS	compliant
Material(knurl)	Brass, nickel plated		

Technical characteristics

Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Tightening torque	2 Nm
Rated voltage	[V] 150	Limiting temperature	[-25 ... +85 °C]
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	Brass, nickel plated	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	PBT-white	RoHS	compliant
Material(knurl)	Brass, nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
<b>Receptacles, with wire ends<sup>1)</sup>, front mounting, female, with outside thread, RS19.8, individual wires</b> 	12.7-Pole	MS23-F12.7F-L0.5RS19.8	11 12 012 3204	 <b>12.7-Pole</b> 1 = WH            9 = BU 2 = GN            10 = connect with 9 3 = YE            11 = BN 4 = GY            12 = GN/YE <b>12.9-Pole</b> 1 = WH            6 = RD 2 = GN            9 = BU 3 = YE            10 = connect with 9 4 = GY            11 = BN 5 = PK            12 = GN/YE <b>12.11-Pole</b> 1 = WH            7 = BK 2 = GN            8 = VT 3 = YE            9 = BU 4 = GY            10 = connect with 9 5 = PK            11 = BN 6 = RD            12 = GN/YE <b>12-Pole</b> 1 = BN            7 = GY 2 = BU            8 = PK 3 = WH            9 = RD 4 = GN/YE        10 = BN/WH 5 = OG            11 = BU/WH 6 = YE            12 = GN/WH <b>17-Pole</b> 1 = BU            7 = GN            13 = YE/BN 2 = RD            8 = GY/PK        14 = BN/GN 3 = BN            9 = WH/GN        15 = WH 4 = GY            10 = WH/YE      16 = YE 5 = GN/YE       11 = WH/GY      17 = PK 6 = RD/BU       12 = BK
	12.9-Pole	MS23-F12.9F-L0.5RS19.8	11 12 012 3205	
	12.11-Pole	MS23-F12.11F-L0.5RS19.8	11 12 012 3206	
	12-Pole	MS23-F12F-L0.5RS19.8	11 12 012 3207	
	17-Pole	MS23-F17F-L0.5RS19.8	11 12 017 3201	

1): Standard cable length is 0.5m, variable cable length is optional.

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)
<b>Receptacles, with wire ends<sup>1)</sup>, front mounting, female, with outside thread, RS19.8, individual wires</b> 	19.11-Pole	MS23-F19.11F-L0.5RS19.8	11 12 019 3204	 <b>19.11-Pole</b> 3 = GY            12 = GN/YE 4 = RD/BU       14 = BN/GN 5 = GN            15 = WH 6 = BU            16 = YE 7 = GY/PK       19 = BN 8 = WH/GN <b>19.14-Pole</b> 1 = WH            7 = RD            14 = BN/GN 2 = GN            8 = BK            19 = BN 3 = YE            9 = VT 4 = GY            10 = GY/PK 5 = PK            11 = RD/BU 6 = BU            13 = WH/GN <b>19.15-Pole</b> 2 = RD            8 = WH/GN        16 = YE 3 = GY            9 = WH/YE        17 = PK 4 = RD/BU       12 = GN/YE       19 = BN 5 = GN            13 = YE/BN 6 = BU            14 = BN/GN 7 = GY/PK       15 = WH <b>19-Pole</b> 1 = VT            8 = WH/GN        15 = WH 2 = RD            9 = WH/YE        16 = YE 3 = GY            10 = WH/GY       17 = PK 4 = RD/BU       11 = BK            18 = GY/BN 5 = GN            12 = GN/YE       19 = BN 6 = BU            13 = YE/BN 7 = GY/PK       14 = BN/GN
	19.14-Pole	MS23-F19.14F-L0.5RS19.8	11 12 019 3205	
	19.15-Pole	MS23-F19.15F-L0.5RS19.8	11 12 019 3206	
	19-Pole	MS23-F19F-L0.5RS19.8	11 12 019 3207	

1): Standard cable length is 0.5m, variable cable length is optional.


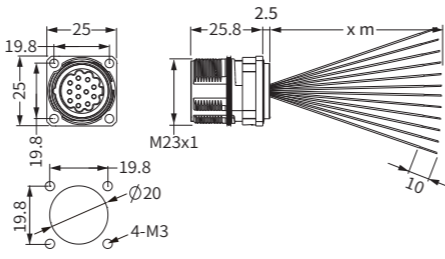


Sensor-Actuator Receptacles, front mounting, with outside thread, 12-17 poles, RS19.8, male


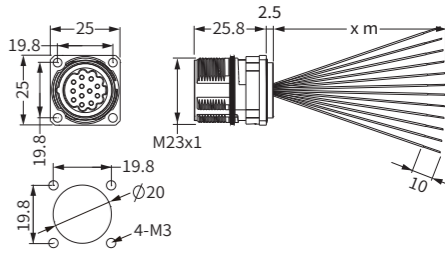
Sensor-Actuator Receptacles, front mounting, with outside thread, 19 poles, RS19.8, male

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Tightening torque	2 Nm
Rated voltage	[V] 150	Limiting temperature	[-25 ... +85 °C]
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	Brass, nickel plated	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	PBT-white	RoHS	compliant
Material(knurl)	Brass, nickel plated		

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated current	[A] 9	Tightening torque	2 Nm
Rated voltage	[V] 150	Limiting temperature	[-25 ... +85 °C]
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Degree of protection (IP)	IP67
Contact resistance	[mΩ] ≤5	Mating cycles	≥100
Material(grip body)	Brass, nickel plated	Pollution degree	3
Material(contact)	Brass, gold plated	Standard	IEC61076-2-101
Material(contact carrier)	PBT-white	RoHS	compliant
Material(knurl)	Brass, nickel plated		

Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																																																												
<b>Receptacles, with wire ends<sup>1)</sup>, front mounting, male, with outside thread, RS19.8, individual wires</b> 	12.7-Pole	MS23-M12.7F-L0.5RS19.8	11 12 012 3104	 <p><b>12.7-Pole</b></p> <table border="0"> <tr><td>1 = WH</td><td>9 = BU</td></tr> <tr><td>2 = GN</td><td>10 = connect with 9</td></tr> <tr><td>3 = YE</td><td>11 = BN</td></tr> <tr><td>4 = GY</td><td>12 = GN/YE</td></tr> </table> <p><b>12.9-Pole</b></p> <table border="0"> <tr><td>1 = WH</td><td>6 = RD</td></tr> <tr><td>2 = GN</td><td>9 = BU</td></tr> <tr><td>3 = YE</td><td>10 = connect with 9</td></tr> <tr><td>4 = GY</td><td>11 = BN</td></tr> <tr><td>5 = PK</td><td>12 = GN/YE</td></tr> </table> <p><b>12.11-Pole</b></p> <table border="0"> <tr><td>1 = WH</td><td>7 = BK</td></tr> <tr><td>2 = GN</td><td>8 = VT</td></tr> <tr><td>3 = YE</td><td>9 = BU</td></tr> <tr><td>4 = GY</td><td>10 = connect with 9</td></tr> <tr><td>5 = PK</td><td>11 = BN</td></tr> <tr><td>6 = RD</td><td>12 = GN/YE</td></tr> </table> <p><b>12-Pole</b></p> <table border="0"> <tr><td>1 = BN</td><td>7 = GY</td></tr> <tr><td>2 = BU</td><td>8 = PK</td></tr> <tr><td>3 = WH</td><td>9 = RD</td></tr> <tr><td>4 = GN/YE</td><td>10 = BN/WH</td></tr> <tr><td>5 = OG</td><td>11 = BU/WH</td></tr> <tr><td>6 = YE</td><td>12 = GN/WH</td></tr> </table> <p><b>17-Pole</b></p> <table border="0"> <tr><td>1 = BU</td><td>7 = GN</td><td>13 = YE/BN</td></tr> <tr><td>2 = RD</td><td>8 = GY/PK</td><td>14 = BN/GN</td></tr> <tr><td>3 = BN</td><td>9 = WH/GN</td><td>15 = WH</td></tr> <tr><td>4 = GY</td><td>10 = WH/YE</td><td>16 = YE</td></tr> <tr><td>5 = GN/YE</td><td>11 = WH/GY</td><td>17 = PK</td></tr> <tr><td>6 = RD/BU</td><td>12 = BK</td><td></td></tr> </table>	1 = WH	9 = BU	2 = GN	10 = connect with 9	3 = YE	11 = BN	4 = GY	12 = GN/YE	1 = WH	6 = RD	2 = GN	9 = BU	3 = YE	10 = connect with 9	4 = GY	11 = BN	5 = PK	12 = GN/YE	1 = WH	7 = BK	2 = GN	8 = VT	3 = YE	9 = BU	4 = GY	10 = connect with 9	5 = PK	11 = BN	6 = RD	12 = GN/YE	1 = BN	7 = GY	2 = BU	8 = PK	3 = WH	9 = RD	4 = GN/YE	10 = BN/WH	5 = OG	11 = BU/WH	6 = YE	12 = GN/WH	1 = BU	7 = GN	13 = YE/BN	2 = RD	8 = GY/PK	14 = BN/GN	3 = BN	9 = WH/GN	15 = WH	4 = GY	10 = WH/YE	16 = YE	5 = GN/YE	11 = WH/GY	17 = PK	6 = RD/BU	12 = BK	
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12.9-Pole	MS23-M12.9F-L0.5RS19.8	11 12 012 3105																																																														
12.11-Pole	MS23-M12.11F-L0.5RS19.8	11 12 012 3106																																																														
12-Pole	MS23-M12F-L0.5RS19.8	11 12 012 3107																																																														
17-Pole	MS23-M17F-L0.5RS19.8	11 12 017 3101																																																														

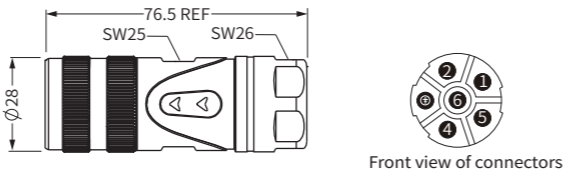
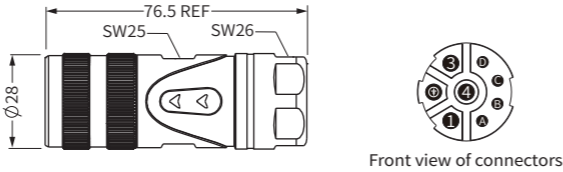
1): Standard cable length is 0.5m, variable cable length is optional.

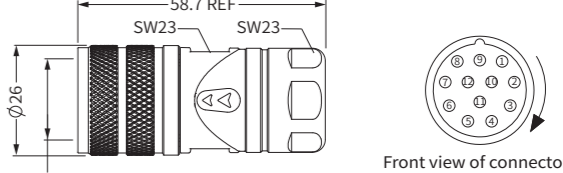
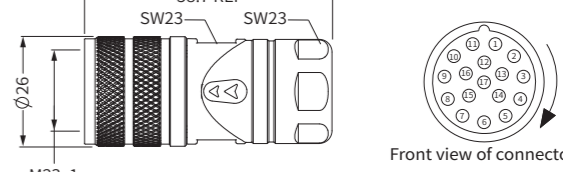
Identification	No. of Poles	Type	Part number	Drawing (dimensions in mm)																																																																						
<b>Receptacles, with wire ends<sup>1)</sup>, front mounting, male, with outside thread, RS19.8, individual wires</b> 	19.11-Pole	MS23-M19.11F-L0.5RS19.8	11 12 019 3104	 <p><b>19.11-Pole</b></p> <table border="0"> <tr><td>3 = GY</td><td>12 = GN/YE</td></tr> <tr><td>4 = RD/BU</td><td>14 = BN/GN</td></tr> <tr><td>5 = GN</td><td>15 = WH</td></tr> <tr><td>6 = BU</td><td>16 = YE</td></tr> <tr><td>7 = GY/PK</td><td>19 = BN</td></tr> <tr><td>8 = WH/GN</td><td></td><td></td></tr> </table> <p><b>19.14-Pole</b></p> <table border="0"> <tr><td>1 = WH</td><td>7 = RD</td><td>14 = BN/GN</td></tr> <tr><td>2 = GN</td><td>8 = BK</td><td>19 = BN</td></tr> <tr><td>3 = YE</td><td>9 = VT</td><td></td></tr> <tr><td>4 = GY</td><td>10 = GY/PK</td><td></td></tr> <tr><td>5 = PK</td><td>11 = RD/BU</td><td></td></tr> <tr><td>6 = BU</td><td>13 = WH/GN</td><td></td></tr> </table> <p><b>19.15-Pole</b></p> <table border="0"> <tr><td>2 = RD</td><td>8 = WH/GN</td><td>16 = YE</td></tr> <tr><td>3 = GY</td><td>9 = WH/YE</td><td>17 = PK</td></tr> <tr><td>4 = RD/BU</td><td>12 = GN/YE</td><td>19 = BN</td></tr> <tr><td>5 = GN</td><td>13 = YE/BN</td><td></td></tr> <tr><td>6 = BU</td><td>14 = BN/GN</td><td></td></tr> <tr><td>7 = GY/PK</td><td>15 = WH</td><td></td></tr> </table> <p><b>19-Pole</b></p> <table border="0"> <tr><td>1 = VT</td><td>8 = WH/GN</td><td>15 = WH</td></tr> <tr><td>2 = RD</td><td>9 = WH/YE</td><td>16 = YE</td></tr> <tr><td>3 = GY</td><td>10 = WH/GY</td><td>17 = PK</td></tr> <tr><td>4 = RD/BU</td><td>11 = BK</td><td>18 = GY/BN</td></tr> <tr><td>5 = GN</td><td>12 = GN/YE</td><td>19 = BN</td></tr> <tr><td>6 = BU</td><td>13 = YE/BN</td><td></td></tr> <tr><td>7 = GY/PK</td><td>14 = BN/GN</td><td></td></tr> </table>	3 = GY	12 = GN/YE	4 = RD/BU	14 = BN/GN	5 = GN	15 = WH	6 = BU	16 = YE	7 = GY/PK	19 = BN	8 = WH/GN			1 = WH	7 = RD	14 = BN/GN	2 = GN	8 = BK	19 = BN	3 = YE	9 = VT		4 = GY	10 = GY/PK		5 = PK	11 = RD/BU		6 = BU	13 = WH/GN		2 = RD	8 = WH/GN	16 = YE	3 = GY	9 = WH/YE	17 = PK	4 = RD/BU	12 = GN/YE	19 = BN	5 = GN	13 = YE/BN		6 = BU	14 = BN/GN		7 = GY/PK	15 = WH		1 = VT	8 = WH/GN	15 = WH	2 = RD	9 = WH/YE	16 = YE	3 = GY	10 = WH/GY	17 = PK	4 = RD/BU	11 = BK	18 = GY/BN	5 = GN	12 = GN/YE	19 = BN	6 = BU	13 = YE/BN		7 = GY/PK	14 = BN/GN	
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1): Standard cable length is 0.5m, variable cable length is optional.

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated voltage [V]	630	Tightening torque	2 Nm
Insulation resistance [ $\Omega$ ]	$\geq 10^8$	Limiting temperature [ $^{\circ}\text{C}$ ]	-25 ... +85
Contact resistance [m $\Omega$ ]	$\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	Zinc die-cast/Nickel plated	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-black	Standard	IEC61076-2-101
Material(knurl)	Copper alloy/Nickel plated	RoHS	compliant


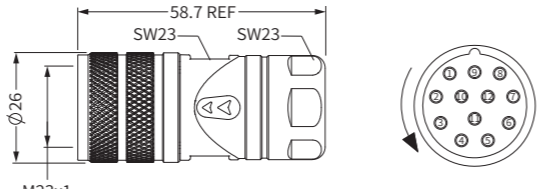

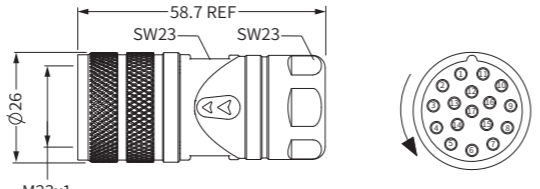
Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated voltage [V]	150	Tightening torque	2 Nm
Insulation resistance [ $\Omega$ ]	$\geq 10^8$	Limiting temperature [ $^{\circ}\text{C}$ ]	-25 ... +85
Contact resistance [m $\Omega$ ]	$\leq 5$	Degree of protection (IP)	IP67
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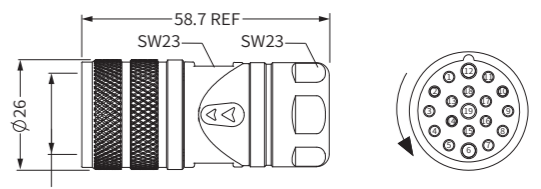
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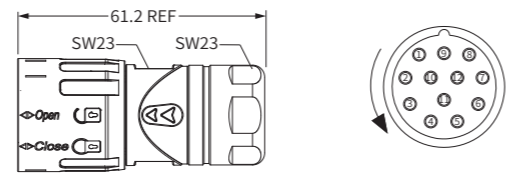

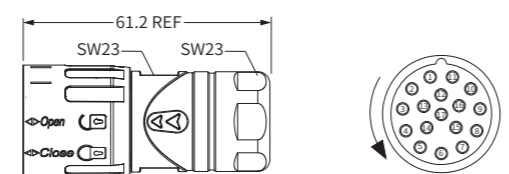
Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	Zinc die-cast/Nickel plated	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
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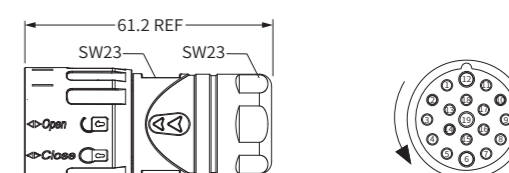
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Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	Zinc die-cast/Nickel plated	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Copper alloy/Nickel plated	RoHS	compliant

Identification	Type	Part number	Drawing (dimensions in mm)																		
<b>12-pole, straight, female, M23, cable diameter: 6 ... 14 mm, Rated current: 4A; 8A</b> 	MQ23-SFC12S-D14/C1/KIT	01 12 112 1404	 <table border="1"> <thead> <tr> <th>Type Name</th> <th>Cable range</th> <th>Contacts</th> <th>Rated current</th> <th>Cross-section</th> <th>Contact diameter</th> </tr> </thead> <tbody> <tr> <td>MQ23-SFC12S-D14/C1/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.34-F (12 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>MQ23-SFC12S-D14/C2/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.75-F (12 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1mm</td> </tr> </tbody> </table>	Type Name	Cable range	Contacts	Rated current	Cross-section	Contact diameter	MQ23-SFC12S-D14/C1/KIT	6 ... 14mm	M23-CS8G-0.34-F (12 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	MQ23-SFC12S-D14/C2/KIT	6 ... 14mm	M23-CS8G-0.75-F (12 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1mm
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Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	Zinc die-cast/Nickel plated	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Copper alloy/Nickel plated	RoHS	compliant

Identification	Type	Part number	Drawing (dimensions in mm)																														
<b>19-pole, straight, female, M23, cable diameter: 6 ... 14 mm, Rated current: 4A/4A; 4A/8A; 8A/4A; 8A/8A</b> 	MQ23-SFC19S-D14/C1.1/KIT	01 12 119 1407	 <table border="1"> <thead> <tr> <th>Type Name</th> <th>Cable range</th> <th>Contacts</th> <th>Rated current</th> <th>Cross-section</th> <th>Contact diameter</th> </tr> </thead> <tbody> <tr> <td>MQ23-SFC19S-D14/C1.1/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.34-F (16 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>MQ23-SFC19S-D14/C1.2/KIT</td> <td>6 ... 14mm</td> <td>M23-CS10G-0.34-F (3 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1.5mm</td> </tr> <tr> <td>MQ23-SFC19S-D14/C2.1/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.34-F (16 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>MQ23-SFC19S-D14/C2.1/KIT</td> <td>01 12 119 1409</td> </tr> <tr> <td>MQ23-SFC19S-D14/C2.2/KIT</td> <td>01 12 119 1410</td> </tr> <tr> <td>MQ23-SFC19S-D14/C2.2/KIT</td> <td>01 12 119 1410</td> </tr> </tbody> </table>	Type Name	Cable range	Contacts	Rated current	Cross-section	Contact diameter	MQ23-SFC19S-D14/C1.1/KIT	6 ... 14mm	M23-CS8G-0.34-F (16 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	MQ23-SFC19S-D14/C1.2/KIT	6 ... 14mm	M23-CS10G-0.34-F (3 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1.5mm	MQ23-SFC19S-D14/C2.1/KIT	6 ... 14mm	M23-CS8G-0.34-F (16 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	MQ23-SFC19S-D14/C2.1/KIT	01 12 119 1409	MQ23-SFC19S-D14/C2.2/KIT	01 12 119 1410	MQ23-SFC19S-D14/C2.2/KIT	01 12 119 1410
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Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated voltage	[V] 630	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	Zinc die-cast/Nickel plated	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-black	Standard	IEC61076-2-101
Material(knurl)	Copper alloy/Nickel plated	RoHS	compliant

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
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<b>6-pole, straight, male,</b> M23, cable diameter: 7 ... 12 mm, 12 ... 17 mm, Rated current: 8A; 20A; 30A	M23-SMC6S-D12/C1/KIT	01 12 106 1300	<p>Front view of connectors</p> <table border="1"> <thead> <tr> <th>Type Name</th> <th>Cable range</th> <th>Contacts</th> <th>Rated current</th> <th>Cross-section</th> <th>Contact diameter</th> </tr> </thead> <tbody> <tr> <td>M23-SMC6S-D12/C1/KIT</td> <td>7 ... 12mm</td> <td>M23-C30G-1.0-M (6 pcs)</td> <td>8A</td> <td>0.25 ... 1 mm<sup>2</sup></td> <td>2mm</td> </tr> <tr> <td>M23-SMC6S-D12/C2/KIT</td> <td>7 ... 12mm</td> <td>M23-C30G-2.5-M (6 pcs)</td> <td>20A</td> <td>1.5 ... 2.5 mm<sup>2</sup></td> <td>2mm</td> </tr> <tr> <td>M23-SMC6S-D17/C2/KIT</td> <td>12 ... 17mm</td> <td>M23-C30G-2.5-M (6 pcs)</td> <td>20A</td> <td>1.5 ... 2.5 mm<sup>2</sup></td> <td>2mm</td> </tr> <tr> <td>M23-SMC6S-D17/C3/KIT</td> <td>12 ... 17mm</td> <td>M23-C30G-4.0-M (6 pcs)</td> <td>30A</td> <td>4 mm<sup>2</sup></td> <td>2mm</td> </tr> </tbody> </table>	Type Name	Cable range	Contacts	Rated current	Cross-section	Contact diameter	M23-SMC6S-D12/C1/KIT	7 ... 12mm	M23-C30G-1.0-M (6 pcs)	8A	0.25 ... 1 mm <sup>2</sup>	2mm	M23-SMC6S-D12/C2/KIT	7 ... 12mm	M23-C30G-2.5-M (6 pcs)	20A	1.5 ... 2.5 mm <sup>2</sup>	2mm	M23-SMC6S-D17/C2/KIT	12 ... 17mm	M23-C30G-2.5-M (6 pcs)	20A	1.5 ... 2.5 mm <sup>2</sup>	2mm	M23-SMC6S-D17/C3/KIT	12 ... 17mm	M23-C30G-4.0-M (6 pcs)	30A	4 mm <sup>2</sup>	2mm												
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M23-SMC8S-D17/C3/KIT	12 ... 17mm	M23-C30G-4.0-M (4 pcs)	30A	4 mm <sup>2</sup>	2mm																																								
		M23-C8G-1.0-M (4 pcs)	8A	0.25 ... 1 mm <sup>2</sup>	1mm																																								
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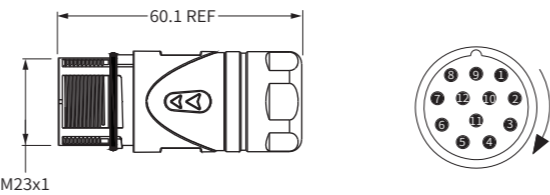

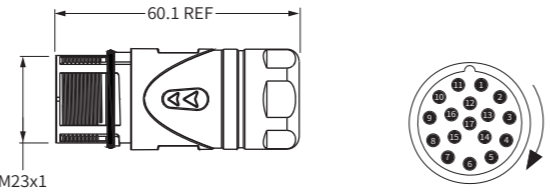
Identification	Type	Part number	Drawing (dimensions in mm)																		
<b>12-pole, straight, male,</b> M23, cable diameter: 6 ... 14 mm, Rated current: 4A; 8A, reverse running	M23-SMC12S-D14/C1/SE/KIT	01 12 112 1300	<p>Front view of connectors</p> <table border="1"> <thead> <tr> <th>Type Name</th> <th>Cable range</th> <th>Contacts</th> <th>Rated current</th> <th>Cross-section</th> <th>Contact diameter</th> </tr> </thead> <tbody> <tr> <td>M23-SMC12S-D14/C1/SE/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.34-M (12 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>M23-SMC12S-D14/C2/SE/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.75-M (12 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1mm</td> </tr> </tbody> </table>	Type Name	Cable range	Contacts	Rated current	Cross-section	Contact diameter	M23-SMC12S-D14/C1/SE/KIT	6 ... 14mm	M23-CS8G-0.34-M (12 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	M23-SMC12S-D14/C2/SE/KIT	6 ... 14mm	M23-CS8G-0.75-M (12 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1mm
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<b>17-pole, straight, male,</b> M23, cable diameter: 6 ... 14 mm, Rated current: 4A; 8A, reverse running	M23-SMC17S-D14/C1/SE/KIT	01 12 117 1300	<p>Front view of connectors</p> <table border="1"> <thead> <tr> <th>Type Name</th> <th>Cable range</th> <th>Contacts</th> <th>Rated current</th> <th>Cross-section</th> <th>Contact diameter</th> </tr> </thead> <tbody> <tr> <td>M23-SMC17S-D14/C1/SE/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.34-M (17 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>M23-SMC17S-D14/C2/SE/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.75-M (17 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1mm</td> </tr> </tbody> </table>	Type Name	Cable range	Contacts	Rated current	Cross-section	Contact diameter	M23-SMC17S-D14/C1/SE/KIT	6 ... 14mm	M23-CS8G-0.34-M (17 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	M23-SMC17S-D14/C2/SE/KIT	6 ... 14mm	M23-CS8G-0.75-M (17 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1mm
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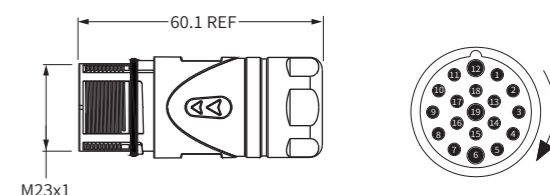
Technical characteristics

Connector	M23	Material(seal)	FPM/FKM
Rated voltage [V]	150	Tightening torque	2 Nm
Insulation resistance [ $\Omega$ ]	$\geq 10^8$	Limiting temperature [ $^{\circ}\text{C}$ ]	-25 ... +85
Contact resistance [m $\Omega$ ]	$\leq 5$	Degree of protection (IP)	IP67
Material(grip body)	Zinc die-cast/Nickel plated	Mating cycles	$\geq 100$
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Copper alloy/Nickel plated	RoHS	compliant

Technical characteristics


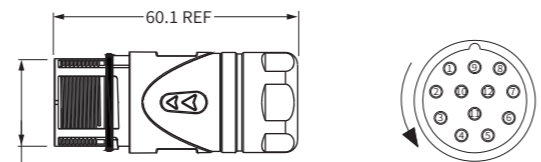

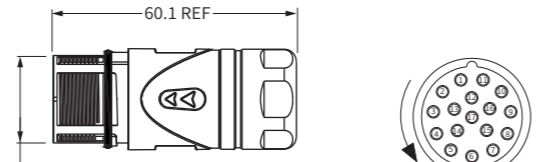
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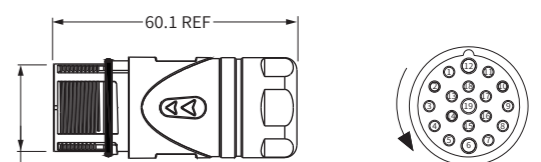
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<b>19-pole, straight, male,</b> M23, cable diameter: 6 ... 14 mm, Rated current: 4A/4A; 4A/8A; 8A/4A; 8A/8A 	M23-SMC19S-D14/C1.1/KIT	01 12 119 1308	 <table border="1"> <thead> <tr> <th>Type Name</th> <th>Cable range</th> <th>Contacts</th> <th>Rated current</th> <th>Cross-section</th> <th>Contact diameter</th> </tr> </thead> <tbody> <tr> <td rowspan="2">M23-SMC19S-D14/C1.1/KIT</td> <td rowspan="2">6 ... 14mm</td> <td>M23-CS8G-0.34-M (16 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>M23-CS10G-0.34-M (3 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1.5mm</td> </tr> <tr> <td rowspan="2">M23-SMC19S-D14/C1.2/KIT</td> <td rowspan="2">6 ... 14mm</td> <td>M23-CS8G-0.34-M (16 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>M23-CS10G-0.75-M (3 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1.5mm</td> </tr> <tr> <td rowspan="2">M23-SMC19S-D14/C2.1/KIT</td> <td rowspan="2">6 ... 14mm</td> <td>M23-CS8G-0.75-M (16 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>M23-CS10G-0.34-M (3 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1.5mm</td> </tr> <tr> <td>M23-SMC19S-D14/C2.2/KIT</td> <td>01 12 119 1311</td> </tr> </tbody> </table>	Type Name	Cable range	Contacts	Rated current	Cross-section	Contact diameter	M23-SMC19S-D14/C1.1/KIT	6 ... 14mm	M23-CS8G-0.34-M (16 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	M23-CS10G-0.34-M (3 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1.5mm	M23-SMC19S-D14/C1.2/KIT	6 ... 14mm	M23-CS8G-0.34-M (16 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	M23-CS10G-0.75-M (3 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1.5mm	M23-SMC19S-D14/C2.1/KIT	6 ... 14mm	M23-CS8G-0.75-M (16 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1mm	M23-CS10G-0.34-M (3 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1.5mm	M23-SMC19S-D14/C2.2/KIT	01 12 119 1311
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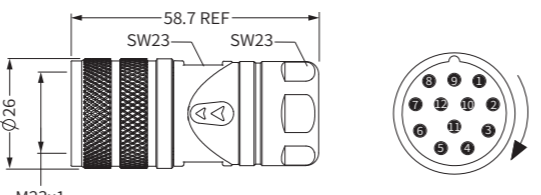

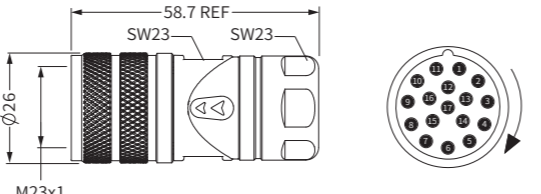
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Connector	M23	Material(seal)	FPM/FKM
Rated voltage [V]	150	Tightening torque	2 Nm
Insulation resistance [ $\Omega$ ]	$\geq 10^8$	Limiting temperature [ $^{\circ}\text{C}$ ]	-25 ... +85
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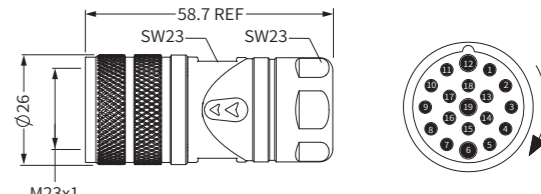
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MS23-SFC17S-D14/C2/KIT	01 12 117 1407																				

Identification	Type	Part number	Drawing (dimensions in mm)																														
<b>19-pole, straight, female, M23, cable diameter: 6 ... 14 mm, Rated current: 4A/4A; 4A/8A; 8A/4A; 8A/8A, with outside thread</b> 	MS23-SFC19S-D14/C1.1/KIT	01 12 119 1411	 M23x1 <table border="1"> <thead> <tr> <th>Type Name</th> <th>Cable range</th> <th>Contacts</th> <th>Rated current</th> <th>Cross-section</th> <th>Contact diameter</th> </tr> </thead> <tbody> <tr> <td>MS23-SFC19S-D14/C1.1/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.34-F (16 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>MS23-SFC19S-D14/C1.2/KIT</td> <td>6 ... 14mm</td> <td>M23-CS10G-0.34-F (3 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1.5mm</td> </tr> <tr> <td>MS23-SFC19S-D14/C2.1/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.34-F (16 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>MS23-SFC19S-D14/C2.1/KIT</td> <td>01 12 119 1406</td> </tr> <tr> <td>MS23-SFC19S-D14/C2.2/KIT</td> <td>01 12 119 1413</td> </tr> <tr> <td>MS23-SFC19S-D14/C2.2/KIT</td> <td>01 12 119 1413</td> </tr> </tbody> </table>	Type Name	Cable range	Contacts	Rated current	Cross-section	Contact diameter	MS23-SFC19S-D14/C1.1/KIT	6 ... 14mm	M23-CS8G-0.34-F (16 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	MS23-SFC19S-D14/C1.2/KIT	6 ... 14mm	M23-CS10G-0.34-F (3 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1.5mm	MS23-SFC19S-D14/C2.1/KIT	6 ... 14mm	M23-CS8G-0.34-F (16 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	MS23-SFC19S-D14/C2.1/KIT	01 12 119 1406	MS23-SFC19S-D14/C2.2/KIT	01 12 119 1413	MS23-SFC19S-D14/C2.2/KIT	01 12 119 1413
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Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	Zinc die-cast/Nickel plated	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Copper alloy/Nickel plated	RoHS	compliant

Identification	Type	Part number	Drawing (dimensions in mm)																		
<b>12-pole, straight, male,</b> M23, cable diameter: 6 ... 14 mm, Rated current: 4A; 8A 	MN23-SMC12S-D14/C1/KIT	01 12 112 1302	 <table border="1"> <thead> <tr> <th>Type Name</th> <th>Cable range</th> <th>Contacts</th> <th>Rated current</th> <th>Cross-section</th> <th>Contact diameter</th> </tr> </thead> <tbody> <tr> <td>MN23-SMC12S-D14/C1/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.34-M (12 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>MN23-SMC12S-D14/C2/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.75-M (12 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1mm</td> </tr> </tbody> </table>	Type Name	Cable range	Contacts	Rated current	Cross-section	Contact diameter	MN23-SMC12S-D14/C1/KIT	6 ... 14mm	M23-CS8G-0.34-M (12 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	MN23-SMC12S-D14/C2/KIT	6 ... 14mm	M23-CS8G-0.75-M (12 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1mm
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<b>17-pole, straight, male,</b> M23, cable diameter: 6 ... 14 mm, Rated current: 4A; 8A 	MN23-SMC17S-D14/C1/KIT	01 12 117 1302	 <table border="1"> <thead> <tr> <th>Type Name</th> <th>Cable range</th> <th>Contacts</th> <th>Rated current</th> <th>Cross-section</th> <th>Contact diameter</th> </tr> </thead> <tbody> <tr> <td>MN23-SMC17S-D14/C1/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.34-M (17 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>MN23-SMC17S-D14/C2/KIT</td> <td>6 ... 14mm</td> <td>M23-CS8G-0.75-M (17 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1mm</td> </tr> </tbody> </table>	Type Name	Cable range	Contacts	Rated current	Cross-section	Contact diameter	MN23-SMC17S-D14/C1/KIT	6 ... 14mm	M23-CS8G-0.34-M (17 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	MN23-SMC17S-D14/C2/KIT	6 ... 14mm	M23-CS8G-0.75-M (17 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1mm
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MN23-SMC17S-D14/C2/KIT	01 12 117 1303																				

Technical characteristics			
Connector	M23	Material(seal)	FPM/FKM
Rated voltage	[V] 150	Tightening torque	2 Nm
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Limiting temperature	[°C] -25 ... +85
Contact resistance	[mΩ] ≤5	Degree of protection (IP)	IP67
Material(grip body)	Zinc die-cast/Nickel plated	Mating cycles	≥100
Material(contact)	Brass, gold plated	Pollution degree	3
Material(contact carrier)	PBT-white	Standard	IEC61076-2-101
Material(knurl)	Copper alloy/Nickel plated	RoHS	compliant

Identification	Type	Part number	Drawing (dimensions in mm)																																														
<b>19-pole, straight, male,</b> M23, cable diameter: 6 ... 14 mm, Rated current: 4A/4A; 4A/8A; 8A/4A; 8A/8A 	MN23-SMC19S-D14/C1.1/KIT	01 12 119 1304	 <table border="1"> <thead> <tr> <th>Type Name</th> <th>Cable range</th> <th>Contacts</th> <th>Rated current</th> <th>Cross-section</th> <th>Contact diameter</th> </tr> </thead> <tbody> <tr> <td rowspan="2">MN23-SMC19S-D14/C1.1/KIT</td> <td rowspan="2">6 ... 14mm</td> <td>M23-CS8G-0.34-M (16 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>M23-CS10G-0.34-M (3 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1.5mm</td> </tr> <tr> <td rowspan="2">MN23-SMC19S-D14/C1.2/KIT</td> <td rowspan="2">6 ... 14mm</td> <td>M23-CS8G-0.34-M (16 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>M23-CS10G-0.75-M (3 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1.5mm</td> </tr> <tr> <td rowspan="2">MN23-SMC19S-D14/C2.1/KIT</td> <td rowspan="2">6 ... 14mm</td> <td>M23-CS8G-0.75-M (16 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>M23-CS10G-0.34-M (3 pcs)</td> <td>4A</td> <td>0.14 ... 0.34mm<sup>2</sup></td> <td>1.5mm</td> </tr> <tr> <td rowspan="2">MN23-SMC19S-D14/C2.2/KIT</td> <td rowspan="2">6 ... 14mm</td> <td>M23-CS8G-0.75-M (16 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1mm</td> </tr> <tr> <td>M23-CS10G-0.75-M (3 pcs)</td> <td>8A</td> <td>0.34 ... 0.75mm<sup>2</sup></td> <td>1.5mm</td> </tr> </tbody> </table>	Type Name	Cable range	Contacts	Rated current	Cross-section	Contact diameter	MN23-SMC19S-D14/C1.1/KIT	6 ... 14mm	M23-CS8G-0.34-M (16 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	M23-CS10G-0.34-M (3 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1.5mm	MN23-SMC19S-D14/C1.2/KIT	6 ... 14mm	M23-CS8G-0.34-M (16 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1mm	M23-CS10G-0.75-M (3 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1.5mm	MN23-SMC19S-D14/C2.1/KIT	6 ... 14mm	M23-CS8G-0.75-M (16 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1mm	M23-CS10G-0.34-M (3 pcs)	4A	0.14 ... 0.34mm <sup>2</sup>	1.5mm	MN23-SMC19S-D14/C2.2/KIT	6 ... 14mm	M23-CS8G-0.75-M (16 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1mm	M23-CS10G-0.75-M (3 pcs)	8A	0.34 ... 0.75mm <sup>2</sup>	1.5mm
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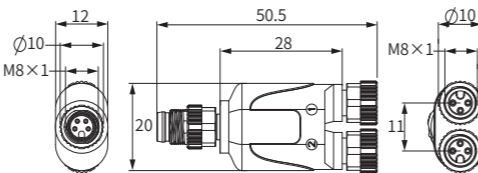
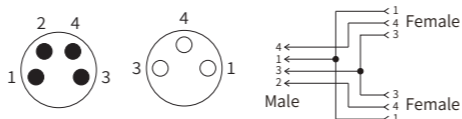
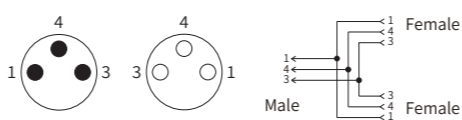
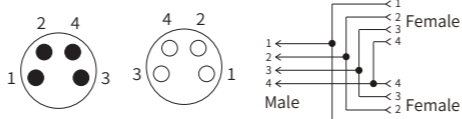


# Splitters & Junction Boxes


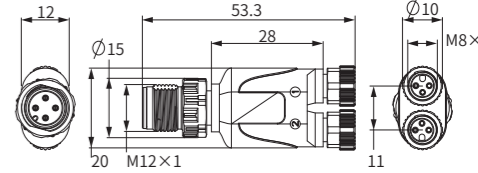
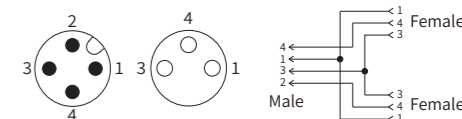
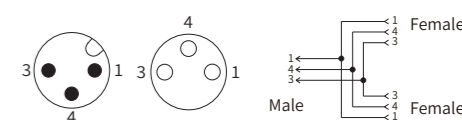
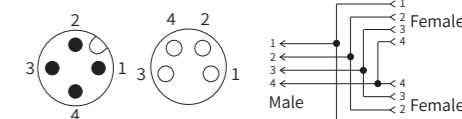
Contents	Pages
Splitters & Junction Boxes .....	13-01
Splitters .....	13-03
Junction Boxes .....	14-01

Technical characteristics				
Connector		M8 A-code	Tightening torque	2.0 Nm
Rated current	[A]	2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V]	60	Degree of protection (IP)	IP67
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ]	≤5	Pollution degree	3
Material(grip body)		TPU-yellow	Standard	IEC61076-2-104
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Technical characteristics				
Connector		M12 A-code to M8 A-code	Tightening torque	2.0 Nm
Rated current	[A]	2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V]	60	Degree of protection (IP)	IP67
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ]	≤5	Pollution degree	3
Material(grip body)		TPU-black	Standard	IEC61076-2-104
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>Y-distributors, M8 A-code, M8 male to 2 x M8 female, Anti-vibration</b> 	4-pole male to 2 x 3-pole female	M8A-M4Y/2F3	11 02 004 5100	 <p><b>4-pole male to 2 x 3-pole female</b></p>  <p><b>3-pole male to 2 x 3-pole female(PAR)</b></p>  <p><b>4-pole male to 2 x 4-pole female(PAR)</b></p> 
	3-pole male to 2 x 3-pole female	M8A-M3Y/2F3-PAR	11 02 003 5101	
	4-pole male to 2 x 4-pole female	M8A-M4Y/2F4-PAR	11 02 004 5101	

variable circuit, color is optional.

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>Y-distributors, M12 A-code to M8 A-code, M12 male to 2 x M8 female, Anti-vibration</b> 	4-pole male to 2 x 3-pole female	M12A-M4Y/2F3-M8A	11 03 004 5101	 <p><b>4-pole male to 2 x 3-pole female</b></p>  <p><b>3-pole male to 2 x 3-pole female(PAR)</b></p>  <p><b>4-pole male to 2 x 4-pole female(PAR)</b></p> 
	3-pole male to 2 x 3-pole female	M12A-M3Y/2F3-PAR-M8A	11 03 003 5101	
	4-pole male to 2 x 4-pole female	M12A-M4Y/2F4-PAR-M8A	11 03 004 5102	


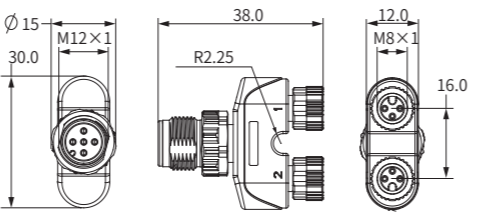
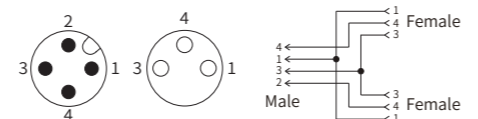
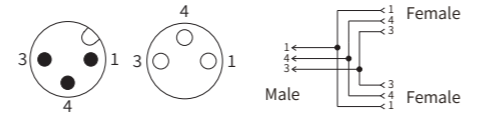
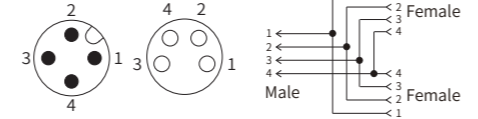
variable circuit, color is optional.

Technical characteristics


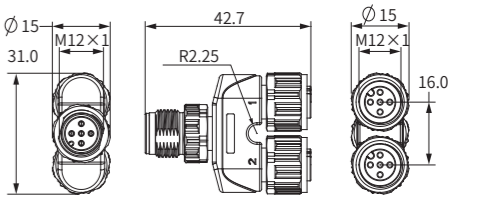
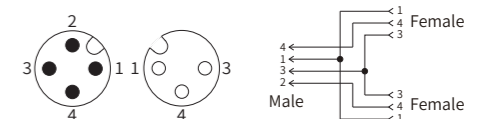
Connector	M12 A-code to M8 A-code	Tightening torque	2.0 Nm
Rated current [A]	2	Limiting temperature [°C]	-25 ... +85
Rated voltage [V]	60	Degree of protection (IP)	IP67
Insulation resistance [Ω]	≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance [mΩ]	≤5	Pollution degree	3
Material(grip body)	TPU-black	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU-black		
Material(knurl)	Zinc die-cast/Nickel plated		
Material(seal)	FPM/FKM		

Technical characteristics

Connector	M12 A-code	Tightening torque	2.0 Nm
Rated current [A]	4	Limiting temperature [°C]	-25 ... +85
Rated voltage [V]	250	Degree of protection (IP)	IP67
Insulation resistance [Ω]	≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance [mΩ]	≤5	Pollution degree	3
Material(grip body)	TPU-black	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU-black		
Material(knurl)	Zinc die-cast/Nickel plated		
Material(seal)	FPM/FKM		

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>YV-distributors, M12 A-code to M8 A-code, Anti-vibration</b> 	4-pole male to 2 x 3-pole female	M12A-M4YV/2F3-M8A	11 03 004 7101	 <p>4-pole male to 2 x 3-pole female</p>  <p>3-pole male to 2 x 3-pole female(PAR)</p>  <p>4-pole male to 2 x 4-pole female(PAR)</p> 
	3-pole male to 2 x 3-pole female	M12A-M3YV/2F3-PAR-M8A	11 03 003 7101	
	4-pole male to 2 x 4-pole female	M12A-M4YV/2F4-PAR-M8A	11 03 004 7102	


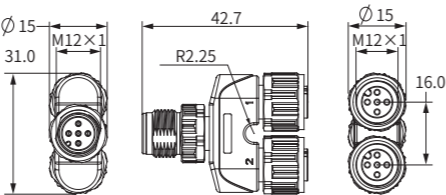
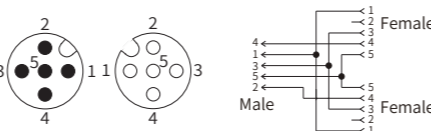
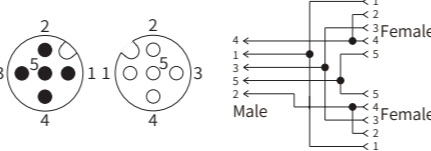
variable circuit, color is optional.

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>YV-distributors, M12 A-code M12 male to 2 x M12 female, Anti-vibration</b> 	4-pole male to 2 x 3-pole female	M12A-M4YV/2F3	11 03 004 7100	 <p>4-pole male to 2 x 3-pole female</p> 


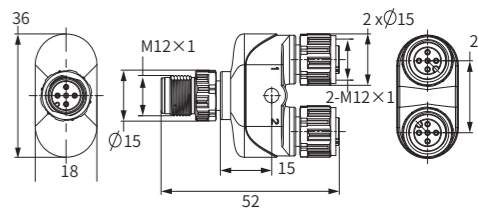
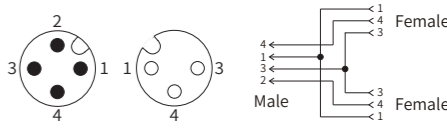
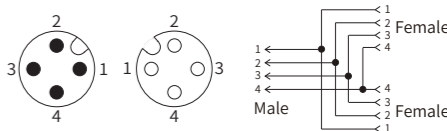
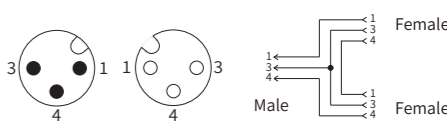
variable circuit, color is optional.

Technical characteristics				
Connector		M12 A-code	Tightening torque	2.0 Nm
Rated current	[A]	4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V]	60	Degree of protection (IP)	IP67
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ]	≤5	Pollution degree	3
Material(grip body)		TPU-black	Standard	IEC61076-2-104
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Technical characteristics				
Connector		M12 A-code	Tightening torque	2.0 Nm
Rated current	[A]	4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V]	250	Degree of protection (IP)	IP67
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ]	≤5	Pollution degree	3
Material(grip body)		TPU-black	Standard	IEC61076-2-104
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>YV-distributors, M12 A-code</b> M12 male to 2 x M12 female, Anti-vibration 	5-pole(+PE) male to 2 x 5-pole female	M12A-M5YV-5GNYE/2F5	11 03 005 7101	 <p>5-pole (+PE) male to 2 x 5-pole female</p>  <p>5-pole (+PE) male to 2 x 5-pole (+PE) female(OAC)</p> 
	5-pole(+PE) male to 2 x 5-pole(+PE) female	M12A-M5YV-5GNYE/2F5 -OAC-5GNYE	11 03 005 7102	


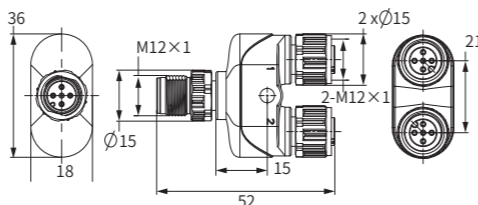
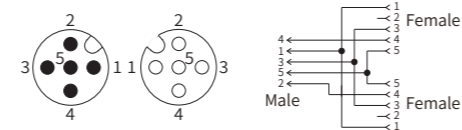
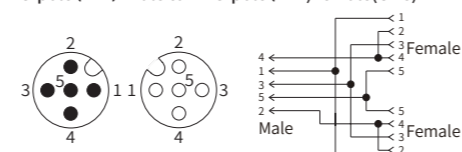
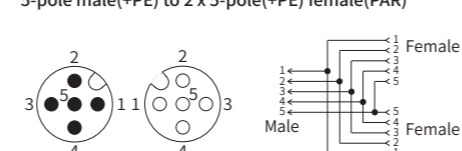
variable circuit, color is optional.

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>YW-distributors, M12 A-code,</b> M12 male to 2 x M12 female, Anti-vibration 	4-pole male to 2 x 3-pole female	M12A-M4YW/2F3	11 03 004 6100	 <p>4-pole male to 2 x 3-pole female</p>  <p>4-pole male to 2 x 4-pole female(PAR)</p>  <p>3-pole male to 2 x 3-pole female(SER)</p> 
	4-pole male to 2 x 4-pole female	M12A-M4YW/2F4-PAR	11 03 004 6101	
	3-pole male to 2 x 3-pole female	M12A-M3YW/2F3-SER	11 03 003 6101	


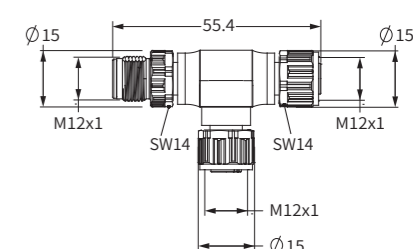
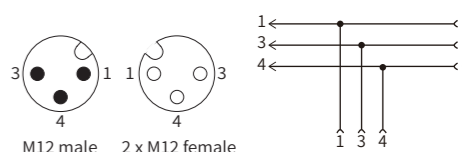
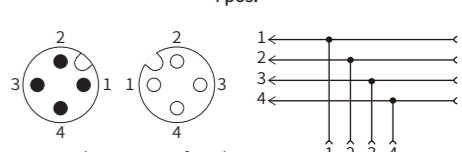
variable circuit, color is optional.

Technical characteristics			
Connector	M12 A-code	Tightening torque	2.0 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	TPU-black	Standard	IEC61076-2-104
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU-black		
Material(knurl)	Zinc die-cast/Nickel plated		
Material(seal)	FPM/FKM		

Technical characteristics			
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 250	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	TPU-black	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU+GF		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
 <p>YW-distributors, M12 A-code, M12 male to 2 x M12 female, Anti-vibration</p>	5-pole(+PE) male to 2 x 5-pole female	M12A-M5YW-5GNYE/2F5	11 03 005 6101	 <p>5-pole(+PE) male to 2 x 5-pole female</p> 
	5-pole(+PE) male to 2 x 5-pole(+PE) female	M12A-M5YW-5GNYE/2F5 -OAC-5GNYE	11 03 005 6102	
	5-pole(+PE) male to 2 x 5-pole(+PE) female	M12A-M5YW-5GNYE/2F5 -PAR-5GNYE	11 03 005 6103	
				<p>5-pole (+PE) male to 2 x 5-pole (+PE) female(OAC)</p>  <p>5-pole male(+PE) to 2 x 5-pole(+PE) female(PAR)</p> 

variable circuit, color is optional.

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
 <p>T-distributors, M12 A-code, M12 male to 2 x M12 female, Anti-vibration</p>	3 pole	M12A-M3T/2F3	11 03 003 4100	 <p>3 pos.</p>  <p>M12 male 2 x M12 female</p> <p>4 pos.</p>  <p>M12 male 2 x M12 female</p>
	4 pole	M12A-M4T/2F4	11 03 004 4100	


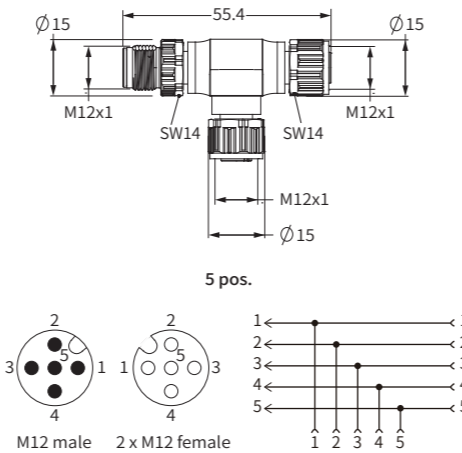
variable circuit, color is optional.

Technical characteristics


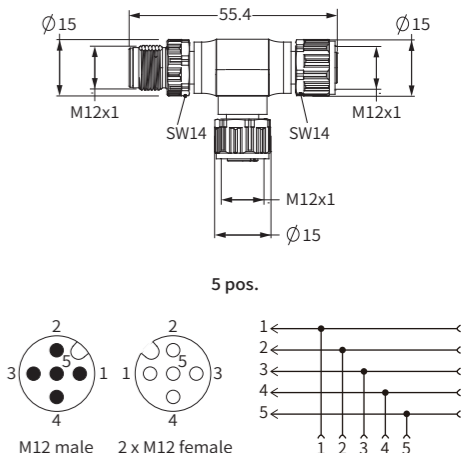
Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	TPU-black	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU+GF		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M12	Material(seal)	FPM/FKM
Version	A-code	Tightening torque	3 ... 4 Nm
Rated current	[A] 4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V] 60	Degree of protection (IP)	IP67
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ] ≤5	Pollution degree	3
Material(grip body)	TPU-blue	Standard	IEC61076-2-101
Material(contact)	Brass, gold plated	RoHS	compliant
Material(contact carrier)	TPU+GF		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>T-distributors, M12 A-code, M12 male to 2 x M12 female, Anti-vibration</b> 	5 pole	M12A-M5T/2F5	11 03 005 4100	


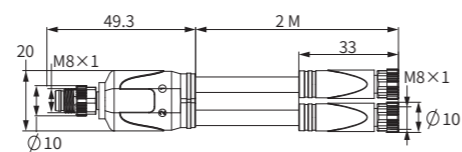
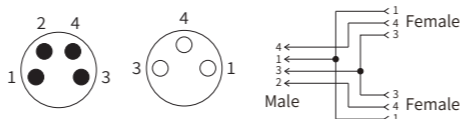
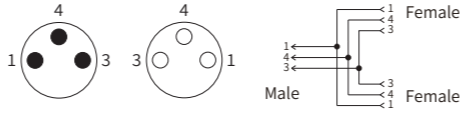
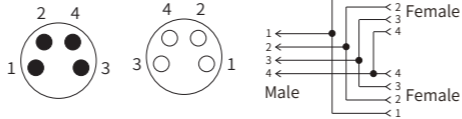
variable circuit, color is optional.

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>T-distributors, M12 A-code, M12 male to 2 x M12 female, DeviceNet, Anti-vibration</b> 	5 pole	M12A-M5T/2F5-DN10	11 03 005 4120	


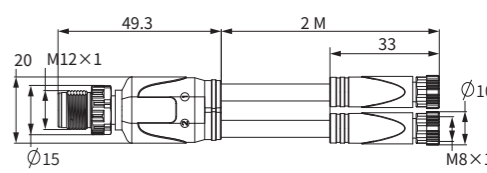
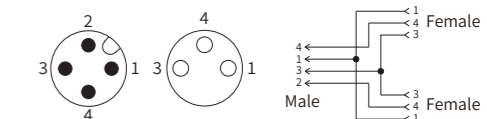
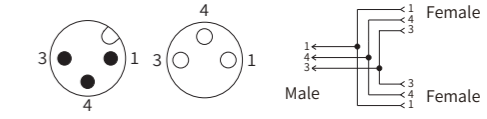
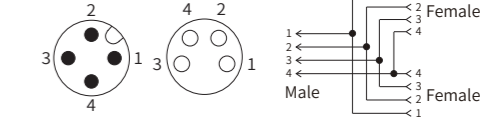
variable circuit, color is optional.

Technical characteristics				
Connector		M8 A-code	Tightening torque	2.0 Nm
Rated current	[A]	2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V]	60	Degree of protection (IP)	IP67
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ]	≤5	Pollution degree	3
Material(grip body)		TPU-black	Standard	IEC61076-2-104
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Technical characteristics				
Connector		M12 A-code to M8 A-code	Tightening torque	2.0 Nm
Rated current	[A]	2	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V]	60	Degree of protection (IP)	IP67
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ]	≤5	Pollution degree	3
Material(grip body)		TPU-black	Standard	IEC61076-2-104
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>Y-distributors, M8 A-code, M8 male to 2 x M8 female, two cable outlets, cable type: V, Anti-vibration</b> 	4-pole male to 2 x 3-pole female	M8A-M4Y/2F3-2L2V	11 02 004 5190	 <p><b>4-pole male to 2 x 3-pole female</b></p>  <p><b>3-pole male to 2 x 3-pole female(PAR)</b></p>  <p><b>4-pole male to 2 x 4-pole female(PAR)</b></p> 
	3-pole male to 2 x 3-pole female	M8A-M3Y/2F3-PAR-2L2V	11 02 003 5191	
	4-pole male to 2 x 4-pole female	M8A-M4Y/2F4-PAR-2L2V	11 02 004 5191	

variable cable length, circuit, color is optional.

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>Y-distributors, M12 A-code to M8 A-code, M12 male to 2 x M8 female, two cable outlets, cable type: V, Anti-vibration</b> 	4-pole male to 2 x 3-pole female	M12A-M4Y/2F3-M8A-2L2V	11 03 004 5191	 <p><b>4-pole male to 2 x 3-pole female</b></p>  <p><b>3-pole male to 2 x 3-pole female(PAR)</b></p>  <p><b>4-pole male to 2 x 4-pole female(PAR)</b></p> 
	3-pole male to 2 x 3-pole female	M12A-M3Y/2F3-PAR-M8A-2L2V	11 03 003 5191	
	4-pole male to 2 x 4-pole female	M12A-M4Y/2F4-PAR-M8A-2L2V	11 03 004 5192	


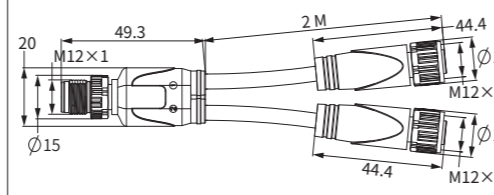
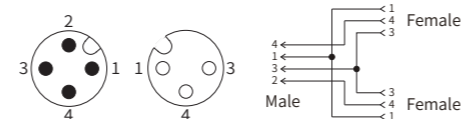
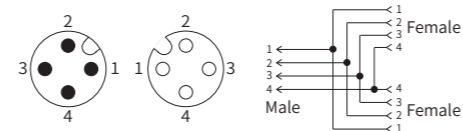
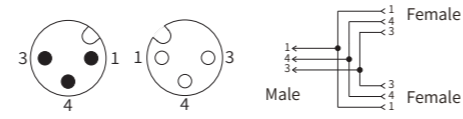
variable cable length, circuit, color is optional.

Y-distributors, two cable outlets, 3 and 4-poles, M12 A-code, Anti-vibration


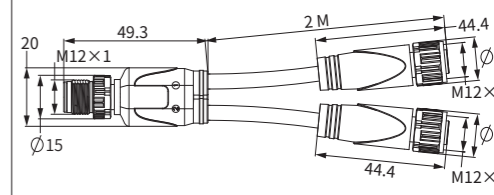
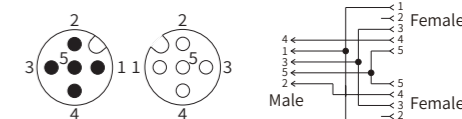
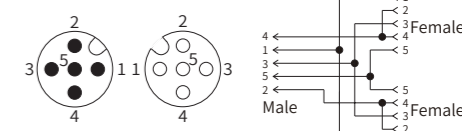
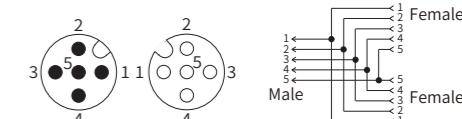
Y-distributors, two cable outlets, 5-pole(+PE) and 5-pole, M12 A-code, Anti-vibration

Technical characteristics				
Connector		M12 A-code	Tightening torque	2.0 Nm
Rated current	[A]	4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V]	250	Degree of protection (IP)	IP67
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ]	≤5	Pollution degree	3
Material(grip body)		TPU-black	Standard	IEC61076-2-104
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Technical characteristics				
Connector		M12 A-code	Tightening torque	2.0 Nm
Rated current	[A]	4	Limiting temperature	[°C] -25 ... +85
Rated voltage	[V]	60	Degree of protection (IP)	IP67
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Mating cycles	≥100
Contact resistance	[mΩ]	≤5	Pollution degree	3
Material(grip body)		TPU-black	Standard	IEC61076-2-104
Material(contact)		Brass, gold plated	RoHS	compliant
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		
Material(seal)		FPM/FKM		

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>Y-distributors, M12 A-code, M12 male to 2 x M12 female, two cable outlets, cable type: V, Anti-vibration</b> 	4-pole male to 2 x 3-pole female	M12A-M4Y/2F3-2L2V	11 03 004 5190	 <p><b>4-pole male to 2 x 3-pole female</b></p>  <p><b>4-pole male to 2 x 4-pole female(PAR)</b></p>  <p><b>3-pole male to 2 x 3-pole female(SER)</b></p> 
	4-pole male to 2 x 4-pole female	M12A-M4Y/2F4-PAR-2L2V	11 03 004 5193	
	3-pole male to 2 x 3-pole female	M12A-M3Y/2F3-SER-2L2V	11 03 003 5192	

variable cable length, circuit, color is optional.

Identification	No. of poles	Type	Part number	Drawing (dimensions in mm)
<b>Y-distributors, M12 A-code, M12 male to 2 x M12 female, two cable outlets, cable type: V, Anti-vibration</b> 	5-pole(+PE) male to 2 x 5-pole female	M12A-M5Y-5GNYE/2F5-2L2V	11 03 005 5191	 <p><b>5-pole(+PE) male to 2 x 5-pole female</b></p>  <p><b>5-pole(+PE) male to 2 x 5-pole(+PE) female(OAC)</b></p>  <p><b>5-pole male(+PE) to 2 x 5-pole(+PE) female(PAR)</b></p> 
	5-pole(+PE) male to 2 x 5-pole(+PE) female	M12A-M5Y-5GNYE/2F5-OAC-2L2V-5GNYE	11 03 005 5192	
	5-pole(+PE) male to 2 x 5-pole(+PE) female	M12A-M5Y-5GNYE/2F5-PAR-2L2V-5GNYE	11 03 005 5193	

variable cable length, circuit, color is optional.





Technical characteristics			
Connector	M12 A-code, M8 A-code	Material(seal)	FPM/FKM
Rated current(total)	[A] 6	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A] 2	Degree of protection (IP)	IP67
Rated voltage	[V] 10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(shell)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Zinc die-cast/Nickel plated		


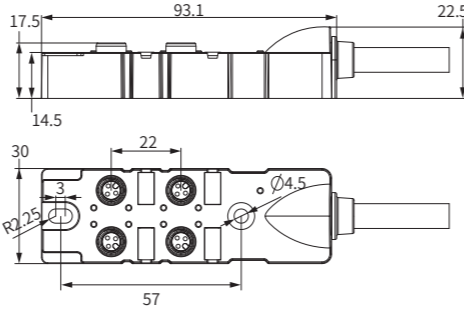
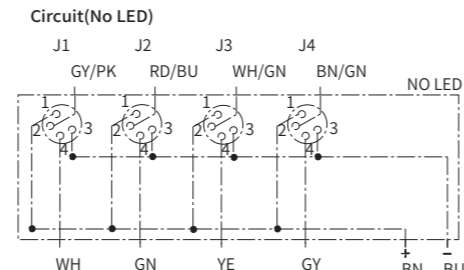
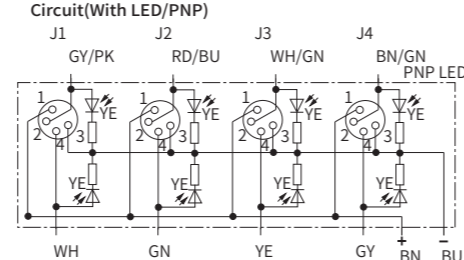
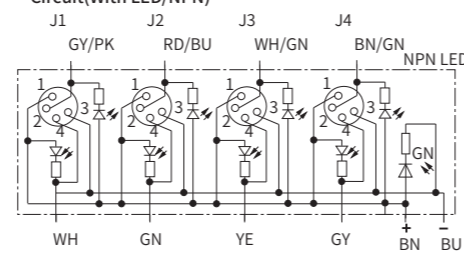
Technical characteristics			
Connector	M8 A-code	Material(knurl)	Zinc die-cast/Nickel plated
Rated current(total)	[A] 6	Material(seal)	FPM/FKM
Rated current(per slot)	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated current(LED)	[mA] 10	Degree of protection (IP)	IP67
Rated voltage	[V] 10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(shell)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		


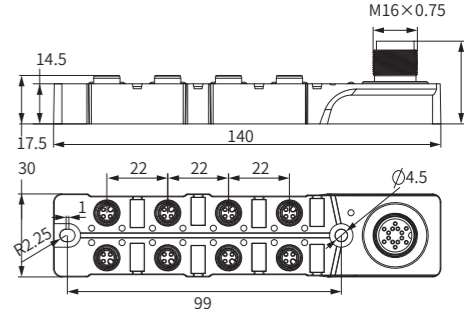
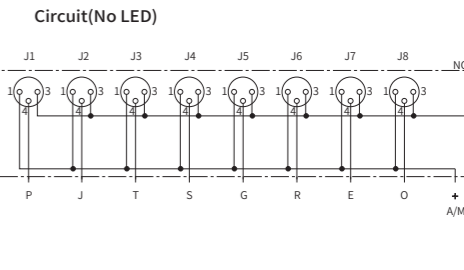
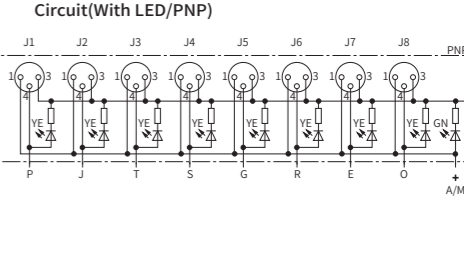
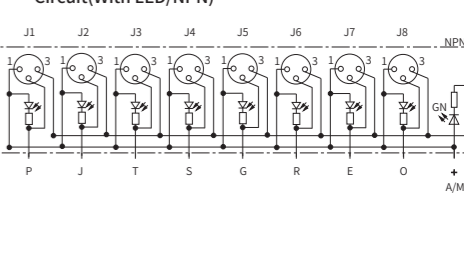
Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M8-Junction Boxes,</b> M12 A male-in connection, vertical, single signal per slot, <b>4 slots,</b> suitable connectors for master connection: M12A-F8.6S-LxV	No LED	M8JB-S4/8.6-M12/V	11 31 004 0100	<p><b>Circuit(No LED)</b></p> <p><b>Circuit(With LED/PNP)</b></p> <p><b>Circuit(With LED/NPN)</b></p>
	With LED/PNP	M8JB-S4-LED-PNP/8.6-M12/V	11 31 004 0101	
	With LED/NPN	M8JB-S4-LED-NPN/8.6-M12/V	11 31 004 0102	

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M8-Junction Boxes,</b> with master cable, single signal per slot, <b>4 slots,</b> cable type: V	No LED	M8JB-S4-L2V	11 31 004 0000	<p><b>Circuit(No LED)</b></p> <p><b>Circuit(With LED/PNP)</b></p> <p><b>Circuit(With LED/NPN)</b></p>
	With LED/PNP	M8JB-S4-LED-PNP-L2V	11 31 004 0001	
	With LED/NPN	M8JB-S4-LED-NPN-L2V	11 31 004 0002	

Technical characteristics			
Connector	M8 A-code	Material(knurl)	Zinc die-cast/Nickel plated
Rated current(total)	[A] 6	Material(seal)	FPM/FKM
Rated current(per slot)	[A] 2	Limiting temperature	[°C] -25 ... +85
Rated current(LED)	[mA] 10	Degree of protection (IP)	IP67
Rated voltage	[V] 10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(shell)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		

Technical characteristics			
Connector	M16 code, M8 A-code	Material(seal)	FPM/FKM
Rated current(total)	[A] 6	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A] 2	Degree of protection (IP)	IP67
Rated voltage	[V] 10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(shell)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M8-Junction Boxes, with master cable, double signal per slot, 4 slots, cable type: V</b> 	No LED	M8JB-D4-L2V	11 31 004 1000	 <p><b>Circuit(No LED)</b></p>  <p><b>Circuit(With LED/PNP)</b></p>  <p><b>Circuit(With LED/NPN)</b></p> 
	With LED/PNP	M8JB-D4-LED-PNP-L2V	11 31 004 1001	
	With LED/NPN	M8JB-D4-LED-NPN-L2V	11 31 004 1002	

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M8-Junction Boxes, M16 male-in connection, vertical, single signal per slot, 8 slots, suitable connectors for master connection: M16-F14.10S-LxV</b> 	No LED	M8JB-S8/14.1-M16/V	11 31 008 0110	 <p><b>Circuit(No LED)</b></p>  <p><b>Circuit(With LED/PNP)</b></p>  <p><b>Circuit(With LED/NPN)</b></p> 
	With LED/PNP	M8JB-S8-LED-PNP/14.1-M16/V	11 31 008 0111	
	With LED/NPN	M8JB-S8-LED-NPN/14.1-M16/V	11 31 008 0112	

Technical characteristics				
Connector		M8 A-code	Material(seal)	FPM/FKM
Rated current(total)	[A]	6	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A]	2	Degree of protection (IP)	IP67
Rated voltage	[V]	10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ]	≤5	RoHS	compliant
Material(shell)		Nylon-black		
Material(contact)		Brass, gold plated		
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		

Technical characteristics				
Connector		M8 A-code	Material(seal)	FPM/FKM
Rated current(total)	[A]	6	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A]	2	Degree of protection (IP)	IP67
Rated voltage	[V]	10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ]	≤5	RoHS	compliant
Material(shell)		Nylon-black		
Material(contact)		Brass, gold plated		
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M8-Junction Boxes,</b> with master cable, single signal per slot, <b>8 slots,</b> cable type: V	No LED	M8JB-S8-L2V	11 31 008 0000	
	With LED/PNP	M8JB-S8-LED-PNP-L2V	11 31 008 0001	
	With LED/NPN	M8JB-S8-LED-NPN-L2V	11 31 008 0002	

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M8-Junction Boxes,</b> with master cable, single signal per slot, <b>12 slots,</b> cable type: V	No LED	M8JB-S12-L2V	11 31 012 0000	
	With LED/PNP	M8JB-S12-LED-PNP-L2V	11 31 012 0001	
	With LED/NPN	M8JB-S12-LED-NPN-L2V	11 31 012 0002	

M12-Junction Boxes, 8 slots, M23 male-in connection horizontal, single signal

M12-Junction Boxes, 8 slots, M23 male-in connection vertical, single signal

Technical characteristics				
Connector		M12 A-code, M23 code	Material(seal)	FPM/FKM
Rated current(total)	[A]	9	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A]	2	Degree of protection (IP)	IP67
Rated voltage	[V]	10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ]	≤5	RoHS	compliant
Material(shell)		Nylon-black		
Material(contact)		Brass, gold plated		
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		

Technical characteristics				
Connector		M12 A-code, M23 code	Material(seal)	FPM/FKM
Rated current(total)	[A]	9	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A]	2	Degree of protection (IP)	IP67
Rated voltage	[V]	10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ]	≤5	RoHS	compliant
Material(shell)		Nylon-black		
Material(contact)		Brass, gold plated		
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M12-Junction Boxes, M23 male-in connection horizontal, single signal per slot, 8 slots,</b> suitable connectors for master connection: M23-F12.11S-LxV	No LED	M12JB-S8/12.11-M23/H	11 32 008 0200	<p><b>Circuit(No LED)</b></p> <p><b>Circuit(With LED/PNP)</b></p> <p><b>Circuit(With LED/NPN)</b></p>
	With LED/PNP	M12JB-S8-LED-PNP/12.11-M23/H	11 32 008 0201	
	With LED/NPN	M12JB-S8-LED-NPN/12.11-M23/H	11 32 008 0202	


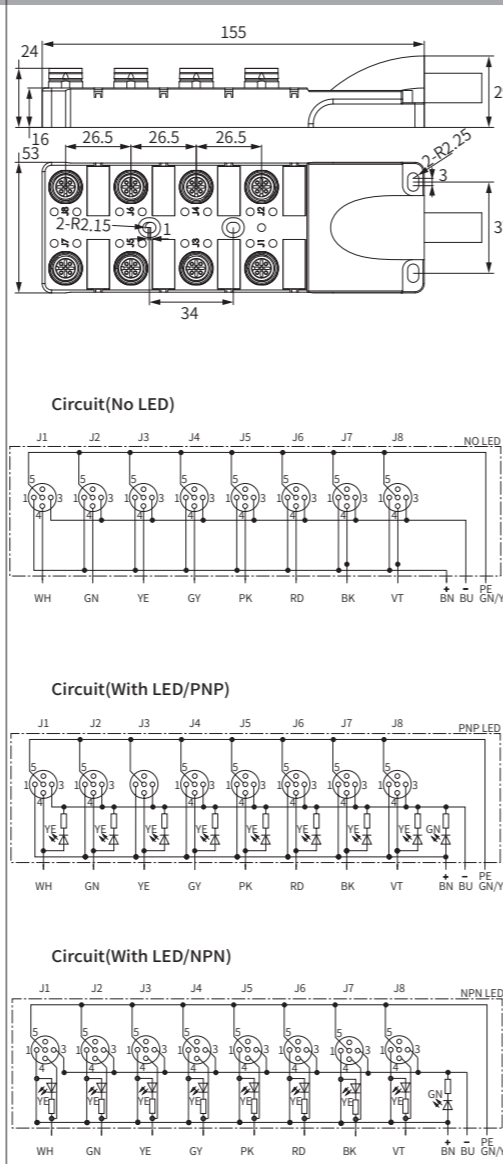
Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M12-Junction Boxes, M23 male-in connection vertical, single signal per slot, 8 slots,</b> suitable connectors for master connection: M23-F12.11S-LxV	No LED	M12JB-S8/12.11-M23/V	11 32 008 0100	<p><b>Circuit(No LED)</b></p> <p><b>Circuit(With LED/PNP)</b></p> <p><b>Circuit(With LED/NPN)</b></p>
	With LED/PNP	M12JB-S8-LED-PNP/12.11-M23/V	11 32 008 0101	
	With LED/NPN	M12JB-S8-LED-NPN/12.11-M23/V	11 32 008 0102	


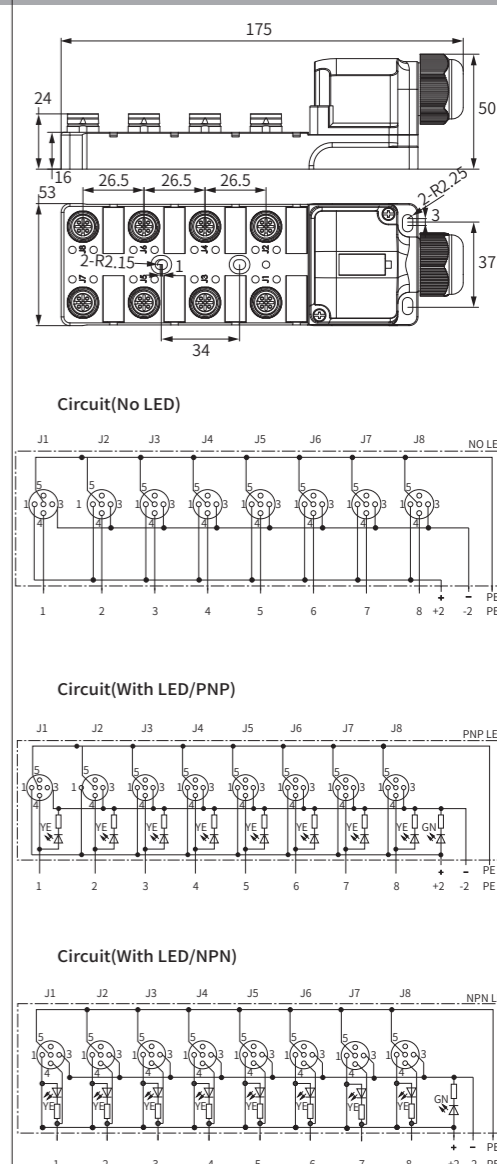
Technical characteristics

Connector	M12 A-code	Material(seal)	FPM/FKM
Rated current(total)	[A] 9	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A] 2	Degree of protection (IP)	IP67
Rated voltage	[V] 10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(shell)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M12 A-code	Material(seal)	FPM/FKM
Rated current(total)	[A] 9	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A] 2	Degree of protection (IP)	IP67
Rated voltage	[V] 10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(shell)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M12-Junction Boxes, with master cable, single signal per slot, 8 slots, cable type: V</b> 	No LED	M12JB-S8-L2V	11 32 008 0000	
	With LED/PNP	M12JB-S8-LED-PNP-L2V	11 32 008 0001	
	With LED/NPN	M12JB-S8-LED-NPN-L2V	11 32 008 0002	

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M12-Junction Boxes, with plug-in connection, single signal per slot, 8 slots</b> 	No LED	M12JB-S8-B	11 32 008 0300	
	With LED/PNP	M12JB-S8-LED-PNP-B	11 32 008 0301	
	With LED/NPN	M12JB-S8-LED-NPN-B	11 32 008 0302	

M12-Junction Boxes, 8 slots, M23 male-in connection horizontal, double signal


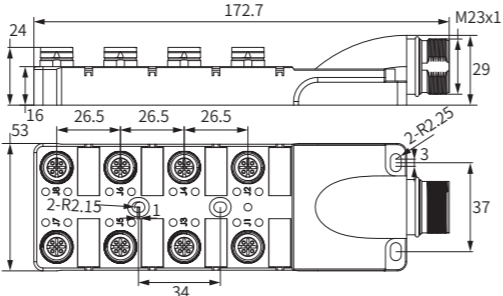
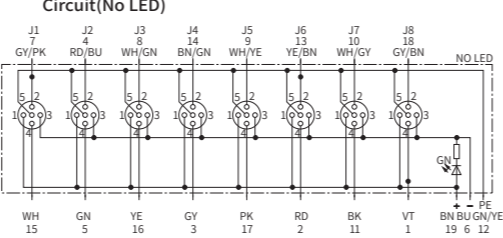
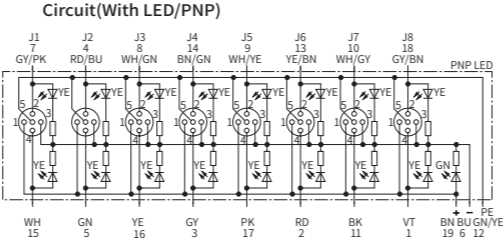
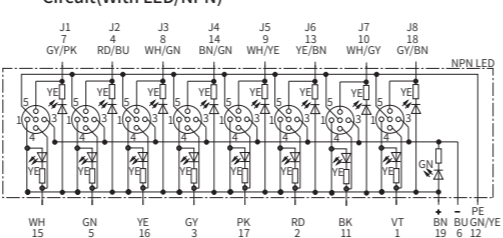
M12-Junction Boxes, 8 slots, M23 male-in connection vertical, double signal


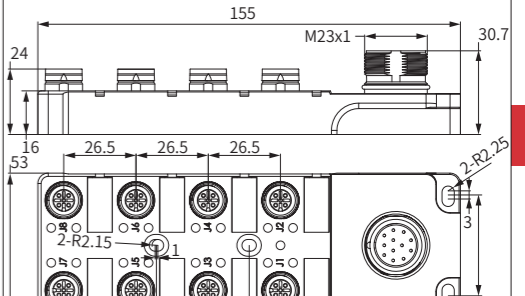
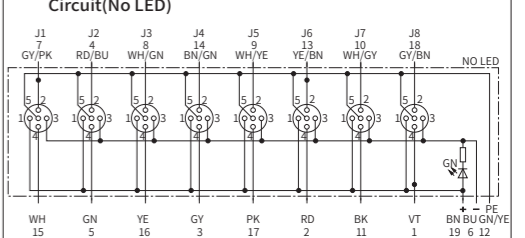
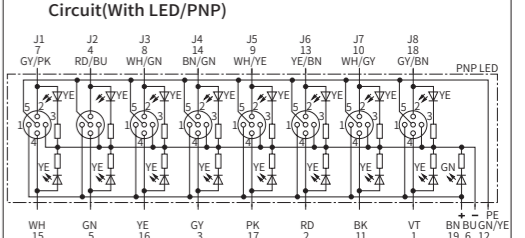
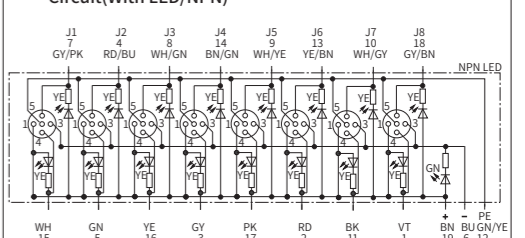
Technical characteristics

Connector	M12 A-code, M23 code	Material(seal)	FPM/FKM
Rated current(total)	[A] 9	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A] 2	Degree of protection (IP)	IP67
Rated voltage	[V] 10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(shell)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Zinc die-cast/Nickel plated		

Technical characteristics

Connector	M12 A-code, M23 code	Material(seal)	FPM/FKM
Rated current(total)	[A] 9	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A] 2	Degree of protection (IP)	IP67
Rated voltage	[V] 10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω] ≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ] ≤5	RoHS	compliant
Material(shell)	Nylon-black		
Material(contact)	Brass, gold plated		
Material(contact carrier)	TPU-black		
Material(knurl)	Zinc die-cast/Nickel plated		

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M12-Junction Boxes, M23 male-in connection horizontal, double signal per slot, 8 slots, suitable connectors for master connection: M23-F19S-LxV</b> 	No LED	M12JB-D8/19-M23/H	11 32 008 1200	 <b>Circuit(No LED)</b>  <b>Circuit(With LED/PNP)</b>  <b>Circuit(With LED/NPN)</b> 
	With LED/PNP	M12JB-D8-LED-PNP/19-M23/H	11 32 008 1201	
	With LED/NPN	M12JB-D8-LED-NPN/19-M23/H	11 32 008 1202	


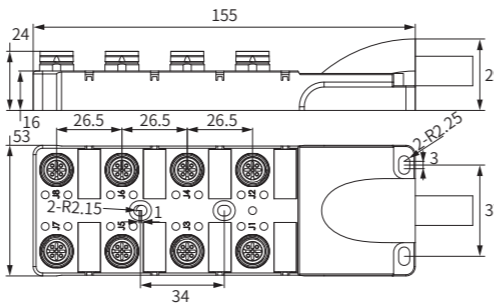
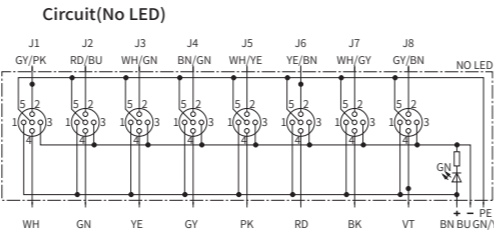
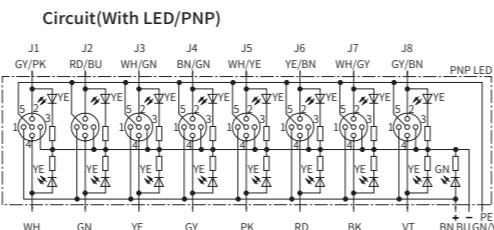
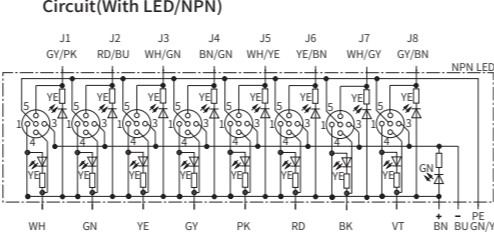
Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M12-Junction Boxes, M23 male-in connection vertical, double signal per slot, 8 slots, suitable connectors for master connection: M23-F12.11S-LxV</b> 	No LED	M12JB-D8/19-M23/V	11 32 008 1100	 <b>Circuit(No LED)</b>  <b>Circuit(With LED/PNP)</b>  <b>Circuit(With LED/NPN)</b> 
	With LED/PNP	M12JB-D8-LED-PNP/19-M23/V	11 32 008 1101	
	With LED/NPN	M12JB-D8-LED-NPN/19-M23/V	11 32 008 1102	


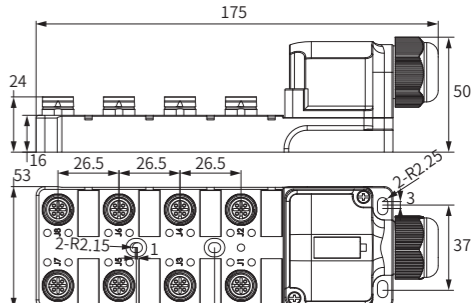
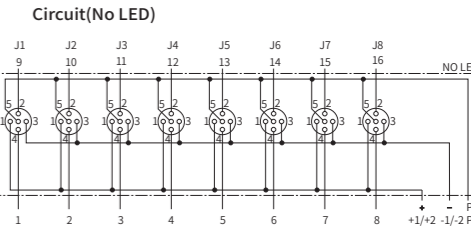
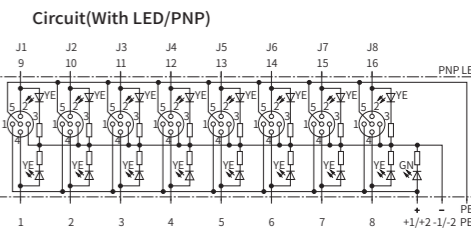
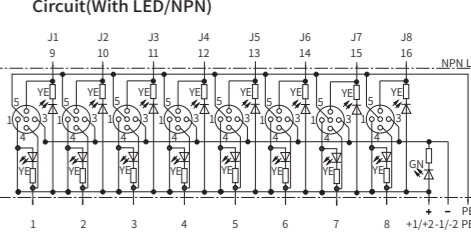
M12-Junction Boxes, 8 slots, with master cable, double signal

M12-Junction Boxes, 8 slots, with plug-in connection, double signal

Technical characteristics				
Connector		M12 A-code	Material(seal)	FPM/FKM
Rated current(total)	[A]	9	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A]	2	Degree of protection (IP)	IP67
Rated voltage	[V]	10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ]	≤5	RoHS	compliant
Material(shell)		Nylon-black		
Material(contact)		Brass, gold plated		
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		

Technical characteristics				
Connector		M12 A-code	Material(seal)	FPM/FKM
Rated current(total)	[A]	9	Limiting temperature	[°C] -25 ... +85
Rated current(per slot)	[A]	2	Degree of protection (IP)	IP67
Rated voltage	[V]	10 ... 30 VDC	Mating cycles	≥100
Insulation resistance	[Ω]	≥10 <sup>8</sup>	Pollution degree	3
Contact resistance	[mΩ]	≤5	RoHS	compliant
Material(shell)		Nylon-black		
Material(contact)		Brass, gold plated		
Material(contact carrier)		TPU-black		
Material(knurl)		Zinc die-cast/Nickel plated		

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M12-Junction Boxes, with master cable, double signal per slot, 8 slots, cable type: V</b> 	No LED	M12JB-D8-L2V	11 32 008 1000	 <p><b>Circuit(No LED)</b></p>  <p><b>Circuit(With LED/PNP)</b></p>  <p><b>Circuit(With LED/NPN)</b></p> 
	With LED/PNP	M12JB-D8-LED-PNP-L2V	11 32 008 1001	
	With LED/NPN	M12JB-D8-LED-NPN-L2V	11 32 008 1002	

Identification	Indication/Signal type	Type	Part number	Drawing (dimensions in mm)
<b>M12-Junction Boxes, with plug-in connection, double signal per slot, 8 slots</b> 	No LED	M12JB-D8-B	11 32 008 1300	 <p><b>Circuit(No LED)</b></p>  <p><b>Circuit(With LED/PNP)</b></p>  <p><b>Circuit(With LED/NPN)</b></p> 
	With LED/PNP	M12JB-D8-LED-PNP-B	11 32 008 1301	
	With LED/NPN	M12JB-D8-LED-NPN-B	11 32 008 1302	







V=PVC(black)
PVC cable is suitable for use in tooling machines, assembly lines, production lines and control systems.
U=PUR(black)
PUR cable offer good resistance to oil and chemicals, suitable for use in tooling machines, assembly lines, production lines, metal cutting, and has a high resistance to abrasion.
UT=PUR-carrier chain(black)
PUR-carrier chain cable is characterized by very long durability, has good resistance to oil, chemicals and abrasion, suitable use in drag chains and industrial robots. Minimal bending cycles are more than 5 million. The cables are halogen and PVC-free, no silicone or substances.
VK=PVC-irradiated, resistant to welding sparks(orange)
PVC- irradiated, resistant to welding sparks-cable offer very long durability, resistance to oils, chemicals, abrasion, temperature and welding sparks, are greatly improved. Safe welding range is 30 cm. The cables are suitable for robust use in welding robots.
UTK=PUR-carrier chain irradiated, resistant to welding sparks(orange)
PUR-carrier chain irradiated, resistant to welding sparks-cables, have great resistance to welding sparks. Safe welding range is 30 cm. The cables are suitable for robust use in welding robots, assembly/production lines and metal cutting.
SV=PVC-shielded(black)
PVC-shielded has excellent performance to against electromagnetic influences with 80% coverage. The cables are suitable to use in electromagnetic interference application.
SUT=PUR-carrier chain shielded(black)
PUR-shielded has excellent performance to against electromagnetic influences with 80% coverage. The cables are suitable to use in electromagnetic interference application.

Type	No. of poles	Use	Drawing	Structure	Wire insulation	Limiting temperature	Wire colors	Page
V	2 Pole	M12		2 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PVC	-40 ... +80 °C	BN BU	03-03 03-07
		M12 Shielded		2 x 0.34 mm <sup>2</sup> Shielding: braid	Ø5.2mm/BK PVC	-40 ... +80 °C	BN BU	03-11 03-15
	3 Pole	M8		3 x 0.25 mm <sup>2</sup>	Ø4.4mm/BK PVC	-40 ... +80 °C	BN BU BK	01-03 01-04
		M8 Shielded		3 x 0.25 mm <sup>2</sup> Shielding: braid	Ø4.4mm/BK PVC	-40 ... +80 °C	BN BU BK	01-05 01-06
		M12		3 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PVC	-40 ... +80 °C	BN BU BK	03-03 03-07
		M12 Shielded		3 x 0.34 mm <sup>2</sup> Shielding: braid	Ø5.2mm/BK PVC	-40 ... +80 °C	BN BU BK	03-11 03-15
	4 Pole	M8		4 x 0.25 mm <sup>2</sup>	Ø4.4mm/BK PVC	-40 ... +80 °C	BN WH BU BK	01-03 01-04
		M8 Shielded		4 x 0.25 mm <sup>2</sup> Shielding: braid	Ø4.4mm/BK PVC	-40 ... +80 °C	BN WH BU BK	01-05 01-06
		M12		4 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PVC	-40 ... +80 °C	BN WH BU BK	03-04 03-08
		M12 Shielded		4 x 0.34 mm <sup>2</sup> Shielding: braid	Ø5.2mm/BK PVC	-40 ... +80 °C	BN WH BU BK	03-12 03-16
	5 Pole	M12		5 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PVC	-40 ... +80 °C	BN WH BU BK GY	03-04 03-08
		M12 Shielded		5 x 0.34 mm <sup>2</sup> Shielding: braid	Ø5.2mm/BK PVC	-40 ... +80 °C	BN WH BU BK GY	03-12 03-16

Type	No. of poles	Use	Drawing	Structure	Wire insulation	Limiting temperature	Wire colors	Page
V	5 Pole + PE contact	M12		(4 x 0.34) + (1 x 0.5)mm <sup>2</sup>	Ø5.2mm/BK PVC	-40 ... +80 °C	BN WH BU BK GNYE	03-05 03-09
	8 Pole	M12		8 x 0.25 mm <sup>2</sup>	Ø6.2mm/BK PVC	-40 ... +80 °C	WH BN GN YE GY PK BU RD	03-06 03-10
		M12 Shielded		8 x 0.25 mm <sup>2</sup> Shielding: braid	Ø6.2mm/BK PVC	-40 ... +80 °C	WH BN GN YE GY PK BU RD	03-14 03-18
U	2 Pole	M12		2 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PUR	-40 ... +80 °C	BN BU	03-03 03-07
	3 Pole	M8		3 x 0.25 mm <sup>2</sup>	Ø4.4mm/BK PUR	-40 ... +80 °C	BN BU BK	01-03 01-04
		M12		3 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PUR	-40 ... +80 °C	BN BU BK	03-03 03-07
	4 Pole	M8		4 x 0.25 mm <sup>2</sup>	Ø4.4mm/BK PUR	-40 ... +80 °C	BN WH BU BK	01-03 01-04
		M12		4 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PUR	-40 ... +80 °C	BN WH BU BK	03-04 03-08
	5 Pole	M12		5 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PUR	-40 ... +80 °C	BN WH BU BK GY	03-04 03-08
	5 Pole + PE contact	M12		(4 x 0.34) + (1 x 0.5)mm <sup>2</sup>	Ø5.2mm/BK PUR	-40 ... +80 °C	BN WH BU BK GNYE	03-05 03-09
	8 Pole	M12		8 x 0.25 mm <sup>2</sup>	Ø6.2mm/BK PUR	-40 ... +80 °C	WH BN GN YE GY PK BU RD	03-06 03-10
UT	2 Pole	M12		2 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN BU	03-03 03-07

Type	No. of poles	Use	Drawing	Structure	Wire insulation	Limiting temperature	Wire colors	Page
UT	2 Pole	M12 Shielded		2 x 0.34 mm <sup>2</sup> Shielding: braid	Ø5.2mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN BU	03-11 03-15
	3 Pole	M8		3 x 0.25 mm <sup>2</sup>	Ø4.4mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN BU BK	01-03 01-04
		M8 Shielded		3 x 0.25 mm <sup>2</sup> Shielding: braid	Ø4.4mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN BU BK	01-05 01-06
		M12		3 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN BU BK	03-03 03-07
		M12 Shielded		3 x 0.34 mm <sup>2</sup> Shielding: braid	Ø5.2mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN BU BK	03-11 03-15
	4 Pole	M8		4 x 0.25 mm <sup>2</sup>	Ø4.4mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN WH BU BK	01-03 01-04
		M8 Shielded		4 x 0.25 mm <sup>2</sup> Shielding: braid	Ø4.4mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN WH BU BK	01-05 01-06
		M12		4 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN WH BU BK	03-04 03-08
		M12 Shielded		4 x 0.34 mm <sup>2</sup> Shielding: braid	Ø5.2mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN WH BU BK	03-12 03-16
	5 Pole	M12		5 x 0.34 mm <sup>2</sup>	Ø5.2mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN WH BU BK GY	03-04 03-08
		M12 Shielded		5 x 0.34 mm <sup>2</sup> Shielding: braid	Ø5.2mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN WH BU BK GY	03-12 03-16
	5 Pole + PE contact	M12		(4 x 0.34) + (1 x 0.5)mm <sup>2</sup>	Ø5.2mm/BK PUR-carrier chain, bending cycles ≥ 5 million	-40 ... +80 °C	BN WH BU BK GNYE	03-05 03-09

Type	No. of poles	Use	Drawing	Structure	Wire insulation	Limiting temperature	Wire colors	Page
UT	8 Pole	M12		8 x 0.25 mm <sup>2</sup>	Ø6.2mm/BK PVC	-40 ... +80 °C	WH BN GN YE GY PK BU RD	03-06 03-10
		M12 Shielded		8 x 0.25 mm <sup>2</sup> Shielding: braid	Ø6.2mm/BK PVC	-40 ... +80 °C	WH BN GN YE GY PK BU RD	03-14 03-18
V/DN10	5 Pole	M12		(2 x 0.25) + (2 x 0.34)mm <sup>2</sup> + shield; Shielding: foil, braid, drain	Ø6.8mm/GY PVC	-20 ... +80 °C	Shield RD(V+) BK(V-) WH(CAN_H) BU(CAN_L)	05-01 05-02
V/DN32	5 Pole	M12		(2 x 0.25) + (2 x 0.34)mm <sup>2</sup> + shield; Shielding: foil, braid, drain	Ø6.8mm/GY PVC-carrier chain, bending cycles ≥ 2 million	Fixed: -20 ... +80 °C Mobile: -10 ... +80 °C	Shield RD(V+) BK(V-) WH(CAN_H) BU(CAN_L)	05-01 05-02

