

22260554	DATA SHEET	
Valid from: 09.01.2024	AB-C3-M12MS-(L*)PUR-BI-1L-S	

Product description

- Sensor/actuator cable, 3-pins, PUR halogen-free, black
- Straight M12-plug on valve connector, type BI
- Incl. Z - diode
- 1 LED



General characteristics

Number of pins	3
Ambient temperature	-25 °C to +90 °C (-4 °F to 185 °F) (plug / jack) -20 °C to +85 °C (-4 °F to 185 °F) (valve connector) -40 °C to +80 °C (-40 °F to 176 °F) (cable, fixed installation) -20 °C to +80 °C (-4 °F to 176 °F) (cable, movable installation)
Degree of protection	IP 65 / IP 67
Coding	A - standard
Protection circuit/component	Z - diode
Tightening torque	0,6 Nm (valve-connector) 0,4 Nm (M12-connector)
Plugging cycles	≥ 100 (M12-connector)

Variation

Article number	Description	Length [m]	Configuration
22260554	AB-C3-M12MS-0,3PUR-BI-1L-S	0,3	straight - BI
22260555	AB-C3-M12MS-0,6PUR-BI-1L-S	0,6	straight - BI
22260556	AB-C3-M12MS-1,0PUR-BI-1L-S	1	straight - BI
22260557	AB-C3-M12MS-2,0PUR-BI-1L-S	2	straight - BI
22261065	AB-C3-M12MS-10,0PUR-BI-1L-S	10	straight - BI

Additional note

Data sheet also valid for variant lengths. Other lengths on request.

Electrical properties

Rated voltage	24 V
Rated current	4 A
Overvoltage category	III
Pollution degree	3

Mechanical properties

Valve connector

Contact, material	CuSn
Contact insert, material	PA 6.6
Contact surface, material	Sn
Housing	TPU

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Plug

Inflammability class in accordance with UL 94	HB
Contact, material	CuSn
Contact carrier, material	TPU GF
Contact surface, material	Ni / Au
Knurl, material	Zinc die-cast, nickel-plated
Grip body, material	TPU
Seal, material	TPU (seal injected)

Line

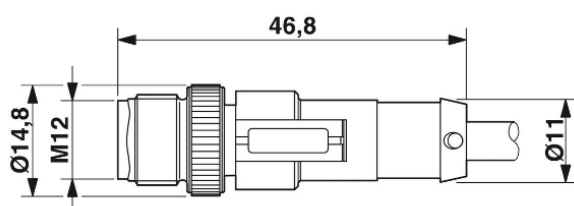
Cable construction	3 x AWG20/28
Signal line, construction	28 x 0,15 mm
Conductor cross-section	0,50 mm ²
Conductor diameter including isolation	1,5 mm ± 0,05 mm (Signal line)
Cable outer diameter	4,5 mm ± 0,2 mm
Insulation color	black 1, black 2, green/yellow
Sheath color	black – grey, RAL 7021
Number of bending cycles	15.000.000
Bending radius	50 mm
Traveling distance	0,9 m
Traveling speed	5 m/s
Acceleration	30 m/s ²
Cable weight	30 kg/km
Outer coating, material	PUR
Wire insulation, material	PP
Insulation resistance	min. 20 MΩ*km
Conductor resistance	39 Ω/km (at 20 °C)
Flame resistance	acc. to DIN VDE 0482 DIN EN 50265-2-1
Halogen-free	acc. to DIN VDE 0472 Part 815
Oil resistance	acc. to DIN EN 60811-2-1
Other resistance	largely oil-resistant limited UV resistance acc. to DIN EN ISO 4892-2-A

Standards/Approvals

Product standard, valve-connector	EN 175301-803
Product standard, M12-connector	IEC 61076-2-101
UL-Listed, E-File	E249137

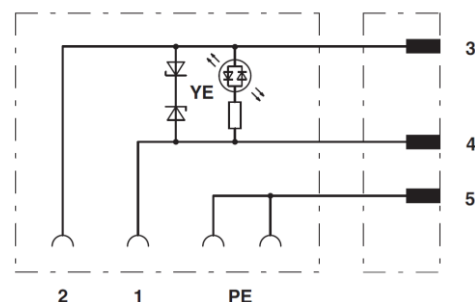
Technical drawing

Dimensional drawing



Plug M12 x 1, straight, A-coding

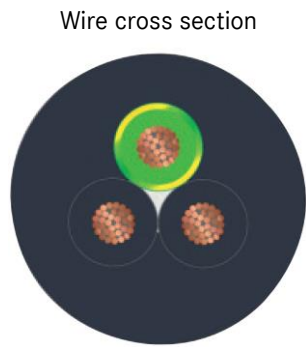
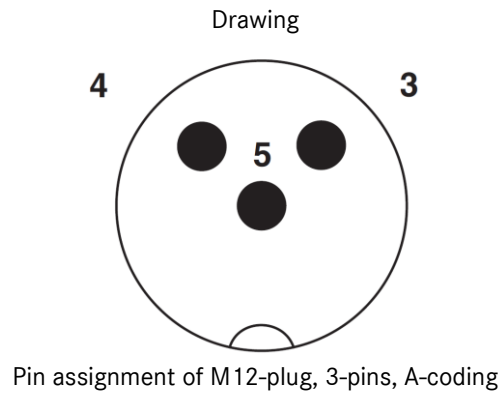
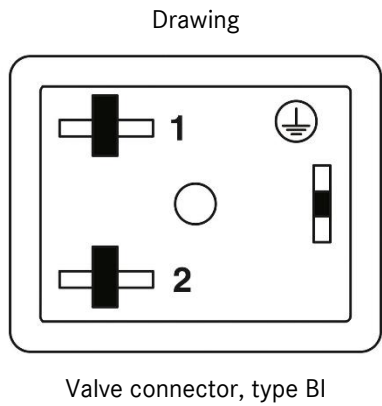
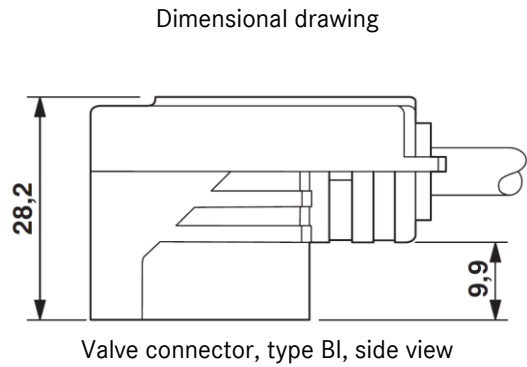
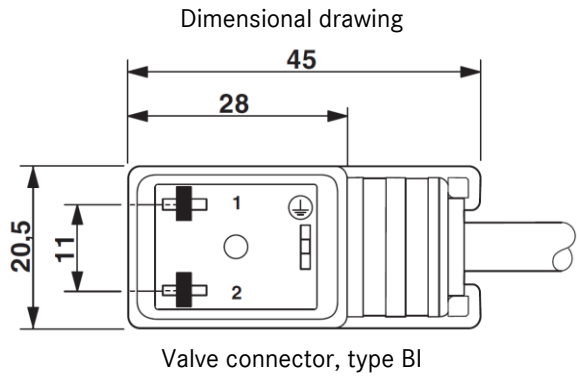
Circuit diagram



Pin assignment between M12-plug and valve connector

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Application range
Automation, Tool shop, Mechanical Engineering and plant engineering

Note
Photographs are not true to scale and do not represent detailed images of the respective products.