

22260562	DATA SHEET	
Valid from: 10.01.2024	AB-C3-M12MS-(L*)PUR-CI-1L-S	

Product description

- Sensor/actuator cable, 3-pins, PUR halogen-free, black
- Straight M12-plug on valve connector, CI (9,4 mm)
- 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
22260562	AB-C3-M12MS-0.3PUR-CI-1L-S	0,3	straight - CI (9,4 mm)
22260563	AB-C3-M12MS-0.6PUR-CI-1L-S	0,6	straight - CI (9,4 mm)
22260564	AB-C3-M12MS-1.0PUR-CI-1L-S	1	straight - CI (9,4 mm)
22260565	AB-C3-M12MS-2.0PUR-CI-1L-S	2	straight - CI (9,4 mm)

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

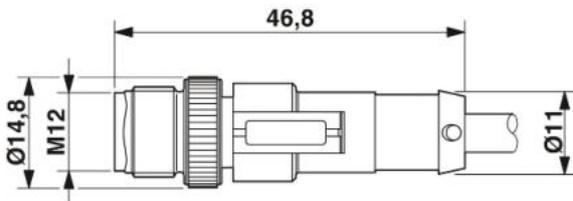
Cable construction	3 x AWG20/28
Signal line, construction	28 x 0,15 mm
Conductor cross-section	0,50 mm ²
Conductor diameter including isolation	1,5 mm ± 0,05 mm (Signal line)
Cable outer diameter	4,5 mm ± 0,2 mm
Insulation color	black 1, black 2, green/yellow
Sheath color	black – grey, RAL 7021
Number 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

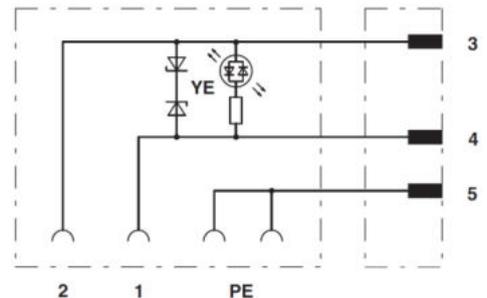
Technical drawing

Dimensional drawing



Plug M12 x 1, straight, A-coding

Circuit diagram

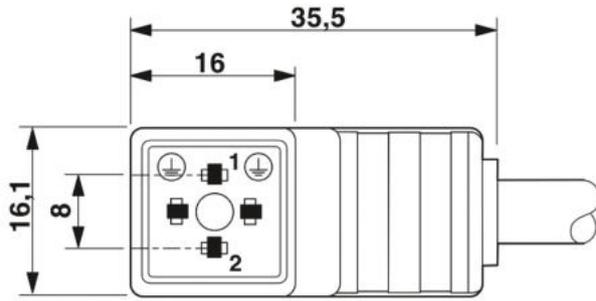


Pin assignment between M12-plug and valve connector

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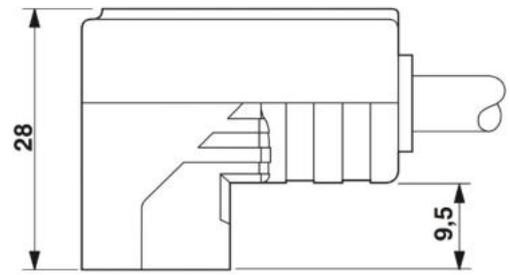
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Dimensional drawing



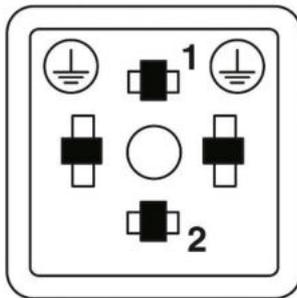
Valve connector, type CI

Dimensional drawing



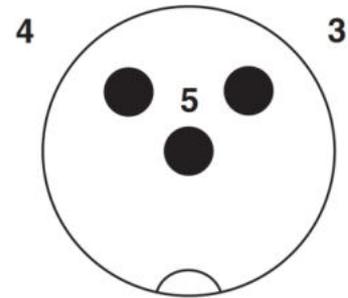
Valve connector, type CI, side view

Drawing



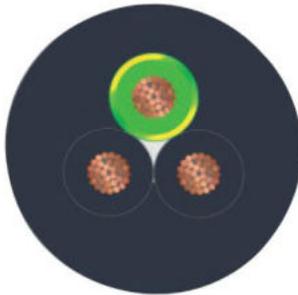
Valve connector, type CI

Drawing



Pin assignment of M12-plug, 3-pins, A-coding

Wire cross section



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.

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