

SAC-3P-M12MS/2,0-PUR/BI-1L-Z


Order No.: 1438626

The illustration shows the SPEEDCON version



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Sensor/Actuator cable, 3-position, PUR halogen-free, Black-gray RAL 7021, Plug, straightLink:M12, A-coded, on BI valve connector (11 mm), with 1 LED, connected with Z diode, Cable length: 2 m

Commercial data	
GTIN (EAN)	4 046356 496667 
Note	Made-to-order
sales group	D114
Pack	1 pcs.
Customs tariff	85444290

Product notes

WEEE/RoHS-compliant since:
02/24/2009



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Technical data	
General data	
Rated current at 40°C	4 A
Rated voltage	24 V
Number of positions	3
Volume resistance	≤ 5 mΩ

Insulation resistance	≥ 100 MΩ
Length of cable	2 m
Stripping length of the free conductor end	50 mm

General characteristics

Coding	A - standard
Surge voltage category	III
Pollution degree	3
Degree of protection	IP65/IP67
Insertion/withdrawal cycles	≥ 100
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU
Contact material	CuSn
Contact surface material	Sn
Valve plug contact insert material	PA 66
Material, housing, valve plug	TPU
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	TPU (Seal molded)
Status display	1 LED
Protective circuit/component	Z diode

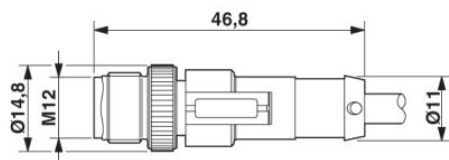
Conductor data

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM Style	20549
Conductor cross section	0.5 mm ²
AWG signal line	20
Conductor structure signal line	28x 0.15 mm
AWG power supply	26
Core diameter including insulation	1.46 mm ±0.02 mm
External cable diameter	4.5 mm ±0.15 mm
Wire colors	Black 1, black 2, green/yellow
External sheath, color	Black-gray RAL 7021

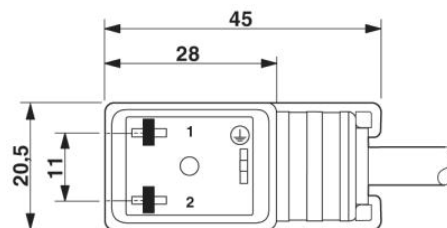
Insulation resistance	Min. 20 MΩ*km
Conductor resistance	max. 39 Ω/km (at 20°C)
Nominal voltage, conductor	≤ 300 V
Test voltage, conductor	≥ 3000 V
Overall twist	3 wires, twisted
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	30 kg/km
Smallest bending radius, fixed installation	22.5 mm
Number of bending cycles	15000000
Bending radius	50 mm
Traversing path	0.9 m
Traversing rate	5 m/s
Acceleration	30 m/s ²
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -20 °C ... 80 °C (cable, flexible installation)
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish
Flame resistance	in accordance with DIN UL-Style 20549
Halogen-free	in accordance with DIN VDE 0472 part 815
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant

Diagrams/Drawings

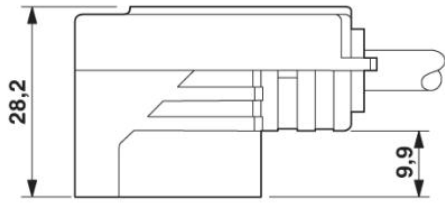
Dimensioned drawing



M12 x 1 male connector, straight

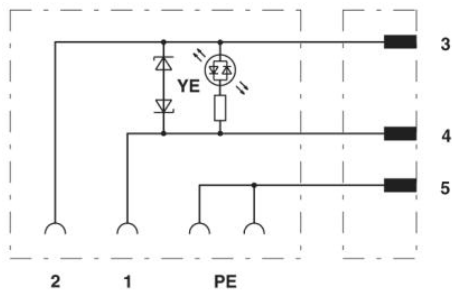


Valve connector, type BI



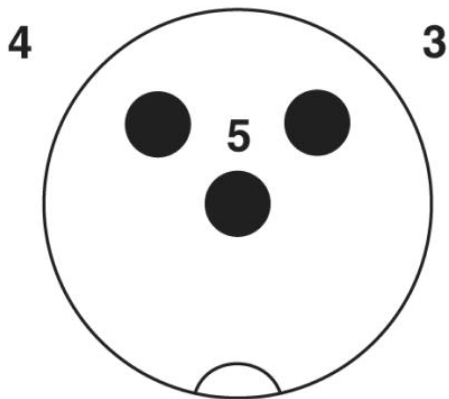
Valve connector, type BI, side view

Circuit diagram



Contact assignment of M12 plug and valve connector

Schematic diagram



Pin assignment M12 plug, 3-pos., valve connector

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