

SAC-3P-MR/ 0,3-PUR/A-1L-Z SCO

Order No.: 1434934



Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray RAL 7021, Plug, angled M12-SPEEDCON, A-coded, on Valve plug A, with 1 LED, connected with Z diode, Cable length: 0.3 m



Commercial data	
EAN	 4 046356 413329
Pack	1
Customs tariff	85444290
Catalog page information	Page 106 (PC-2009)

Product notes

WEEE/RoHS-compliant since:
2008-05-17



Technical data

General data	
Rated current at 40°C	4 A
Rated voltage	24 V
Number of positions	3
Volume resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	0.3 m

Ambient temperature (operation)	-25 °C ... 90 °C (Male connector / female connector)
	-20 °C ... 80 °C (valve plug)

General characteristics

Standards/regulations	M12 connector IEC 61076-2-101
Coding	A - standard
Surge voltage category	III
Pollution degree	3
Degree of protection	IP65/IP67
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
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

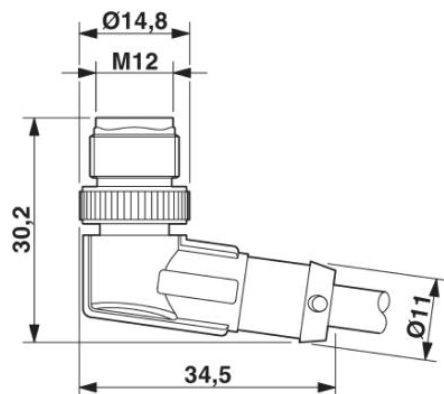
Conductor data

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	LI9Y11Y-HF
Conductor cross section	0.5 mm ²
AWG signal line	20
Conductor structure signal line	28x 0.15 mm
Core diameter including insulation	1.5 mm ±0.05 mm
External cable diameter	4.50 mm
Wire colors	Black 1, black 2, green/yellow
External sheath, color	Black-gray RAL 7021
Insulation resistance	≥ 20 MΩ*km
Conductor resistance	≤ 39 Ω/km
Nominal voltage, conductor	≤ 300 V
Test voltage, conductor	1200 V

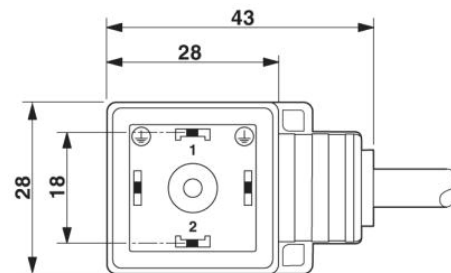
Overall twist	3 wires, twisted
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	30 kg/km
Smallest bending radius, fixed installation	22.5 mm
Number of bending cycles	4000000
Bending radius	45 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 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

Drawings

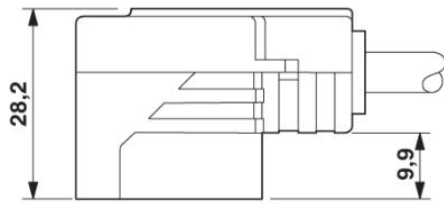
Dimensioned drawing



M12 x 1 male connector, angled

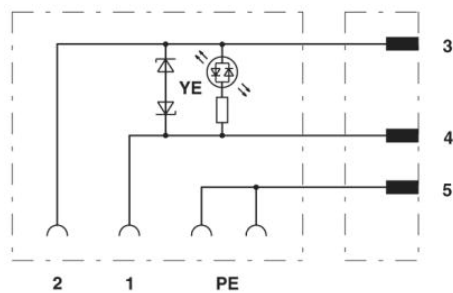


Valve plug, type A



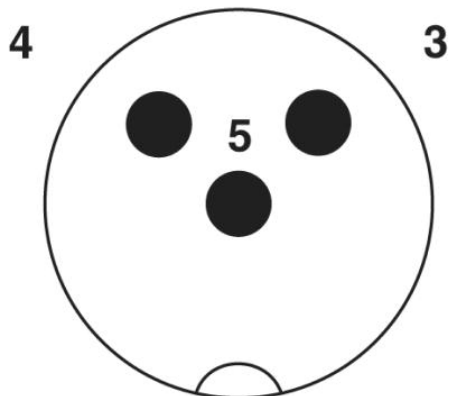
Valve connector, type A, side view

Circuit diagram

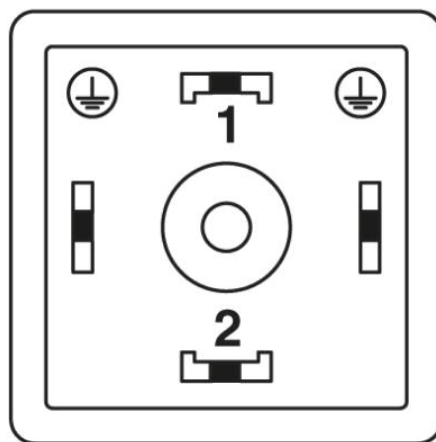


Contact assignment of M12 plug and valve connector

Schematic diagram



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



Valve connector pin assignment, type A