



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## SAC-3P-M12MS/3,0-PUR/A-1L-Z

Order No.: 1400771

The illustration shows the SPEEDCON version

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1400771>

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

### Commercial data

GTIN (EAN)	4046356509534
sales group	D113
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.121 KG

### Product notes

WEEE/RoHS-compliant since:  
05/13/2009



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

### 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	$\geq 100 \text{ M}\Omega$
Length of cable	3 m

**General characteristics**

Coding	A - standard
Surge voltage category	III
Pollution degree	3
Degree of protection	IP65/IP67
Insertion/withdrawal cycles	$\geq 100$
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

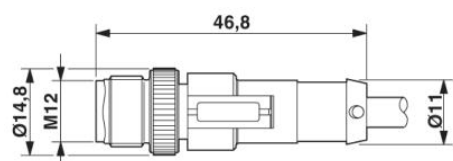
**Conductor data**

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
Conductor cross section	$0.5 \text{ mm}^2$
AWG signal line	20
Conductor structure signal line	28x 0.15 mm
Core diameter including insulation	$1.5 \text{ mm} \pm 0.05 \text{ mm}$
External cable diameter	4.50 mm
Wire colors	Black 1, black 2, green/yellow
External sheath, color	Black-gray RAL 7021
Insulation resistance	$\geq 20 \text{ M}\Omega \cdot \text{km}$
Conductor resistance	$\leq 39 \Omega/\text{km}$
Nominal voltage, conductor	$\leq 300 \text{ V}$

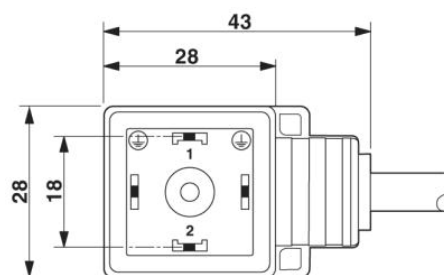
Test voltage, conductor	1200 V
Overall twist	3 wires, twisted
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	30 kg/km
Smallest bending radius, fixed installation	22.5 mm
Number of bending cycles	4000000
Bending radius	45 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
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

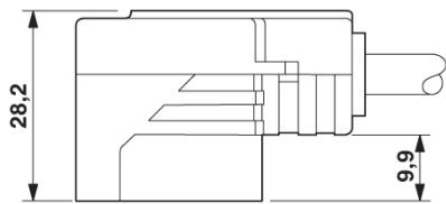
### Dimensioned drawing



M12 x 1 male connector, straight

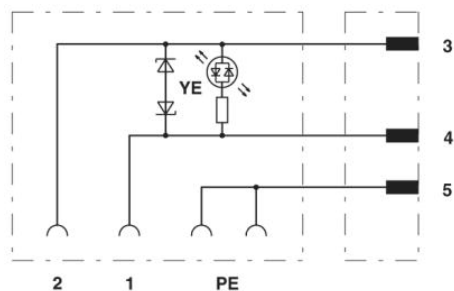


Valve plug, type A



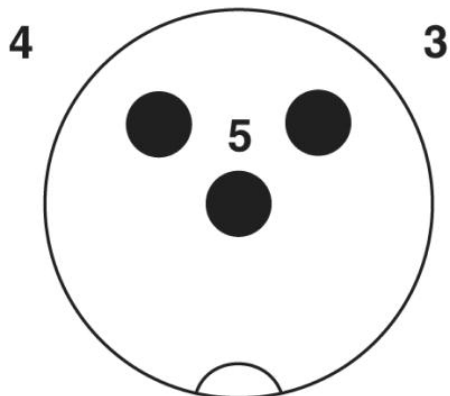
Valve connector, type A, side view

Circuit diagram

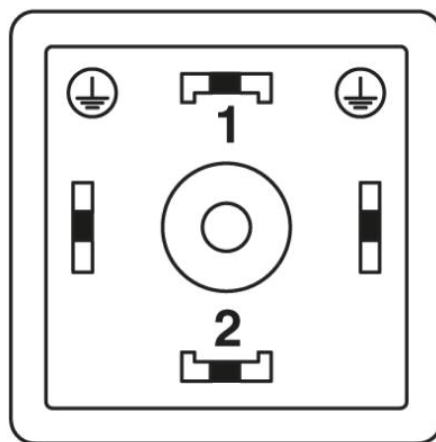


Contact assignment of M12 plug and valve connector

Schematic diagram



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



Valve connector pin assignment, type A

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