

**SAC-3P-M12MS/1,5-PUR/M 8FS**

Order No.: 1668810

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1668810>

Sensor/actuator cable, 3-pos., PUR halogen-free black, straight M12  
plug, on straight M8 socket, cable length: 1.5 m

**Commercial data**

EAN	4017918128623
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.047 KG
Catalog page information	Page 76 (PC-2009)

**Product notes**

WEEE/RoHS-compliant since:  
12/01/2005



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**Technical data****General data**

Nominal current $I_N$	4 A
Nominal voltage $U_N$	60 V
Number of positions	3
Volume resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$

Length of cable	1.5 m
Ambient temperature (operation)	-25 °C ... 90 °C (plug/socket)
	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

#### General characteristics

Coding	A - standard
Inflammability class acc. to UL 94	HB
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP68/IP69K
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, (nickel-plated)
Sealing material	NBR
Status display	No

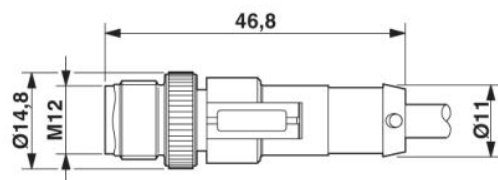
#### Conductor data

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
Conductor cross section	0.25 mm <sup>2</sup>
AWG signal line	24
Conductor structure, signal line	32 x 0.10 mm
Core diameter including insulation	1.15 mm ±0.05 mm
Thickness, insulation	≥ 0.38 mm (Core insulation)
External cable diameter	4.40 mm
Wire colors	Brown, blue, black
External sheath, color	Black-gray RAL 7021
Insulation resistance	≥ 100 GΩ*km
Conductor resistance	≤ 77.6 MΩ/km
Nominal voltage, conductor	300 V
Test voltage, conductor	4000 V
Overall twist	3 wires, twisted

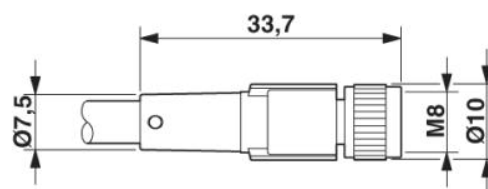
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	23 kg/km
Smallest bending radius, movable installation	44 mm
Number of bending cycles	4000000
Bending radius	44 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish
Flame resistance	As per UL-Style 20549
Freedom from halogen	As per DIN VDE 0472 part 815
Resistance to oil	complying with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant

## Drawings

### Dimensioned drawing



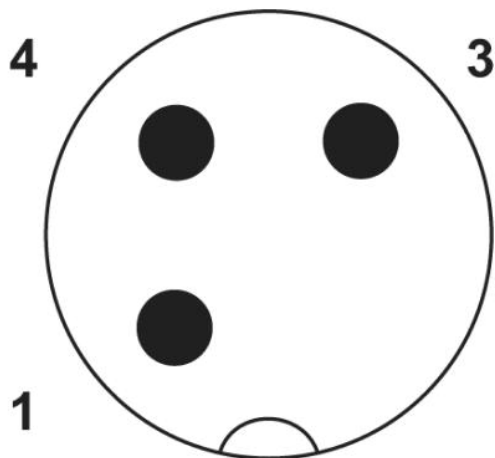
M12 x 1 male connector, straight



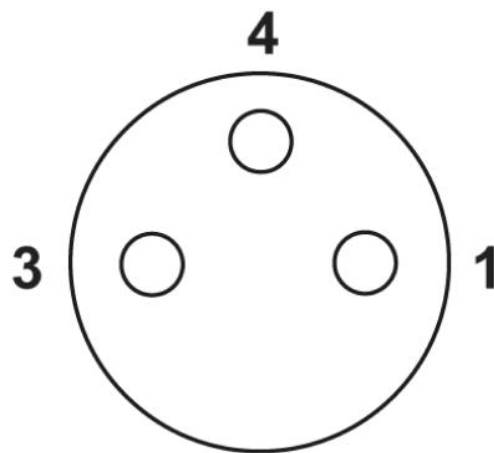
Socket M8 x 1, straight

Schematic diagram

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Pin assignment M12 plug, 3-pos., A-coded,  
view male side



Pin assignment M8 socket, 3-pos., view female  
side

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