


**SAC-3P-M 8MS/1,5-PUR/M12FS**

Order No.: 1682320

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1682320>

Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray  
RAL 7021, Plug, straight M8, on Socket, straight M12, A-coded, Cable  
length: 1.5 m

**Commercial data**

GTIN (EAN)	 4 017918 158989
sales group	D130
Pack	1 pcs.
Customs tariff	85444290
Catalog page information	Page 76 (PC-2009)

**Product notes**WEEE/RoHS-compliant since:  
12/01/2005

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

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	3
Volume resistance	≤ 5 mΩ

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Insulation resistance	≥ 100 MΩ
Length of cable	1.5 m
Ambient temperature (operation)	-25 °C ... 90 °C (Male connector / female connector)

**General characteristics**

Standards/regulations	M12 connector IEC 61076-2-101
Coding	A - standard
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP68/IP69K
Insertion/withdrawal cycles	≥ 100
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 Ω/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>
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -5 °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

#### Certificates / Approvals

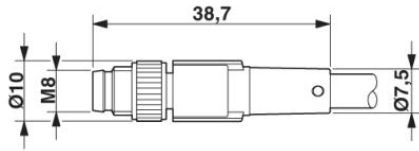


Certification

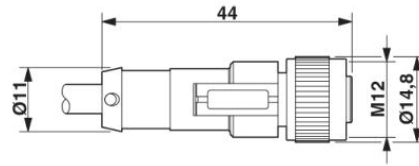
CUL Listed, GOST, UL Listed

## Diagrams/Drawings

### Dimensioned drawing

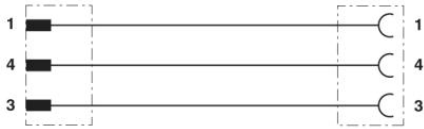


M8 x 1 male connector, straight version



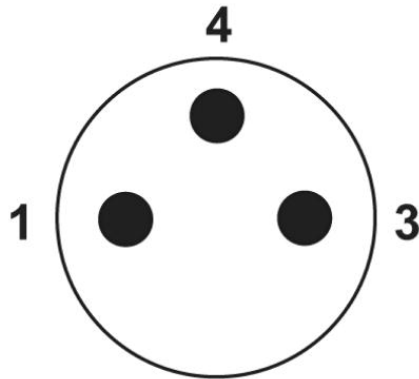
M12 x 1 female connector, straight

### Circuit diagram

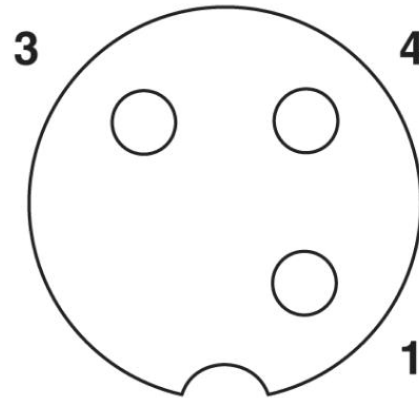


Contact assignment of M8 plugs / M12 sockets

### Schematic diagram



Pin assignment M8 plug, 3-pos., view male side



Pin assignment M12 socket, 3-pos., A-coded, view female side

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