


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

Order No.: 1681664

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1681664>

Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M8, on Free conductor end, Cable length: 1.5 m

Commercial data	
GTIN (EAN)	 4 017918 158323
sales group	D130
Pack	1 pcs.
Customs tariff	85444290
Catalog page information	Page 74 (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
Insulation resistance	≥ 100 MΩ

Length of cable	1.5 m
Stripping length of the free conductor end	50 mm
Ambient temperature (operation)	-25 °C ... 90 °C (Male connector / female connector)

#### General characteristics

Standards/regulations	M8 connector IEC 61076-2-104
Coding	A - standard
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)
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

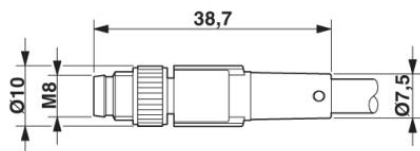


Certification

CUL Listed, GOST, UL Listed

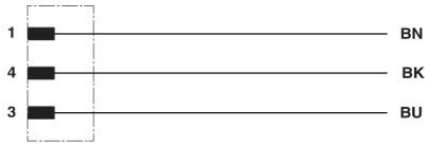
### Diagrams/Drawings

Dimensioned drawing



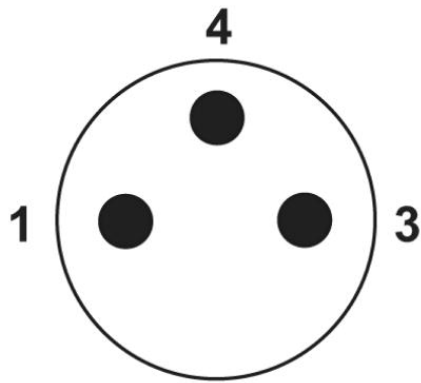
M8 x 1 male connector, straight version

Circuit diagram



Contact assignment of the M8 plug

Schematic diagram



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

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