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SAC-3P-M 8MS/0,6-PUR/M12FS

Order No.: 1682317



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1682317>

Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray
RAL 7021, Plug, straight M8, on Socket, straight M12, A-coded, Cable
length: 0.6 m

Commercial data

GTIN (EAN)	 4 017918 158972
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



[http://
www.download.phoenixcontact.com](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	60 V
Number of positions	3
Volume resistance	≤ 5 mΩ

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Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	0.6 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 ²
AWG signal line	24
Conductor structure signal line	32 x 0.10 mm
Core diameter including insulation	1.15 mm $\pm$ 0.05 mm
Thickness, insulation	$\geq 0.38 \text{ mm}$ (Core insulation)
External cable diameter	4.40 mm
Wire colors	Brown, blue, black
External sheath, color	Black-gray RAL 7021
Insulation resistance	$\geq 100 \text{ G}\Omega \cdot \text{km}$
Conductor resistance	$\leq 77.6 \text{ }\Omega/\text{km}$
Nominal voltage, conductor	300 V
Test voltage, conductor	4000 V
Overall twist	3 wires, twisted

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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 ²
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

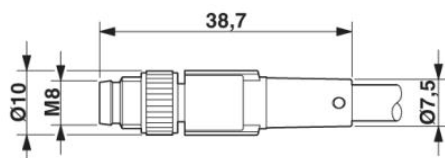
CUL Listed, GOST, UL Listed

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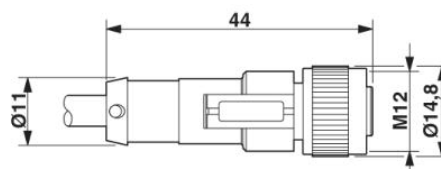
<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1682317>

Diagrams/Drawings

Dimensioned drawing

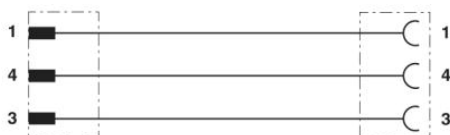


M8 x 1 male connector, straight version



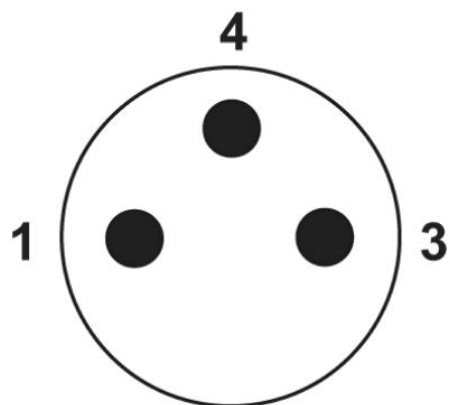
M12 x 1 female connector, straight

Circuit diagram

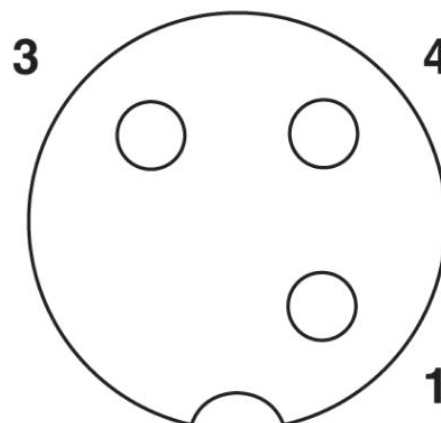


Contact assignment of M8 plugs / M12 sockets

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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