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Extract from the online
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SAC-4P-M12MS/3,0-PUR/M12FR-3L

Order No.: 1668548



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1668548>

Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, angled M12, A-coded, Cable length: 3 m

Commercial data

GTIN (EAN)	
sales group	D111
Pack	1 pcs.
Customs tariff	85444290
Catalog page information	Page 82 (PC-2009)

Product notes

WEEE/RoHS-compliant since:
10/24/2006



<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	4
Volume resistance	≤ 5 mΩ

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Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	3 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	3 LEDs

Conductor data

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
Conductor cross section	0.34 mm ²
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm $\pm$ 0.02 mm
Thickness, insulation	$\geq 0.21 \text{ mm}$ (Core insulation)
	$\geq 0.8 \text{ mm}$ (Outer cable sheath)
External cable diameter	4.7 mm $\pm$ 0.15 mm
Wire colors	Black, brown, blue, white
External sheath, color	Black-gray RAL 7021
Insulation resistance	$\geq 100 \text{ M}\Omega \cdot \text{km}$
Conductor resistance	$\leq 58 \text{ }\Omega/\text{km}$ (at 20°C)
Nominal voltage, conductor	$\leq 300 \text{ V}$
Test voltage, conductor	$\geq 3000 \text{ V}$

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Overall twist	4 wires, twisted
Length of twist, overall twist	49.5 mm
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	30 kg/km
Smallest bending radius, fixed installation	23.5 mm
Smallest bending radius, movable installation	47 mm
Number of bending cycles	4000000
Bending radius	47 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) -25 °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 in accordance with FT1 as per UL 758
Halogen-free	in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1
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

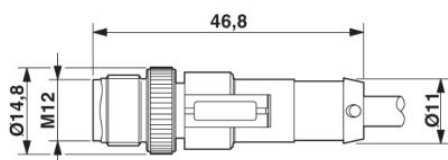
CUL Listed, GOST, UL Listed

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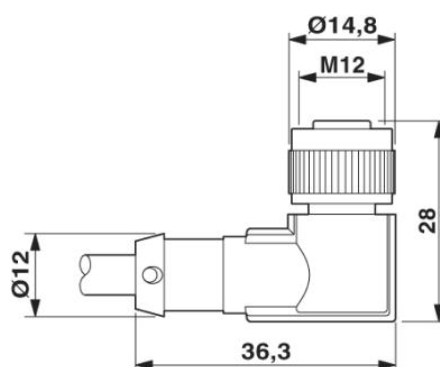
<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1668548>

Diagrams/Drawings

Dimensioned drawing

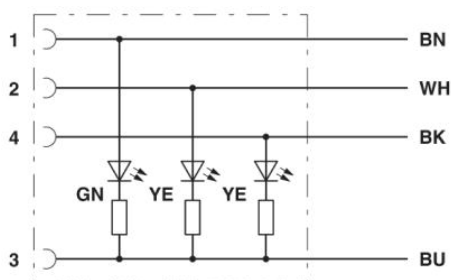


M12 x 1 male connector, straight



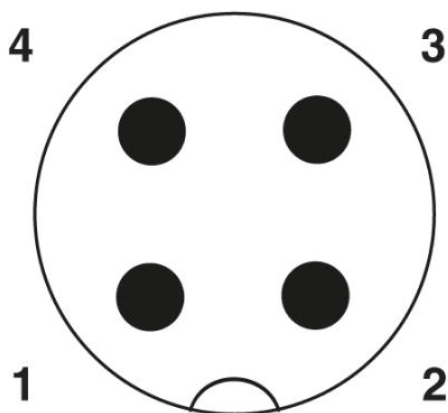
Socket M12 x 1, angled, with LED

Circuit diagram

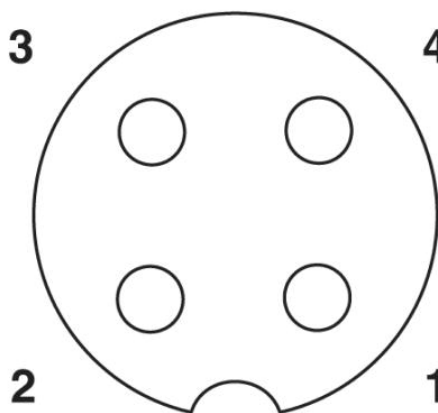


Contact assignment of the M12 plug and the M12 socket

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side



Pin assignment M12 socket, 4-pos., A-coded, view female side

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