

SAC-3P-M12MS/3,0-PUR

Order No.: 1668027

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

Commercial data

GTIN (EAN)	 4 017918 136710
sales group	D110
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	250 V
Number of positions	3
Volume resistance	≤ 5 mΩ

Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	3 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	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)
Status display	No

Conductor data

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y
Conductor cross section	0.34 mm^2
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	$1.27 \text{ mm} \pm 0.02 \text{ mm}$
Thickness, insulation	$\geq 0.21 \text{ mm}$ (Core insulation)
	$\geq 0.76 \text{ mm}$ (Outer cable sheath)
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	$\leq 58 \text{ }\Omega/\text{m}$
Nominal voltage, conductor	300 V
Test voltage, conductor	3000 V

Overall twist	3 wires, twisted
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	26 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

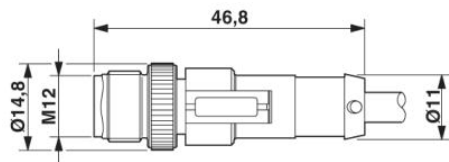


Certification

CUL Listed, GOST, UL Listed

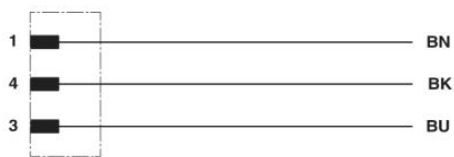
Diagrams/Drawings

Dimensioned drawing



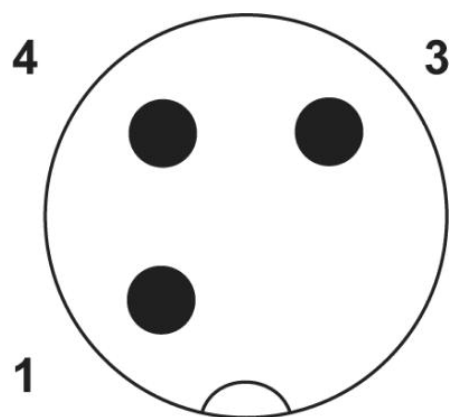
M12 x 1 male connector, straight

Circuit diagram



Contact assignment of the M12 plug

Schematic diagram



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

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