

SAC-5P-M12MR/ 3,0-PUR P

Order No.: 1442641



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1442641>

Sensor/Actuator cable, 5-position, PUR halogen-free, Black-gray RAL 7021, Plug, angled M12, A-coded, on Free conductor end, Cable length: 3 m

Commercial data

GTIN (EAN)	 4 046356 535403
Note	Made-to-order
sales group	D112
Pack	1 pcs.
Customs tariff	85444290
Catalog page information	Page 116 (NTK-2010)

Product notes

WEEE/RoHS-compliant since:
09/30/2009



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Technical data

General data

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	5
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	Polyamide
Status display	No

Conductor data

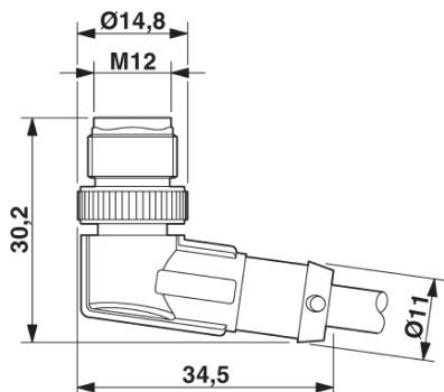
Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
UL AWM Style	20549
Conductor cross section	0.34 mm^2
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	$1.27 \text{ mm} \pm 0.02 \text{ mm}$
Thickness, insulation	Approx. 0.7 mm
External cable diameter	$5 \text{ mm} \pm 0.15 \text{ mm}$
Wire colors	Black, brown, blue, white, green/yellow
External sheath, color	Black-gray RAL 7021
Insulation resistance	$\geq 16 \text{ G}\Omega \cdot \text{km}$ (at 20°C)
Conductor resistance	max. $58 \text{ }\Omega/\text{km}$ (at 20°C)
Nominal voltage, conductor	300 V
Test voltage, conductor	3000 V
Outer sheath, material	PUR

Conductor material	Bare Cu litz wires
Cable weight	35 kg/km
Smallest bending radius, fixed installation	25 mm
Smallest bending radius, movable installation	50 mm
Number of bending cycles	4000000
Bending radius	50 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
	flexibel
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
	Resistant to salt water

Diagrams/Drawings

Dimensioned drawing

M12 x 1 male connector, angled

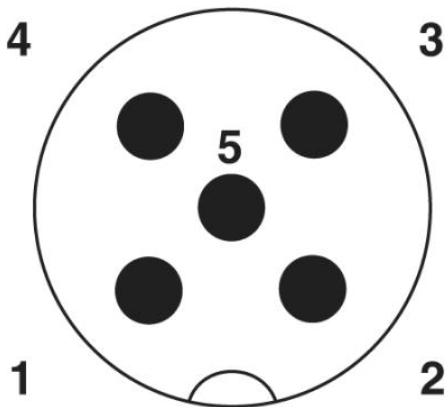


Circuit diagram



Contact assignment of the M12 plug

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

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