**Extract from the online catalog**

# SAC-4P-MS/ 5,0-PUR SCO

Order No.: 1518821

http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1518821

Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M12-SPEEDCON, A-coded, on Free conductor end, Cable length: 5 m

| Commercial data | |
|---|---|
| GTIN (EAN) | 4017918961206 |
| sales group | D111 |
| Pack | 1 pcs. |
| Customs tariff | 85444290 |
| Weight/Piece | 0.1615 KG |
| Catalog page information | Page 80 (PC-2009) |

Product notes

WEEE/RoHS-compliant since: 06/16/2006

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 | 250 V |
| Number of positions | 4 |
| Volume resistance | ≤ 5 mΩ |

| | |
|---|---|
| Insulation resistance | ≥ 100 MΩ |
| Length of cable | 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 | M12 male connector IEC 61076-2-101 |
| Coding | A - standard |
| Surge voltage category | II |
| Pollution degree | 3 |
| 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 | 0.34 mm² |
| AWG signal line | 22 |
| Conductor structure signal line | 42x 0.10 mm |
| Core diameter including insulation | 1.27 mm ±0.02 mm |
| Thickness, insulation | ≥ 0.21 mm (Core insulation) |
| | ≥ 0.8 mm (Outer cable sheath) |
| External cable diameter | 4.7 mm ±0.15 mm |
| Wire colors | Black, brown, blue, white |
| External sheath, color | Black-gray RAL 7021 |
| Insulation resistance | ≥ 100 MΩ*km |
| Conductor resistance | ≤ 58 Ω/km (at 20°C) |
| Nominal voltage, conductor | ≤ 300 V |
| Test voltage, conductor | ≥ 3000 V |
| Overall twist | 4 wires, twisted |

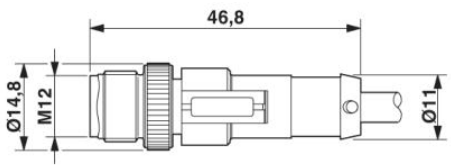
| | |
|---|---|
| Length of twist, overall twist | 49.5 mm |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Cable weight | 30 kg/km |
| Smallest bending radius, fixed installation | 23.5 mm |
| Smallest bending radius, movable installation | 47 mm |
| Number of bending cycles | 4000000 |
| Bending radius | 47 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s² |
| 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, UL Listed |

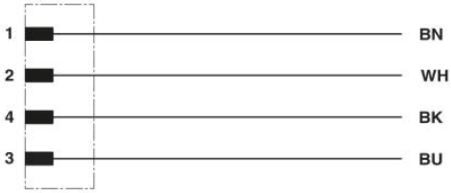
## Diagrams/Drawings

Dimensioned drawing



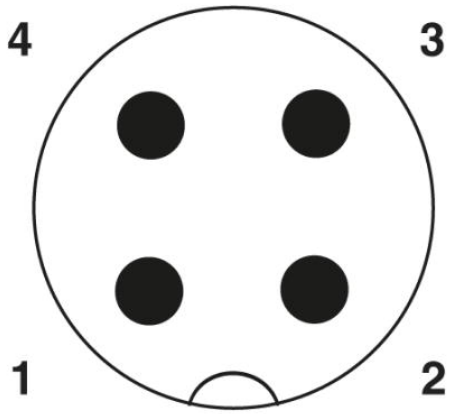

M12 x 1 male connector, straight

Circuit diagram




Contact assignment of the M12 plug

Schematic diagram




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

## Address

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