**Extract from the online catalog**

# SAC-4P-M12MS/1,5-PUR/M 8FS

Order No.: 1693089



http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1693089

Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M8, Cable length: 1.5 m

| Commercial data | |
|---|---|
| GTIN (EAN) | 4 017918 187071 |
| sales group | D131 |
| Pack | 1 pcs. |
| Customs tariff | 85444290 |
| Catalog page information | Page 82 (PC-2009) |

Product notes

WEEE/RoHS-compliant since: 12/01/2005

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 | 30 V |
| Number of positions | 4 |
| Volume resistance | ≤ 5 mΩ |

| | |
|---|---|
| Insulation resistance | ≥ 100 MΩ |
| Length of cable | 1.5 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 mm² |
| AWG signal line | 24 |
| Conductor structure signal line | 32 x 0.10 mm |
| Core diameter including insulation | 1.17 mm ±0.02 mm |
| Thickness, insulation | Approx. 0.21 mm (Core insulation) |
| | Approx. 0.7 mm (Outer cable sheath) |
| External cable diameter | 4.40 mm |
| Wire colors | Brown, white, blue, black |
| External sheath, color | Black-gray RAL 7021 |
| Insulation resistance | ≥ 100 MΩ*km |
| Conductor resistance | ≤ 78 Ω/km |
| Nominal voltage, conductor | 300 V |
| Test voltage, conductor | 3000 V |

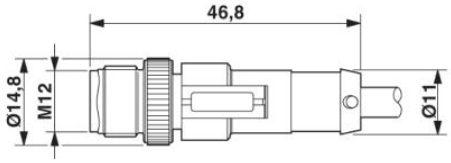
| | |
|---|---|
| Overall twist | 4 wires, twisted |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Cable weight | 25 kg/km |
| Smallest bending radius, movable installation | 44 mm |
| Number of bending cycles | 4000000 |
| Bending radius | 44 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s² |
| 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

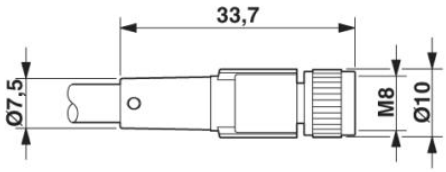
| | |
|---|---|
| Certification | CUL Listed, GOST, UL Listed |

## Diagrams/Drawings

Dimensioned drawing

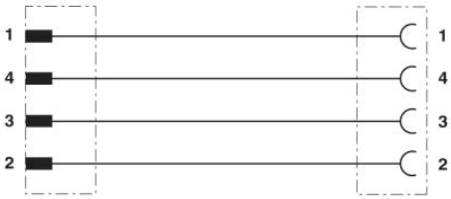



M12 x 1 male connector, straight



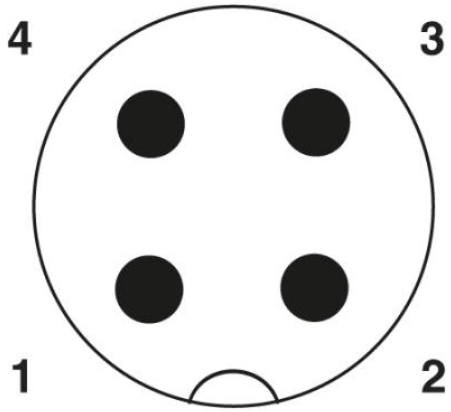

Socket M8 x 1, straight

Circuit diagram

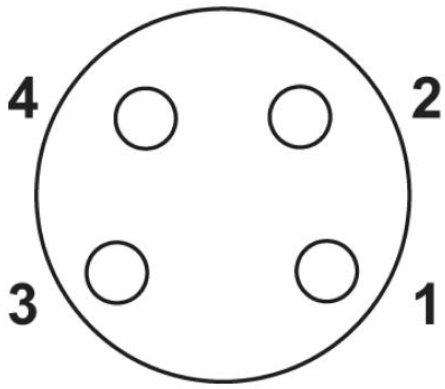



Contact assignment of M12 plugs / M8 sockets

Schematic diagram




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




Pin assignment M8 socket, 4-pos., view female side

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