

## SAC-3P-10,0-PUR/M12FS-2L

Order No.: 1694790



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1694790>

Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, with 2 LEDs, Cable length: 10 m

### Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 179779 |
| sales group              | D110                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85444290                                                                                               |
| Catalog page information | Page 76 (PC-2009)                                                                                      |

### Product notes

WEEE/RoHS-compliant since:  
07/25/2006



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### Technical data

#### General data

|                       |        |
|-----------------------|--------|
| Rated current at 40°C | 4 A    |
| Rated voltage         | 24 V   |
| Number of positions   | 3      |
| Volume resistance     | ≤ 5 mΩ |

|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| Insulation resistance                      | $\geq 100 \text{ M}\Omega$                           |
| Length of cable                            | 10 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 | $\geq 100$                                  |
| 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              | 2 LEDs                                      |

#### Conductor data

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Cable type                         | PUR halogen-free black                     |
| Cable type (abbreviation)          | PUR                                        |
| Cable abbreviation                 | Li9Y11Y                                    |
| Conductor cross section            | 0.34 mm <sup>2</sup>                       |
| 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              | $\geq 0.21$ mm (Core insulation)           |
|                                    | $\geq 0.76$ 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 <sup>2</sup>                                                                                                    |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)<br>-5 °C ... 80 °C (cable, flexible installation)                         |
| Special properties                            | Flexible cable conduit capable<br>Silicone-free<br>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<br>hydrolysis and microbe resistant                         |

#### Certificates / Approvals

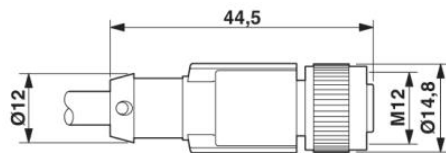


Certification

CUL Listed, GOST, UL Listed

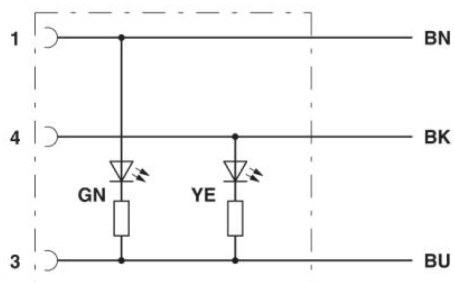
## Diagrams/Drawings

### Dimensioned drawing



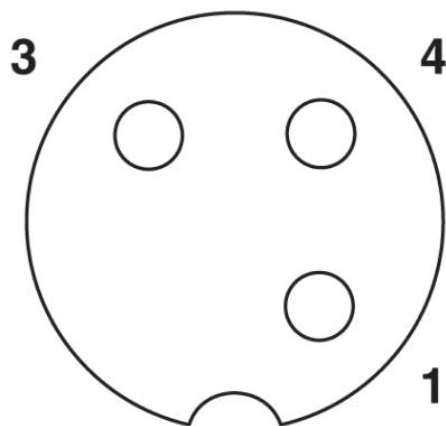
Socket M12 x 1, straight, with LED

### Circuit diagram



Contact assignment of M12 sockets with LED

### Schematic diagram



Pin assignment M12 socket, 3-pos., A-coded, view female side

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