

## SAC-4P-10,0-PUR/M12FS VA

Order No.: 1515183



Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 10 m

### Commercial data

|                |                                                                                                       |
|----------------|-------------------------------------------------------------------------------------------------------|
| EAN            | <br>4 017918 925031 |
| Note           | Made-to-order                                                                                         |
| Pack           | 5                                                                                                     |
| Customs tariff | 85444290                                                                                              |

### Product notes

WEEE/RoHS-compliant since:  
2006-03-02



### Technical data

#### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 250 V                      |
| Number of positions   | 4                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable       | 10 m                       |

|                                            |       |
|--------------------------------------------|-------|
| Stripping length of the free conductor end | 50 mm |
|--------------------------------------------|-------|

**General characteristics**

|                             |                                             |
|-----------------------------|---------------------------------------------|
| 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            | High-grade steel                            |
| 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            | 0.34 mm <sup>2</sup>                                         |
| 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)<br>≥ 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/s <sup>2</sup>                                                                                                    |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)<br>-25 °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<br>in accordance with FT1 as per UL 758                                          |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815<br>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<br>hydrolysis and microbe resistant                         |

## Certificates

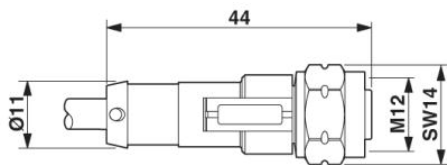


Certification

CUL Listed, UL Listed

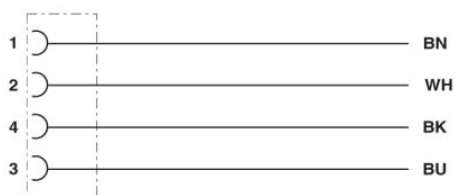
## Drawings

### Dimensioned drawing



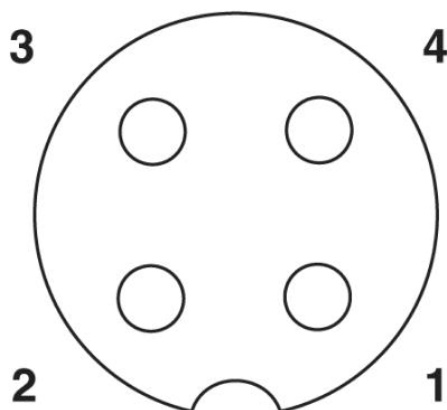
M12 x 1 female connector, straight

### Circuit diagram



Contact assignment of the M12 socket

### Schematic diagram



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