

# SAC-3P-M 8MS/3,0-PUR

Order No.: 1681677



Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M8, on Free conductor end, Cable length: 3 m

## Commercial data

|                          |                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 017918 158330 |
| Pack                     | 1                                                                                                    |
| Customs tariff           | 85444290                                                                                             |
| Catalog page information | Page 74 (PC-2009)                                                                                    |

## Product notes

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



## Technical data

### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 60 V                       |
| Number of positions   | 3                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| 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    | M8 connector IEC 61076-2-104                |
| Coding                   | A - standard                                |
| 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                       | 0.25 mm <sup>2</sup>        |
| AWG signal line                               | 24                          |
| Conductor structure signal line               | 32 x 0.10 mm                |
| Core diameter including insulation            | 1.15 mm ±0.05 mm            |
| Thickness, insulation                         | ≥ 0.38 mm (Core insulation) |
| External cable diameter                       | 4.40 mm                     |
| Wire colors                                   | Brown, blue, black          |
| External sheath, color                        | Black-gray RAL 7021         |
| Insulation resistance                         | ≥ 100 GΩ*km                 |
| Conductor resistance                          | ≤ 77.6 Ω/km                 |
| Nominal voltage, conductor                    | 300 V                       |
| Test voltage, conductor                       | 4000 V                      |
| Overall twist                                 | 3 wires, twisted            |
| Outer sheath, material                        | PUR                         |
| Material conductor insulation                 | PP                          |
| Conductor material                            | Bare Cu litz wires          |
| Cable weight                                  | 23 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

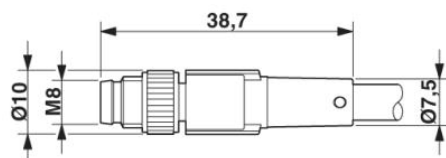


Certification

CUL Listed, GOST, UL Listed

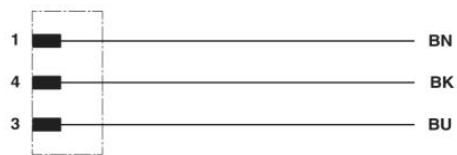
#### Drawings

Dimensioned drawing



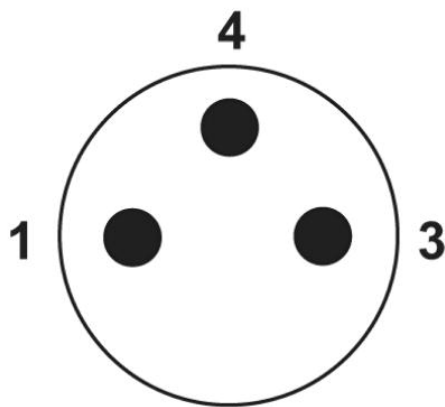
M8 x 1 male connector, straight version

Circuit diagram



Contact assignment of the M8 plug

Schematic diagram



Pin assignment M8 plug, 3-pos., view male side