

# SAC-4P-M 8MS/0,3-PUR/M 8FR

Order No.: 1682184



Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M8, on Socket, angled M8, Cable length: 0.3 m

## Commercial data

|                          |                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 017918 158842 |
| Note                     | Made-to-order                                                                                        |
| Pack                     | 1                                                                                                    |
| Customs tariff           | 85444290                                                                                             |
| Catalog page information | Page 80 (PC-2009)                                                                                    |

## Product notes

WEEE/RoHS-compliant since:  
2008-01-01



## Technical data

### General data

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Rated current at 40°C           | 4 A                                                  |
| Rated voltage                   | 30 V                                                 |
| Number of positions             | 4                                                    |
| Volume resistance               | $\leq 5 \text{ m}\Omega$                             |
| Insulation resistance           | $\geq 100 \text{ M}\Omega$                           |
| Length of cable                 | 0.3 m                                                |
| Ambient temperature (operation) | -25 °C ... 90 °C (Male connector / female connector) |

**General characteristics**

|                          |                                             |
|--------------------------|---------------------------------------------|
| Standards/regulations    | M8 connector IEC 61076-2-104                |
| 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)              |
| 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 mm <sup>2</sup>                |
| 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/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

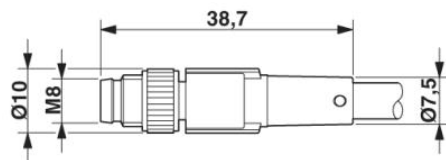


Certification

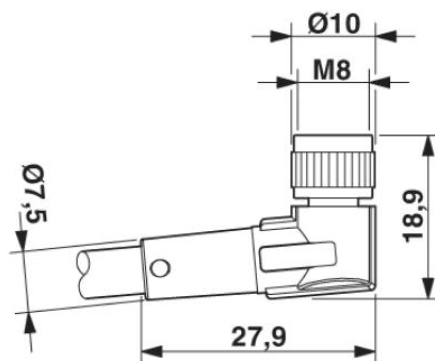
CUL Listed, UL Listed

## Drawings

### Dimensioned drawing

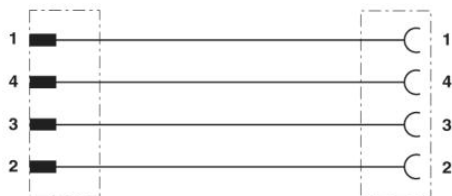


M8 x 1 male connector, straight version



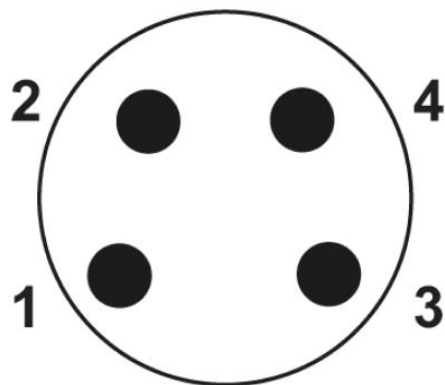
Socket M8 x 1, angled

### Circuit diagram

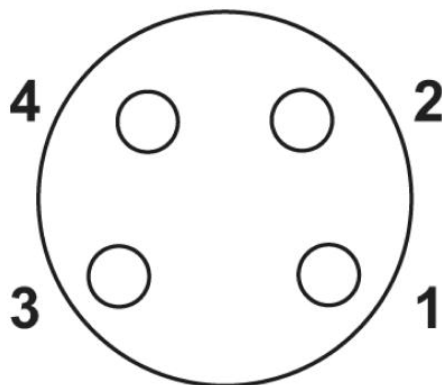


Contact assignment of M8 plugs/sockets

### Schematic diagram



Pin assignment M8 plug, 4-pos., view male side



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