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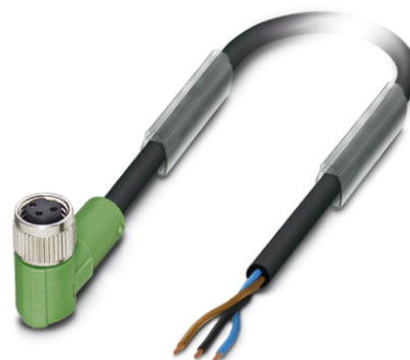
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



Extract from the online  
catalog

## SAC-3P-10,0-PUR/M 8FR

Order No.: 1694169



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1694169>

Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray RAL 7021, Free conductor end, on Socket, angled M8, Cable length: 10 m

### Commercial data

|                          |                   |
|--------------------------|-------------------|
| GTIN (EAN)               |                   |
| sales group              | D130              |
| Pack                     | 1 pcs.            |
| Customs tariff           | 85444290          |
| Catalog page information | Page 74 (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         | 60 V     |
| Number of positions   | 3        |
| Volume resistance     | ≤ 5 mΩ   |
| Insulation resistance | ≥ 100 MΩ |

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|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| 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    | 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 | 1.15 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                         |

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|                                               |                                                                     |
|-----------------------------------------------|---------------------------------------------------------------------|
| 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)                        |
|                                               | -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

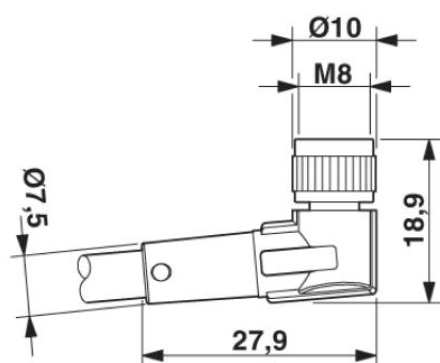
CUL Listed, GOST, UL Listed

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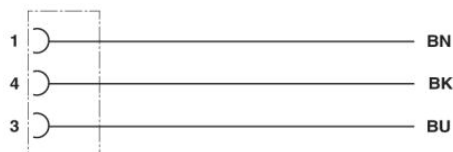
## Diagrams/Drawings

### Dimensioned drawing



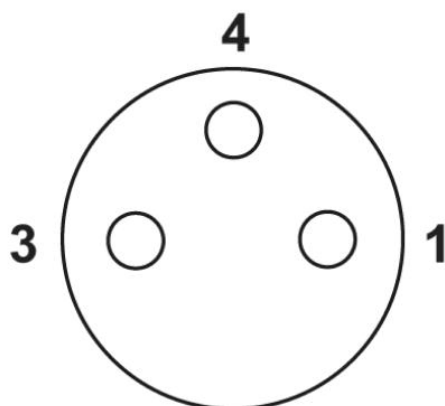
Socket M8 x 1, angled

### Circuit diagram



Contact assignment of M8 socket

### Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

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