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## Sensor/actuator cable - SAC-3P-10,0-PUR/M 8FR - 1694169

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M8, cable length: 10 m

### Your advantages

- Easy and safe: 100% electrically tested plug-in components
- Our standard: robust halogen-free PUR cable



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 017918 177188 |
| GTIN                                 | 4017918177188   |
| Weight per Piece (excluding packing) | 173.100 g   |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Germany   |
| Sales Key                            | BF1BBA  |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 10 m  |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
|                                 | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |

#### General

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### Technical data

#### General

|                              |                              |
|------------------------------|------------------------------|
| Rated current at 40°C        | 4 A                          |
| Rated voltage                | 48 V AC                      |
|                              | 60 V DC                      |
| Number of positions          | 3                            |
| Insulation resistance        | ≥ 100 MΩ                     |
| Coding                       | A - standard                 |
| Standards/regulations        | M8 connector IEC 61076-2-104 |
| Status display               | No                           |
| Protective circuit/component | unwired                      |
| Overvoltage category         | II                           |
| Degree of pollution          | 3                            |
| Insertion/withdrawal cycles  | ≥ 100                        |
| Torque                       | 0.2 Nm (M8 connectors)       |

#### Material

|  |   |
|--|---|
| Flammability rating according to UL 94 | HB  |
| 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   |

#### Standards and Regulations

|  |                              |
|--|------------------------------|
| Standards/specifications               | M8 connector IEC 61076-2-104 |
| Flammability rating according to UL 94 | HB                           |

#### Cable

|                                    |                             |
|------------------------------------|-----------------------------|
| Cable type                         | PUR halogen-free black      |
| Cable type (abbreviation)          | PUR                         |
| Cable abbreviation                 | Li9Y11Y-HF                  |
| UL AWM style                       | 20549 / 10493 (80°C/300 V)  |
| Conductor cross section            | 3x 0.25 mm <sup>2</sup>     |
| AWG signal line                    | 24                          |
| Conductor structure signal line    | 32x 0.10 mm                 |
| Core diameter including insulation | 1.17 mm ±0.02 mm            |
| Thickness, insulation              | ≥ 0.21 mm (Core insulation) |
| Wire colors                        | brown, blue, black          |
| Overall twist                      | 3 wires, twisted            |
| Length of twist, overall twist     | 40 mm                       |
| External sheath, color             | black-gray RAL 7021         |
| Outer sheath thickness             | approx. 0.5 mm              |

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### Technical data

#### Cable

|   |   |
|---|---|
| External cable diameter D                     | 3.6 mm ±0.15 mm   |
| Smallest bending radius, fixed installation   | 18 mm   |
| Smallest bending radius, movable installation | 36 mm   |
| Number of bending cycles                      | 10000000  |
| Bending radius                                | 44 mm   |
| Traversing path                               | 10 m  |
| Traversing rate                               | 3 m/s   |
| Acceleration                                  | 10 m/s <sup>2</sup>   |
| Cable weight                                  | 18 kg/km  |
| Outer sheath, material                        | PUR   |
| Material conductor insulation                 | PP  |
| Conductor material                            | Bare Cu litz wires  |
| Insulation resistance                         | ≥ 100 GΩ*km (at 20 °C)  |
| Conductor resistance                          | ≤ 78 Ω/km (at 20 °C)  |
| Nominal voltage, cable                        | ≤ 300 V   |
| Test voltage, cable                           | ≥ 3000 V  |
| Special properties                            | Flexible cable conduit capable                                      |
|   | Silicone-free   |
|   | Free of substances which would hinder coating with paint or varnish |
| Other resistance                              | hydrolysis and microbe resistant                                    |
|   | Highly resistant to acids, alkaline solutions and solvents          |
|   | Resistant to salt water   |
|   | partly UV-resistant in accordance with DIN EN ISO 4892-2-A          |
| Flame resistance                              | in accordance with UL 758/1581 FT2                                  |
|   | DIN EN 60332-2-2 (20 s)   |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815                            |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                 |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)                        |
|   | -25 °C ... 80 °C (cable, flexible installation)                     |

#### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |



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