

## Sensor/Actuator cable - SAC-6P-M 8MR/10,0-PUR - 1522176

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Sensor/Actuator cable, 6-position, PUR halogen-free, black-gray RAL 7021, Plug angled M8, on free cable end, Cable length: 10 m

### Why buy this product

- ✓ 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 046356 020978 |
| Weight per Piece (excluding packing) | 338.7 g   |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Poland  |
| Product key                          | BF1BGA  |
| Note                                 | Made to Order (non-returnable)  |

### 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) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |

#### General

|                       |       |
|-----------------------|-------|
| Rated current at 40°C | 1.5 A |
| Rated voltage         | 30 V  |

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### Technical data

#### General

|                              |                              |
|------------------------------|------------------------------|
| Number of positions          | 6                            |
| Contact resistance           | ≤ 5 mΩ                       |
| 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                           |
| Pollution degree             | 3                            |
| Insertion/withdrawal cycles  | ≥ 100                        |
| Torque                       | 0.2 Nm (M8 connectors)       |

#### Material

|   |   |
|---|---|
| Inflammability class according to UL 94 | HB  |
| Contact material                        | CuZn  |
| 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                |

#### Cable

|                                    |   |
|------------------------------------|---|
| Cable type                         | PUR halogen-free black                  |
| Cable type (abbreviation)          | PUR                                     |
| Cable abbreviation                 | Li9Y11Y                                 |
| Conductor cross section            | 6x 0.25 mm <sup>2</sup> (signal line)   |
| 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, white, blue, black, gray, pink   |
| Overall twist                      | Six cores around the filler to the core |
| External sheath, color             | black-gray RAL 7021                     |
| Outer sheath thickness             | approx. 0.7 mm                          |
| External cable diameter            | 5.00 mm                                 |
| External cable diameter D          | 5 mm ±0.15 mm                           |
| Cable weight                       | 34 kg/km                                |
| Outer sheath, material             | PUR                                     |
| Material, filler                   | PE                                      |
| Material conductor insulation      | PP                                      |
| Conductor material                 | Bare Cu litz wires                      |
| Insulation resistance              | ≥ 100 MΩ*km (at 20 °C)                  |
| Conductor resistance               | 78 Ω/km (at 20 °C)                      |

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## Technical data

### Cable

|                                 |   |
|---------------------------------|---|
| 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 |
| 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                                    |
|                                 | partly UV-resistant in accordance with DIN EN ISO 4892-2-A          |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)                        |
|                                 | -5 °C ... 80 °C (cable, flexible installation)                      |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27279218 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |

## Approvals

### Approvals

# Sensor/Actuator cable - SAC-6P-M 8MR/10,0-PUR - 1522176

## Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approvals submitted

## Approval details

|                                |       |
|--------------------------------|-------|
| UL Listed                      |       |
| Nominal current I <sub>N</sub> | 4 A   |
| Nominal voltage U <sub>N</sub> | 125 V |

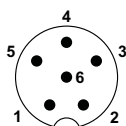
|                                |       |
|--------------------------------|-------|
| cUL Listed                     |       |
| Nominal current I <sub>N</sub> | 4 A   |
| Nominal voltage U <sub>N</sub> | 125 V |

|     |
|-----|
| EAC |
|-----|

|              |
|--------------|
| cULus Listed |
|--------------|

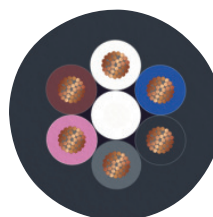
## Drawings

Schematic diagram



Pin assignment M8 plug, 6-pos., view male side

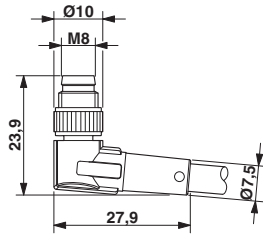
Cable cross section



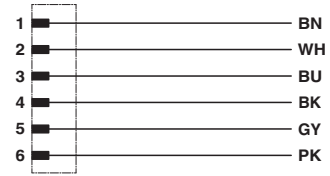
PUR halogen-free black [PUR]

## Sensor/Actuator cable - SAC-6P-M 8MR/10,0-PUR - 1522176

Dimensional drawing



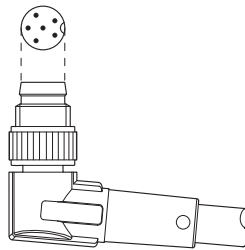
Circuit diagram



Contact assignment of the M8 plug

M8 x 1 male plug, angled version

Schematic diagram



Layout of connector pin assignments

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