

## Sensor/actuator cable - SAC-4P-M12MRD/0,3-PUR - 1404836

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Sensor/actuator cable, 4-pos., PUR, halogen free, black-gray RAL 7021, angled M12 plug, D-coded, to free cable end, cable length: 0.3 m

as illustrated, but d-coded

**RoHS**

### Key Commercial Data

|                        |   |
|------------------------|---|
| Packing unit           | 1 pc  |
| Minimum order quantity | 50 pc   |
| GTIN                   | <br>4 046356 723817 |
| GTIN                   | 4046356723817   |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 0.3 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 | 4 A                       |
| Rated voltage         | 250 V AC                  |
|                       | 250 V DC                  |
| Number of positions   | 4                         |
| Insulation resistance | $\geq 10 \text{ M}\Omega$ |
| Coding                | D-coded                   |
| Status display        | No                        |

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## Technical data

### General

|                             |            |
|-----------------------------|------------|
| Overvoltage category        | II         |
| Degree of pollution         | 3          |
| Insertion/withdrawal cycles | $\geq 100$ |

### 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                |

### Standards and Regulations

|  |    |
|--|----|
| 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                         | 4x 0.34 mm <sup>2</sup>                  |
| AWG signal line                                 | 22                                       |
| Conductor structure signal line                 | 42x 0.10 mm                              |
| Core diameter including insulation              | 1.27 mm $\pm 0.02$ mm                    |
| Thickness, insulation                           | $\geq 0.21$ mm                           |
| Wire colors                                     | brown, white, blue, black                |
| Overall twist                                   | 4 wires, twisted                         |
| External sheath, color                          | black-gray RAL 7021                      |
| Outer sheath thickness                          | approx. 0.5 mm                           |
| External cable diameter D                       | 4.2 mm $\pm 0.15$ mm                     |
| Minimum bending radius, fixed installation      | 5 x D                                    |
| Minimum bending radius, flexible installation   | 10 x D                                   |
| Number of bending cycles                        | 10000000                                 |
| Minimum bending radius, drag chain applications | 10 x D                                   |
| Traversing path                                 | 10 m                                     |
| Traversing rate                                 | 3 m/s                                    |
| Acceleration                                    | 10 m/s <sup>2</sup>                      |
| Cable weight                                    | 30 kg/km                                 |
| Outer sheath, material                          | PUR                                      |
| Material conductor insulation                   | PP                                       |
| Conductor material                              | Bare Cu litz wires                       |
| Insulation resistance                           | $\geq 1 \text{ G}\Omega \cdot \text{km}$ |

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## Technical data

### Cable

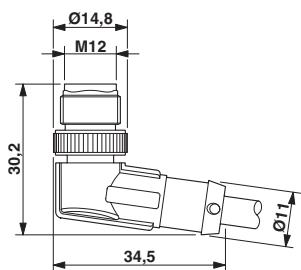
|                                 |   |
|---------------------------------|---|
| Conductor resistance            | $\leq 58 \Omega/\text{km}$  |
| Nominal voltage, cable          | $\leq 300 \text{ V}$  |
| Test voltage, cable             | $\geq 3000 \text{ V}$   |
| Special properties              | Flexible cable conduit capable                                      |
|                                 | Silicone-free   |
|                                 | Free of substances which would hinder coating with paint or varnish |
|                                 | flexible  |
| 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                            |
|                                 | in accordance with DIN EN 50267-2-1                                 |
| 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          |
|                                 | Low adhesion  |
|                                 | abrasion-resistant  |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)                        |
|                                 | -25 °C ... 80 °C (cable, flexible installation)                     |

### Environmental Product Compliance

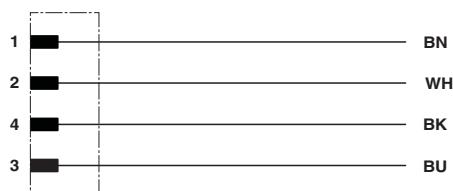
|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

### Drawings

Dimensional drawing



Circuit diagram



Contact assignment of the M12 plug

M12 x 1 male plug, angled

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