

## Sensor/actuator cable - SAC-5P-Y/2X0,3-PUR/FS B PE SCO - 1544073

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, PIN 2+4 bridged, cable length: 0.3 m

The figure shows the 4-position version



### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 5 pc                                                                                                    |
| Minimum order quantity | 50 pc                                                                                                   |
| GTIN                   | <br>4 046356 106702 |
| GTIN                   | 4046356106702                                                                                           |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.3 m |
|-----------------|-------|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |
|                      | IP68 |

#### General

|                       |              |
|-----------------------|--------------|
| Rated current at 40°C | 4 A          |
| Rated voltage         | 48 V AC      |
|                       | 60 V DC      |
| Number of positions   | 5            |
| Insulation resistance | ≥ 100 MΩ     |
| Coding                | A - standard |
| Status display        | No           |
| Overvoltage category  | II           |

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## Technical data

### General

|                     |   |
|---------------------|---|
| Degree of pollution | 3 |
|---------------------|---|

### 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

|                                        |    |
|----------------------------------------|----|
| 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 ±0.02 mm           |
| Thickness, insulation                           | ≥ 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 ±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                           | ≥ 1 GΩ*km                  |
| Conductor resistance                            | ≤ 58 Ω/km                  |

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## Technical data

### Cable

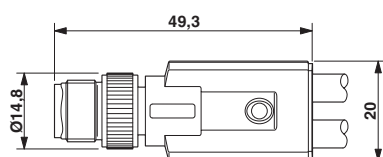
|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| Nominal voltage, cable          | ≤ 300 V                                                             |
| Test voltage, cable             | ≥ 3000 V                                                            |
| Special properties              | Flexible cable conduit capable                                      |
|                                 | Silicone-free                                                       |
|                                 | Free of substances which would hinder coating with paint or varnish |
|                                 | 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          |

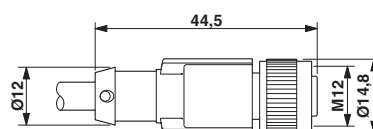
## Drawings

Dimensional drawing



Plug M12 x 1, Y distributor

Dimensional drawing



M12 x 1 socket, straight

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