

## Sensor/Actuator cable - SAC-4P-MR/10,0-PUR/FS SCO - 1538270

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Sensor/Actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 10 m



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| GTIN                                 | <br>4 046356 075206 |
| GTIN                                 | 4046356075206                                                                                           |
| Weight per Piece (excluding packing) | 308.300 g                                                                                               |
| Custom tariff number                 | 85444290                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 10 m |
|-----------------|------|

#### Ambient conditions

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

#### General

|                       |          |
|-----------------------|----------|
| Rated current at 40°C | 4 A      |
| Rated voltage         | 250 V    |
| Number of positions   | 4        |
| Insulation resistance | ≥ 100 MΩ |

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### Technical data

#### General

|                      |              |
|----------------------|--------------|
| Coding               | A - standard |
| Status display       | No           |
| Overvoltage category | II           |
| 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. 0.8 mm             |
| External cable diameter D                       | 4.7 mm ±0.15 mm            |
| Smallest bending radius, fixed installation     | 23.5 mm                    |
| Smallest bending radius, movable installation   | 47 mm                      |
| Minimum bending radius, fixed installation      | 5 x D                      |
| Minimum bending radius, flexible installation   | 10 x D                     |
| Number of bending cycles                        | 4000000                    |
| Bending radius                                  | 47 mm                      |
| Minimum bending radius, drag chain applications | 10 x D                     |

## Sensor/Actuator cable - SAC-4P-MR/10,0-PUR/FS SCO - 1538270

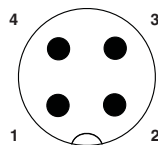
### Technical data

#### Cable

|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| 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                                                           |
| 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                | according to UL 758/1581 (horizontal)                               |
|                                 | in accordance with UL 758/1581 FT2                                  |
| 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)                     |

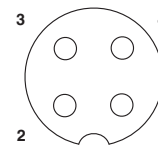
### Drawings

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

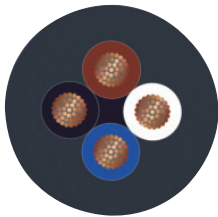
Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

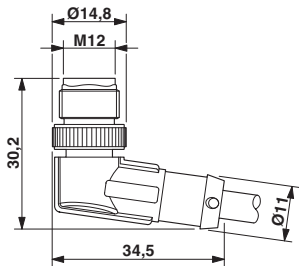
Sensor/Actuator cable - SAC-4P-MR/10,0-PUR/FS SCO - 1538270

Cable cross section



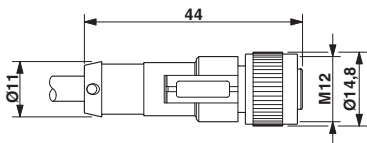
PUR halogen-free black [PUR]

Dimensional drawing



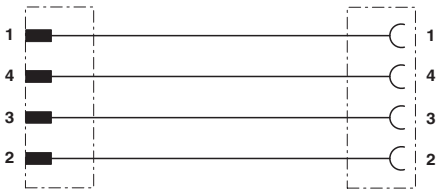
M12 x 1 male plug, angled

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed          |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
| Nominal current IN | 4 A                                                                                 |                                                                                                                                                       |               |
| Nominal voltage UN | 300 V                                                                               |                                                                                                                                                       |               |

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### Approvals

|                                |                                                                                   |                                                                                                                                                       |               |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed                     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
|                                |                                                                                   |                                                                                                                                                       |               |
| Nominal current I <sub>N</sub> |                                                                                   | 4 A                                                                                                                                                   |               |
| Nominal voltage U <sub>N</sub> |                                                                                   | 300 V                                                                                                                                                 |               |

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

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