

## Sensor/Actuator cable - SAC-4P- 2,0-PUR/M12FS - 1533576

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Sensor/Actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, Cable length: 2 m

### Why buy this product

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

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| GTIN                                 | <br>4 017918 992118 |
| GTIN                                 | 4017918992118                                                                                           |
| Weight per Piece (excluding packing) | 70.300 g                                                                                                |
| Custom tariff number                 | 85444290                                                                                                |
| Country of origin                    | United States                                                                                           |

### Technical data

#### Dimensions

|                                            |       |
|--------------------------------------------|-------|
| Length of cable                            | 2 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                             |

# Sensor/Actuator cable - SAC-4P- 2,0-PUR/M12FS - 1533576

## Technical data

### General

|                              |                               |
|------------------------------|-------------------------------|
| Rated current at 40°C        | 4 A                           |
| Rated voltage                | 250 V                         |
| Number of positions          | 4                             |
| Insulation resistance        | ≥ 100 MΩ                      |
| Coding                       | A - standard                  |
| Standards/regulations        | M12 connector IEC 61076-2-101 |
| Status display               | No                            |
| Protective circuit/component | Unwired                       |
| Overvoltage category         | II                            |
| Degree of pollution          | 3                             |
| Insertion/withdrawal cycles  | ≥ 100                         |
| Torque                       | 0.4 Nm (M12 connector)        |

### 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

|                                        |                 |
|----------------------------------------|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| 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 mm²                |
| 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           |

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## Technical data

### Cable

|                                                 |                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------|
| 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                                                              |
| Traversing path                                 | 10 m                                                                |
| Traversing rate                                 | 3 m/s                                                               |
| Acceleration                                    | 10 m/s²                                                             |
| 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)                     |

# Sensor/Actuator cable - SAC-4P- 2,0-PUR/M12FS - 1533576

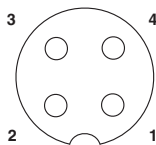
## Technical data

### Environmental Product Compliance

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

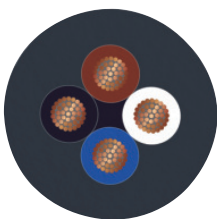
## Drawings

Schematic diagram



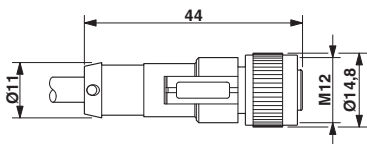
Pin assignment M12 socket, 4-pos., A-coded, view female side

Cable cross section



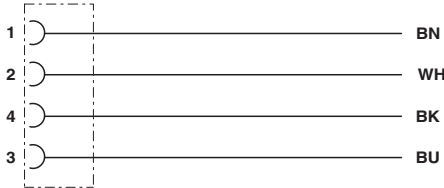
PUR halogen-free black [PUR]

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 socket

## Approvals

### Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

### Approval details

## Sensor/Actuator cable - SAC-4P- 2,0-PUR/M12FS - 1533576

### Approvals

|                                |                                                                                   |                                                                                                                                                       |               |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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 I <sub>N</sub> |                                                                                   | 4 A                                                                                                                                                   |               |
| Nominal voltage U <sub>N</sub> |                                                                                   | 300 V                                                                                                                                                 |               |

|                                |                                                                                   |                                                                                                                                                       |               |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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                                                                                                                                                 |               |

|     |                                                                                    |               |
|-----|------------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|------------------------------------------------------------------------------------|---------------|

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

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