

## Sensor/actuator cable - SAC-5P-3,0-PUR/M12 FRB - 1410745

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, B-coded, cable length: 3 m

as illustrated, but b-coded



### Key Commercial Data

|                        |   |
|------------------------|---|
| Packing unit           | 1 pc  |
| Minimum order quantity | 50 pc   |
| GTIN                   | <br>4 046356 907934 |
| GTIN                   | 4046356907934   |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 3 m |
|-----------------|-----|

#### General

|                              |                               |
|------------------------------|-------------------------------|
| Rated current at 40°C        | 4 A                           |
| Rated voltage                | 48 V AC<br>60 V DC            |
| Number of positions          | 5                             |
| Insulation resistance        | ≥ 100 MΩ                      |
| Coding                       | B - inverse                   |
| 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                         |

#### Material

# Sensor/actuator cable - SAC-5P-3,0-PUR/M12 FRB - 1410745

## Technical data

### 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                                     |
| UL AWM style                                  | 20549                                   |
| Conductor cross section                       | 5x 0.34 mm <sup>2</sup> (Signal line)   |
| AWG signal line                               | 22                                      |
| Conductor structure signal line               | 42x 0.10 mm                             |
| Core diameter including insulation            | 1.27 mm ±0.02 mm (Signal line)          |
| Thickness, insulation                         | approx. 0.5 mm                          |
| Wire colors                                   | brown, white, blue, black, green-yellow |
| External sheath, color                        | black-gray RAL 7021                     |
| External cable diameter D                     | 4.55 mm ±0.15 mm                        |
| Smallest bending radius, fixed installation   | 23 mm                                   |
| Smallest bending radius, movable installation | 46 mm                                   |
| Number of bending cycles                      | 10000000                                |
| Bending radius                                | 50 mm                                   |
| Traversing path                               | 10 m                                    |
| Traversing rate                               | 3 m/s                                   |
| Acceleration                                  | 10 m/s <sup>2</sup>                     |
| Cable weight                                  | 33 kg/km                                |
| Outer sheath, material                        | PUR                                     |
| Material conductor insulation                 | PP                                      |
| Conductor material                            | Bare Cu litz wires                      |
| Insulation resistance                         | ≥ 16 GΩ*km (at 20 °C)                   |
| Conductor resistance                          | max. 58 Ω/km (at 20 °C)                 |
| Nominal voltage, cable                        | 300 V                                   |
| Test voltage, cable                           | 3000 V                                  |
| Special properties                            | Flexible cable conduit capable          |
|   | Silicone-free                           |

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## Technical data

### Cable

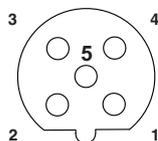
|                                 |   |
|---------------------------------|---|
|                                 | Free of substances which would hinder coating with paint or varnish |
|                                 | flexible  |
| Flame resistance                | in accordance with UL 758/1581 FT2                                  |
|                                 | DIN EN 60332-2-2 (20 s)   |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                            |
| 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                                    |
|                                 | Resistant to salt water   |
|                                 | partly UV-resistant in accordance with DIN EN ISO 4892-2-A          |
| 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          |

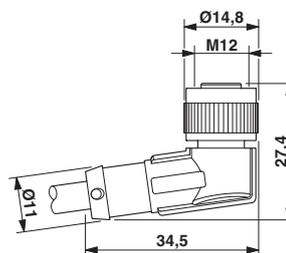
## Drawings

Schematic diagram



Pin assignment M12 socket, 5-pos., B-coded, female side

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of the M12 sockets

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