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## Sensor/Actuator cable - SAC-4P-MR/ 1,5-PUR SCO - 1518847

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Sensor/Actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12 SPEEDCON, A-coded, on free cable end, Cable length: 1.5 m

### Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Save time, thanks to installation with SPEEDCON fast locking system
- Our standard: robust halogen-free PUR cable



### Key Commercial Data

|              |                     |
|--------------|---------------------|
| Packing unit | 1 STK               |
| GTIN         | <br>4 017918 961220 |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 1.5 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                         |
| Number of positions   | 4                             |
| Insulation resistance | ≥ 10 MΩ                       |
| Coding                | A - standard                  |
| Standards/regulations | M12 connector IEC 61076-2-101 |

# Sensor/Actuator cable - SAC-4P-MR/ 1,5-PUR SCO - 1518847

## Technical data

### General

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

### Cable

|   |  |
|---|--|
| Cable type                                    | PUR halogen-free black   |
| Cable abbreviation                            | Li9Y11Y-HF   |
| Conductor cross section                       | 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                         | approx. 0.21 mm (Core insulation)<br>approx. 0.8 mm (Outer cable sheath) |
| Wire colors                                   | brown, white, blue, black  |
| Overall twist                                 | 4 wires, twisted   |
| External sheath, color                        | black-gray RAL 7021  |
| External cable diameter                       | 4.70 mm  |
| Smallest bending radius, movable installation | 47 mm  |
| Number of bending cycles                      | 4000000  |
| Bending radius                                | 47 mm  |
| Traversing path                               | 10 m   |
| Traversing rate                               | 3 m/s  |
| Cable weight                                  | 30 kg/km   |
| Outer sheath, material                        | PUR  |
| Material conductor insulation                 | PP   |
| Conductor material                            | Bare Cu litz wires   |
| Insulation resistance                         | ≥ 100 MΩ*km  |
| Conductor resistance                          | ≤ 58 Ω/km  |
| Nominal voltage, cable                        | 300 V  |
| Test voltage, cable                           | 3000 V   |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)                             |

# Sensor/Actuator cable - SAC-4P-MR/ 1,5-PUR SCO - 1518847

## Technical data

### Cable

|  |  |
|--|--|
|  | -5 °C ... 80 °C (cable, flexible installation) |
|--|--|

### Standards and Regulations

|  |                 |
|--|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Flammability rating according to UL 94 | HB              |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27279218 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |

## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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#### Ex Approvals


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# Sensor/Actuator cable - SAC-4P-MR/ 1,5-PUR SCO - 1518847

## Approvals


Approvals submitted

### Approval details

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

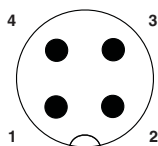
|  |       |
|--|-------|
| cUL Listed  |       |
| Nominal current I <sub>N</sub>   | 4 A   |
| Nominal voltage U <sub>N</sub>   | 300 V |

|     |
|-----|
| EAC |
|-----|

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

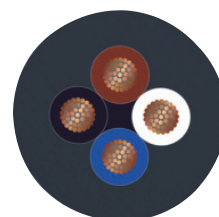
## Drawings

Schematic diagram



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

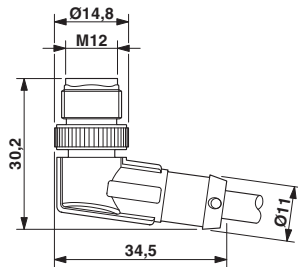
Cable cross section



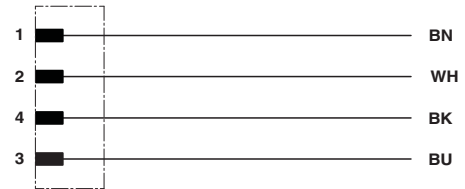
PUR halogen-free black [PUR]

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Dimensional drawing



Circuit diagram



Contact assignment of the M12 plugs

M12 x 1 male plug, angled

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