

## Sensor/Actuator cable - SAC-4P-M 8MS/3,0-PVC/M 8FR - 1415574

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Sensor/Actuator cable, 4-position, PVC, Black RAL 9005, Plug straight M8, on Socket angled M8, Cable length: 3 m

### Product Features

- Easy and safe: 100% electrically tested plug-in components
- 



### Key commercial data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 pc     |
| Custom tariff number | 85444290 |
| Country of origin    | Germany  |

### Technical data

#### Dimensions

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

#### 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         | 30 V         |
| Number of positions   | 4            |
| Contact resistance    | ≤ 5 mΩ       |
| Insulation resistance | ≥ 100 MΩ     |
| Coding                | A - standard |

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## Technical data

### General

|                              |                              |
|------------------------------|------------------------------|
| Standards/regulations        | M8 connector IEC 61076-2-104 |
| Status display               | No                           |
| Protective circuit/component | Unwired                      |
| Surge voltage category       | II                           |
| Pollution degree             | 3                            |
| Insertion/withdrawal cycles  | ≥ 100                        |

### Material

|   |   |
|---|---|
| Inflammability class 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   |

### Cable

|                                    |   |
|------------------------------------|---|
| Cable type                         | PVC black   |
| Cable type (abbreviation)          | PVC   |
| Cable abbreviation                 | LiYY  |
| Conductor cross section            | 4x 0.25 mm <sup>2</sup> (signal line)                         |
| AWG signal line                    | 24  |
| Conductor structure signal line    | 14x 0.15 mm   |
| Core diameter including insulation | 1.17 mm ±0.05 mm  |
| Thickness, insulation              | ≥ 0.23 mm (Core insulation)<br>≥ 0.76 mm (Outer cable sheath) |
| Wire colors                        | brown, white, blue, black                                     |
| Overall twist                      | 4 wires, twisted  |
| External sheath, color             | Black RAL 9005  |
| External cable diameter D          | 4.4 mm ±0.15 mm   |
| Cable weight                       | 33 kg/km  |
| Outer sheath, material             | PVC   |
| Material conductor insulation      | PVC   |
| Conductor material                 | Bare Cu litz wires  |
| Insulation resistance              | ≥ 100 MΩ*km (at 20 °C)  |
| Conductor resistance               | max. 79 Ω/km (at 20 °C)                                       |
| Nominal voltage, cable             | ≤ 300 V   |
| Test voltage, cable                | ≥ 3000 V  |

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### Technical data

#### Cable

|                  |                      |
|------------------|----------------------|
| Flame resistance | As per UL-Style 2464 |
|------------------|----------------------|

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001855 |
|----------|----------|

### Approvals

#### Approvals

#### Approvals

UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

#### Approvals submitted

#### Approval details

|   |       |
|---|-------|
| UL Listed  |       |
| Nominal current IN  | 4 A   |
| Nominal voltage UN  | 125 V |

|  |     |
|--|-----|
| cUL Listed  |     |
| Nominal current IN   | 4 A |

## Sensor/Actuator cable - SAC-4P-M 8MS/3,0-PVC/M 8FR - 1415574

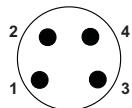
### Approvals

|                    |       |
|--------------------|-------|
|                    |       |
| Nominal voltage UN | 125 V |

cULus Listed 

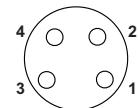
### Drawings

Schematic diagram



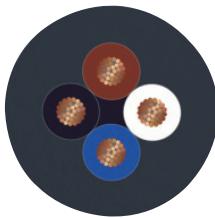
Pin assignment M8 plug, 4-pos., view male side

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

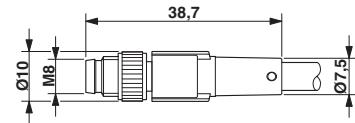
Cable cross section



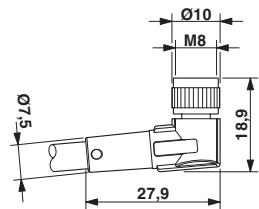
PVC black [PVC]

M8 x 1 male plug, straight version

Dimensional drawing

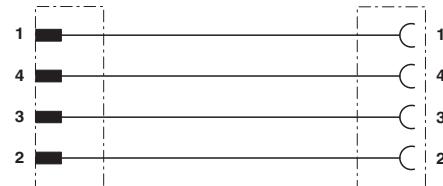


Dimensional drawing



Socket M8 x 1, angled

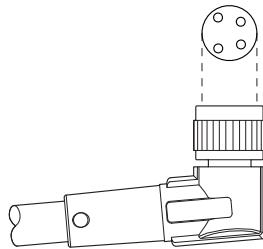
Circuit diagram



Contact assignment of M8 plugs/sockets

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Schematic diagram



Layout of connector pin assignments

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