

## Sensor/Actuator cable - SAC-4P-M 8MS/1,5-PVC - 1415542

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Sensor/Actuator cable, 4-position, PVC, Black RAL 9005, Plug straight M8, on free cable end, Cable length: 1.5 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 | 1.5 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                |

#### 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)           |
|                                    | ≥ 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                              |
| Flame resistance                   | As per UL-Style 2464                  |

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## 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 |

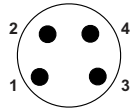
|  |       |
|--|-------|
| cUL Listed  |       |
| Nominal current IN   | 4 A   |
| Nominal voltage UN   | 125 V |

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

# Sensor/Actuator cable - SAC-4P-M 8MS/1,5-PVC - 1415542

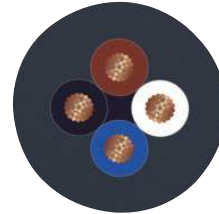
## Drawings

Schematic diagram



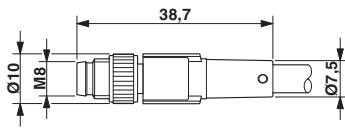
Pin assignment M8 plug, 4-pos., view male side

Cable cross section



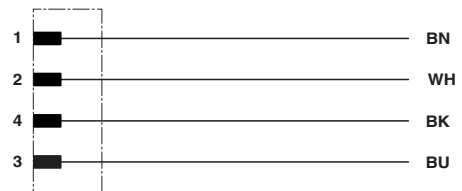
PVC black [PVC]

Dimensional drawing



M8 x 1 male plug, straight version

Circuit diagram



Contact assignment of the M12 plug