

## Sensor/Actuator cable - SAC-4P-M8MR/1,5-542/M8FS SH BK - 1406008


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Sensor/Actuator cable, 4-position, PVC, yellow, shielded, Plug angled M8, on Socket straight M8, Cable length: 1.5 m



### Key commercial data

|                      |   |
|----------------------|---|
| Packing unit         | 1 PCE   |
| GTIN                 | <br>4 046356 800211 |
| Custom tariff number | 85444290  |
| Country of origin    | UNITED STATES   |

### 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                             |

#### General

|                       |                                      |
|-----------------------|--------------------------------------|
| Rated current at 40°C | 4 A                                  |
| Rated voltage         | 30 V                                 |
| Number of positions   | 4                                    |
| Contact resistance    | ≤ 5 mΩ                               |
| Insulation resistance | ≥ 100 MΩ                             |
| Standards/regulations | M8 plug-in connector IEC 61076-2-104 |
| Coding                | A - standard                         |

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## Technical data

### General

|                             |   |
|-----------------------------|---|
| Surge voltage category      | II  |
| Pollution degree            | 3   |
| Insertion/withdrawal cycles | ≥ 100                                       |
| Torque                      | 0.2 Nm (M8 plug-in connectors)              |
| 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   |
| Status display              | No  |

### Line characteristics

|   |   |
|---|---|
| Cable type                                    | PVC yellow 105 °C                             |
| Cable type (abbreviation)                     | 542   |
| UL AWM style                                  | 2517 (105°C/300 V)                            |
| AWG signal line                               | 24  |
| Core diameter including insulation            | 1.12 mm ±0.03 mm                              |
| Wire colors                                   | brown, blue, black, white                     |
| Overall twist                                 | 4 wires, twisted                              |
| Shielding                                     | Tinned copper braided shield                  |
| Optical shield covering                       | 85 %  |
| External sheath, color                        | yellow  |
| External cable diameter D                     | 4.9 mm ± 0.2 mm                               |
| Minimum bending radius, flexible installation | 12 x D  |
| Cable weight                                  | 37 kg/km                                      |
| Outer sheath, material                        | PVC   |
| Material conductor insulation                 | PVC   |
| Conductor material                            | Tin-plated Cu litz wires                      |
| Nominal voltage, cabel                        | 300 V   |
| Other resistance                              | UV resistant                                  |
| Ambient temperature (operation)               | -30 °C ... 105 °C (cable, fixed installation) |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

#### ETIM

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


#### Approvals

UL Listed / cUL Listed / cULus Listed

#### Ex Approvals


#### Approvals submitted


#### Approval details

|   |       |
|---|-------|
| UL Listed  |       |
| Nominal current I <sub>N</sub>  | 4 A   |
| Nominal voltage U <sub>N</sub>  | 125 V |

## Sensor/Actuator cable - SAC-4P-M8MR/1,5-542/M8FS SH BK - 1406008

### Approvals

|  |       |
|--|-------|
| cUL Listed  |       |
| Nominal current I <sub>N</sub>   | 4 A   |
| Nominal voltage U <sub>N</sub>   | 125 V |

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

### Accessories

#### Accessories

#### Marking

Insert label - PABA WH/15 - 1013151



Insert label, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA YE/15 - 1013698



Insert label, Strip, yellow, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA RD/15 - 1013944



Insert label, Strip, red, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

## Sensor/Actuator cable - SAC-4P-M8MR/1,5-542/M8FS SH BK - 1406008

### Accessories

Conductor marker carrier - PATO 2/15 - 1013122



Conductor marker carrier, transparent, Unlabeled, Mounting type: Clip on, Cable diameter: 2.8-4.4 mm, Lettering field: 4 x 15 mm

Conductor marker carrier - PATO 3/15 - 1013135



Conductor marker carrier, transparent, Unlabeled, Mounting type: Clip on, Cable diameter: 4.4-6.7 mm, Lettering field: 4 x 15 mm

Conductor marker carrier - PATO 4/15 - 1013148



Conductor marker carrier, transparent, Unlabeled, Mounting type: Clip on, Cable diameter: 6.7-10 mm, Lettering field: 4 x 15 mm

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

### Protection and sealing elements

Sealing cap - PROT-M 8 FS-PA-CHAIN - 1430857



M8 sealing cap made of plastic with fixing band for sensor cables, for M8 plugs

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### Accessories

Screw plug - PROT-M 8 MS-PA-CHAIN - 1430860

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets



### Tools

Torque screwdriver - TSD 02 SAC - 1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

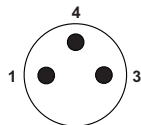
Tool - SAC BIT M8-D10 - 1208461



Nut for assembling sensor/actuator cables with M8 connector and for M8 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

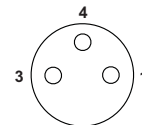
### Drawings

Schematic diagram



Pin assignment M8 plug, 3-pos., view male side

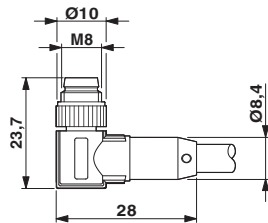
Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

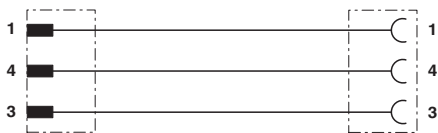
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Dimensioned drawing



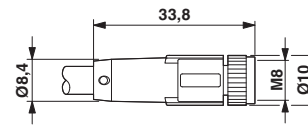
Plug M8 x 1, angled, shielded

Circuit diagram



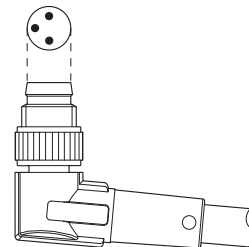
Contact assignment of M8 plugs/sockets

Dimensioned drawing



Socket M8 x 1, straight, shielded

Schematic diagram



Layout of connector pin assignments