

## Sensor/Actuator cable - SAC-4P-MS/0,5-542/M8FRSH SCOBK - 1405996

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Sensor/Actuator cable, 4-position, PVC, yellow, shielded, Plug straight M12-SPEEDCON, A-coded, on Socket angled M8, Cable length: 0.5 m



### Key commercial data

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit         | 1 PCE                                                                                                   |
| GTIN                 | <br>4 046356 800334 |
| Custom tariff number | 85444290                                                                                                |
| Country of origin    | UNITED STATES                                                                                           |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.5 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 | M12 plug-in connector IEC 61076-2-101 |
|                       | M8 plug-in connector IEC 61076-2-104  |

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## Technical data

### General

|                             |                                                                  |
|-----------------------------|------------------------------------------------------------------|
| Coding                      | A - standard                                                     |
| Surge voltage category      | II                                                               |
| Pollution degree            | 3                                                                |
| Insertion/withdrawal cycles | ≥ 100                                                            |
| Torque                      | 0.4 Nm (M12 plug-in connector)<br>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) |

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### 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 | 27279218 |
| eCl@ss 7.0 | 27279218 |

#### 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

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##### Approvals

UL Listed / cUL Listed / cULus Listed

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##### Ex Approvals

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##### Approvals submitted

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##### Approval details

## Sensor/Actuator cable - SAC-4P-MS/0,5-542/M8FRSH SCOBK - 1405996

### Approvals

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

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

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

### Accessories

#### Accessories

##### Fuse

Fuse clip - SAC-M12-EXCLIP-M - 1558988



Fuse clip for the pin side of various M12 sensor/actuator connectors prevents plug-in connections being interrupted without using a tool

### 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

## Sensor/Actuator cable - SAC-4P-MS/0,5-542/M8FRSH SCOBK - 1405996

### Accessories

#### 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

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#### 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

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#### 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

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#### 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

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#### 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

## Sensor/Actuator cable - SAC-4P-MS/0,5-542/M8FRSH SCOBK - 1405996

### Accessories

Marker pen - B-STIFT - 1051993



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

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### Protection and sealing elements

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 sockets



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

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



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### 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

## Sensor/Actuator cable - SAC-4P-MS/0,5-542/M8FRSH SCOBK - 1405996

### Accessories

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Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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Tool - SAC BIT M12-D15 - 1208432



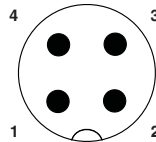
Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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### Drawings

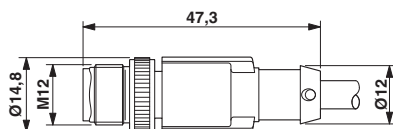
## Sensor/Actuator cable - SAC-4P-MS/0,5-542/M8FRSH SCOBK - 1405996

Schematic diagram



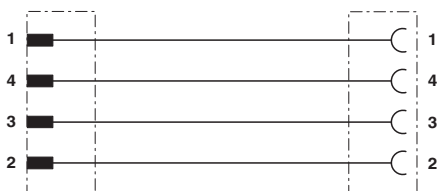
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Dimensioned drawing



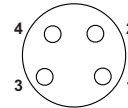
Plug, M12 x 1, straight, shielded

Circuit diagram



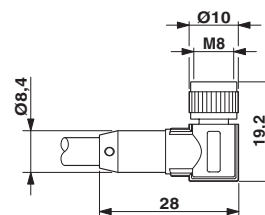
Contact assignment of M12 plugs / M8 sockets

Schematic diagram



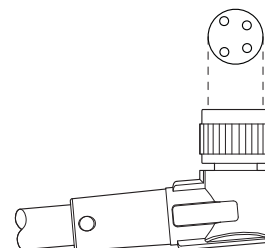
Pin assignment M8 socket, 4-pos., view female side

Dimensioned drawing



Socket M8 x 1, angled, shielded

Schematic diagram



Layout of connector pin assignments



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