

## Sensor/Actuator cable - SAC-4P- 5,0-542/ FS SH SCO BK - 1406188

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Sensor/Actuator cable, 4-position, PVC, yellow, shielded, free cable end, on Socket straight M12 SPEEDCON, Cable length: 5 m



### Key Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Packing unit                         | 1 STK         |
| Weight per Piece (excluding packing) | 250.000 g     |
| Custom tariff number                 | 85444290      |
| Country of origin                    | United States |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 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                | 250 V                         |
| Number of positions          | 4                             |
| Insulation resistance        | ≥ 100 MΩ                      |
| Coding                       | A - standard                  |
| Standards/regulations        | M12 connector IEC 61076-2-101 |
| Status display               | No                            |
| Protective circuit/component | Unwired                       |

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## Technical data

### General

|                             |                        |
|-----------------------------|------------------------|
| 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                |
| Sealing material                       | NBR                                         |

### Standards and Regulations

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

### Cable

|                                               |                              |
|-----------------------------------------------|------------------------------|
| Cable type                                    | PVC yellow 105 °C            |
| Cable type (abbreviation)                     | 542                          |
| UL AWM style                                  | 2517 (105°C/300 V)           |
| AWG signal line                               | 22                           |
| Core diameter including insulation            | 1.27 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                     | 5.5 mm ±0.2 mm               |
| Minimum bending radius, flexible installation | 12 x D                       |
| Cable weight                                  | 48 kg/km                     |
| Outer sheath, material                        | PVC                          |
| Material conductor insulation                 | PVC                          |
| Conductor material                            | Tin-plated Cu litz wires     |
| Insulation resistance                         | ≥ (550 M Ohms/m @ 500V)      |
| Conductor resistance                          | max. 50.5 Ω/km (20° C)       |
| Nominal voltage, cable                        | 300 V                        |

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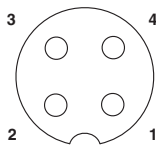
Technical data

Cable

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| Special properties              | UL standards PLTC and ITC                     |
| Other resistance                | UV resistant                                  |
| Ambient temperature (operation) | -30 °C ... 105 °C (cable, fixed installation) |

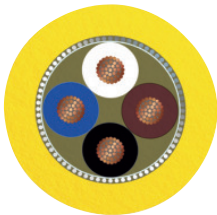
Drawings

Schematic diagram



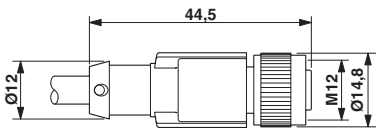
Pin assignment M12 socket, 4-pos., A-coded, view female side

Cable cross section



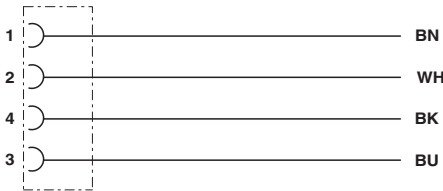
PVC yellow 105 °C [542]

Dimensional drawing



M12 x 1 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

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### Approvals

|                                                                                                                                                                                                                                                                 |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| UL Listed  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 221474 |       |
|                                                                                                                                                                                                                                                                 |       |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                  | 4 A   |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                  | 300 V |

|                                                                                                                                                                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| cUL Listed  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 221474 |       |
|                                                                                                                                                                                                                                                                  |       |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                   | 4 A   |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                   | 300 V |

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