

## Sensor/actuator cable - SAC-HZ-4P-2,0-542/FR SH SCO BK - 1409557

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Sensor/actuator cable, 4-position, PVC, yellow, shielded, free cable end, on Socket angled M12 SPEEDCON, A-coded, cable length: 2 m



### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 1 pc                                                                                                    |
| Minimum order quantity | 10 pc                                                                                                   |
| GTIN                   | <br>4 055626 018133 |
| GTIN                   | 4055626018133                                                                                           |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |

#### General

|                       |                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| Note                  | These cable assemblies are UL/cUL listed for use in Class I, Division 2 (CID2) hazardous locations. |
| Rated current at 40°C | 4 A                                                                                                 |
| Rated voltage         | 48 V AC                                                                                             |
|                       | 60 V DC                                                                                             |
| Number of positions   | 4                                                                                                   |
| Insulation resistance | ≥ 100 MΩ                                                                                            |
| Coding                | A - standard                                                                                        |
| Standards/regulations | M12 connector IEC 61076-2-101                                                                       |
| Status display        | No                                                                                                  |

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## Technical data

### General

|                              |                        |
|------------------------------|------------------------|
| Protective circuit/component | unwired                |
| Overvoltage category         | II                     |
| Degree of pollution          | 3                      |
| 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                |

### Standards and Regulations

|                                        |                                    |
|----------------------------------------|------------------------------------|
| Standard designation                   | M12 connector                      |
| Standards/regulations                  | IEC 61076-2-101                    |
| Flammability rating according to UL 94 | HB                                 |
| UL, USA/Canada                         | Class I, Div. 2, Groups A, B, C, D |

### Cable

|                                               |                              |
|-----------------------------------------------|------------------------------|
| Cable type                                    | PVC yellow 105 °C            |
| Cable type (abbreviation)                     | 542                          |
| UL AWM style                                  | 2517 (105 °C / 300 V)        |
| AWG signal line                               | 22                           |
| Conductor structure signal line               | 30x 1.30 mm                  |
| 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                        |
| Special properties                            | UL standards PLTC and ITC    |
| Flame resistance                              | FT4                          |

# Sensor/actuator cable - SAC-HZ-4P-2,0-542/FR SH SCO BK - 1409557

## Technical data

### Cable

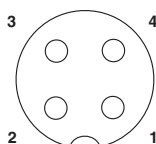
|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Other resistance                | UV resistant                                    |
| Ambient temperature (operation) | -30 °C ... 105 °C (cable, fixed installation)   |
|                                 | -5 °C ... 105 °C (cable, flexible installation) |

### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

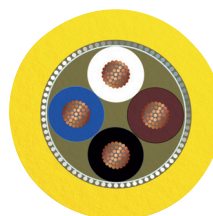
## Drawings

Schematic diagram



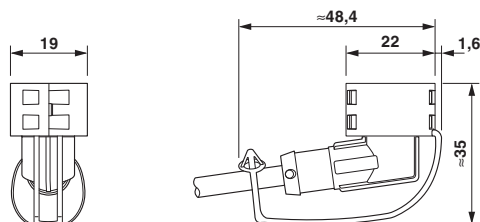
Pin assignment M12 socket, 4-pos., A-coded, view female side

Cable cross section



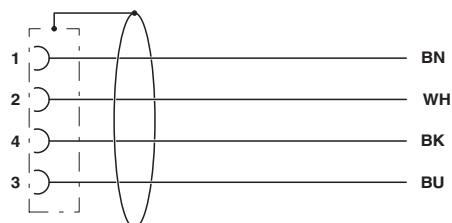
PVC yellow 105 °C [542]

Dimensional drawing



EXCLIP mounted plug

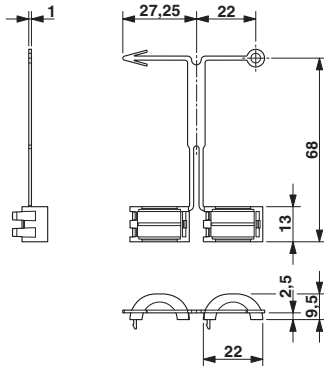
Circuit diagram



Contact assignment of the M12 plug and the M12 socket

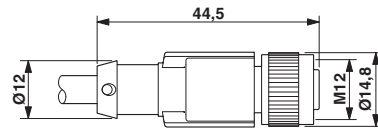
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Dimensional drawing



EXCLIP socket

Dimensional drawing



M12 x 1 socket, straight, shielded

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