

## Sensor/Actuator cable - SAC-HZ-3P-MR/1,5-542/FR SCO BK - 1409527

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Sensor/Actuator cable, 3-position, PVC, yellow RAL 1021, Plug angled M12 SPEEDCON, A-coded, on Socket angled M12 SPEEDCON, A-coded, Cable length: 1.5 m



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| Minimum order quantity               | 10 STK                                                                                                  |
| GTIN                                 | <br>4 055626 017815 |
| Weight per Piece (excluding packing) | 22.22 g                                                                                                 |
| Weight per piece (including packing) | 22.22 g                                                                                                 |
| Country of origin                    | United States                                                                                           |
| Note                                 | Made to Order (non-returnable)                                                                          |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 1.5 m |
|-----------------|-------|

#### Ambient conditions

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

#### General

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| Note                         | These cable assemblies are UL/cUL listed for use in Class I, Division 2 (CID2) hazardous locations. |
| Number of positions          | 3                                                                                                   |
| Coding                       | A - standard                                                                                        |
| Standards/regulations        | M12 connector IEC 61076-2-101                                                                       |
| Status display               | No                                                                                                  |
| Protective circuit/component | Unwired                                                                                             |
| Overvoltage category         | II                                                                                                  |

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## Technical data

### General

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

### 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                                            |
| Core diameter including insulation            | 1.27 mm ±0.03 mm                              |
| Wire colors                                   | brown, blue, black                            |
| Overall twist                                 | 3 wires, twisted                              |
| External sheath, color                        | yellow                                        |
| External cable diameter D                     | 4.7 mm ±0.2 mm                                |
| Minimum bending radius, flexible installation | 8 x D                                         |
| Cable weight                                  | 30 kg/km                                      |
| Outer sheath, material                        | PVC                                           |
| Material conductor insulation                 | PVC                                           |
| Conductor material                            | Tin-plated Cu litz wires                      |
| Insulation resistance                         | ≥ ()                                          |
| Conductor resistance                          | max. 50.5 Ω/km (20° C)                        |
| Nominal voltage, cable                        | 300 V                                         |
| Special properties                            | UL standards PLTC and ITC                     |
| Other resistance                              | UV resistant                                  |
| Ambient temperature (operation)               | -30 °C ... 105 °C (cable, fixed installation) |

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## Classifications

eCl@ss

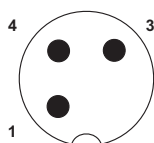
|            |          |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

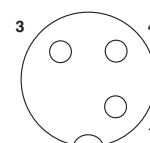
## Drawings

Schematic diagram



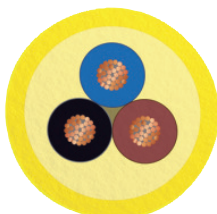
Pin assignment M12 plug, 3-pos., A-coded, view male side

Schematic diagram



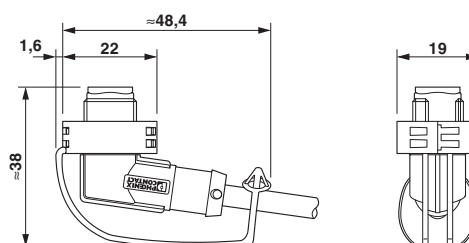
Pin assignment M12 socket, 3-pos., A-coded, view female side

Cable cross section



PVC yellow 105 °C [542]

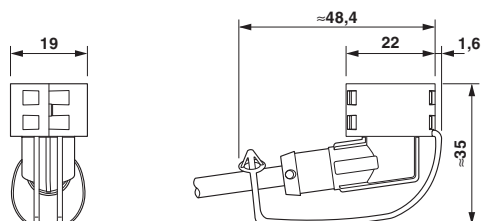
Dimensional drawing



EXCLIP mounted plug

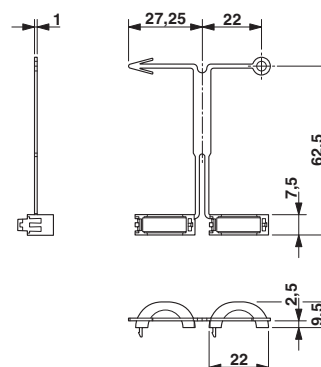
## Sensor/Actuator cable - SAC-HZ-3P-MR/1,5-542/FR SCO BK - 1409527

Dimensional drawing



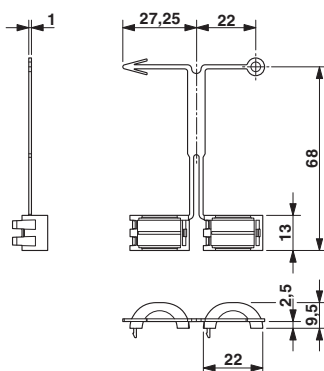
EXCLIP mounted socket

Dimensional drawing



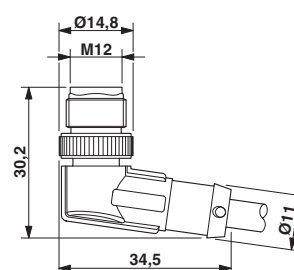
EXCLIP plug

Dimensional drawing



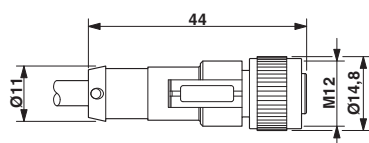
EXCLIP socket

Dimensional drawing



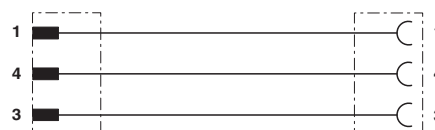
M12 x 1 male plug, angled

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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