

## Sensor/actuator cable - SAC-3P- 2,0-542/ FR SCO BK - 1406327


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Sensor/actuator cable, 3-position, PVC, yellow, free cable end, on Socket angled M12 SPEEDCON, A-coded, cable length: 2 m



### Key Commercial Data

|                        |   |
|------------------------|---|
| Packing unit           | 1 STK   |
| Minimum order quantity | 50 STK  |
| GTIN                   | <br>4 046356 797160 |
| GTIN                   | 4046356797160   |

### Technical data

#### Dimensions

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

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |

#### General

|                              |                               |
|------------------------------|-------------------------------|
| Rated current at 40°C        | 4 A                           |
| Rated voltage                | 250 V                         |
| Number of positions          | 3                             |
| Insulation resistance        | ≥ 100 MΩ                      |
| 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                      |
| 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              |

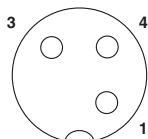
### Cable

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

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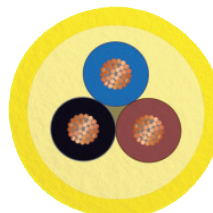
## Drawings

Schematic diagram



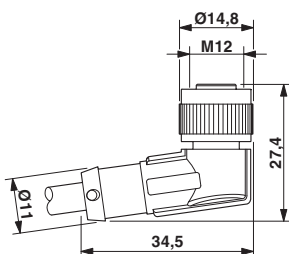
Pin assignment M12 socket, 3-pos., A-coded, view female side

Cable cross section



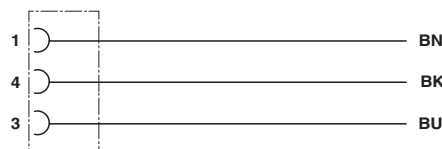
PVC yellow 105 °C [542]

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of the M12 socket

## Approvals

### Approvals

Approvals

UL Listed / cUL Listed / cULus Listed


Ex Approvals

### Approval details

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

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### Approvals

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

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>