

## Sensor/actuator cable - SAC-3P-MS/ 2,4-140/FR SCO - 1409779

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Sensor/actuator cable, 3-position, PUR/PVC, yellow, Plug straight M12 SPEEDCON, on Socket angled M12 SPEEDCON, A-coded, cable length: 2.4 m



### Key Commercial Data

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Packing unit           | 1 pc                                                                                                  |
| Minimum order quantity | 50 pc                                                                                                 |
| GTIN                   | <br>4 046356 881760 |
| GTIN                   | 4046356881760                                                                                         |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 2.4 m |
|-----------------|-------|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |
|                      | IP68 |

#### General

|                             |                               |
|-----------------------------|-------------------------------|
| Rated current at 40°C       | 4 A                           |
| Rated voltage               | 250 V AC                      |
|                             | 250 V DC                      |
| Number of positions         | 3                             |
| Insulation resistance       | ≥ 100 MΩ                      |
| Coding                      | A - standard                  |
| Standards/regulations       | M12 connector IEC 61076-2-101 |
| Status display              | No                            |
| Overvoltage category        | II                            |
| Degree of pollution         | 3                             |
| Insertion/withdrawal cycles | ≥ 100                         |

#### Material

|                                        |      |
|----------------------------------------|------|
| Flammability rating according to UL 94 | HB   |
| Contact material                       | CuSn |

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### Technical data

#### Material

|                          |                                             |
|--------------------------|---------------------------------------------|
| 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                                    | PUR/PVC yellow                               |
| Cable type (abbreviation)                     | 140                                          |
| Cable abbreviation                            | LiYY-11Y                                     |
| Conductor cross section                       | 0.34 mm <sup>2</sup>                         |
| AWG signal line                               | 22                                           |
| Conductor structure signal line               | 42x 0.10 mm                                  |
| Core diameter including insulation            | 1.52 mm ±0.02 mm                             |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)                  |
|                                               | ≥ 0.38 mm (Outer cable sheath)               |
|                                               | approx. 0.45 mm (Inner sheath)               |
| Wire colors                                   | brown, blue, black                           |
| Overall twist                                 | 3 wires, twisted                             |
| External sheath, color                        | yellow                                       |
| External cable diameter D                     | 5.2 mm ±0.2 mm                               |
| Smallest bending radius, fixed installation   | 52 mm                                        |
| Smallest bending radius, movable installation | 52 mm                                        |
| Number of bending cycles                      | 2000000                                      |
| Bending radius                                | 52 mm                                        |
| Traversing path                               | 5 m                                          |
| Traversing rate                               | 3 m/s                                        |
| Cable weight                                  | 37 kg/km                                     |
| Outer sheath, material                        | PUR                                          |
| Material, inner sheath                        | PVC                                          |
| Material conductor insulation                 | PVC                                          |
| Conductor material                            | Bare Cu litz wires                           |
| Insulation resistance                         | ≥ 100 MΩ*km (at 20 °C)                       |
| Conductor resistance                          | max. 57.3 Ω/km (at 20 °C)                    |
| Nominal voltage, cable                        | 300 V                                        |
| Test voltage, cable                           | 2500 V                                       |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation) |

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## Technical data

### Cable

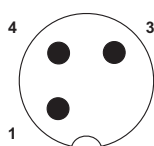
|  |                                                |
|--|------------------------------------------------|
|  | -5 °C ... 80 °C (cable, flexible installation) |
|--|------------------------------------------------|

### Environmental Product Compliance

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

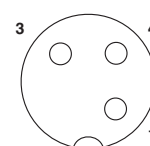
## Drawings

Schematic diagram



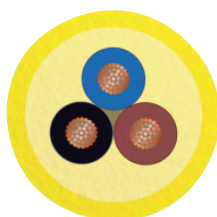
Pin assignment M12 plug, 3-pos., A-coded, view male side

Schematic diagram



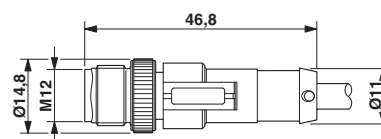
Pin assignment M12 socket, 3-pos., A-coded, view female side

Cable cross section



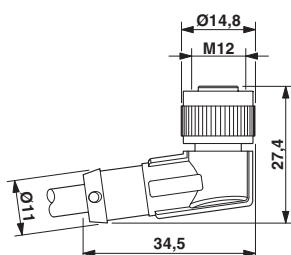
PUR/PVC yellow [140]

Dimensional drawing



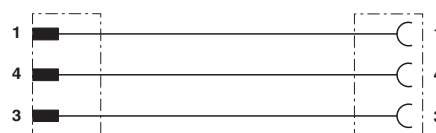
Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

## Approvals

### Approvals

## Sensor/actuator cable - SAC-3P-MS/ 2,4-140/FR SCO - 1409779

### Approvals

Approvals

EAC

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Ex Approvals

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### Approval details

|     |                                                                                   |                          |
|-----|-----------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|-----------------------------------------------------------------------------------|--------------------------|

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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>

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