

## Sensor/actuator cable - SAC-3P-MS/ 5,0-547/FS SCO BK - 1424971


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Sensor/actuator cable, 3-position, PVC, yellow, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, cable length: 5 m



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 055626 402185 |
| GTIN         | 4055626402185   |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 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 AC<br>250 V DC          |
| Number of positions          | 3                             |
| Insulation resistance        | ≥ 10 MΩ                       |
| Coding                       | A - standard                  |
| Standards/regulations        | M12 connector IEC 61076-2-101 |
| Status display               | No                            |
| Protective circuit/component | unwired                       |
| Overvoltage category         | II                            |
| Degree of pollution          | 3                             |
| Torque                       | 0.4 Nm (M12 connector)        |

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## Technical data

### 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)                  | 547   |
| UL AWM style                               | 2517 (105 °C / 300 V)                         |
| AWG signal line                            | 18  |
| Conductor structure signal line            | 41x 0.16 mm                                   |
| Core diameter including insulation         | 1.7 mm ±0.03 mm                               |
| Wire colors                                | brown, blue, black                            |
| Overall twist                              | 3 wires, twisted                              |
| External sheath, color                     | yellow  |
| External cable diameter D                  | 5.7 mm ±0.2 mm                                |
| Minimum bending radius, fixed installation | 8 x D   |
| Outer sheath, material                     | PVC   |
| Material conductor insulation              | PVC   |
| Conductor material                         | Tin-plated Cu litz wires                      |
| Nominal voltage, cable                     | 300 V   |
| Special properties                         | C(UL) CMX OUTDOOR-CMG 105 °C                  |
|  | UL ITC/PLTC 105 °C                            |
|  | CSA AWM I/II A/B FT4 105 °C / 300 V           |
| Flame resistance                           | FT4   |
| Ambient temperature (operation)            | -30 °C ... 105 °C (cable, fixed installation) |

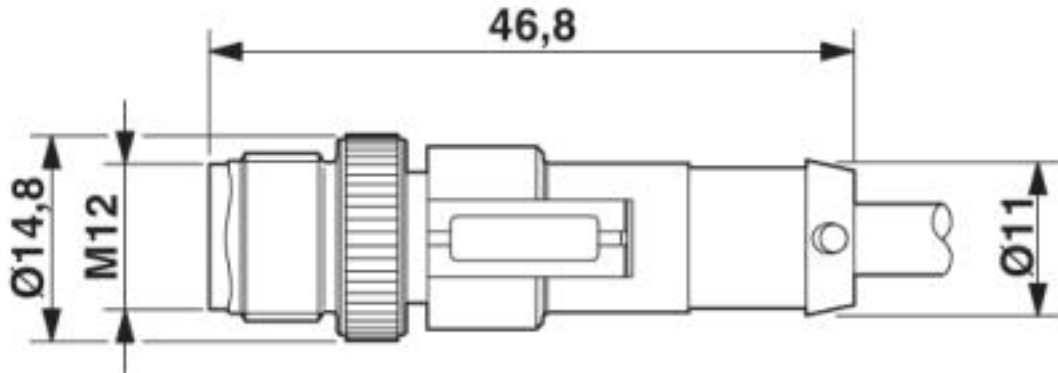
### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

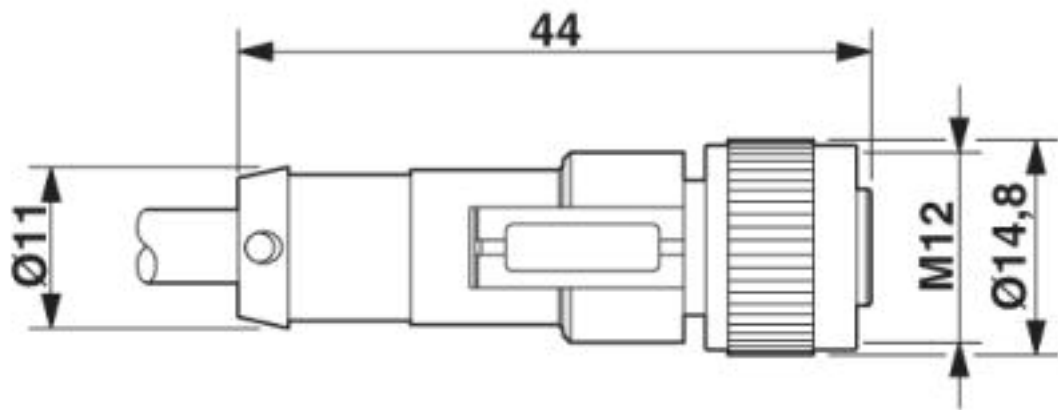
# Sensor/actuator cable - SAC-3P-MS/ 5,0-547/FS SCO BK - 1424971

Dimensional drawing



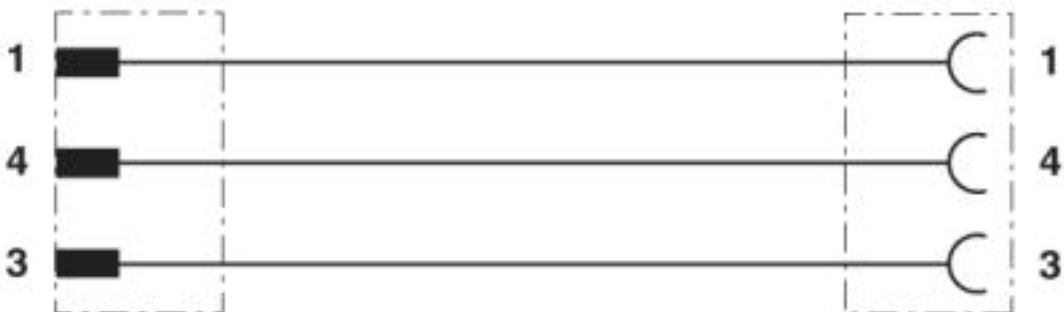
Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight

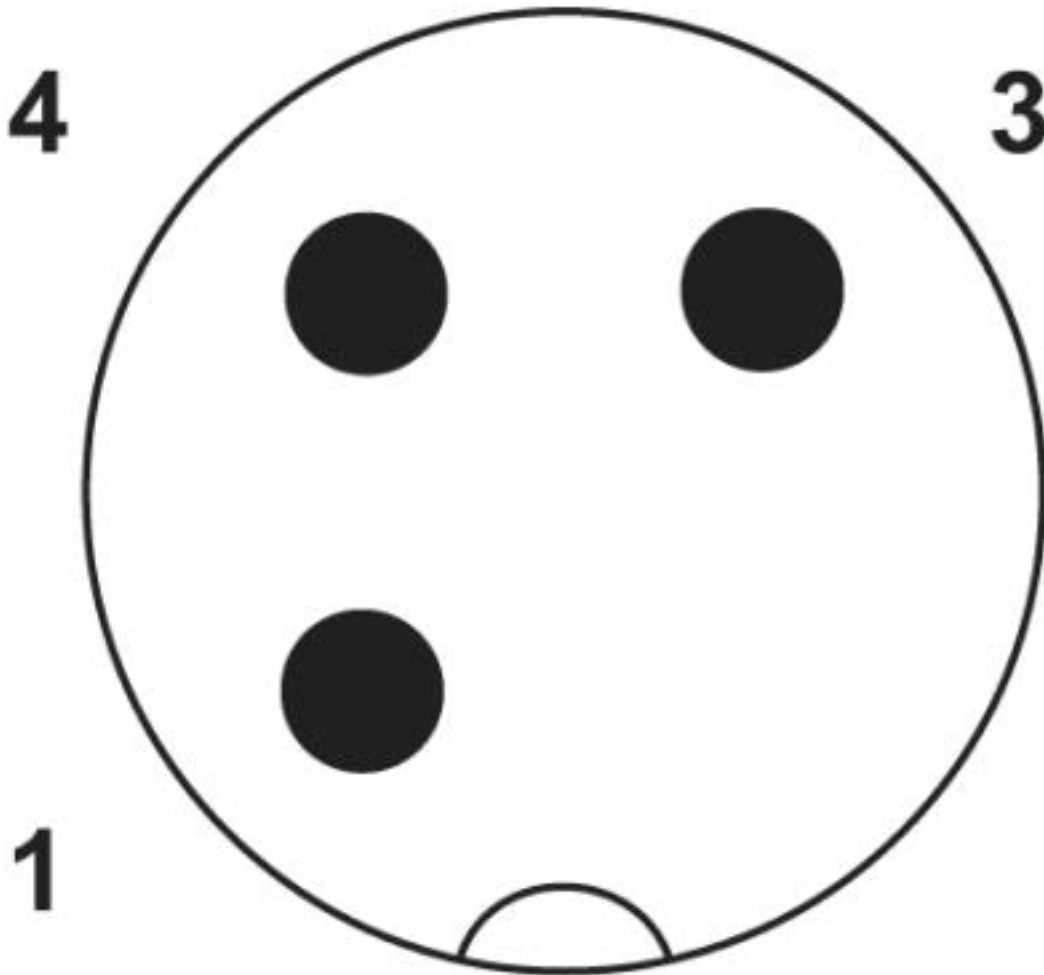
Circuit diagram



Contact assignment of the M12 plug

# Sensor/actuator cable - SAC-3P-MS/ 5,0-547/FS SCO BK - 1424971

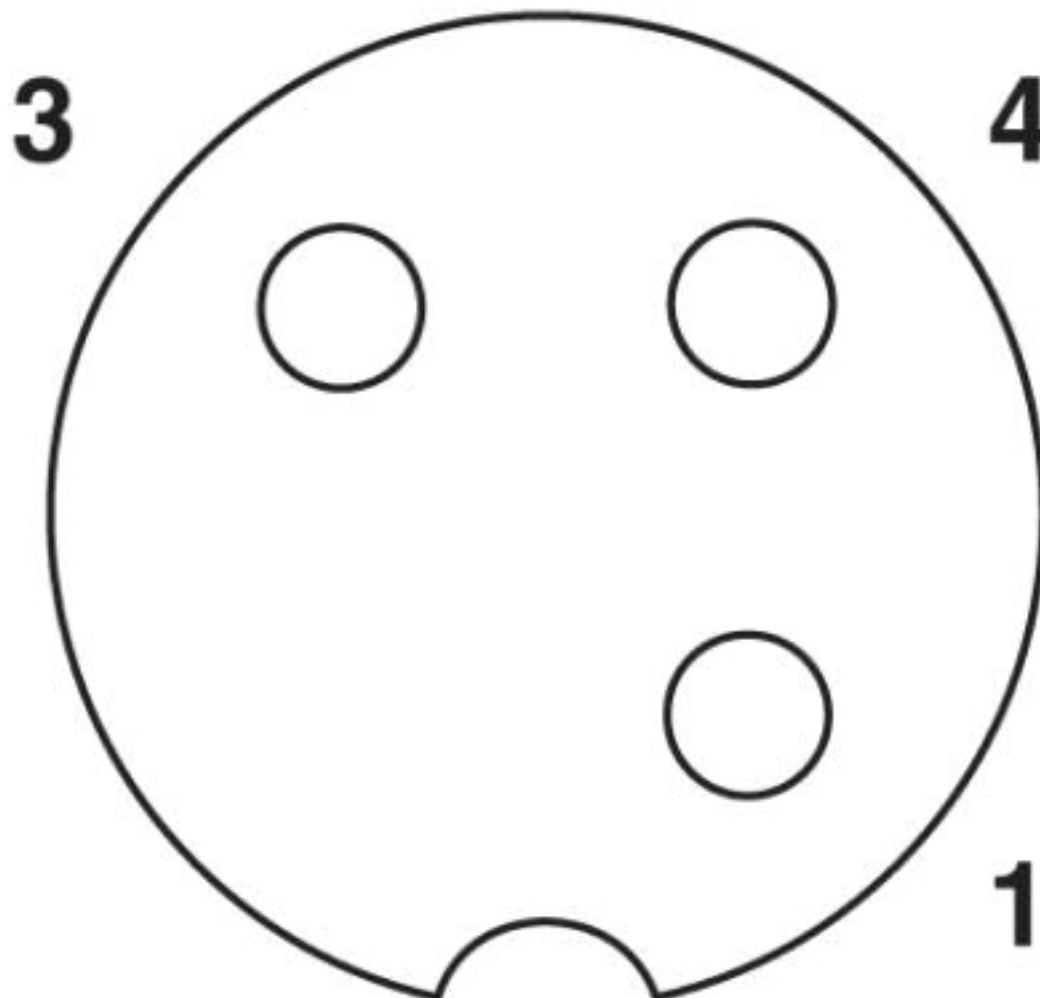
Schematic diagram



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

# Sensor/actuator cable - SAC-3P-MS/ 5,0-547/FS SCO BK - 1424971

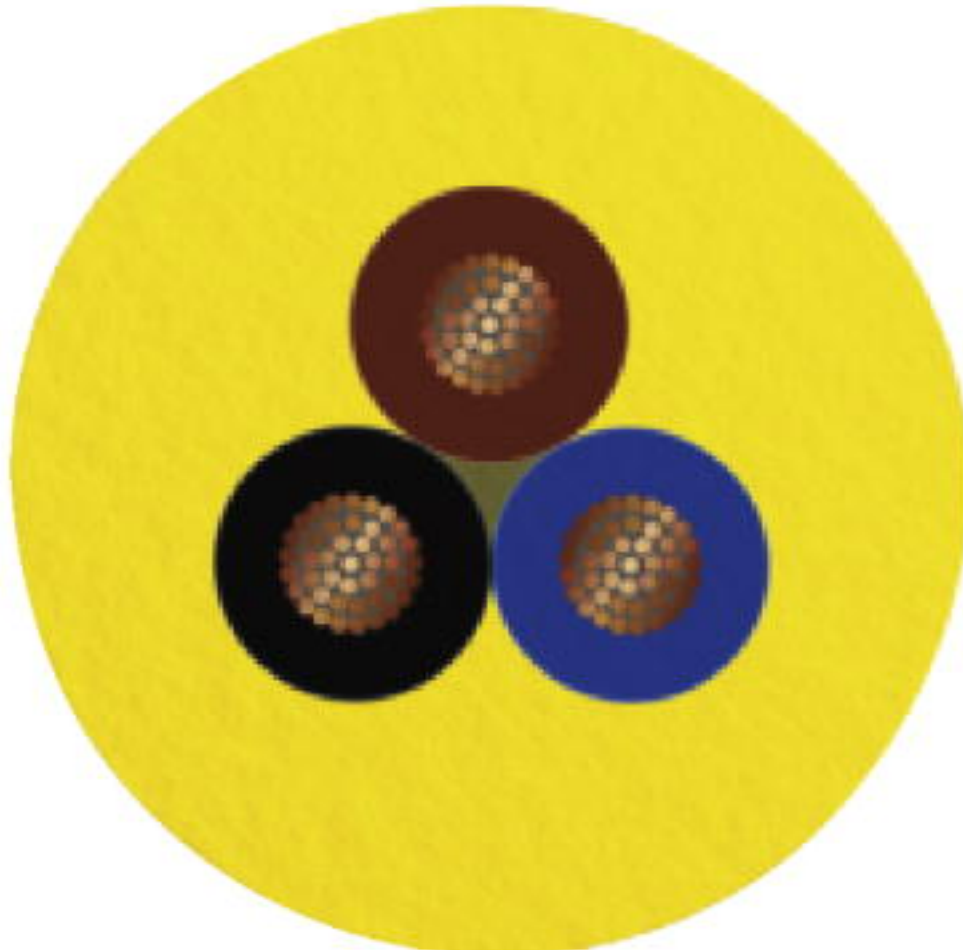
Schematic diagram



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

## Sensor/actuator cable - SAC-3P-MS/ 5,0-547/FS SCO BK - 1424971

Cable cross section



PVC yellow 105 °C [547]

### Approvals

Approvals

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Approvals

UL Listed / cUL Listed / cULus Listed

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Ex Approvals


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Approval details

# Sensor/actuator cable - SAC-3P-MS/ 5,0-547/FS SCO BK - 1424971

## 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 voltage UN |   | 300 V   |               |
| Nominal current IN |   | 4 A   |               |

|                    |   |   |               |
|--------------------|---|---|---------------|
| 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 |
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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>