

## Sensor/actuator cable - SAC-12P- 1,5-PVC/FR SCO - 1554898

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Sensor/actuator cable, 12-position, PVC, black RAL 9005, free cable end, on Socket angled M12 SPEEDCON, A-coded, cable length: 1.5 m

### Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Save time, thanks to installation with SPEEDCON fast locking system
- ✓ Save space – with high-pos. connectors



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 STK                                                                                                   |
| GTIN         | <br>4 046356 176507 |
| GTIN         | 4046356176507                                                                                           |

### Technical data

#### Dimensions

|                                            |        |
|--------------------------------------------|--------|
| Length of cable                            | 1.5 m  |
| Cable diameter                             | 5.9 mm |
| Stripping length of the free conductor end | 35 mm  |

#### Ambient conditions

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

#### General

|                       |         |
|-----------------------|---------|
| Rated current at 40°C | 1.5 A   |
| Rated voltage         | 30 V AC |
|                       | 30 V DC |

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## Technical data

### General

|                              |                               |
|------------------------------|-------------------------------|
| Number of positions          | 12                            |
| 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                            |
| Degree of pollution          | 3                             |
| Torque                       | 0.4 Nm (M12 connector)        |

### Material

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

### Cable

|                                               |                                                |
|-----------------------------------------------|------------------------------------------------|
| Cable type                                    | PVC black                                      |
| Conductor cross section                       | 0.14 mm²                                       |
| AWG signal line                               | 26                                             |
| Conductor structure signal line               | 18x 0.10 mm                                    |
| Wire colors                                   | Color-coded DIN 47100                          |
| Overall twist                                 | Wires twisted in layers                        |
| External sheath, color                        | black RAL 9005                                 |
| External cable diameter                       | 5.90 mm                                        |
| Smallest bending radius, movable installation | 88.5 mm                                        |
| Outer sheath, material                        | PVC                                            |
| Material conductor insulation                 | PVC                                            |
| Conductor material                            | Bare Cu litz wires                             |
| Standards/specifications                      | M12 connector IEC 61076-2-101                  |
| Conductor resistance                          | 142 Ω/m                                        |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)   |
|                                               | -5 °C ... 80 °C (cable, flexible installation) |

### Standards and Regulations

|                                        |                 |
|----------------------------------------|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Flammability rating according to UL 94 | HB              |

### Environmental Product Compliance

Sensor/actuator cable - SAC-12P- 1,5-PVC/FR SCO - 1554898

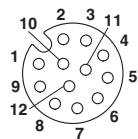
Technical data

Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | NOTE 15571-58-1                                                                                     |
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Schematic diagram



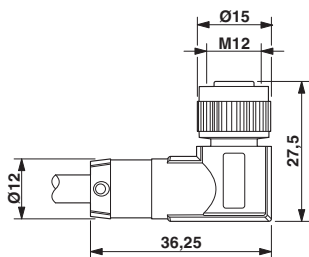
Pin assignment M12, 12-pos., female side view

Cable cross section



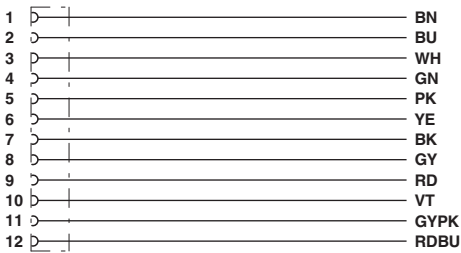
PVC black [PVC]

Dimensional drawing



M12-SPEEDCON socket, angled

Circuit diagram



Contact assignment of the M12 socket

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

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### Approvals

|     |                                                                                   |               |
|-----|-----------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-----------------------------------------------------------------------------------|---------------|

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