

# SAC-12P- 5,0-PVC/FS SCO

Order No.: 1554872



Sensor/Actuator cable, 12-position, PVC, Black RAL 9005, Free conductor end, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 5 m



| Commercial data          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 046356 176484 |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 96 (PC-2009)                                                                                     |

## Product notes

WEEE/RoHS-compliant since:  
2007-04-13



## Technical data

| General data          |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 1.5 A                      |
| Rated voltage         | 30 V                       |
| Number of positions   | 12                         |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable       | 5 m                        |

|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| Stripping length of the free conductor end | 35 mm                                                |
| Ambient temperature (operation)            | -25 °C ... 90 °C (Male connector / female connector) |

**General characteristics**

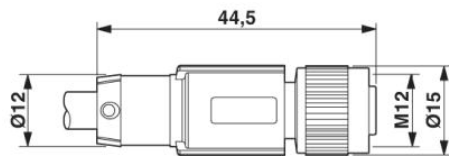
|                          |                                             |
|--------------------------|---------------------------------------------|
| Standards/regulations    | M12 connector IEC 61076-2-101               |
| Coding                   | A - standard                                |
| Surge voltage category   | II                                          |
| Pollution degree         | 3                                           |
| Degree of protection     | IP65/IP68/IP69K                             |
| 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                                         |
| Status display           | No                                          |

**Conductor data**

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

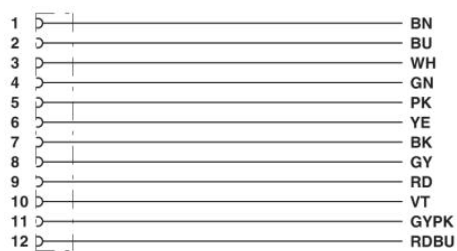
## Drawings

### Dimensioned drawing



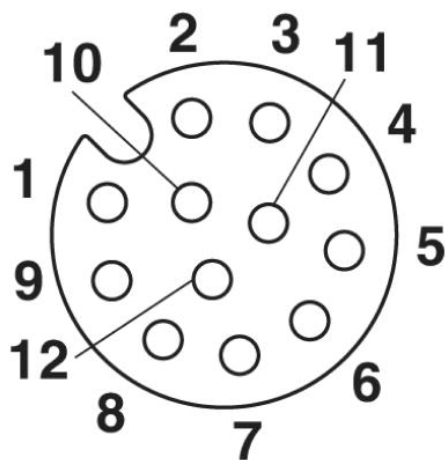
M12-SPEEDCON socket, straight

### Circuit diagram



Contact assignment of the M12 socket

### Schematic diagram



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