

## SAC-12P- 1,0-35T/FS SH SCO

Order No.: 1434730



Sensor/Actuator cable, 12-position, PUR, Black RAL 9005, shielded,  
Free conductor end, on Socket, straight M12-SPEEDCON, A-coded,  
Cable length: 1 m



| Commercial data          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 046356 456692 |
| Note                     | Made-to-order                                                                                         |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 98 (PC-2009)                                                                                     |

### Product notes

WEEE/RoHS-compliant since:  
2008-09-29



### Technical data

#### General data

|                       |          |
|-----------------------|----------|
| Rated current at 40°C | 1.5 A    |
| Rated voltage         | 30 V     |
| Number of positions   | 12       |
| Volume resistance     | ≤ 5 mΩ   |
| Insulation resistance | ≥ 100 MΩ |
| Length of cable       | 1 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 | PA 66                                       |
| Material of grip body    | TPU, hardly inflammable, self-extinguishing |
| Material, knurls         | Zinc die-cast, (nickel-plated)              |
| Sealing material         | NBR                                         |
| Status display           | No                                          |

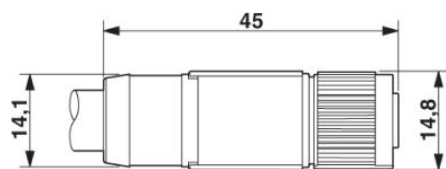
**Conductor data**

|                                    |                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------|
| Cable type                         | Black PUR/PVC twisted pair                                                           |
| Cable type (abbreviation)          | 35T                                                                                  |
| Conductor cross section            | 0.14 mm <sup>2</sup>                                                                 |
| AWG signal line                    | 26                                                                                   |
| Conductor structure signal line    | 18x 0.10 mm                                                                          |
| Core diameter including insulation | 1 mm ±0.05 mm                                                                        |
| External cable diameter            | 8.50 mm                                                                              |
| Wire colors                        | White-brown, green-yellow, gray-pink, blue-red, black-violet, gray/<br>pink-red/blue |
| External sheath, color             | Black RAL 9005                                                                       |
| Conductor resistance               | 142 Ω/km                                                                             |
| Overall twist                      | Six pairs around the filler to the core                                              |
| Shielding                          | Tinned copper braided shield                                                         |
| Optical shield covering            | 85 %                                                                                 |
| Outer sheath, material             | PUR                                                                                  |
| Material conductor insulation      | PVC                                                                                  |
| Conductor material                 | Tin-plated Cu litz wires                                                             |
| Number of bending cycles           | 2000000                                                                              |
| Bending radius                     | 85 mm                                                                                |

|                                 |                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------|
| Traversing path                 | 10 m                                                                                           |
| Traversing rate                 | 3 m/s                                                                                          |
| Acceleration                    | 10 m/s <sup>2</sup>                                                                            |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)<br>-5 °C ... 80 °C (cable, flexible installation) |
| Flame resistance                | DIN VDE 0472 part 804, test type B                                                             |
| Resistance to oil               | DIN VDE 0472 Part 803, test type B                                                             |
| Other resistance                | Hydrolysis and microbe resistant as per VDE 0282 section 10                                    |

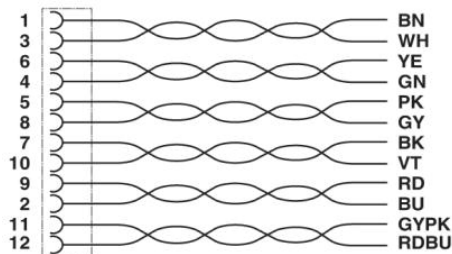
**Drawings**

Dimensioned drawing



Socket M12-SPEEDCON, straight, shielded

Circuit diagram



Contact assignment of the M12 socket

Schematic diagram

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

