

## SAC-17P-MR/ 3,0-35T SH SCO

Order No.: 1430255



Sensor/Actuator cable, 17-position, PUR/PVC, Black RAL 9005, shielded, Plug, angled M12-SPEEDCON, A-coded, on Free conductor end, Cable length: 3 m



| Commercial data          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 046356 322522 |
| Note                     | Made-to-order                                                                                         |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 99 (PC-2009)                                                                                     |

### Product notes

WEEE/RoHS-compliant since:  
2007-10-10



### Technical data

#### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 1.5 A                      |
| Rated voltage         | 30 V                       |
| Number of positions   | 17                         |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable       | 3 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)              |
| Status display           | No                                          |

**Conductor data**

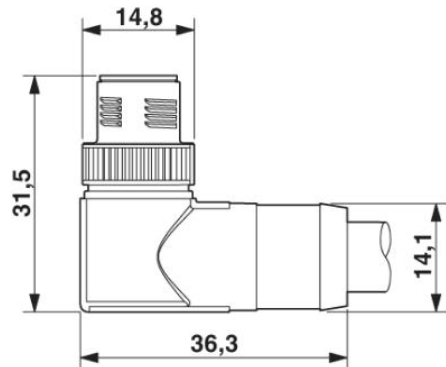
|                                    |                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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            | 9.20 mm                                                                                                                                                 |
| Wire colors                        | White-brown, green-yellow, gray-pink, blue-red, black-violet, gray/<br>pink-red/blue, white/green-brown/green, white/yellow-yellow/<br>brown-white/gray |
| External sheath, color             | Black RAL 9005                                                                                                                                          |
| Conductor resistance               | 142 Ω/km                                                                                                                                                |
| Overall twist                      | Eight pairs around the filler to the core                                                                                                               |
| Shielding                          | Tinned copper braided shield                                                                                                                            |
| Optical shield covering            | 85 %                                                                                                                                                    |
| Outer sheath, material             | PUR                                                                                                                                                     |
| Material, inner sheath             | PVC                                                                                                                                                     |
| Material conductor insulation      | PVC                                                                                                                                                     |
| Conductor material                 | Tin-plated Cu litz wires                                                                                                                                |
| Number of bending cycles           | 2000000                                                                                                                                                 |

|                                 |                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------|
| Bending radius                  | 92 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

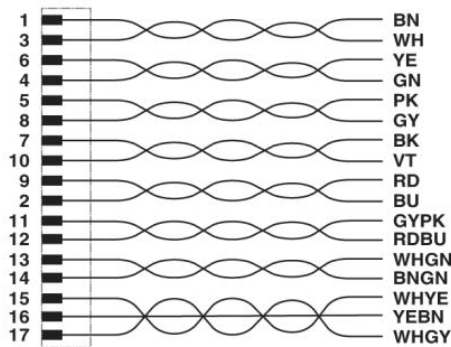
Dimensioned drawing

Plug M12 SPEEDCON, angled, shielded



Circuit diagram

Contact assignment of the M12 plug



Schematic diagram

Pin assignment M12 male connector, 17-pos., male side view

