

## SAC-17P-MS/0,5-35T/M23FS SHSCO

Order No.: 1437407



Sensor/Actuator cable, 17-position, PUR/PVC, Black RAL 9005, shielded, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M23, Cable length: 0.5 m



### Product notes

WEEE/RoHS-compliant since:  
2009-03-30



### Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 046356 456319 |
| Note                     | Made-to-order                                                                                         |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 99 (PC-2009)                                                                                     |

### 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       | 0.5 m                      |

|                                 |                                                       |
|---------------------------------|-------------------------------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Male connector / female connector)  |
|                                 | -40 °C ... 125 °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     | IP67                          |
| Contact material         | CuZn                          |
| Contact surface material | Ni/Au                         |
| Contact carrier material | PBT / PA 66                   |
| Material of grip body    | PUR                           |
| Material, knurls         | Nickel-plated brass           |
| Sealing material         | FKM                           |
| Status display           | No                            |

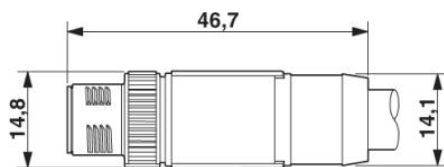
**Conductor data**

|                                    |                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                |

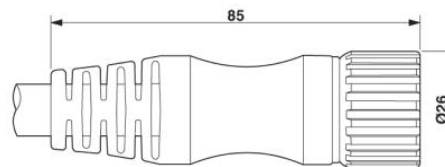
|                                 |                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------|
| Number of bending cycles        | 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

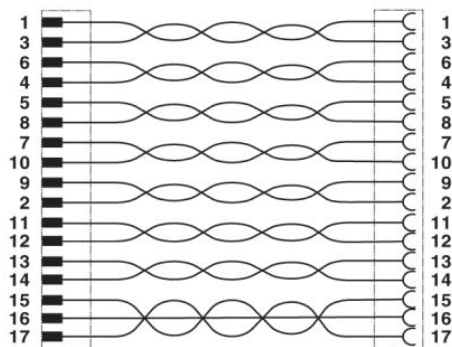


M12 SPEEDCON connector, straight, shielded



M23 socket, straight, shielded

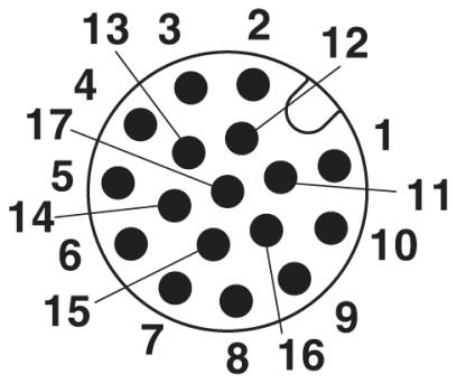
### Circuit diagram



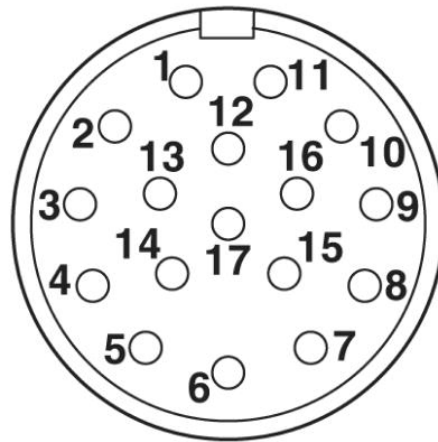
Contact assignment of the M12 plug and the M23 socket

Schematic diagram

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



Connector pin assignment M23 socket, 17-pos., female side view