

## Sensor/Actuator cable - SAC-17P- 5,0-PUR/FR SCO - 1430831

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Sensor/Actuator cable, 17-position, PUR halogen-free, Black RAL 9005, free cable end, on Socket angled M12 SPEEDCON, A-coded, Cable length: 5 m

### Product Features

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



### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 pc       |
| Weight per Piece (excluding packing) | 222.22 GRM |
| Custom tariff number                 | 85444290   |
| Country of origin                    | Germany    |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 5 m   |
| 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 |
|-----------------------|-------|

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### Technical data

#### General

|                              |                               |
|------------------------------|-------------------------------|
| Rated voltage                | 30 V                          |
| Number of positions          | 17                            |
| Contact resistance           | ≤ 5 mΩ                        |
| Insulation resistance        | ≥ 100 MΩ                      |
| Coding                       | A - standard                  |
| Standards/regulations        | M12 connector IEC 61076-2-101 |
| Status display               | No                            |
| Protective circuit/component | Unwired                       |
| Surge voltage category       | II                            |
| Pollution degree             | 3                             |
| Torque                       | 0.4 Nm (M12 connector)        |

#### Material

|   |   |
|---|---|
| Inflammability class according to UL 94 | V0  |
| 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   |

#### Cable

|                                    |  |
|------------------------------------|--|
| Conductor cross section            | 17x 0.14 mm <sup>2</sup> (signal line)   |
| AWG signal line                    | 26   |
| Conductor structure signal line    | 18x 0.10 mm  |
| Core diameter including insulation | 1 mm ±0.05 mm (signal line)  |
| Wire colors                        | White, brown, green, yellow, gray, pink, blue, red, black, violet, gray-pink, red-blue, white-green, brown-green, white-yellow, yellow-brown, white-gray |
| Overall twist                      | 17 wires twisted in layers   |
| External sheath, color             | Black RAL 9005   |
| External cable diameter D          | 8 mm   |
| Number of bending cycles           | 4000000  |
| Bending radius                     | 60 mm  |
| Traversing path                    | 10 m   |
| Traversing rate                    | 3 m/s  |
| Acceleration                       | 10 m/s <sup>2</sup>  |
| Outer sheath, material             | PUR  |
| Material conductor insulation      | PP   |
| Conductor material                 | Tin-plated Cu litz wires   |

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## Technical data

### Cable

|                                 |   |
|---------------------------------|---|
| Conductor resistance            | 142 Ω/km  |
| Special properties              | Low adhesion surface  |
| Resistance to oil               | DIN VDE 0472 Part 803, test type B                          |
| Other resistance                | Hydrolysis and microbe resistant as per VDE 0282 section 10 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)                |
|                                 | -5 °C ... 80 °C (cable, flexible installation)              |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |

## Approvals

### Approvals

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Approvals

GOST

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## Approvals

Ex Approvals

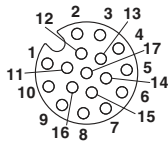
Approvals submitted

## Approval details



## Drawings

Schematic diagram



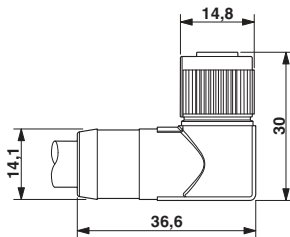
Pin assignment M12, 17-pos., socket side view

Cable cross section



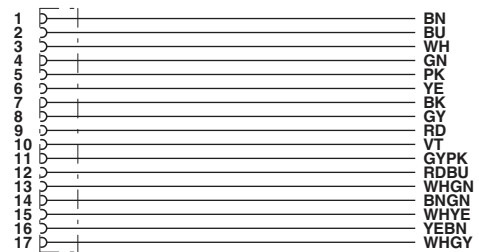
PUR halogen-free black [PUR]

Dimensioned drawing



M12-SPEEDCON socket, angled

Circuit diagram



Contact assignment of the M12 socket