

## Sensor/Actuator cable - SAC-17P-MR/ 1,5-35T SH SCO - 1430242

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Sensor/Actuator cable, 17-position, PUR/PVC, Black RAL 9005, shielded, Plug angled M12 SPEEDCON, A-coded, on free cable end, Cable length: 1.5 m

### Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Save time, thanks to installation with SPEEDCON fast locking system
- ✓ Save space – with high-pos. connectors
- ✓ Reliable signal transmission – 360° shielding in environments with electromagnetic interference



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 pc      |
| Weight per Piece (excluding packing) | 187.8 GRM |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|                                            |       |
|--------------------------------------------|-------|
| Length of cable                            | 1.5 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                             |

#### General

|                       |       |
|-----------------------|-------|
| Rated current at 40°C | 1.5 A |
| Rated voltage         | 30 V  |

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## Technical data

### General

|                              |                               |
|------------------------------|-------------------------------|
| Number of positions          | 17                            |
| Contact resistance           | $\leq 5 \text{ m}\Omega$      |
| Insulation resistance        | $\geq 100 \text{ M}\Omega$    |
| 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                |

### Cable

|                                               |                                                                                                                                                     |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable type                                    | Black PUR/PVC twisted pair                                                                                                                          |
| Cable type (abbreviation)                     | 35T                                                                                                                                                 |
| Cable abbreviation                            | LSYWC11Y                                                                                                                                            |
| UL AWM style                                  | 20233 / 1061 (80°C/300 V)                                                                                                                           |
| 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 $\pm$ 0.05 mm (signal line)                                                                                                                    |
| Wire colors                                   | White-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/<br>blue, white/green-brown/green, white/yellow-yellow/brown-white/gray |
| Overall twist                                 | 7 pairs and 1 three-way unit, intertwisted                                                                                                          |
| Shielding                                     | Tinned copper braided shield                                                                                                                        |
| Optical shield covering                       | 85 %                                                                                                                                                |
| External sheath, color                        | Black RAL 9005                                                                                                                                      |
| External cable diameter D                     | 9.2 mm $\pm$ 0.2 mm                                                                                                                                 |
| Minimum bending radius, fixed installation    | 5 x D                                                                                                                                               |
| Minimum bending radius, flexible installation | 10 x D                                                                                                                                              |
| Number of bending cycles                      | 4000000                                                                                                                                             |
| Bending radius                                | 92 mm                                                                                                                                               |

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## Technical data

### Cable

|                                 |                                                        |
|---------------------------------|--------------------------------------------------------|
| Traversing path                 | 10 m                                                   |
| Traversing rate                 | 3 m/s                                                  |
| Acceleration                    | 10 m/s <sup>2</sup>                                    |
| Cable weight                    | 105 kg/km                                              |
| Outer sheath, material          | PUR                                                    |
| Material conductor insulation   | PVC                                                    |
| Conductor material              | Tin-plated Cu litz wires                               |
| Insulation resistance           | ≥ 10 MΩ*km (at 20 °C)                                  |
| Conductor resistance            | 142 Ω/km (at 20 °C)                                    |
| Nominal voltage, cable          | 42 V AC                                                |
| Test voltage, cable             | 1500 V AC                                              |
| Special properties              | Flexible cable conduit capable                         |
| Flame resistance                | According to DIN EN 60332-1-2                          |
|                                 | According to VW-1                                      |
| Halogen-free                    | According to EN 50267-2-1                              |
| Resistance to oil               | in accordance with DIN EN 60811-2-1                    |
| Other resistance                | hydrolysis and microbe resistant according to EN 50396 |
| Ambient temperature (operation) | -30 °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 |
|-------------|----------|

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Classifications

UNSPSC

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

Approvals

Approvals

Approvals

GOST

Ex Approvals

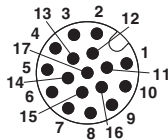
Approvals submitted

Approval details

GOST 

Drawings

Schematic diagram



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

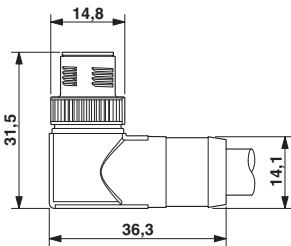
Cable cross section



Black PUR/PVC twisted pair [35T]

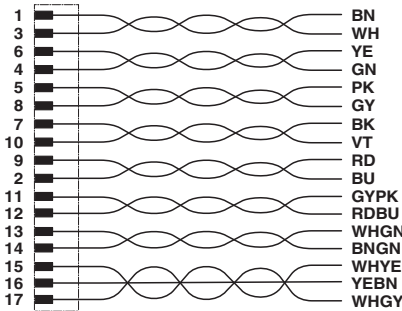
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Dimensioned drawing



Plug M12 SPEEDCON, angled, shielded

Circuit diagram



Contact assignment of the M12 plug

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