# SAC-17P-MS/3,0-35T/FS SH SCO - Sensor/actuator cable

1414114

https://www.phoenixcontact.com/nl/products/1414114

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Sensor/actuator cable, 17-position, PUR/PVC, black RAL 9005, shielded, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 3 m

## Your advantages

- 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

## Commercial data

| | |
|---|---|
| Item number | 1414114 |
| Packing unit | 1 pc |
| Minimum order quantity | 25 pc |
| Sales key | AF1CNA |
| Product key | AF1CNA |
| GTIN | 4055626192482 |
| Weight per piece (including packing) | 362 g |
| Weight per piece (excluding packing) | 22,22 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

## Technical data

### Product properties

| | |
|---|---|
| Application | Standard |
| Number of positions | 17 |
| Shielded | yes |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | II |
| Degree of pollution | 3 |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |

### Electrical properties

| | |
|---|---|
| Nominal voltage $U_N$ | 30 V AC |
| | 30 V DC |
| Nominal current $I_N$ | 1.5 A |

### Signaling

| | |
|---|---|
| Status display | no |
| Status display present | no |

### Connector

Connection 1

| | |
|---|---|
| Type | Plug straight M12 SPEEDCON |
| Number of positions | 17 |
| Locking type | SPEEDCON |
| Coding type | A |

Connection 2

| | |
|---|---|
| Type | Socket straight M12 SPEEDCON |
| Number of positions | 17 |
| Locking type | SPEEDCON |
| Coding type | A |

### Cable/line

| | |
|---|---|
| Cable length | 3 m |

Black PUR/PVC twisted pair [35T]

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| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 105 kg/km |
| UL AWM Style | 20233 / 1061 (80°C/300 V) |
| Number of positions | 17 |
| Shielded | yes |
| Cable type | Black PUR/PVC twisted pair [35T] |
| Conductor structure signal line | 18x 0.10 mm |
| AWG signal line | 26 |
| Conductor cross-section | 17x 0.14 mm² (Signal line) |
| Wire diameter incl. insulation | 1 mm ±0.05 mm (Signal line) |
| External cable diameter | 9.20 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | black RAL 9005 |
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | 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 | 7 pairs and 1 three-way unit, intertwisted |
| Optical shield covering | 85 % |
| Max. conductor resistance | 142 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 10 MΩ*km (at 20 °C) |
| Nominal voltage, cable | 42 V AC |
| Test voltage | 1500 V AC |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 46 mm |
| Smallest bending radius, movable installation | 92 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 4000000, Bending radius: 92 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s² |
| Flame resistance | According to DIN EN 60332-1-2 |
| | According to VW-1 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | hydrolysis and microbe resistant (in accordance with EN 50396) |
| Special properties | Flexible cable conduit capable |
| Ambient temperature (operation) | -30 °C ... 80 °C (cable, fixed installation) |
| | -5 °C ... 80 °C (Cable, flexible installation) |

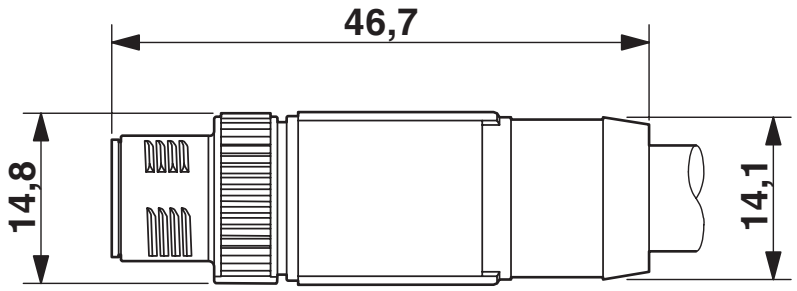
## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP65 |
| | IP68 |

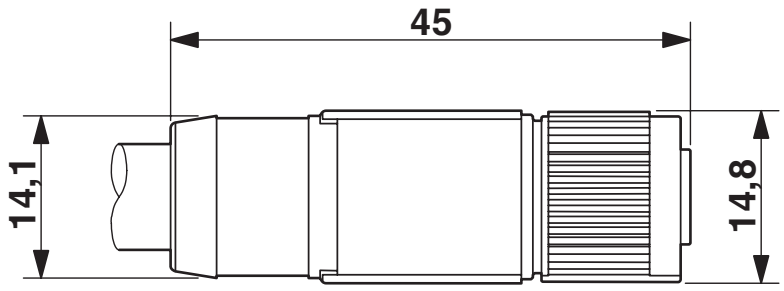
## Drawings

Dimensional drawing



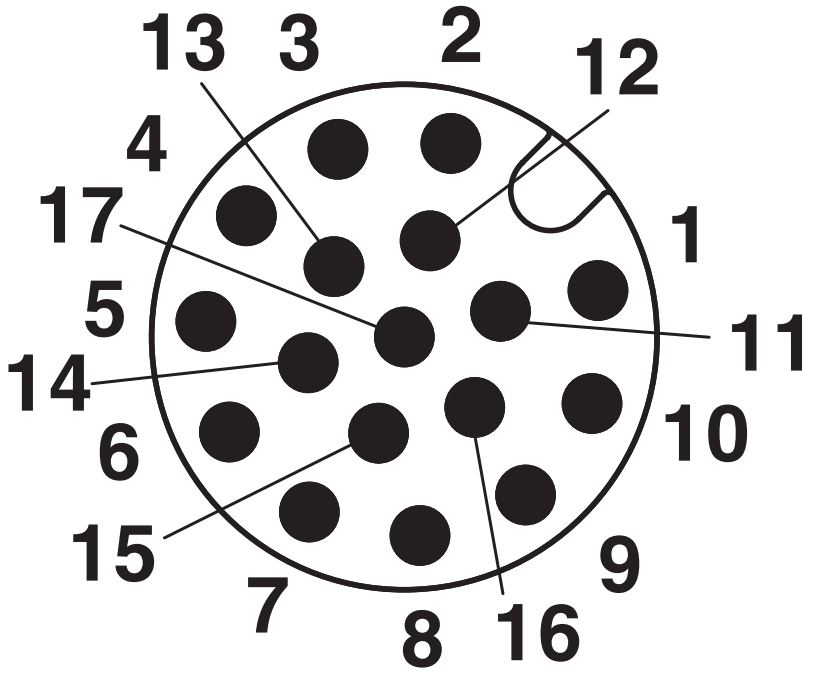

M12 SPEEDCON plug, straight, shielded

Dimensional drawing



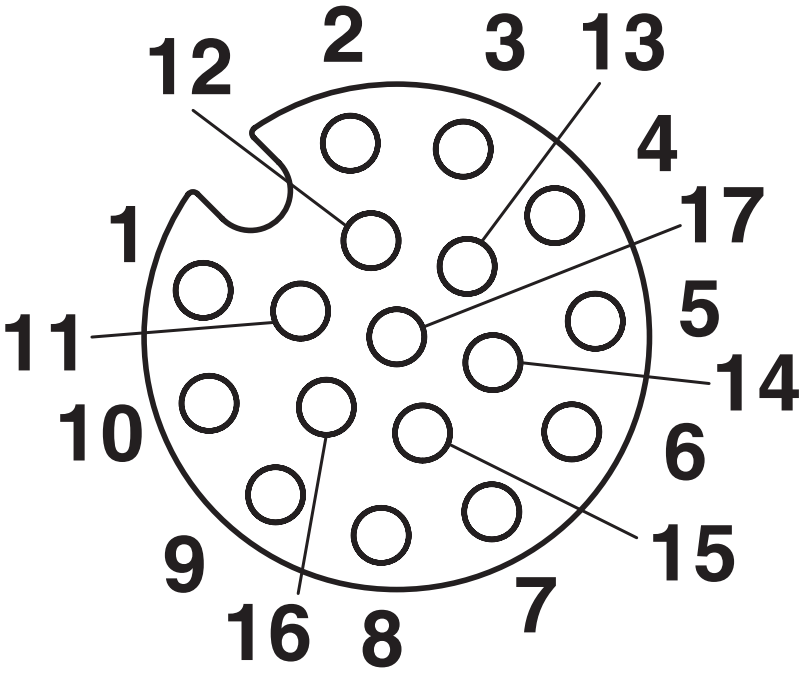

Socket M12-SPEEDCON, straight, shielded

Schematic diagram



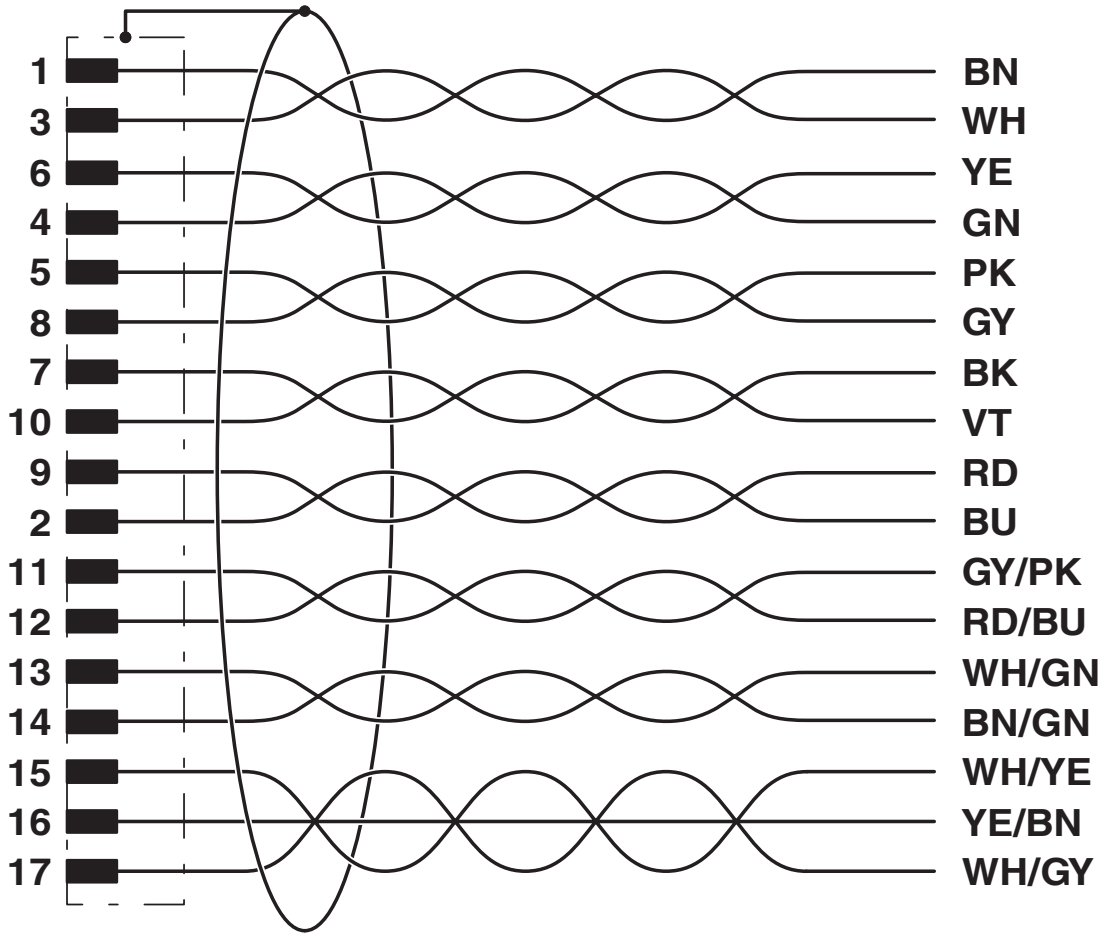

Pin assignment M12 male connector, 17-pos., male side view

Schematic diagram



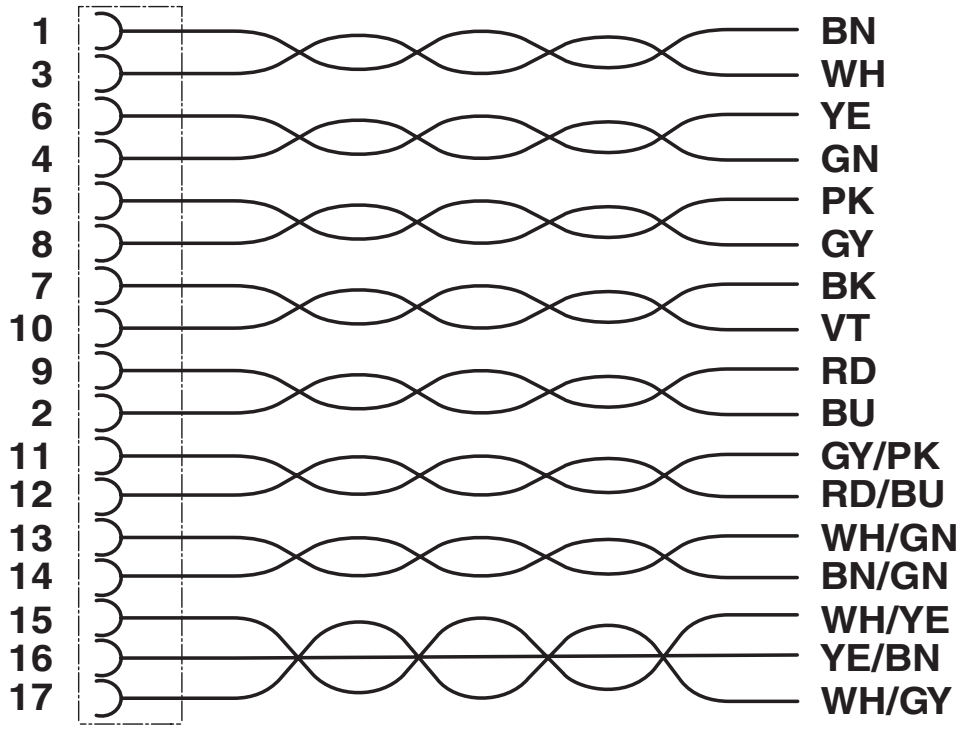

Pin assignment M12, 17-pos., socket side view

Circuit diagram




Contact assignment of the M12 plug

Circuit diagram




Contact assignment of the M12 socket

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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/nl/products/1414114

**UL Listed**
Approval ID: E221474

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 30 V | 1 A | - | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001855 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 26121600 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |


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