

## Sensor/Actuator cable - SAC-12P- 3,0-PUR/FS SCO - 1430624

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Sensor/Actuator cable, 12-position, PUR halogen-free, Black RAL 9005, Free cable end, on Socket straight M12 SPEEDCON, A-coded, Cable length: 3 m

### Product Features

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



### Key commercial data

|                  |               |
|------------------|---------------|
| package_quantity | 1             |
| GTIN             | 4046356456678 |

### Technical data

#### Dimensions

|                                            |       |
|--------------------------------------------|-------|
| Length of cable                            | 3 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                             |
| Degree of protection            | IP67                             |
| Degree of protection            | IP68                             |

#### General

|                              |                               |
|------------------------------|-------------------------------|
| Rated current at 40°C        | 1.5 A                         |
| Rated voltage                | 30 V                          |
| Number of positions          | 12                            |
| 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                       |

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## Technical data

### General

|                        |                        |
|------------------------|------------------------|
| 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            | 12x 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 |
| Overall twist                      | 12 wires twisted in layers                                                             |
| External sheath, color             | Black RAL 9005                                                                         |
| External cable diameter D          | 7.2 mm                                                                                 |
| Number of bending cycles           | 4000000                                                                                |
| Bending radius                     | 54 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                                                               |
| 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)                                           |
| Ambient temperature (operation)    | -5 °C ... 80 °C (cable, flexible installation)                                         |

## classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |

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### classifications

#### eCl@ss

|            |          |
|------------|----------|
| 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   | 26121616 |
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11     | 26121604 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 26121616 |

### approvals

GOST /

#### Approval details

|                                                                                          |
|------------------------------------------------------------------------------------------|
|  GOST |
|------------------------------------------------------------------------------------------|

### accessories

#### Conductor marking

PABA WH/15 - 1013151



## Sensor/Actuator cable - SAC-12P- 3,0-PUR/FS SCO - 1430624

### accessories

PABA YE/15 - 1013698



PABA RD/15 - 1013944



### Marker carrier cable

PATG 2/15 - 1013038



PATG 3/15 - 1013041



PATG 4/15 - 1013054



### Marker pen

## Sensor/Actuator cable - SAC-12P- 3,0-PUR/FS SCO - 1430624

accessories

B-STIFT - 1051993



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### Cutting tools

CUTFOX-S VDE - 1212207



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### Stripping tool

WIREFOX SAC - 1212623



WIREFOX 10 - 1212150



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### Protective cap

PROT-M12 MS-PA-CHAIN - 1430899



## Sensor/Actuator cable - SAC-12P- 3,0-PUR/FS SCO - 1430624

accessories

### Safety locking

SAC-M12-EXCLIP-F - 1558991



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### Torque tool

TSD 04 SAC - 1208429



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TSD-M 1,2NM - 1212224



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### Screwdriver tools

TSD-M SAC-BIT ADAPTER - 1212600



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SAC BIT M12-D15 - 1208432



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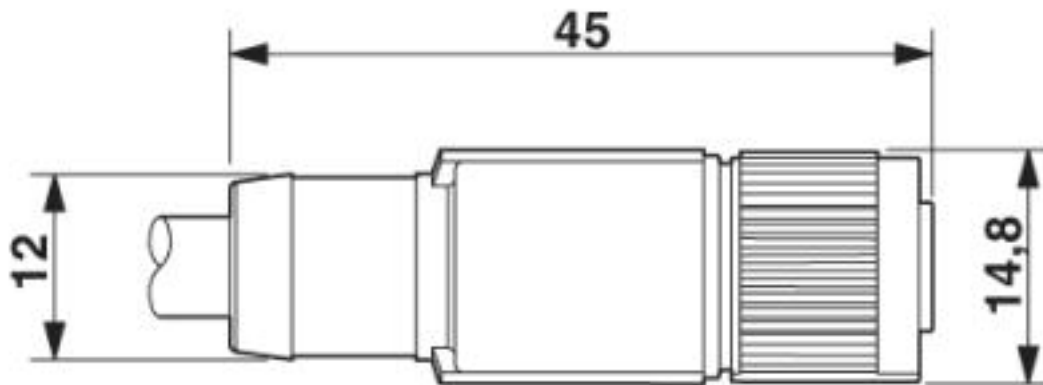
accessories

WIREFOX SAC-1 - 1212757

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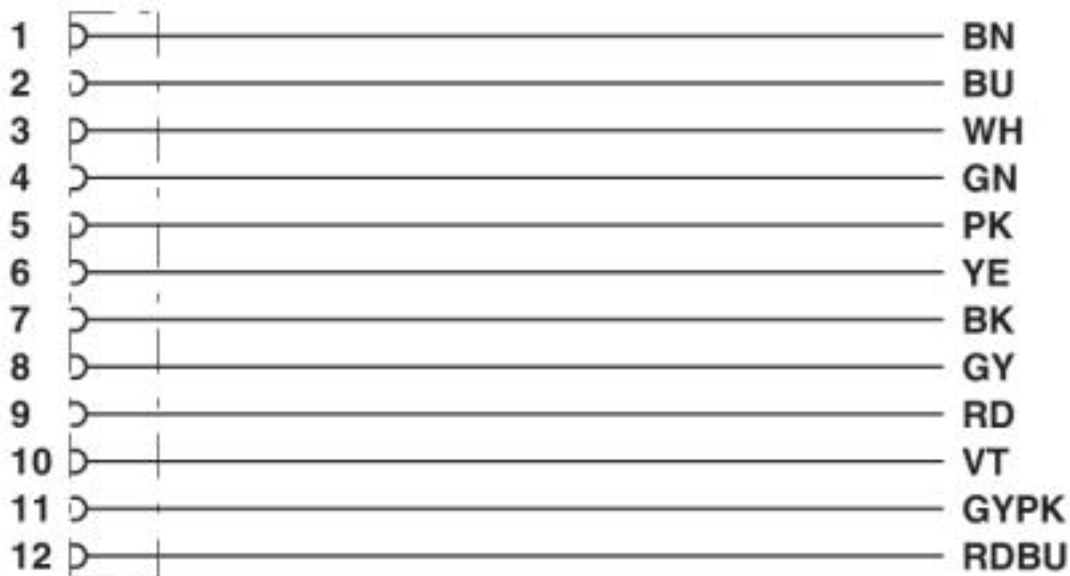
### Drawings

Dimensioned drawing



Socket M12-SPEEDCON, straight, shielded

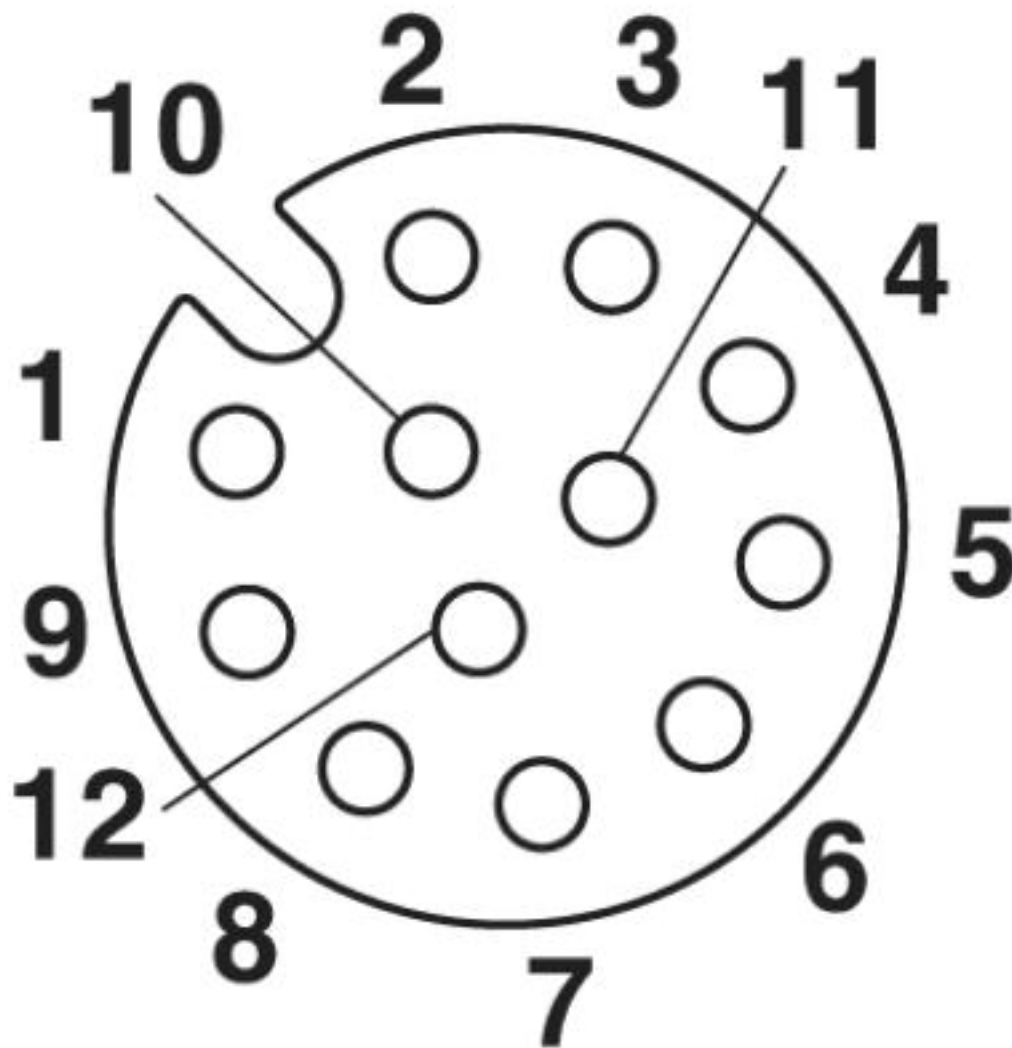
Circuit diagram



Contact assignment of the M12 socket

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Schematic diagram



Pin assignment M12, 12-pos., female side view

## Sensor/Actuator cable - SAC-12P- 3,0-PUR/FS SCO - 1430624

Cable cross section



PUR halogen-free black [PUR]

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