

# SAC-12P- 5,0-PUR/FS SCO - Sensor/actuator cable



1430637

<https://www.phoenixcontact.com/us/products/1430637>

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Sensor/actuator cable, 12-position, PUR halogen-free, black RAL 9005, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 5 m

## Your advantages

- 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

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1430637             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF03                |
| Product key                          | BF1CGA              |
| Catalog page                         | Page 212 (C-2-2019) |
| GTIN                                 | 4046356456449       |
| Weight per piece (including packing) | 325.9 g             |
| Weight per piece (excluding packing) | 308.9 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | DE                  |

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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Application          | Standard              |
| Number of positions  | 12                    |
| No. of cable outlets | 1                     |
| Shielded             | no                    |
| Coding               | A                     |

### Insulation characteristics

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

### Material specifications

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Flammability rating according to UL 94 | V0                                          |
| Seal material                          | NBR                                         |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Contact material                       | CuZn                                        |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | PA 6.6                                      |
| Material for screw connection          | Zinc die-cast, nickel-plated                |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| 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 |

### Connection data

#### Conductor connection

|                   |                        |
|-------------------|------------------------|
| Tightening torque | 0.4 Nm (M12 connector) |
|-------------------|------------------------|

### Connector

#### Connection 1

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

#### Connection 2

|                     |                              |
|---------------------|------------------------------|
| Type                | Socket straight M12 SPEEDCON |
| Number of positions | 12                           |

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|              |          |
|--------------|----------|
| Locking type | SPEEDCON |
| Coding type  | A        |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

### PUR halogen-free black [PUR]

|                                               |                                                                                        |
|-----------------------------------------------|----------------------------------------------------------------------------------------|
| Dimensional drawing                           |      |
| Cable weight                                  | 17 kg/km                                                                               |
| Number of positions                           | 12                                                                                     |
| Shielded                                      | no                                                                                     |
| Cable type                                    | PUR halogen-free black [PUR]                                                           |
| Conductor structure signal line               | 18x 0.10 mm                                                                            |
| AWG signal line                               | 26                                                                                     |
| Conductor cross section                       | 12x 0.14 mm <sup>2</sup> (Signal line)                                                 |
| Wire diameter incl. insulation                | 1 mm ±0.05 mm (Signal line)                                                            |
| External cable diameter                       | 7.20 mm                                                                                |
| Outer sheath, material                        | PUR                                                                                    |
| External sheath, color                        | black RAL 9005                                                                         |
| Conductor material                            | Tin-plated Cu litz wires                                                               |
| Material wire insulation                      | PP                                                                                     |
| Single wire, color                            | white, brown, green, yellow, gray, pink, blue, red, black, violet, gray/pink, red/blue |
| Overall twist                                 | 12 wires twisted in layers                                                             |
| Max. conductor resistance                     | 142 Ω/km                                                                               |
| Nominal voltage, cable                        | ≤ 300 V                                                                                |
| Test voltage                                  | ≥ 1500 V                                                                               |
| Minimum bending radius, fixed installation    | 5 x D                                                                                  |
| Minimum bending radius, flexible installation | 10 x D                                                                                 |
| Smallest bending radius, fixed installation   | 36 mm                                                                                  |
| Smallest bending radius, movable installation | 72 mm                                                                                  |
| Max. bending cycles                           | 4000000                                                                                |
| Halogen-free                                  | in accordance with DIN EN 50267-2-1                                                    |
| Flame resistance                              | in acc. to UL VW1<br>DIN EN 60332-1-2                                                  |
| Resistance to oil                             | EN 60811-2-1                                                                           |
| Other resistance                              | EN 50525-2-21:2012-01                                                                  |

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|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
|                                 | partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) |
| Special properties              | Low adhesion surface                                         |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)                 |
|                                 | -5 °C ... 80 °C (Cable, flexible installation)               |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Degree of protection            | IP65                                            |
|                                 | IP67                                            |
|                                 | IP68                                            |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket)                |
|                                 | -40 °C ... 80 °C (cable, fixed installation)    |
|                                 | -20 °C ... 80 °C (Cable, flexible installation) |

## Standards and regulations

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-101 |

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