

# SAC-17P- 1,5-PUR/FR SCO - Sensor/actuator cable



1430815

<https://www.phoenixcontact.com/pc/products/1430815>

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Sensor/actuator cable, 17-position, PUR halogen-free, black RAL 9005, free cable end, on Socket angled M12 SPEEDCON, coding: A, cable length: 1.5 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                          | 1430815             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Product key                          | BF1CGA              |
| Catalog page                         | Page 212 (C-2-2019) |
| GTIN                                 | 4046356456630       |
| Weight per piece (including packing) | 130.4 g             |
| Weight per piece (excluding packing) | 130.4 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | DE                  |

## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Application          | Standard              |
| Number of positions  | 17                    |
| No. of cable outlets | 1                     |
| Shielded             | no                    |
| Coding               | A                     |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 08 |
|------------------|----|

### 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 |
|------|----------------|

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## Connection 2

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

## Cable/line

|              |       |
|--------------|-------|
| Cable length | 1.5 m |
|--------------|-------|

## PUR halogen-free black [PUR]

|                                               |                                                                                                                                                          |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                           |                                                                       |
| Number of positions                           | 17                                                                                                                                                       |
| Shielded                                      | no                                                                                                                                                       |
| Cable type                                    | PUR halogen-free black [PUR]                                                                                                                             |
| Conductor structure signal line               | 18x 0.10 mm                                                                                                                                              |
| AWG signal line                               | 26                                                                                                                                                       |
| Conductor cross section                       | 17x 0.14 mm <sup>2</sup> (Signal line)                                                                                                                   |
| Wire diameter incl. insulation                | 1 mm ±0.05 mm (Signal line)                                                                                                                              |
| External cable diameter                       | 7.80 mm ±0.2 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, white-green, brown-green, white-yellow, yellow-brown, white-gray |
| Overall twist                                 | 17 wires twisted in layers                                                                                                                               |
| Max. conductor resistance                     | 142 Ω/km                                                                                                                                                 |
| Smallest bending radius, fixed installation   | 78 mm                                                                                                                                                    |
| Smallest bending radius, movable installation | 39 mm                                                                                                                                                    |
| Dynamic load capacity (bending)               | Max. bending cycles: 4000000, Bending radius: 60 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup>                    |
| Resistance to oil                             | DIN VDE 0472 Part 803, test type B                                                                                                                       |
| Other resistance                              | Hydrolysis and microbe resistant as per VDE 0282 section 10<br>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)                                                                                                             |

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|  |                                                |
|--|------------------------------------------------|
|  | -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)   |
|                                 | -5 °C ... 80 °C (Cable, flexible installation) |

## Standards and regulations

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

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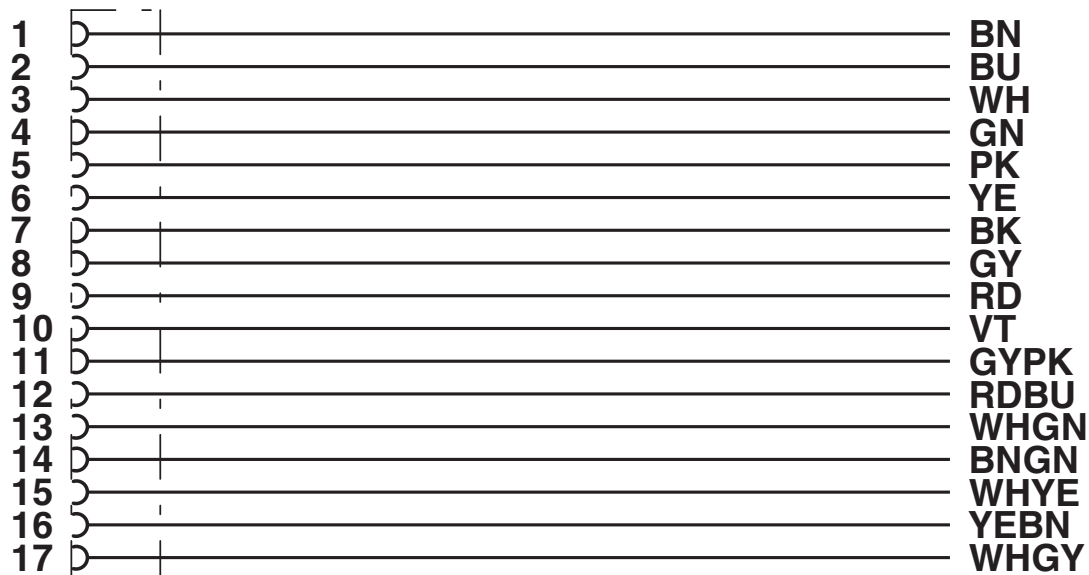
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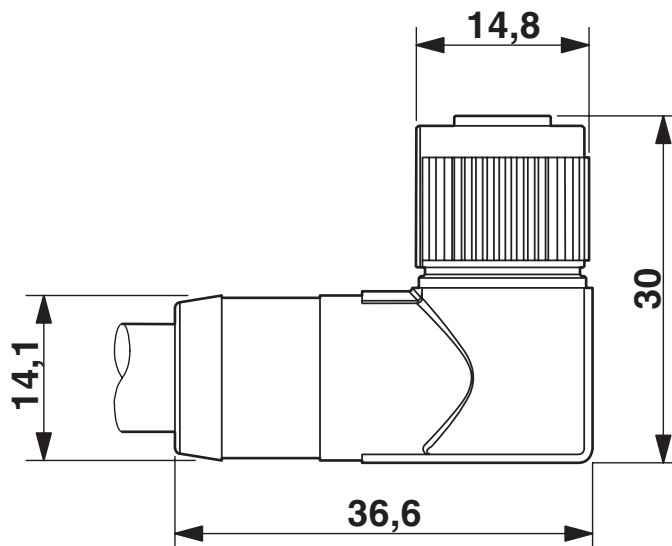


## Drawings

Circuit diagram



Dimensional drawing

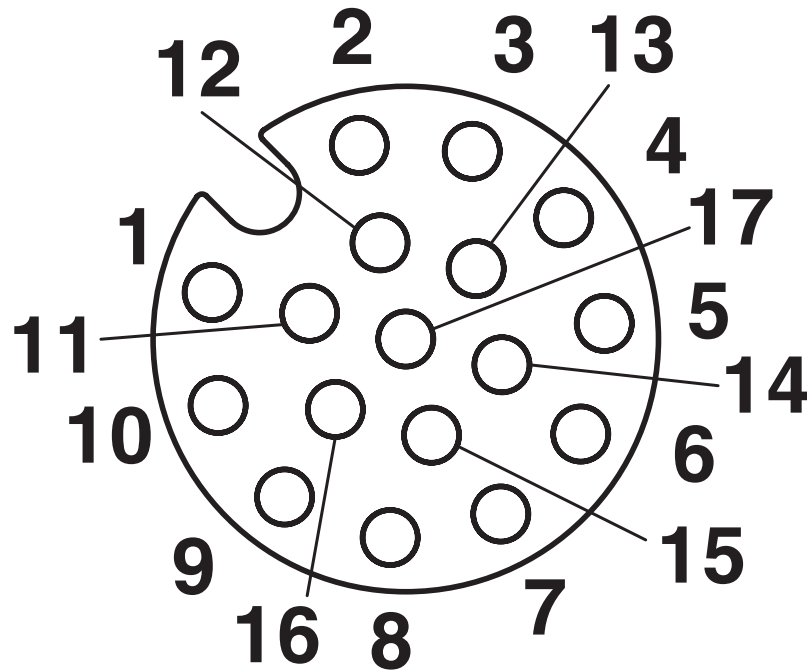


M12-SPEEDCON socket, angled

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Schematic diagram



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1430815>

|                                                                                   |                                                |                                |                   |                               |
|-----------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|-------------------|-------------------------------|
|  | <b>UL Listed</b><br>Approval ID: FILE E 221474 |                                |                   |                               |
|                                                                                   | Nominal voltage U <sub>N</sub>                 | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|                                                                                   | 30 V                                           | 1 A                            | -                 | -                             |

|                                                                                   |  |                                                      |  |  |
|-----------------------------------------------------------------------------------|--|------------------------------------------------------|--|--|
|  |  | <b>EAC-RoHS</b><br>Approval ID: RU D-DE.HB35.B.00387 |  |  |
|-----------------------------------------------------------------------------------|--|------------------------------------------------------|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060311 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

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



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## 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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