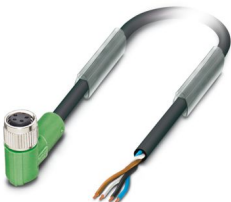


1577600  
<https://www.phoenixcontact.com/us/products/1577600>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 4-position, PUR halogen-free, gray RAL 7001, free cable end, on Socket angled M8, coding: A, cable length: 5 m

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1577600                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF01                           |
| Product key                          | BF1BCA                         |
| GTIN                                 | 4046356459372                  |
| Weight per piece (including packing) | 164 g                          |
| Weight per piece (excluding packing) | 158.3 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

# SAC-4P- 5,0-100/M 8FR - Sensor/actuator cable



1577600

<https://www.phoenixcontact.com/us/products/1577600>

## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Number of positions  | 4                     |
| No. of cable outlets | 1                     |
| Coding               | A                     |

### Insulation characteristics

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

### Material specifications

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

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 48 V AC                    |
|                       | 60 V DC                    |
| Nominal current $I_N$ | 4 A                        |

### Signaling

|                        |    |
|------------------------|----|
| Status display         | No |
| Status display present | No |

### Connector

#### Connection 1

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

#### Connection 2

|                     |                  |
|---------------------|------------------|
| Type                | Socket angled M8 |
| Number of positions | 4                |
| Coding type         | A                |

### Cable/line

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

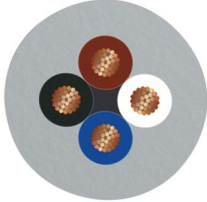
PUR halogen-free gray [280]

# SAC-4P- 5,0-100/M 8FR - Sensor/actuator cable



1577600

<https://www.phoenixcontact.com/us/products/1577600>

|                                               |                                                                                                                                                                |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                           |                                                                              |
| Cable weight                                  | 23 kg/km                                                                                                                                                       |
| UL AWM Style                                  | 20549 / 10493 (80°C/300 V)                                                                                                                                     |
| Number of positions                           | 4                                                                                                                                                              |
| Shielded                                      | no                                                                                                                                                             |
| Cable type                                    | PUR halogen-free gray [280]                                                                                                                                    |
| Conductor structure signal line               | 32x 0.10 mm                                                                                                                                                    |
| AWG signal line                               | 24                                                                                                                                                             |
| Conductor cross section                       | 4x 0.25 mm <sup>2</sup> (Signal line)                                                                                                                          |
| Wire diameter incl. insulation                | 1.17 mm ±0.02 mm (Signal line)                                                                                                                                 |
| External cable diameter                       | 3.95 mm ±0.15 mm                                                                                                                                               |
| Outer sheath, material                        | PUR                                                                                                                                                            |
| External sheath, color                        | gray RAL 7001                                                                                                                                                  |
| Conductor material                            | Bare Cu litz wires                                                                                                                                             |
| Material wire insulation                      | PP                                                                                                                                                             |
| Single wire, color                            | brown, white, blue, black                                                                                                                                      |
| Thickness, insulation                         | ≥ 0.21 mm (Core insulation)<br>approx. 0.50 mm (Outer cable sheath)                                                                                            |
| Overall twist                                 | 4 wires, twisted                                                                                                                                               |
| Max. conductor resistance                     | max. 78 Ω/km (at 20 °C)                                                                                                                                        |
| Insulation resistance                         | ≥ 100 GΩ*km (at 20 °C)                                                                                                                                         |
| Nominal voltage, cable                        | ≤ 300 V                                                                                                                                                        |
| Test voltage                                  | ≥ 3000 V                                                                                                                                                       |
| Smallest bending radius, fixed installation   | 20 mm                                                                                                                                                          |
| Smallest bending radius, movable installation | 40 mm                                                                                                                                                          |
| Max. bending cycles                           | 10000000                                                                                                                                                       |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815                                                                                                                       |
| Flame resistance                              | in accordance with UL 758/1581 FT2<br>DIN EN 60332-2-2 (20 s)                                                                                                  |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                                                                                                            |
| Other resistance                              | Highly resistant to acids, alkaline solutions and solvents<br>hydrolysis and microbe resistant<br>partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) |
| Special properties                            | Flexible cable conduit capable<br>Silicone-free<br>Free of substances which would hinder coating with paint or varnish                                         |

# SAC-4P- 5,0-100/M 8FR - Sensor/actuator cable



1577600

<https://www.phoenixcontact.com/us/products/1577600>

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)    |
|                                 | -25 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Ambient conditions              |                                                |
| Degree of protection            | IP65                                           |
|                                 | IP67                                           |
|                                 | IP68                                           |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket)               |
|                                 | -40 °C ... 80 °C (cable, fixed installation)   |
|                                 | -5 °C ... 80 °C (Cable, flexible installation) |

# SAC-4P- 5,0-100/M 8FR - Sensor/actuator cable

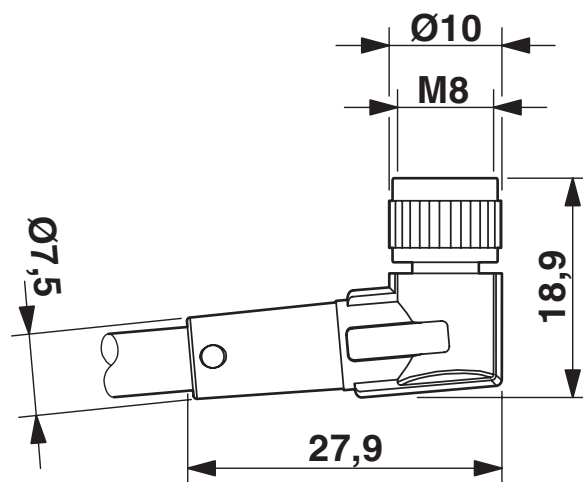
1577600

<https://www.phoenixcontact.com/us/products/1577600>



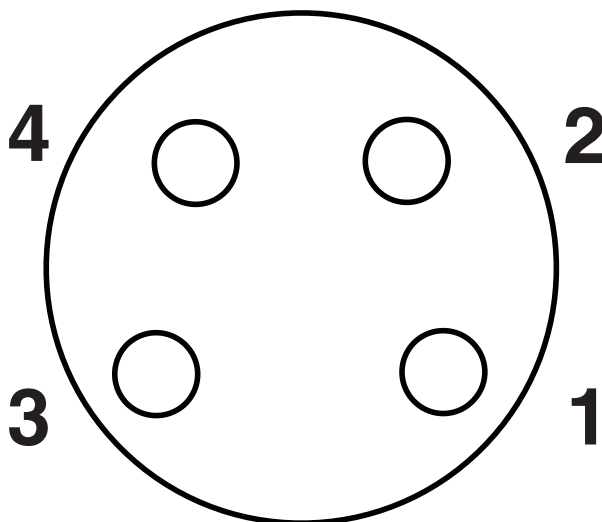
## Drawings

Dimensional drawing



Socket M8 x 1, angled

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

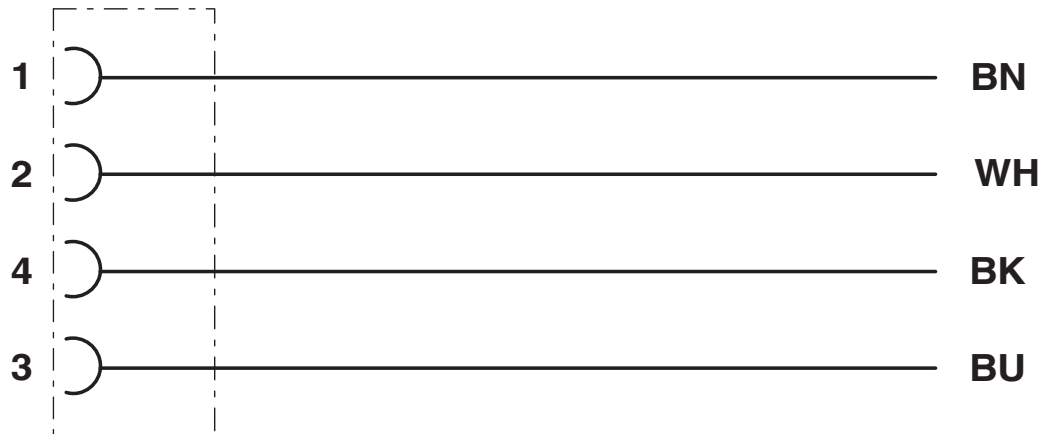
# SAC-4P- 5,0-100/M 8FR - Sensor/actuator cable



1577600

<https://www.phoenixcontact.com/us/products/1577600>

Circuit diagram



# SAC-4P- 5,0-100/M 8FR - Sensor/actuator cable



1577600

<https://www.phoenixcontact.com/us/products/1577600>

## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC001855 |
|----------|----------|

### UNSPSC

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

# SAC-4P- 5,0-100/M 8FR - Sensor/actuator cable



1577600

<https://www.phoenixcontact.com/us/products/1577600>

## 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%               |

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)