

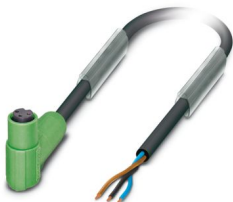
# SAC-3P- 5,0-PUR/M 8SIFR - Sensor/actuator cable



1519891

<https://www.phoenixcontact.com/pc/products/1519891>

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, 3-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M8 Snap-in, coding: A, cable length: 5 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save time, thanks to installation with snap-in fast locking system
- Our standard: robust halogen-free PUR cable

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1519891                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | BF1BBA                         |
| Catalog page                         | Page 186 (C-2-2019)            |
| GTIN                                 | 4046356020015                  |
| Weight per piece (including packing) | 94.5 g                         |
| Weight per piece (excluding packing) | 90.066 g                       |
| Customs tariff number                | 85444290                       |
| Country of origin                    | PL                             |

# SAC-3P- 5,0-PUR/M 8SIFR - Sensor/actuator cable



1519891

<https://www.phoenixcontact.com/pc/products/1519891>

## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Application          | Standard              |
| Number of positions  | 3                     |
| No. of cable outlets | 1                     |
| Shielded             | no                    |
| Coding               | A                     |

### Insulation characteristics

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

### Material specifications

|                               |                                             |
|-------------------------------|---------------------------------------------|
| 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 | not available                               |

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 48 V AC |
|                       | 60 V DC |
| Nominal current $I_N$ | 4 A     |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Signaling

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

### Connector

#### Connection 1

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

#### Connection 2

|                     |                          |
|---------------------|--------------------------|
| Type                | Socket angled M8 Snap-in |
| Number of positions | 3                        |
| Locking type        | Snap-in                  |
| Coding type         | A                        |

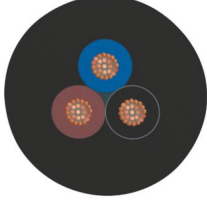
# SAC-3P- 5,0-PUR/M 8SIFR - Sensor/actuator cable



1519891

<https://www.phoenixcontact.com/pc/products/1519891>

## Cable/line

|                                               |                                                                                                                                        |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Cable length                                  | 5 m                                                                                                                                    |
| PUR halogen-free black [PUR]                  |                                                                                                                                        |
| Dimensional drawing                           |                                                      |
| Cable weight                                  | 18 kg/km                                                                                                                               |
| UL AWM Style                                  | 20549 / 10493 (80°C/300 V)                                                                                                             |
| Number of positions                           | 3                                                                                                                                      |
| Shielded                                      | no                                                                                                                                     |
| Cable type                                    | PUR halogen-free black [PUR]                                                                                                           |
| Conductor structure signal line               | 32x 0.10 mm                                                                                                                            |
| AWG signal line                               | 24                                                                                                                                     |
| Conductor cross section                       | 3x 0.25 mm <sup>2</sup> (Signal line)                                                                                                  |
| Wire diameter incl. insulation                | 1.17 mm ±0.02 mm                                                                                                                       |
| External cable diameter                       | 3.60 mm ±0.15 mm                                                                                                                       |
| Outer sheath, material                        | PUR                                                                                                                                    |
| External sheath, color                        | black-gray RAL 7021                                                                                                                    |
| Conductor material                            | Bare Cu litz wires                                                                                                                     |
| Material wire insulation                      | PP                                                                                                                                     |
| Single wire, color                            | brown, blue, black                                                                                                                     |
| Thickness, insulation                         | ≥ 0.21 mm (Core insulation)                                                                                                            |
| Thickness, outer sheath                       | approx. 0.50 mm                                                                                                                        |
| Overall twist                                 | 3 wires, twisted                                                                                                                       |
| Length of twist, overall twist                | 40 mm                                                                                                                                  |
| Max. conductor resistance                     | ≤ 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   | 18 mm                                                                                                                                  |
| Smallest bending radius, movable installation | 36 mm                                                                                                                                  |
| Dynamic load capacity (bending)               | Max. bending cycles: 10000000, Bending radius: 44 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup> |
| 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                                                                                                    |

# SAC-3P- 5,0-PUR/M 8SIFR - Sensor/actuator cable



1519891

<https://www.phoenixcontact.com/pc/products/1519891>

|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| Other resistance                | hydrolysis and microbe resistant                                    |
|                                 | Highly resistant to acids, alkaline solutions and solvents          |
|                                 | Resistant to salt water                                             |
|                                 | partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)        |
| Special properties              | Flexible cable conduit capable                                      |
|                                 | Silicone-free                                                       |
|                                 | Free of substances which would hinder coating with paint or varnish |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)                        |
|                                 | -25 °C ... 80 °C (Cable, flexible installation)                     |

## Environmental and real-life conditions

### Ambient conditions

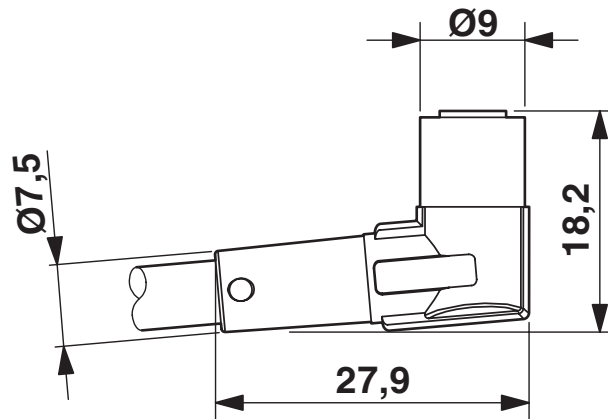
|                                 |                                  |
|---------------------------------|----------------------------------|
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |

## Standards and regulations

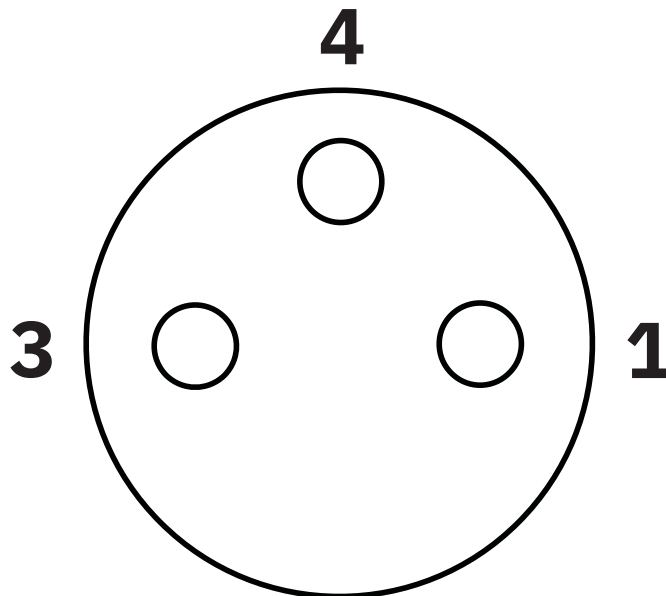
|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M8 connector    |
| Standards/specifications | IEC 61076-2-104 |

## Drawings

Dimensional drawing

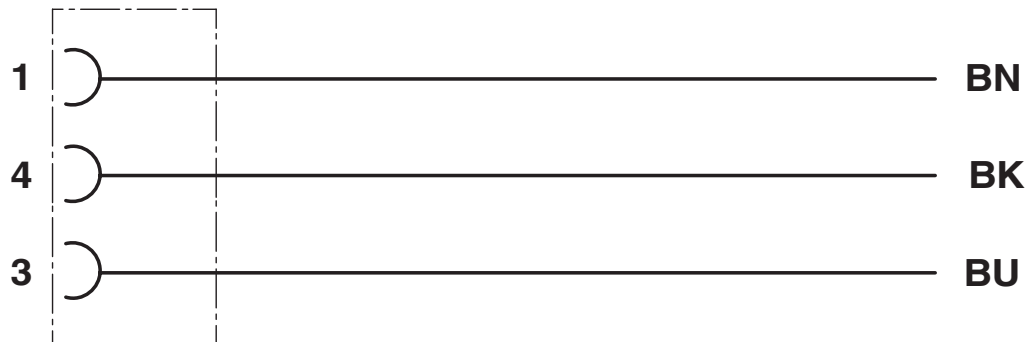


Schematic diagram



Pin assignment M 8, 3-pos.

Circuit diagram



# SAC-3P- 5,0-PUR/M 8SIFR - Sensor/actuator cable



1519891

<https://www.phoenixcontact.com/pc/products/1519891>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1519891>

|  |                                                |                       |                   |                             |
|--|------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>UL Listed</b><br>Approval ID: FILE E 221474 |                       |                   |                             |
|  | Nominal voltage $U_N$                          | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 60 V                                           | 4 A                   | -                 | -                           |

|  |                                                 |                       |                   |                             |
|--|-------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>cUL Listed</b><br>Approval ID: FILE E 221474 |                       |                   |                             |
|  | Nominal voltage $U_N$                           | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 60 V                                            | 4 A                   | -                 | -                           |

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

|                     |  |  |  |  |
|---------------------|--|--|--|--|
| <b>cULus Listed</b> |  |  |  |  |
|---------------------|--|--|--|--|

# SAC-3P- 5,0-PUR/M 8SIFR - Sensor/actuator cable



1519891

<https://www.phoenixcontact.com/pc/products/1519891>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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



# SAC-3P- 5,0-PUR/M 8SIFR - Sensor/actuator cable



1519891  
<https://www.phoenixcontact.com/pc/products/1519891>

## 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 GmbH & Co. KG  
Flachmarktstraße 8  
D-32825 Blomberg  
+49 (0) 5235-3 00  
[info@phoenixcontact.com](mailto:info@phoenixcontact.com)