

# SAC-3P-M8Y/2X 1,5-PUR - Sensor/actuator cable



1458622

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, coding: A, on free cable end and free cable end, cable length: 1.5 m

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1458622             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF01                |
| Product key                          | BF1BOA              |
| Catalog page                         | Page 248 (C-2-2019) |
| GTIN                                 | 4046356637978       |
| Weight per piece (including packing) | 65 g                |
| Weight per piece (excluding packing) | 60.5 g              |
| Customs tariff number                | 85444290            |
| Country of origin                    | PL                  |

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## Technical data

### Product properties

|                      |                        |
|----------------------|------------------------|
| Product type         | Distributor with cable |
| Application          | Standard               |
| Number of positions  | 3                      |
| No. of cable outlets | 2                      |
| Shielded             | no                     |
| Coding               | A                      |

### Insulation characteristics

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

### Connection data

|                   |                   |
|-------------------|-------------------|
| Tightening torque | 0.2 Nm (M8 knurl) |
|-------------------|-------------------|

### 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        | Plug straight M8 |
| Coding type | A                |

#### Connection 2

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

#### Connection 3

# SAC-3P-M8Y/2X 1,5-PUR - Sensor/actuator cable



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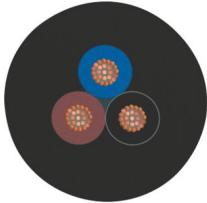
<https://www.phoenixcontact.com/us/products/1458622>

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

## Cable/line

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

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|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| 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

### M8

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

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