

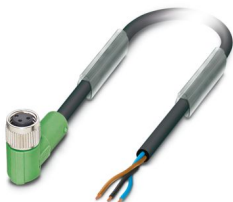
# SAC-3P- 3,0-PVC/M 8FR - Sensor/actuator cable



1446320

<https://www.phoenixcontact.com/us/products/1446320>

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Sensor/actuator cable, 3-position, PVC, black RAL 9005, free cable end, on Socket angled M8, coding: A, cable length: 3 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1446320             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF01                |
| Product key                          | BF1BBA              |
| Catalog page                         | Page 190 (C-2-2019) |
| GTIN                                 | 4046356627962       |
| Weight per piece (including packing) | 79.4 g              |
| Weight per piece (excluding packing) | 78.6 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  | 3                     |
| 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 | 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                        |

### 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 |
| Number of positions | 3                |

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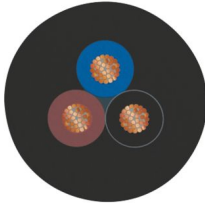
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|             |   |
|-------------|---|
| Coding type | A |
|-------------|---|

Cable/line

|              |     |
|--------------|-----|
| Cable length | 3 m |
|--------------|-----|

PVC black [PVC]

|                                             |                                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------|
| Dimensional drawing                         |               |
| Cable weight                                | 29 kg/km                                                                                        |
| Number of positions                         | 3                                                                                               |
| Shielded                                    | no                                                                                              |
| Cable type                                  | PVC black [PVC]                                                                                 |
| Conductor structure signal line             | 14x 0.15 mm                                                                                     |
| AWG signal line                             | 24                                                                                              |
| Conductor cross section                     | 3x 0.25 mm² (Signal line)                                                                       |
| Wire diameter incl. insulation              | 1.17 mm ±0.05 mm                                                                                |
| External cable diameter                     | 4.20 mm ±0.15 mm                                                                                |
| Outer sheath, material                      | PVC                                                                                             |
| External sheath, color                      | black RAL 9005                                                                                  |
| Conductor material                          | Bare Cu litz wires                                                                              |
| Material wire insulation                    | PVC                                                                                             |
| Single wire, color                          | brown, blue, black                                                                              |
| Thickness, insulation                       | ≥ 0.23 mm (Core insulation)                                                                     |
| Thickness, outer sheath                     | ≥ 0.76 mm                                                                                       |
| Overall twist                               | 3 wires, twisted                                                                                |
| Max. conductor resistance                   | max. 79 Ω/km (at 20 °C)                                                                         |
| Insulation resistance                       | ≥ 100 MΩ*km (at 20 °C)                                                                          |
| Nominal voltage, cable                      | ≥ 300 V                                                                                         |
| Test voltage                                | ≤ 3000 V                                                                                        |
| Smallest bending radius, fixed installation | 13 mm                                                                                           |
| Flame resistance                            | As per UL-Style 2464                                                                            |
| Resistance to oil                           | EN 60811-2-1                                                                                    |
| Ambient temperature (operation)             | -25 °C ... 80 °C (cable, fixed installation)<br>-10 °C ... 80 °C (Cable, flexible installation) |

Environmental and real-life conditions

|                    |      |
|--------------------|------|
| Ambient conditions | IP65 |
|--------------------|------|

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|                                 |                                  |
|---------------------------------|----------------------------------|
| Degree of protection            | 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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