

# SAC-3P-M 8MR/ 4,0-PVC/4P-M 8FS - Sensor/actuator cable



1576889

<https://www.phoenixcontact.com/us/products/1576889>

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, PVC, black RAL 9005, Plug angled M8, coding: A, on Socket straight M8, cable length: 4 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1576889       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1BBA        |
| GTIN                                 | 4046356448727 |
| Weight per piece (including packing) | 123.8 g       |
| Weight per piece (excluding packing) | 123.8 g       |
| Country of origin                    | PL            |

# SAC-3P-M 8MR/ 4,0-PVC/4P-M 8FS - Sensor/actuator cable



1576889

<https://www.phoenixcontact.com/us/products/1576889>

## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Number of positions  | 3                     |
| 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                | Plug angled M8 |
| Number of positions | 3              |
| Coding type         | A              |

#### Connection 2

|                     |                    |
|---------------------|--------------------|
| Type                | Socket straight M8 |
| Number of positions | 3                  |

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 4 m |
|--------------|-----|

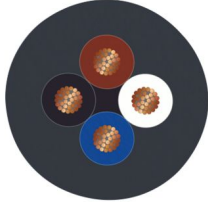
PVC black [PVC]

# SAC-3P-M 8MR/ 4,0-PVC/4P-M 8FS - Sensor/actuator cable



1576889

<https://www.phoenixcontact.com/us/products/1576889>

|   |   |
|---|---|
| Dimensional drawing                         |               |
| Cable weight                                | 33 kg/km  |
| UL AWM Style                                | 2464 / 1729 (80°C/300 V)  |
| Number of positions                         | 4   |
| Shielded                                    | no  |
| Cable type                                  | PVC black [PVC]   |
| Conductor structure signal line             | 14x 0.15 mm   |
| AWG signal line                             | 24  |
| Conductor cross-section                     | 4x 0.25 mm <sup>2</sup> (Signal line)   |
| Wire diameter incl. insulation              | 1.17 mm ±0.05 mm  |
| External cable diameter                     | 4.40 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, white, blue, black   |
| Thickness, insulation                       | ≥ 0.23 mm (Core insulation)<br>≥ 0.76 mm (Outer cable sheath)                                   |
| Overall twist                               | 4 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  |
| Minimum bending radius, fixed installation  | 5 x D   |
| Smallest bending radius, fixed installation | 22 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

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

# SAC-3P-M 8MR/ 4,0-PVC/4P-M 8FS - Sensor/actuator cable



1576889

<https://www.phoenixcontact.com/us/products/1576889>

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -25 °C ... 80 °C (cable, fixed installation)   |
|                                 | -5 °C ... 80 °C (Cable, flexible installation) |

# SAC-3P-M 8MR/ 4,0-PVC/4P-M 8FS - Sensor/actuator cable



1576889

<https://www.phoenixcontact.com/us/products/1576889>

## Drawings

Dimensional drawing



M8 x 1 male plug, angled version

Dimensional drawing



Socket M8 x 1, straight

# SAC-3P-M 8MR/ 4,0-PVC/4P-M 8FS - Sensor/actuator cable

1576889

<https://www.phoenixcontact.com/us/products/1576889>

Schematic diagram



Pin assignment M8 plug, 3-pos., view male side

Schematic diagram



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

# SAC-3P-M 8MR/ 4,0-PVC/4P-M 8FS - Sensor/actuator cable



1576889

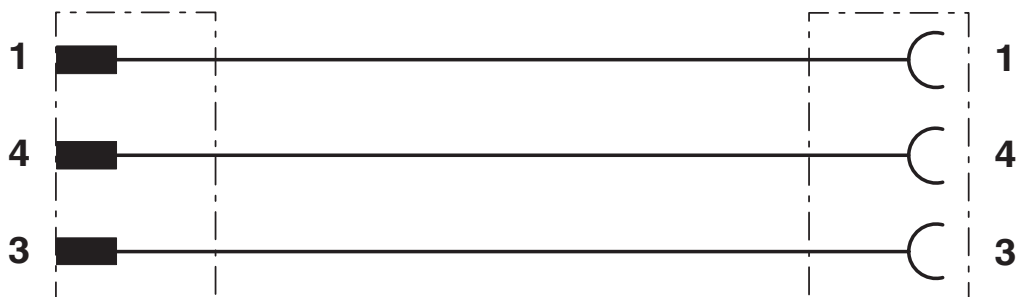
<https://www.phoenixcontact.com/us/products/1576889>

Schematic diagram



Layout of connector pin assignments

Circuit diagram



# SAC-3P-M 8MR/ 4,0-PVC/4P-M 8FS - Sensor/actuator cable



1576889

<https://www.phoenixcontact.com/us/products/1576889>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31251501 |
|-------------|----------|

Phoenix Contact 2026 © - 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)