

SAC-3P-M 8FR/30,0-500/M 8FR - Sensor/actuator cable



1530935  
<https://www.phoenixcontact.com/us/products/1530935>

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Sensor/actuator cable, 3-position, PVC, gray RAL 7001, Socket angled M8, coding: A, on Socket angled M8, cable length: 30 m

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1530935       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1BBA        |
| GTIN                                 | 4017918990480 |
| Weight per piece (including packing) | 850.6 g       |
| Weight per piece (excluding packing) | 850.6 g       |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| 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                        |

### Signaling

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

### Connector

#### Connection 1

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

#### Connection 2

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

### Cable/line

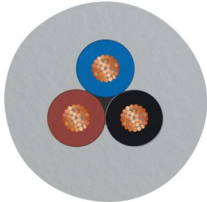
|              |      |
|--------------|------|
| Cable length | 30 m |
|--------------|------|

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PVC gray [500]

|                                             |                                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------|
| Dimensional drawing                         |               |
| Cable weight                                | 29 kg/km                                                                                        |
| Number of positions                         | 3                                                                                               |
| Shielded                                    | no                                                                                              |
| Cable type                                  | PVC gray [500]                                                                                  |
| Conductor type                              | Assembled shielded round cable                                                                  |
| Conductor structure signal line             | 14x 0.15 mm                                                                                     |
| AWG signal line                             | 24                                                                                              |
| Conductor cross section                     | 3x 0.25 mm <sup>2</sup> (Signal line)                                                           |
| Wire diameter incl. insulation              | 1.17 mm ±0.05 mm                                                                                |
| External cable diameter                     | 4.20 mm ±0.15 mm                                                                                |
| Outer sheath, material                      | PVC                                                                                             |
| External sheath, color                      | gray RAL 7001                                                                                   |
| 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                                                                                           |
| Halogen-free                                | no                                                                                              |
| Flame resistance                            | As per UL-Style 2464                                                                            |
| Resistance to oil                           | in accordance with DIN EN 60811-2-1                                                             |
| Ambient temperature (operation)             | -40 °C ... 80 °C (cable, fixed installation)<br>-25 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |
|                      | IP68 |

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|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket)               |
|                                 | -25 °C ... 80 °C (cable, fixed installation)   |
|                                 | -5 °C ... 80 °C (Cable, flexible installation) |

# SAC-3P-M 8FR/30,0-500/M 8FR - Sensor/actuator cable

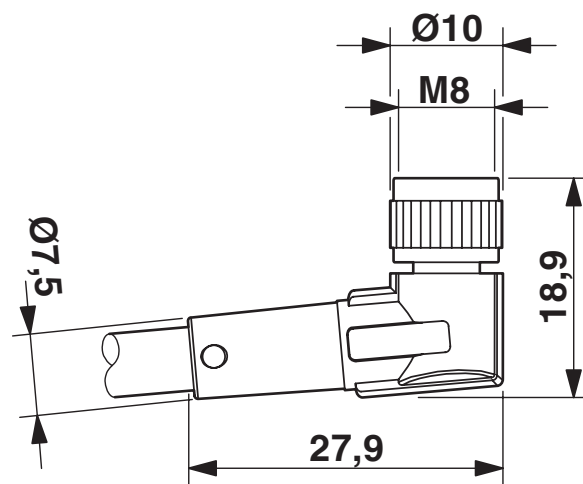


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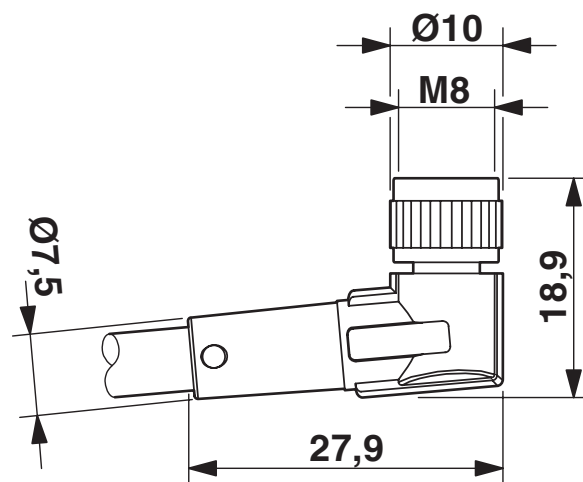
## Drawings

Dimensional drawing



Socket M8 x 1, angled

Dimensional drawing



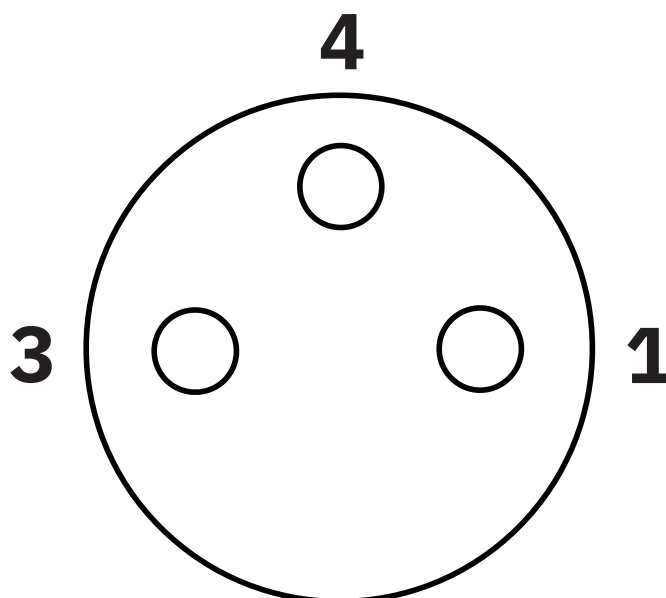
Socket M8 x 1, angled

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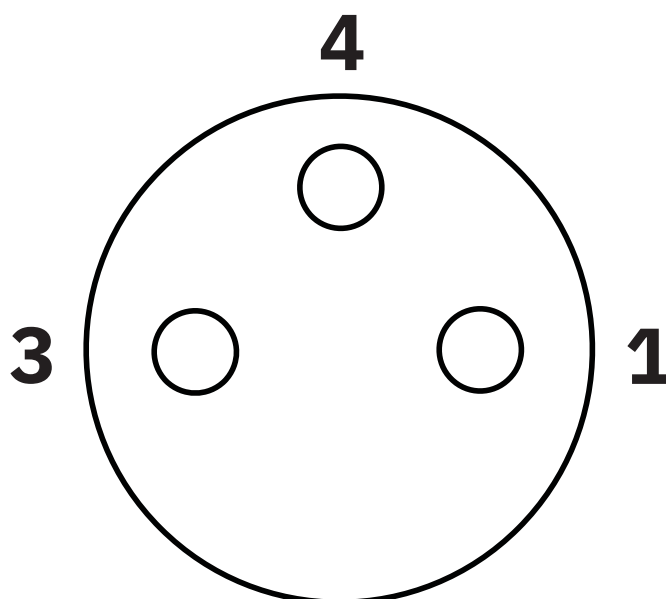
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Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

Schematic diagram



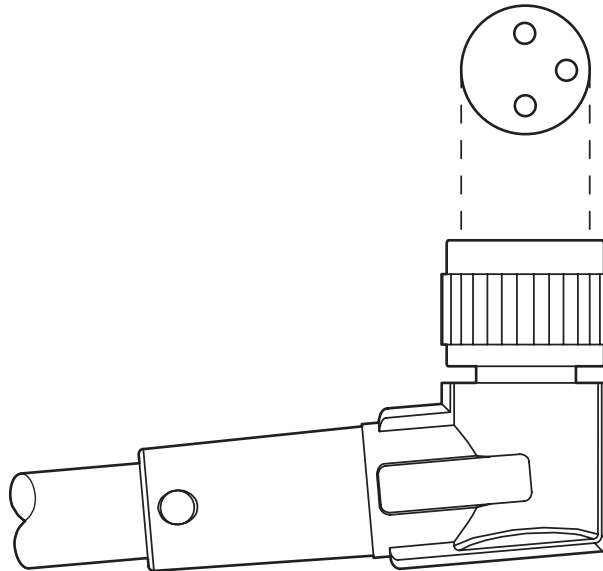
Pin assignment M8 socket, 3-pos., view female side

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Schematic diagram



Layout of connector pin assignments

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## Classifications

### ECLASS

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



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## 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% |
|-------------------------------------|----------------------------|

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