

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



1576876

<https://www.phoenixcontact.com/us/products/1576876>

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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1576876 |
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| Product key | AF1BBA |
| GTIN | 4046356448710 |
| Weight per piece (including packing) | 96.4 g |
| Weight per piece (excluding packing) | 96.4 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 |
| 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 | 3 m |
|--------------|-----|

PVC black [PVC]

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| | |
|---|---|
| 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 ² (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) ≥ 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) -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) |

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

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Drawings

Dimensional drawing



M8 x 1 male plug, angled version

Dimensional drawing



Socket M8 x 1, straight

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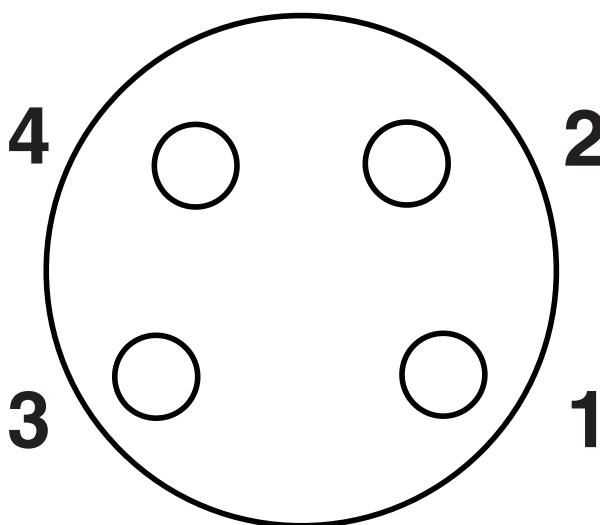
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Schematic diagram



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

Schematic diagram



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

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Schematic diagram



Layout of connector pin assignments

Circuit diagram



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Classifications

ECLASS

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

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | b8519da0-670a-4dc2-afd7-e4d969e03903 |

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