

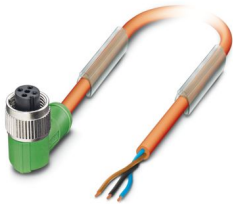
SAC-3P-M12FR/10,0-PUR VW - Sensor/actuator cable



1502329

<https://www.phoenixcontact.com/us/products/1502329>

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Sensor/actuator cable, 3-position, PUR halogen-free, irradiated, orange RAL 2003, free cable end, on Socket angled M12, coding: A, cable length: 10 m, Customer-specific version

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1502329 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF19 |
| Product key | AF1CBA |
| GTIN | 4017918857660 |
| Weight per piece (including packing) | 282.34 g |
| Weight per piece (excluding packing) | 282.34 g |
| Customs tariff number | 85444290 |
| 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 | ≥ 100 MΩ |
| Nominal voltage U_N | 250 V AC |
| | 250 V DC |
| Nominal current I_N | 4 A |

Mechanical properties

Mechanical data

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

Signaling

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

Connector

Connection 1

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

Connection 2

| | |
|---------------------|-------------------|
| Type | Socket angled M12 |
| Number of positions | 3 |
| Coding type | A |

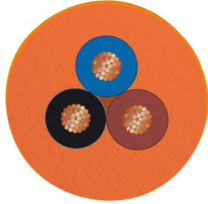
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Cable/line

| | |
|---|---|
| Cable length | 10 m |
| PUR irradiated halogen-free orange [150] | |
| Dimensional drawing |  |
| Number of positions | 3 |
| Shielded | no |
| Cable type | PUR irradiated halogen-free orange [150] |
| Conductor structure signal line | 42x 0.10 mm |
| AWG signal line | 22 |
| Conductor cross-section | 3x 0.34 mm ² (Signal line) |
| Wire diameter incl. insulation | 1.05 mm ±0.05 mm (Signal line) |
| External cable diameter | 4.40 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | orange RAL 2003 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PE |
| Single wire, color | brown, blue, black |
| Overall twist | 3 wires, twisted |
| Max. conductor resistance | max. 57 Ω/km |
| Nominal voltage, cable | 250 V (AC) |
| Test voltage | 2000 V (50 Hz, 5 minutes) |
| Smallest bending radius, fixed installation | 13.5 mm |
| Smallest bending radius, movable installation | 53 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000000, Bending radius: 44 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ² |
| Flame resistance | according to DIN VDE 0472 Part 804 |
| Other resistance | UV resistant |
| Special properties | Silicone-free Irradiated |
| Ambient temperature (operation) | -50 °C ... 105 °C (cable, fixed installation) -40 °C ... 105 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

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| | |
|---|--|
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket) |
| Ambient temperature (operation) (fixed installation) | -50 °C ... 105 °C (cable, fixed installation) |
| Ambient temperature (operation) (flexible installation) | -40 °C ... 105 °C (Cable, flexible installation) |

Drawings

Dimensional drawing



M12 x 1 socket, angled

Schematic diagram



Pin assignment M12 socket, 3-pos.

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Circuit diagram



Contact assignment of the M12 socket

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Classifications

ECLASS

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