

SAC-4P-M12MR/ 0,6-PUR/M12FR TP - Sensor/actuator cable



1505180

<https://www.phoenixcontact.com/us/products/1505180>

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Sensor/actuator cable, 4-position, PUR/PVC, green RAL 6017, Plug angled M12, coding: A, on Socket angled M12, coding: A, cable length: 0.6 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1505180 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF03 |
| Product key | AF1CCA |
| GTIN | 4017918902360 |
| Weight per piece (including packing) | 68 g |
| Weight per piece (excluding packing) | 68 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 | 4 |
| 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 | 250 V AC |
| | 250 V DC |
| Nominal current I_N | 4 A |

Mechanical properties

Mechanical data

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

Signaling

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

Connector

Connection 1

| | |
|---------------------|-----------------|
| Type | Plug angled M12 |
| Number of positions | 4 |
| Coding type | A |

Connection 2

| | |
|------|-------------------|
| Type | Socket angled M12 |
|------|-------------------|

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| | |
|---------------------|---|
| Number of positions | 4 |
| Coding type | A |

Cable/line

| | |
|--------------|-------|
| Cable length | 0.6 m |
|--------------|-------|

PUR/PVC green [350]

| | |
|---|--|
| Number of positions | 4 |
| Shielded | no |
| Cable type | PUR/PVC green [350] |
| Conductor structure signal line | 28x 0.15 mm |
| AWG signal line | 20 |
| Conductor cross-section | 0.5 mm ² |
| External cable diameter | 7.8 mm |
| Outer sheath, material | PUR |
| External sheath, color | green RAL 6017 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | brown-white, green-yellow |
| Thickness, insulation | Core insulation approx. 1.00 mm (Inner sheath) approx. 0.70 mm (Outer cable sheath) |
| Nominal voltage, cable | 300 V |
| Test voltage | 1500 V |
| Smallest bending radius, movable installation | 78 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 2000000, Bending radius: 78 mm, Traversing path: 5 m, Traversing rate: 3 m/s |
| Ambient temperature (operation) | -25 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|--|
| Degree of protection | IP65 IP67 IP68 |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) -40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation) |

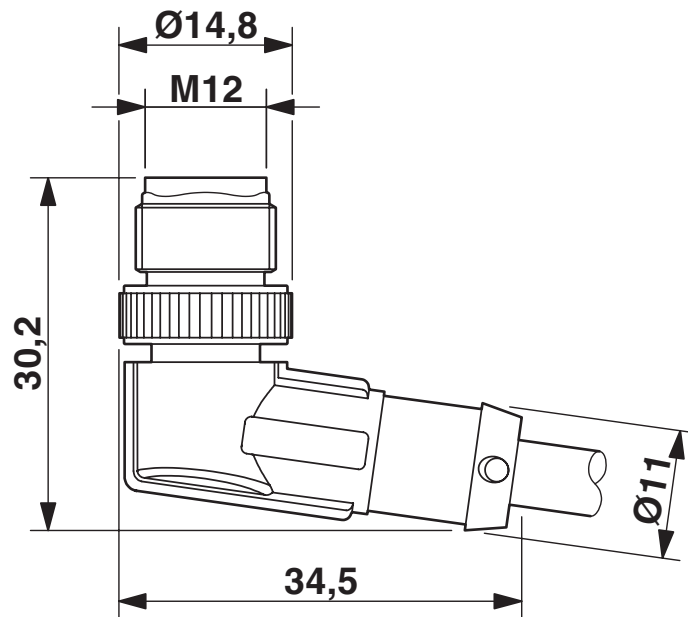
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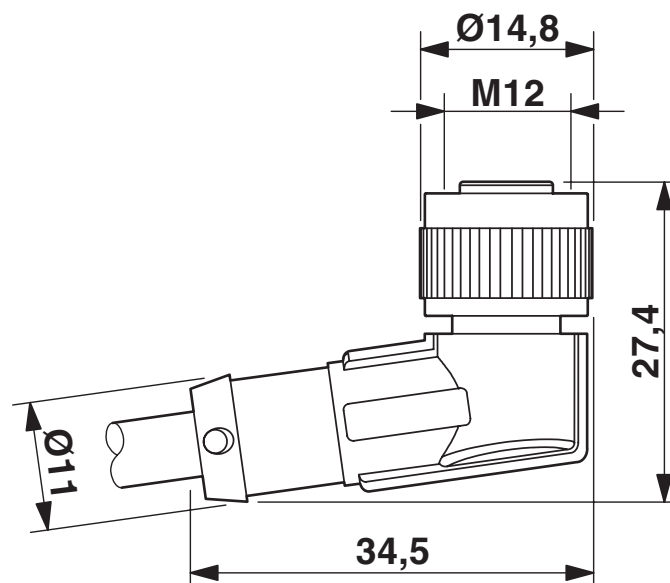
Drawings

Dimensional drawing



M12 x 1 male plug, angled

Dimensional drawing



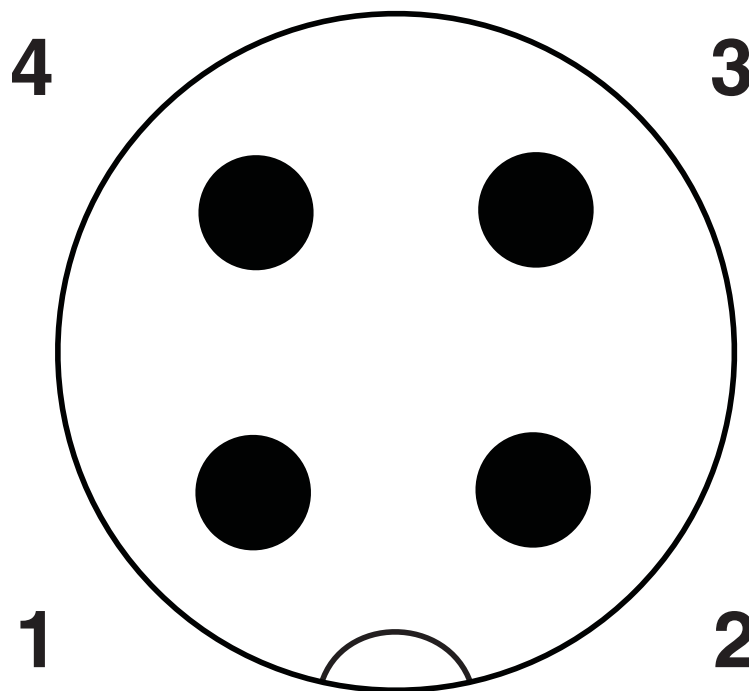
M12 x 1 socket, angled

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Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

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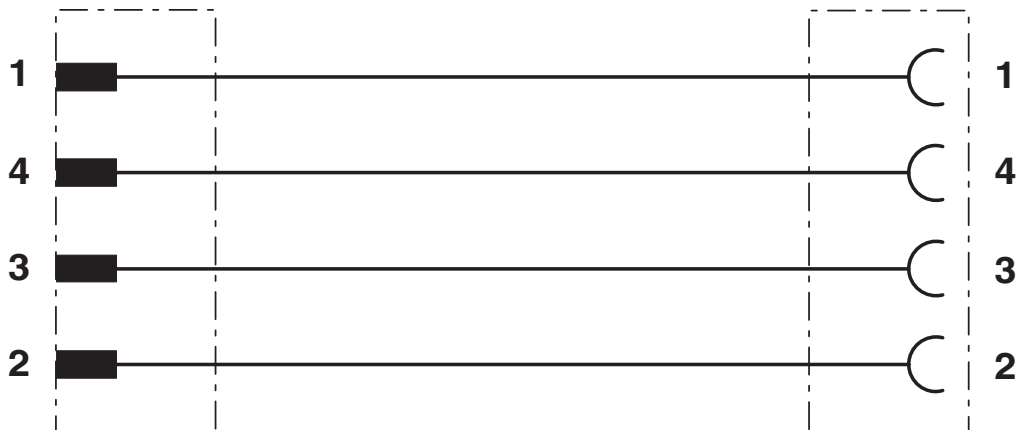
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Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

Circuit diagram



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Classifications

ECLASS

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

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Environmental product compliance

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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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