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# SAC-4P-M12MR/ 5,0-547 BK - Sensor/actuator cable

1424902

https://www.phoenixcontact.com/gb/products/1424902

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Sensor/actuator cable, 4-position, PVC, yellow, Plug angled M12, coding: A, on free cable end, cable length: 5 m

## Commercial data

| | |
|---|---|
| Item number | 1424902 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF1IFB |
| Product key | BF1IFB |
| GTIN | 4055626401744 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85444290 |
| Country of origin | US |

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## Technical data

### Product properties

| | |
|---|---|
| Product type | Sensor/actuator cable |
| Application | Standard, U.S. cables |
| 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 |
| Outer sheath, material | PVC |

### Electrical properties

| | |
|---|---|
| Insulation resistance | ≥ 10 MΩ |
| Nominal voltage $U_N$ | 250 V AC |
| | 250 V DC |
| Nominal current $I_N$ | 4 A |

### Signaling

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

### Connection data

Conductor connection

| | |
|---|---|
| Tightening torque | 0.4 Nm (M12 connector) |

### Connector

Connection 1

| | |
|---|---|
| Type | Plug angled M12 |
| Coding type | A |

Connection 2

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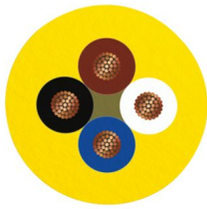
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| | |
|---|---|
| Type | free cable end |

## Cable/line

| | |
|---|---|
| Cable length | 5 m |

PVC AWG 18 yellow 105°C [547]

| | |
|---|---|
| Dimensional drawing |  |
| UL AWM Style | 2517 (105 °C / 300 V) |
| Number of positions | 4 |
| Shielded | no |
| Cable type | PVC AWG 18 yellow 105°C [547] |
| Conductor structure signal line | 41x 0.16 mm |
| AWG signal line | 18 |
| Wire diameter incl. insulation | 1.7 mm ±0.03 mm |
| External cable diameter | 6.00 mm ±0.2 mm |
| Outer sheath, material | PVC |
| External sheath, color | yellow |
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | brown, white, blue, black |
| Overall twist | 4 wires, twisted |
| Nominal voltage, cable | 300 V |
| Minimum bending radius, fixed installation | 8 x D |
| Smallest bending radius, fixed installation | 48 mm |
| Flame resistance | FT4 |
| Special properties | C(UL) CMX OUTDOOR-CMG 105 °C |
| | UL ITC/PLTC 105 °C |
| | CSA AWM I/II A/B FT4 105 °C / 300 V |
| Ambient temperature (operation) | -30 °C ... 105 °C (cable, fixed installation) |

## Environmental and real-life conditions

Ambient conditions

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

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## Standards and regulations

| | |
|---|---|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |

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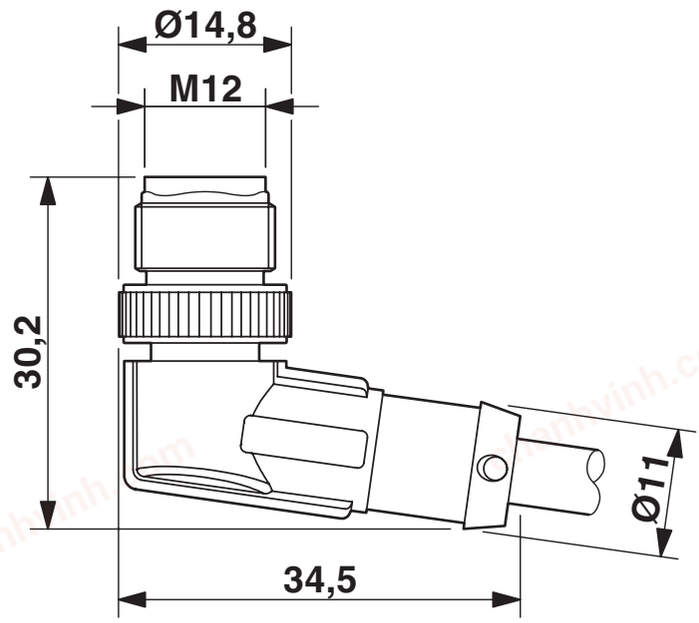
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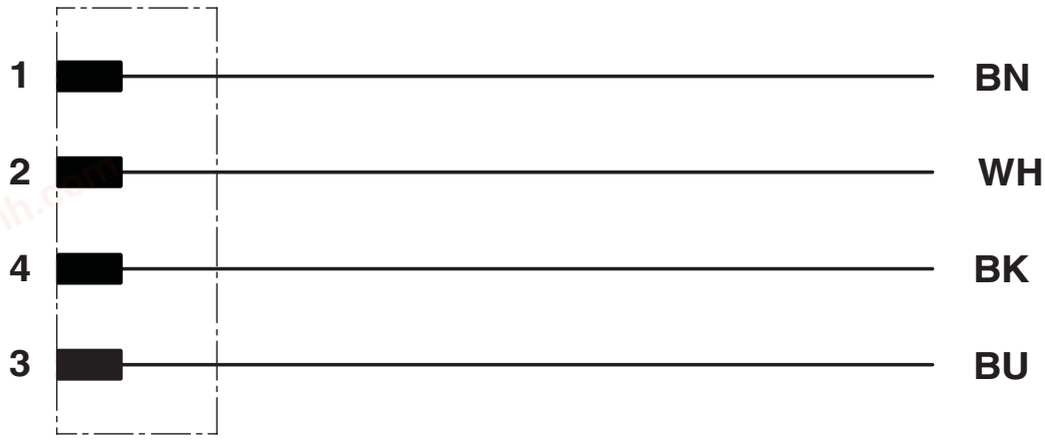
## Drawings

Dimensional drawing




M12 x 1 male plug, angled

Circuit diagram



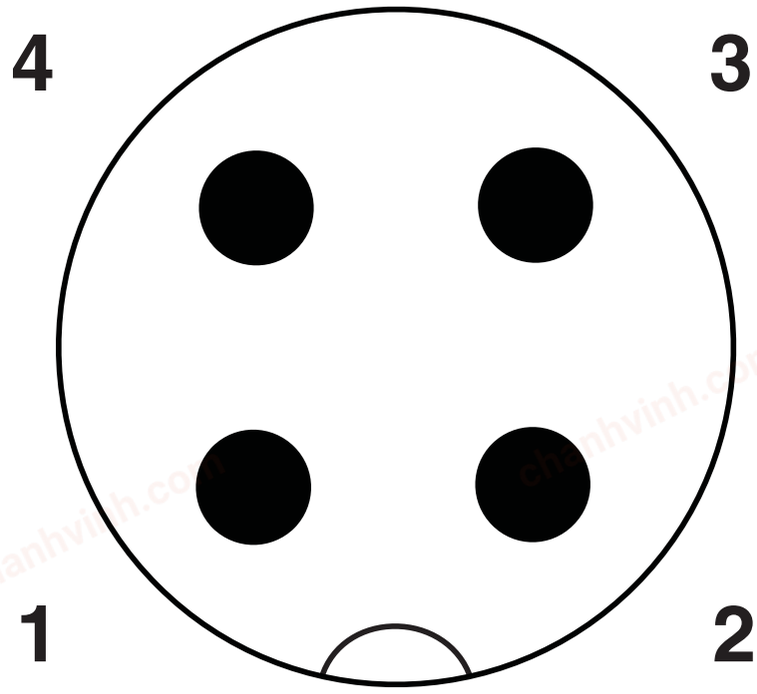
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Schematic diagram




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

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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1424902

**UL Listed**
Approval ID: FILE E 221474

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 300 V | 4 A | - | - |

**cUL Listed**
Approval ID: FILE E 221474

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 300 V | 4 A | - | - |

**cULus Listed**

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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060311 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC001855 |

### UNSPSC

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

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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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