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# SAC-8P-10,0-PVC/M12FS SH VA - Sensor/actuator cable

1413928

https://www.phoenixcontact.com/in/products/1413928

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Sensor/actuator cable, 8-position, PVC, black RAL 9005, shielded, free cable end, on Socket straight M12, coding: A, cable length: 10 m

## Commercial data

| | |
|---|---|
| Item number | 1413928 |
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| Note | Made to order (non-returnable) |
| Sales key | ***** |
| Product key | AF1CMA |
| GTIN | 4055626012377 |
| Weight per piece (including packing) | 914 g |
| Weight per piece (excluding packing) | 878 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 | 8 |
| No. of cable outlets | 1 |
| Shielded | yes |
| 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 | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material for screw connection | Stainless steel |

### Electrical properties

| | |
|---|---|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 30 V AC |
| | 30 V DC |
| Nominal current $I_N$ | 2 A |

### Mechanical properties

Mechanical data

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

### Signaling

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

### Connector

Connection 1

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

Connection 2

| | |
|---|---|
| Type | Socket straight M12 |
| Number of positions | 8 |
| Coding type | A |

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## Cable/line

| | |
|---|---|
| Cable length | 10 m |

PVC black [PVC]

| | |
|---|---|
| Dimensional drawing |  |
| Note | The cable is not suitable for use with drag chains. |
| Cable weight | 85 kg/km |
| UL AWM Style | 2517 |
| Number of positions | 8 |
| Shielded | yes |
| Cable type | PVC black [PVC] |
| Conductor structure signal line | 32x 0.10 mm |
| AWG signal line | 24 |
| Conductor cross section | 8x 0.25 mm² (Signal line) |
| Wire diameter incl. insulation | 1.5 mm ±0.05 mm (Signal line) |
| External cable diameter | 7.70 mm ±0.2 mm |
| Outer sheath, material | PVC |
| External sheath, color | black RAL 9005 |
| Conductor material | Bare Cu litz wires |
| Material, filler | PVC |
| Material wire insulation | PVC |
| Single wire, color | white, brown, green, yellow, gray, pink, blue, red |
| Thickness, insulation | ≥ 0.38 mm (Conductor insulation, signal line) |
| | ≥ 0.76 mm (Outer cable sheath) |
| Overall twist | 8 wires around filler to the core, twisted in with additional Cu litz in the wire outer godet |
| Optical shield covering | 85 % |
| Max. conductor resistance | ≤ 78 Ω/km |
| Insulation resistance | ≥ 10 GΩ*km |
| Nominal voltage, cable | 300 V |
| Test voltage | 3000 V |
| Smallest bending radius, fixed installation | 38.5 mm |
| Smallest bending radius, movable installation | 77 mm |
| Flame resistance | According to UL 758/1581 (Cable Flame) |
| | According to DIN EN 60332-1-2 (60 s) |
| Resistance to oil | According to DIN EN 60811-2-1, 168 h at 80°C |
| Ambient temperature (operation) | -25 °C ... 105 °C (cable, fixed installation) |

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## Environmental and real-life conditions

### Ambient conditions

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

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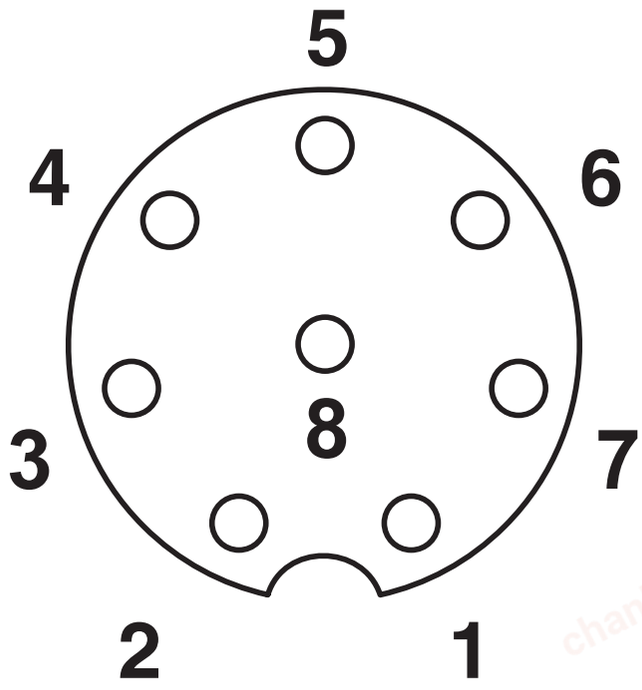
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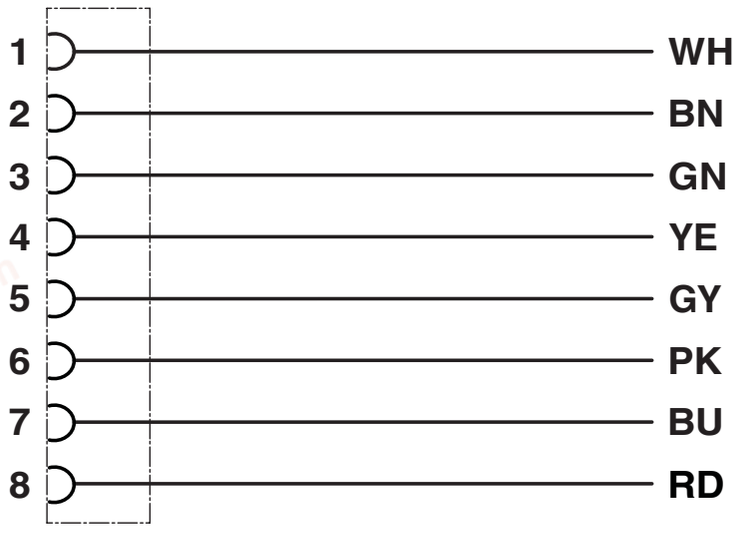
## Drawings

Schematic diagram




Pin assignment M12 socket, 8-pos., A-coded, view female side

Circuit diagram




Contact assignment of the M12 socket

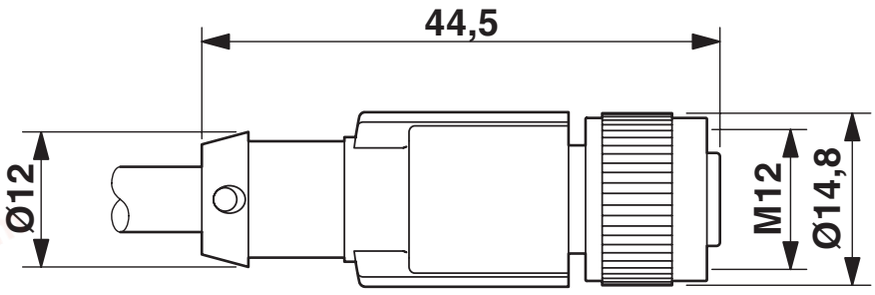
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Dimensional drawing




M12 x 1 socket, straight, shielded

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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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