

# SAC-4P-M12MSB/ 5,0-PUR/M12FSB - Sensor/actuator cable



1576533

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Sensor/actuator cable, 4-position, PUR/PVC, black RAL 9005, Plug straight M12, coding: B, on  
Socket straight M12, coding: B, cable length: 5 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1576533       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1CCA        |
| GTIN                                 | 4046356439800 |
| Weight per piece (including packing) | 210.7 g       |
| Weight per piece (excluding packing) | 210.7 g       |
| 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               | B                     |

### Material specifications

|                               |                                             |
|-------------------------------|---------------------------------------------|
| Seal material                 | NBR                                         |
| Material of grip body         | TPU, hardly inflammable, self-extinguishing |
| Contact material              | CuSn                                        |
| Contact surface material      | Ni/Au                                       |
| Contact carrier material      | PA 6.6                                      |
| 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                   |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Connector

#### Connection 1

|                     |                   |
|---------------------|-------------------|
| Type                | Plug straight M12 |
| Number of positions | 4                 |
| Coding type         | B                 |

#### Connection 2

|                     |                     |
|---------------------|---------------------|
| Type                | Socket straight M12 |
| Number of positions | 4                   |
| Coding type         | B                   |

### Cable/line

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

#### PUR/PVC black [350]

|                     |          |
|---------------------|----------|
| Cable weight        | 39 kg/km |
| UL AWM Style        | 20549    |
| Number of positions | 4        |

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|                                               |                                                                                                   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------|
| Shielded                                      | no                                                                                                |
| Cable type                                    | PUR/PVC black [350]                                                                               |
| Conductor structure signal line               | 42x 0.10 mm                                                                                       |
| AWG signal line                               | 22                                                                                                |
| Conductor cross section                       | 0.34 mm <sup>2</sup>                                                                              |
| Wire diameter incl. insulation                | 1.5 mm ±0.05 mm                                                                                   |
| External cable diameter                       | 5.20 mm ±0.2 mm                                                                                   |
| Outer sheath, material                        | PUR                                                                                               |
| 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                         | approx. 0.30 mm (Core insulation)                                                                 |
|                                               | approx. 0.35 mm (Inner sheath)                                                                    |
|                                               | ≥ 0.38 mm (Outer cable sheath)                                                                    |
| Overall twist                                 | 4 wires, twisted                                                                                  |
| Max. conductor resistance                     | max. 58 Ω/km (at 20 °C)                                                                           |
| Insulation resistance                         | ≥ 1 GΩ*km (at 20 °C)                                                                              |
| Nominal voltage, cable                        | ≤ 300 V                                                                                           |
| Test voltage                                  | ≥ 3000 V                                                                                          |
| Smallest bending radius, fixed installation   | 52 mm                                                                                             |
| Smallest bending radius, movable installation | 52 mm                                                                                             |
| Dynamic load capacity (bending)               | Max. bending cycles: 2000000, Bending radius: 52 mm, Traversing path: 5 m, Traversing rate: 3 m/s |
| Flame resistance                              | in accordance with DIN UL-Style 20549                                                             |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)                                                      |
|                                               | -5 °C ... 80 °C (Cable, flexible installation)                                                    |

## Environmental and real-life conditions

### Ambient conditions

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

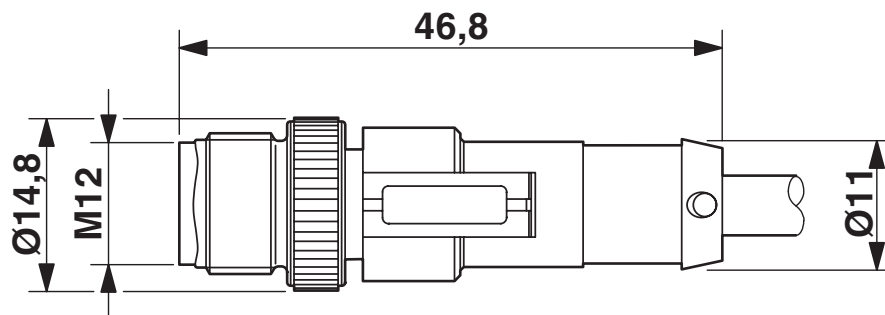
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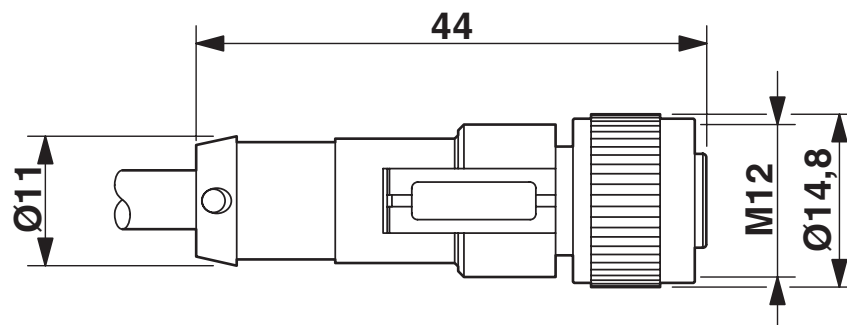
## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight

# SAC-4P-M12MSB/ 5,0-PUR/M12FSB - Sensor/actuator cable



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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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