

## Sensor/Actuator cable - SAC-5P-M 8MSB/10,0-115 - 1404464

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Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M8, B-coded, on free cable end, Cable length: 10 m

### Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Our standard: robust halogen-free PUR cable



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 046356 696838 |
| Weight per Piece (excluding packing) | 300.0 g   |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Poland  |
| Product key                          | BF1BDA  |
| Note                                 | Made to Order (non-returnable)  |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 10 m |
|-----------------|------|

#### Ambient conditions

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

#### General

|                       |      |
|-----------------------|------|
| Rated current at 40°C | 3 A  |
| Rated voltage         | 30 V |
| Number of positions   | 5    |

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## Technical data

### General

|                              |                              |
|------------------------------|------------------------------|
| Contact resistance           | ≤ 5 mΩ                       |
| Insulation resistance        | ≥ 100 MΩ                     |
| Coding                       | B - inverse                  |
| Standards/regulations        | M8 connector IEC 61076-2-104 |
| Status display               | No                           |
| Protective circuit/component | Unwired                      |
| Overvoltage category         | II                           |
| Pollution degree             | 3                            |
| Insertion/withdrawal cycles  | ≥ 100                        |
| Torque                       | 0.2 Nm (M8 connectors)       |

### Material

|   |   |
|---|---|
| Inflammability class according to UL 94 | HB  |
| Contact material                        | CuSn  |
| Contact surface material                | Ni/Au                                       |
| Contact carrier material                | TPU GF                                      |
| Material of grip body                   | TPU, hardly inflammable, self-extinguishing |
| Material, knurls                        | Zinc die-cast, nickel-plated                |
| Sealing material                        | NBR   |

### Cable

|   |                                     |
|---|-------------------------------------|
| Cable type                                    | PUR halogen-free black              |
| Cable type (abbreviation)                     | 115                                 |
| Cable abbreviation                            | Li9Y11Y                             |
| UL AWM style                                  | 20549                               |
| Conductor cross section                       | 0.25 mm <sup>2</sup>                |
| AWG signal line                               | 24                                  |
| Conductor structure signal line               | 32x 0.10 mm                         |
| Core diameter including insulation            | 1.17 mm ±0.02 mm                    |
| Thickness, insulation                         | approx. 0.21 mm (Core insulation)   |
|   | approx. 0.7 mm (Outer cable sheath) |
| Wire colors                                   | Brown, white, blue, black, gray     |
| Overall twist                                 | 5 cores, twisted                    |
| Length of twist, overall twist                | 75 mm                               |
| External sheath, color                        | black-gray RAL 7021                 |
| External cable diameter D                     | 4.7 mm ±0.15 mm                     |
| Smallest bending radius, fixed installation   | 23.5 mm                             |
| Smallest bending radius, movable installation | 47 mm                               |
| Number of bending cycles                      | 4000000                             |
| Bending radius                                | 47 mm                               |
| Traversing path                               | 10 m                                |
| Traversing rate                               | 3 m/s                               |

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### Technical data

#### Cable

|                                 |   |
|---------------------------------|---|
| Acceleration                    | 10 m/s <sup>2</sup>   |
| Cable weight                    | 30 kg/km  |
| Outer sheath, material          | PUR   |
| Material, filler                | PP  |
| Material conductor insulation   | PP  |
| Conductor material              | Bare Cu litz wires  |
| Insulation resistance           | ≥ 1 GΩ*km   |
| Conductor resistance            | ≤ 75 Ω/km   |
| Nominal voltage, cable          | ≤ 300 V (AC)  |
| Test voltage, cable             | ≥ 3000 V (AC)   |
| Flame resistance                | according to UL 758/1581 (horizontal)<br>in accordance with UL 758/1581 FT2                       |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815<br>in accordance with DIN EN 50267-2-1                   |
| Resistance to oil               | According to DIN EN 60811-2-1, 168 h at 100°C   |
| Other resistance                | hydrolysis and microbe resistant<br>Resistant to salt water<br>Low adhesion<br>abrasion-resistant |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)<br>-25 °C ... 80 °C (cable, flexible installation)   |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27279218 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |

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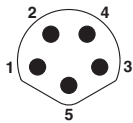
## Classifications

### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 11    | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2  | 31251501 |

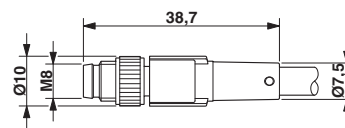
## Drawings

Schematic diagram



Pin assignment, pin side, M8, 5-pos., B-coded

Dimensional drawing



M8 x 1 male plug, straight version

Circuit diagram



Contact assignment of the M8 plug