

## Sensor/Actuator cable - SAC-8P-M 8MS/ 3,0-PUR SH - 1404140

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Sensor/Actuator cable, 8-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on free cable end, Cable length: 3 m

### Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Our standard: robust halogen-free PUR cable
- ✓ Save space – with high-pos. connectors
- ✓ Reliable signal transmission – 360° shielding in environments with electromagnetic interference



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 680592 |
| Weight per Piece (excluding packing) | 152.2 g                                                                                                 |
| Custom tariff number                 | 85444290                                                                                                |
| Country of origin                    | Poland                                                                                                  |
| Product key                          | BF1BNA                                                                                                  |
| Note                                 | Made to Order (non-returnable)                                                                          |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 3 m |
|-----------------|-----|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |

#### General

|                       |       |
|-----------------------|-------|
| Rated current at 40°C | 1.5 A |
| Rated voltage         | 30 V  |
| Number of positions   | 8     |

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## Technical data

### General

|                              |                              |
|------------------------------|------------------------------|
| Contact resistance           | $\leq 5 \text{ m}\Omega$     |
| Insulation resistance        | $\geq 100 \text{ M}\Omega$   |
| Coding                       | A - standard                 |
| Standards/regulations        | M8 connector IEC 61076-2-104 |
| Status display               | No                           |
| Protective circuit/component | Unwired                      |
| Pollution degree             | 3                            |
| Insertion/withdrawal cycles  | $\geq 100$                   |
| 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 abbreviation                            | Li9YV1-C-V1-11Y                                    |
| UL AWM style                                  | 20549                                              |
| Conductor cross section                       | 8x 0.14 mm <sup>2</sup> (signal line)              |
| AWG signal line                               | 26                                                 |
| Conductor structure signal line               | 18x 0.10 mm                                        |
| Core diameter including insulation            | 1 mm $\pm$ 0.02 mm (signal line)                   |
| Thickness, insulation                         | $\geq 0.21 \text{ mm}$ (signal line)               |
|                                               | $\geq 0.38 \text{ mm}$ (Outer cable sheath)        |
| Wire colors                                   | white, brown, green, yellow, gray, pink, blue, red |
| Overall twist                                 | 8 wires around filler to the core                  |
| Length of twist, overall twist                | 58 mm                                              |
| Shielding                                     | Tinned copper braided shield                       |
| Optical shield covering                       | 85 %                                               |
| External sheath, color                        | black-gray RAL 7021                                |
| External cable diameter D                     | 5.9 mm $\pm$ 0.2 mm                                |
| Smallest bending radius, fixed installation   | 29.5 mm                                            |
| Smallest bending radius, movable installation | 59 mm                                              |
| Number of bending cycles                      | 2000000                                            |
| Bending radius                                | 59 mm                                              |
| Traversing path                               | 10 m                                               |
| Traversing rate                               | 3 m/s                                              |

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### Technical data

#### Cable

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Acceleration                    | 10 m/s <sup>2</sup>                             |
| Outer sheath, material          | PUR                                             |
| Material, filler                | PE                                              |
| Material conductor insulation   | PP                                              |
| Conductor material              | Bare Cu litz wires                              |
| Insulation resistance           | 1 GΩ*km (at 20 °C)                              |
| Conductor resistance            | 139 Ω/km (at 20 °C)                             |
| Nominal voltage, cable          | ≤ 300 V AC                                      |
| Test voltage, cable             | ≥ 3000 V AC (Spark test)                        |
| Test voltage Core/Shield        | ≥ 2000 V AC (for 60 s)                          |
| Flame resistance                | according to UL 758/1581 (horizontal)           |
|                                 | in accordance with UL 758/1581 FT2              |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815        |
|                                 | 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                |
|                                 | Resistant to salt water                         |
|                                 | Low adhesion                                    |
|                                 | abrasion-resistant                              |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)    |
|                                 | -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 |

# Sensor/Actuator cable - SAC-8P-M 8MS/ 3,0-PUR SH - 1404140

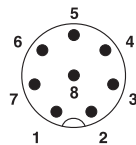
## Classifications

### UNSPSC

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

## Drawings

Schematic diagram



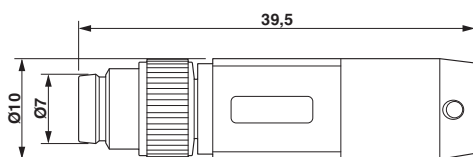
M8 plug pin assignment, 8-pos., view of pin side

Cable cross section



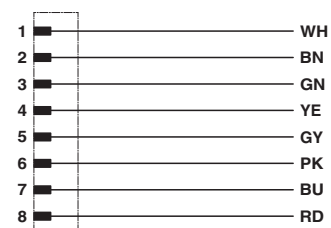
PUR halogen-free black [PUR]

Dimensional drawing



M8 x 1 male plug, straight version

Circuit diagram



Contact assignment of the M8 plug

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9