

# Sensor/Actuator cable - SAC-3P-M 8MS/ 2,0-PVC B-L - 1404691

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Sensor/Actuator cable, 3-position, PVC, Black RAL 9005, Plug straight M8, on Free cable end, Cable length: 2 m



## Key commercial data

|                        |   |
|------------------------|---|
| Packing unit           | 0   |
| Minimum order quantity | 1   |
| GTIN                   | <br>4 046356 724753 |
| Custom tariff number   | 85444290  |
| Country of origin      | POLAND  |

## Technical data

### General data

|                                 |  |
|---------------------------------|--|
| Rated current at 40°C           | 4 A  |
| Rated voltage                   | 60 V   |
| Number of positions             | 3  |
| Volume resistance               | ≤ 5 mΩ   |
| Insulation resistance           | ≥ 100 MΩ   |
| Length of cable                 | 2 m  |
| Ambient temperature (operation) | -25 °C ... 90 °C (Male connector / female connector) |

### General characteristics

|                          |   |
|--------------------------|---|
| Standards/regulations    | M8 plug-in connector IEC 61076-2-104        |
| Coding                   | A - standard                                |
| Degree of protection     | IP65/67                                     |
| Torque                   | 0.2 Nm (M8 plug-in connectors)              |
| 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                |
| Status display           | No  |

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## Technical data

### Conductor data

|                                    |  |
|------------------------------------|--|
| Cable type                         | PVC black                                      |
| Cable type (abbreviation)          | PVC  |
| Cable abbreviation                 | LiYY   |
| Conductor cross section            | 3x 0.25 mm <sup>2</sup> (signal line)          |
| AWG signal line                    | 24   |
| Conductor structure signal line    | 32x 0.10 mm                                    |
| Core diameter including insulation | 1.32 mm ±0.02 mm                               |
| Thickness, insulation              | ≥ 0.23 mm (Core insulation)                    |
| Thickness, insulation              | ≥ 0.76 mm (Outer cable sheath)                 |
| Wire colors                        | brown, blue, black                             |
| Overall twist                      | 3 wires, twisted                               |
| External sheath, color             | Black RAL 9005                                 |
| External cable diameter D          | 4.4 mm ±0.15 mm                                |
| Cable weight                       | 29 kg/km                                       |
| Outer sheath, material             | PVC  |
| Material conductor insulation      | PVC  |
| Conductor material                 | Bare Cu litz wires                             |
| Insulation resistance              | ≥ 100 MΩ*km (at 20 °C)                         |
| Conductor resistance               | max. 78 Ω/km (at 20 °C)                        |
| Nominal voltage, conductor         | ≥ 300 V  |
| Test voltage, conductor            | ≤ 3000 V                                       |
| Flame resistance                   | As per UL-Style 2464                           |
| Ambient temperature (operation)    | -25 °C ... 80 °C (cable, fixed installation)   |
| Ambient temperature (operation)    | -5 °C ... 80 °C (cable, flexible installation) |

## Classifications

### ETIM

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

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27060300 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

#### Approvals submitted

## Approval details

|                                |       |
|--------------------------------|-------|
| UL Listed                      |       |
| Nominal current I <sub>N</sub> | 4 A   |
| Nominal voltage U <sub>N</sub> | 125 V |

|                                |       |
|--------------------------------|-------|
| cUL Listed                     |       |
| Nominal current I <sub>N</sub> | 4 A   |
| Nominal voltage U <sub>N</sub> | 125 V |

|              |  |
|--------------|--|
| cULus Listed |  |
|--------------|--|

## Accessories

### Accessories

### Marking

## Sensor/Actuator cable - SAC-3P-M 8MS/ 2,0-PVC B-L - 1404691

### Accessories

Insert label - PABA WH/15 - 1013151



Insert label, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA YE/15 - 1013698



Insert label, yellow, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA RD/15 - 1013944



Insert label, red, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Conductor marker carrier - PATG 2/23 - 1013850



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 23 mm

Conductor marker carrier - PATG 3/23 - 1013863



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 23 mm

Conductor marker carrier - PATG 4/23 - 0808011



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 23 mm

## Sensor/Actuator cable - SAC-3P-M 8MS/ 2,0-PVC B-L - 1404691

### Accessories

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Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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### Protection and sealing elements

Sealing cap - PROT-M 8 FS-PA-CHAIN - 1430857



M8 sealing cap made of plastic with fixing band for sensor cables, for M8 plugs

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### Tools

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

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Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from  $\varnothing$  of 4.4 to 7 mm, any stripping length

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Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

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# Sensor/Actuator cable - SAC-3P-M 8MS/ 2,0-PVC B-L - 1404691

## Accessories

Torque screwdriver - TSD 02 SAC - 1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

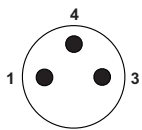
Tool - SAC BIT M8-D10 - 1208461



Nut for assembling sensor/actuator cables with M8 connector and for M8 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

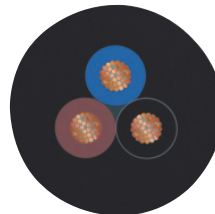
## Drawings

Schematic diagram



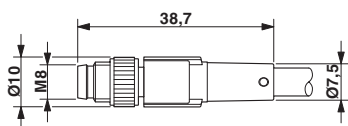
Pin assignment M8 plug, 3-pos., view male side

Cable cross section



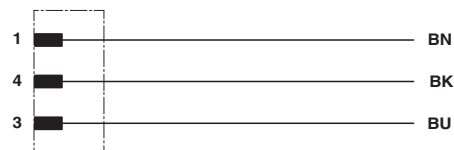
PVC black [PVC]

Dimensioned drawing



M8 x 1 male connector, straight version

Circuit diagram



Contact assignment of the M8 plug