

## Sensor/Actuator cable - SAC-3P- 3,0-PUR/M5FR - 1530511

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Sensor/Actuator cable, 3-position, PUR, Black RAL 9005, free cable end, on Socket angled M5, A-coded, Cable length: 3 m

### Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Signal transmission in a confined space – with our M5 connectors



### Key commercial data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 046356 024310 |
| Weight per Piece (excluding packing) | 46.1 g  |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

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

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 80 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |

#### General

|                       |         |
|-----------------------|---------|
| Rated current at 40°C | 1 A     |
| Rated voltage         | 125 V   |
| Number of positions   | 3       |
| Contact resistance    | ≤ 3 mΩ  |
| Insulation resistance | ≥ 10 GΩ |

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## Technical data

### General

|                              |                              |
|------------------------------|------------------------------|
| Coding                       | A - standard                 |
| Standards/regulations        | M5 connector IEC 61076-2-105 |
| Status display               | No                           |
| Protective circuit/component | Unwired                      |
| Surge voltage category       | II                           |
| Pollution degree             | 3                            |
| Test voltage                 | 1750 V                       |
| Insertion/withdrawal cycles  | ≥ 100                        |

### Material

|                          |                     |
|--------------------------|---------------------|
| Contact material         | CuSn                |
| Contact surface material | Au                  |
| Contact carrier material | PUR                 |
| Material of grip body    | PUR                 |
| Material, knurls         | Nickel-plated brass |
| Sealing material         | NBR                 |

### Cable

|   |  |
|---|--|
| Cable type                                    | PUR/PVC black                                  |
| Conductor cross section                       | 3x 0.14 mm <sup>2</sup> (signal line)          |
| AWG signal line                               | 26   |
| Conductor structure signal line               | 18x 0.10 mm                                    |
| Core diameter including insulation            | 1.1 mm   |
| Wire colors                                   | brown, blue, black                             |
| Overall twist                                 | 3 wires, twisted                               |
| External sheath, color                        | Black RAL 9005                                 |
| External cable diameter D                     | 3 mm ±0.2 mm                                   |
| Smallest bending radius, fixed installation   | 8 mm   |
| Smallest bending radius, movable installation | 15 mm  |
| Cable weight                                  | 12.9 kg/km                                     |
| Outer sheath, material                        | PUR  |
| Material conductor insulation                 | PVC  |
| Conductor material                            | Bare Cu litz wires                             |
| Insulation resistance                         | 100 MΩ*km                                      |
| Conductor resistance                          | 148 Ω/km                                       |
| Nominal voltage, cable                        | 250 V  |
| Test voltage, cable                           | 800 V <sub>rms</sub>                           |
| Ambient temperature (operation)               | -15 °C ... 80 °C (cable, fixed installation)   |
|   | -5 °C ... 80 °C (cable, flexible installation) |

## Sensor/Actuator cable - SAC-3P- 3,0-PUR/M5FR - 1530511

### 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 2.0 | EC000830 |
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

#### UNSPSC

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

### Approvals

#### Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

#### Approval details

|     |
|-----|
| EAC |
|-----|

### Accessories

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## Sensor/Actuator cable - SAC-3P- 3,0-PUR/M5FR - 1530511

### Accessories

#### Conductor marking

Insert label - PABA WH/15 - 1013151



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

#### Cutting tools

Diagonal cutter - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

#### Marker carrier cable

Conductor marker carrier - PATG 2/15 - 1013038



Conductor marker carrier, transparent, unlabeled, Mounting type: slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 15 mm

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### Accessories

Conductor marker carrier - PATG 3/15 - 1013041



Conductor marker carrier, transparent, unlabeled, Mounting type: slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 15 mm

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Conductor marker carrier - PATG 4/15 - 1013054



Conductor marker carrier, transparent, unlabeled, Mounting type: slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 15 mm

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### Marker pen

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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### Stripping tool

Stripping tool - WIREFOX SAC-1 - 1212757



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 3.2 to 4.4 mm, any stripping length

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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 Ø of 4.4 to 7 mm, any stripping length

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## Accessories

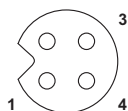
Stripping tool - WIREFOX 10 - 1212150



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

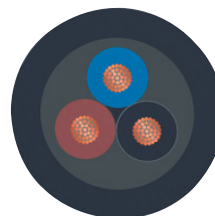
## Drawings

Schematic diagram



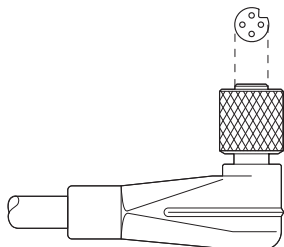
Socket M5, 3-pos.

Cable cross section



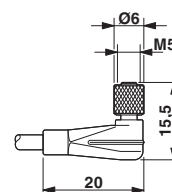
PUR/PVC black [350]

Schematic diagram



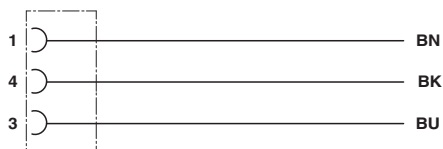
Layout of connector pin assignments

Dimensioned drawing



Socket M5 x 0.5, angled

Circuit diagram



Contact assignment of the M5 socket