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Sensor/Actuator cable, 5-position, PUR halogen-free, Black RAL 9005, free cable end, on Valve connector AD (pressure switch), with 2 LEDs, Cable length: 5 m

#### **Product Features**

- Easy and safe: 100% electrically tested plug-in components
- ☑ Robust valve connector without protective circuit
- Our standard: robust halogen-free PUR cable



### Key commercial data

| Packing unit                         | 1 pc      |
|--------------------------------------|-----------|
| Weight per Piece (excluding packing) | 240.0 GRM |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Poland    |

#### Technical data

#### **Dimensions**

| Length of cable                            | 5 m   |
|--|-------|
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

| Ambient temperature (operation) | -20 °C 85 °C (valve plug) |
|---------------------------------|---------------------------|
| Degree of protection            | IP65                      |
|                                 | IP67                      |

#### General

| Rated current at 40°C | 4 A                      |
|-----------------------|--------------------------|
| Rated voltage         | 24 V                     |
| Number of positions   | 5                        |
| Contact resistance    | $\leq 5 \text{ m}\Omega$ |



## Technical data

#### General

| Insulation resistance        | $\geq 100 \text{ M}\Omega$    |
|------------------------------|-------------------------------|
| Standards/regulations        | Valve connector EN 175301-803 |
| Status display               | 2 LEDs                        |
| Protective circuit/component | Unwired                       |
| Surge voltage category       | III                           |
| Pollution degree             | 3                             |
| Torque                       | 0.6 Nm (valve plug)           |

#### Material

| Inflammability class according to UL 94 | V0                |
|---|-------------------|
| Valve plug contact material             | CuSn              |
| Valve plug contact surface material     | Sn                |
| Valve plug contact insert material      | PA 6              |
| Material housing valve plug             | TPU               |
| Sealing material                        | TPU (Seal molded) |

#### Cable

| Cable type                                    | PUR halogen-free black                           |
|---|--|
| Cable type (abbreviation)                     | PUR  |
| Cable abbreviation                            | Li9Y11Y-HF                                       |
| UL AWM style                                  | 20549  |
| Conductor cross section                       | 5x 0.5 mm <sup>2</sup>                           |
| AWG signal line                               | 20   |
| Conductor structure signal line               | 28x 0.15 mm                                      |
| Core diameter including insulation            | 1.5 mm ±0.05 mm (signal line)                    |
| Wire colors                                   | Black 1, black 2, black 3, black 4, green/yellow |
| Overall twist                                 | 5 cores, twisted                                 |
| External sheath, color                        | black-gray RAL 7021                              |
| External cable diameter D                     | 5.3 mm ±0.02 mm                                  |
| Smallest bending radius, fixed installation   | 26.5 mm  |
| Smallest bending radius, movable installation | 53 mm  |
| Number of bending cycles                      | 15000000   |
| Bending radius                                | 50 mm  |
| Traversing path                               | 0.9 m  |
| Traversing rate                               | 5 m/s  |
| Acceleration                                  | 30 m/s²  |
| Outer sheath, material                        | PUR  |
| Material conductor insulation                 | PP   |



## Technical data

#### Cable

| Conductor material              | Bare Cu litz wires  |
|---------------------------------|---|
| Insulation resistance           | min. 20 MΩ*km   |
| Conductor resistance            | 39 Ω/km (at 20 °C)  |
| Nominal voltage, cable          | 300 V   |
| Test voltage, cable             | 1200 V  |
| Special properties              | Flexible cable conduit capable                                      |
|                                 | Silicone-free   |
|                                 | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                | in accordance with DIN UL-Style 20549                               |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                            |
| Resistance to oil               | in accordance with DIN EN 60811-2-1                                 |
| Other resistance                | Highly resistant to acids, alkaline solutions and solvents          |
|                                 | hydrolysis and microbe resistant                                    |
|                                 | Largely oil-resistant   |
|                                 | partly UV-resistant in accordance with DIN EN ISO 4892-2-A          |
| Ambient temperature (operation) | -40 °C 80 °C (cable, fixed installation)                            |
|                                 | -20 °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 | 27061801 |

### **ETIM**

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

### **UNSPSC**

| UNSPSC 6.01   | 31251501 |
|---------------|----------|
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |



### Classifications

#### **UNSPSC**

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

### Approvals

Approvals

Approvals

GOST

Ex Approvals

Approvals submitted

Approval details



#### Accessories

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



#### Accessories

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

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



#### Accessories

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

#### 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

#### Mounting material

Screw - SAC-V-SCREW-M3-29 KNURL - 1403779



Fillister head screw with plastic knurl, M3 x 40

#### Screwdriver tools

Screw insert - SF-BIT-PH 1-70 - 1212582



Screw bit, PH crosshead, E6.3-1/4" drive, size: PH 1 x 70 mm, hardened, suitable for holder according to DIN 3126-F6.3/ ISO 1173

### Stripping tool



#### Accessories

Stripping tool - WIREFOX SAC-1 - 1212757



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

Stripping tool - WIREFOX SAC - 1212623



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

Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

#### Torque tool

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

### **Drawings**



Catalog photo

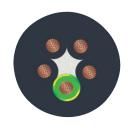
Figure may contain other

প্রাথিখুবাদ্র connector pin assignment, type AD

Schematic diagram

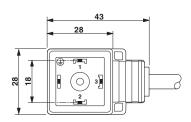


Cable cross section



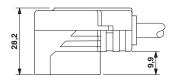
PUR halogen-free black [PUR]

Dimensioned drawing



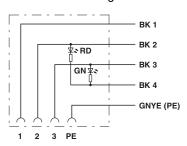
Valve connector, type AD

Dimensioned drawing



Valve connector, type AD, side view

#### Circuit diagram



Contact assignment of the valve plug

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