

1415905

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Sensor/actuator cable, 3-position, PVC, black RAL 9005, free cable end, on Valve connector A, with 1 LED, Wiring: Z diode, cable length: 3 m

Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1415905             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF07                |
| Product key                          | BF1DAA              |
| Catalog page                         | Page 229 (C-2-2019) |
| GTIN                                 | 4055626054728       |
| Weight per piece (including packing) | 134.8 g             |
| Weight per piece (excluding packing) | 136.5 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | PL                  |

# SAC-3P- 3,0-PVC/A-1L-Z - Sensor/actuator cable



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## Technical data

### Product properties

|                      |                                            |
|----------------------|--------------------------------------------|
| Product type         | Sensor/actuator cable with valve connector |
| Application          | Standard                                   |
| Number of positions  | 3                                          |
| No. of cable outlets | 1                                          |
| Shielded             | no                                         |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Material specifications

|                                        |        |
|----------------------------------------|--------|
| Flammability rating according to UL 94 | V0     |
| Seal material                          | TPU    |
| Material housing valve plug            | TPU    |
| Contact material                       | CuSn   |
| Valve plug contact insert material     | PA 6.6 |
| Contact surface material               | Sn     |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 24 V AC                    |
|                       | 24 V DC                    |
| Nominal current $I_N$ | 4 A                        |

### Valve connector characteristics

|                  |                                         |
|------------------|-----------------------------------------|
| Fixing screws    | M3 x 29                                 |
| Pulse power      | 40 W (at 100 $\mu$ s square-wave pulse) |
| Terminal voltage | 70 V (at 2 mA constant current)         |
| Reverse voltage  | 50 V                                    |

### Signaling

|                        |       |
|------------------------|-------|
| Status display         | 1 LED |
| Status display present | Yes   |

### Connector

#### Connection 1

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

#### Connection 2

|                     |                   |
|---------------------|-------------------|
| Type                | Valve connector A |
| Number of positions | 3                 |
|                     | CuSn (Contact)    |

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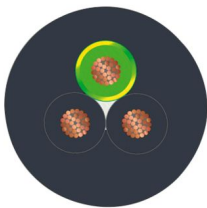
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|          |                           |
|----------|---------------------------|
| Material | Sn (Contact surface)      |
|          | PA 6.6 (Contact carriers) |
|          | TPU (Housing)             |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 3 m |
|--------------|-----|

### PVC black [PVC]

|                                             |                                                                                    |
|---------------------------------------------|------------------------------------------------------------------------------------|
| Dimensional drawing                         |  |
| Cable weight                                | 38.6 kg/km                                                                         |
| UL AWM Style                                | 2464                                                                               |
| Number of positions                         | 3                                                                                  |
| Shielded                                    | no                                                                                 |
| Cable type                                  | PVC black [PVC]                                                                    |
| Conductor structure signal line             | 16x 0.20 mm                                                                        |
| AWG signal line                             | 20                                                                                 |
| Conductor cross section                     | 3x 0.5 mm²                                                                         |
| Wire diameter incl. insulation              | 1.5 mm ±0.05 mm                                                                    |
| External cable diameter                     | 4.80 mm ±0.2 mm                                                                    |
| Outer sheath, material                      | PVC                                                                                |
| External sheath, color                      | black RAL 9005                                                                     |
| Conductor material                          | Bare Cu litz wires                                                                 |
| Material wire insulation                    | PVC                                                                                |
| Single wire, color                          | black 1, black 2, green/yellow                                                     |
| Overall twist                               | 3 wires, twisted                                                                   |
| Max. conductor resistance                   | 39 Ω/km (at 20 °C)                                                                 |
| Insulation resistance                       | ≥ 20 MΩ*km                                                                         |
| Nominal voltage, cable                      | 300 V                                                                              |
| Test voltage                                | 1200 V                                                                             |
| Minimum bending radius, fixed installation  | 5 x D                                                                              |
| Smallest bending radius, fixed installation | 24 mm                                                                              |
| Flame resistance                            | DIN VDE 0482                                                                       |
|                                             | DIN EN 50265-2-1                                                                   |
| Resistance to oil                           | in accordance with DIN EN 60811-2-1                                                |
| Ambient temperature (operation)             | -40 °C ... 80 °C (cable, fixed installation)                                       |
|                                             | -5 °C ... 80 °C (Cable, flexible installation)                                     |

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## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### Valve connector

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | Valve connector |
| Standards/specifications | EN 175301-803   |

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