



### Model Number

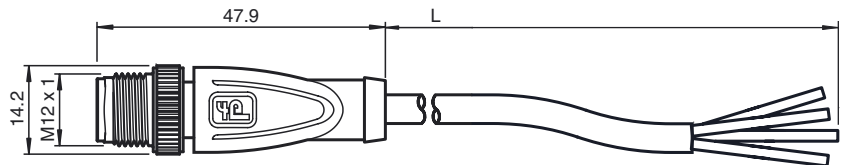
**V1S-G-BK2M-PUR-U**

Cable connector, M12, 4-pin, PUR cable

### Features

- UL Recognized Component
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Gold plated contacts
- Halogen-free
- Suitable for 2-, 3- and 4-wire technology
- Suitable for drag chains

### Dimensions



### Technical data

#### General specifications

|                     |                |
|---------------------|----------------|
| Number of pins      | 4              |
| Connection 1        | Male connector |
| Construction type 1 | straight       |
| Threading 1         | M12            |
| Connection 2        | cable end      |

#### Electrical specifications

|                   |       |                            |
|-------------------|-------|----------------------------|
| Operating voltage | $U_B$ | max. 300 V DC              |
| Test voltage      |       | > 1500 V <sub>eff</sub> AC |
| Operating current |       | max. 4 A                   |
| Volume resistance |       | < 5 mΩ                     |

#### Ambient conditions

|                     |   |
|---------------------|---|
| Ambient temperature | Body: -40 ... 90 °C (-40 ... 194 °F)<br>cable, flexing: -20 ... 80 °C (-4 ... 176 °F)<br>cable, fixed: -40 ... 80 °C (-40 ... 176 °F) |
| Pollution Degree    | 3   |

#### Mechanical specifications

|                        |  |
|------------------------|--|
| Contact elements       | spring-loaded contact socket                                 |
| Pin diameter           | 1 mm   |
| Degree of protection   | IP67 / IP68 / IP69k  |
| Material               |  |
| Contacts               | CuSn / Au  |
| Contact surface        | Au   |
| Body                   | TPU, black   |
| Cable                  | PUR  |
| Slotted nut            | Diecast zinc   |
| Core insulation        | PP   |
| Cable                  | extra-fine wire, flexible                                    |
| Sheath diameter        | Ø 4.3 mm   |
| Bending radius         | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed |
| Color                  | black  |
| Cores                  | 4 x 0.34 mm <sup>2</sup>                                     |
| Conductor construction | 42 x 0.1 mm Ø  |
| Length                 | L 2 m  |
| Drag chain suitability |  |
| Drag chain cycles      | ≥ 5000000  |
| Motion velocity        | ≤ 3.3 m/s  |
| Torsional stress       | ± 180 °/m  |
| Flammability           |  |
| Contact material       | HB   |
| Housing                | V-2  |
| Cable                  | FT2  |

### Electrical connection



**Compliance with standards and directives**

**Standard conformity**

|                      |   |
|----------------------|---|
| Degree of protection | EN 60529:2000   |
| Standards            | IEC 61076-2-101:2008  |
| Flammability         | Body: UL 94<br>Line: UL 1581 Section 1061; IEC 60332-1-2:2004 |
| Halogen-free         | IEC 60754-1:1994  |

**Approvals and certificates**

|   |                               |
|---|-------------------------------|
| UL approval                             | UL Recognized General purpose |
| Maximum permissible operating voltage   | ≤ 30 V                        |
| Maximum permissible ambient temperature | ≤ 80 °C (≤ 176 °F)            |

Release date: 2014-10-14 11:24 Date of issue: 2014-10-14 242213\_eng.xml