



### Model Number

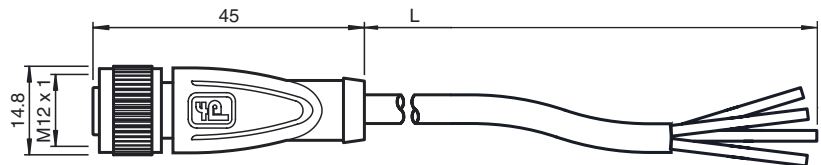
**V1-G-BK2M-PUR-A**

Female cordset, M12, 4-pin, PUR cable

### Features

- Improved resistance to weld slag
- Suitable for drag chains
- Suitable for robotic applications / torsion resistant
- Flame resistant cable
- Halogen-free
- Resistant to microbes and hydrolysis
- Free of paint coating substances
- Immunity to vibration, with mechanical latching
- Knurled nut suitable for tool assembly

### Dimensions



### Technical data

#### General specifications

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

#### Electrical specifications

|                   |       |                  |
|-------------------|-------|------------------|
| Operating voltage | $U_B$ | max. 250 V AC/DC |
| Operating current |       | max. 4 A         |
| Volume resistance |       | < 5 m $\Omega$   |

#### Ambient conditions

|                     |  |
|---------------------|--|
| Ambient temperature | Body: -40 ... 90 °C (-40 ... 194 °F)<br>cable, fixed: -40 ... 80 °C (-40 ... 176 °F)<br>cable, flexing: -25 ... 80 °C (-13 ... 176 °F) |
| Pollution Degree    | 3  |

#### Mechanical specifications

|                        |  |
|------------------------|--|
| Contact elements       | spring-loaded contact socket                                 |
| Pin diameter           | 1 mm   |
| Degree of protection   | IP67   |
| Material               |  |
| Contacts               | CuSn / Au  |
| Contact surface        | Au   |
| Body                   | TPU, black   |
| Cable                  | PUR resistant to weld spatter                                |
| 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  |

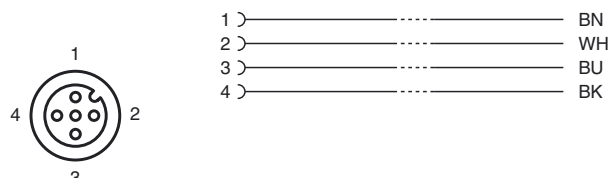
#### Drag chain suitability

|                   |                           |
|-------------------|---------------------------|
| Drag chain cycles | ≥ 5000000 (at max. 60 °C) |
| Motion velocity   | ≤ 3.3 m/s                 |
| Traverse distance | 5 m horizontal            |
| Acceleration      | ≤ 5 m/s <sup>2</sup>      |
| Torsion cycles    | ≥ 1000000 (at max. 60 °C) |
| Torsional stress  | ± 180 °/m                 |

#### Flammability

|                  |        |
|------------------|--------|
| Contact material | 94 HB  |
| Housing          | 94 V-2 |

### Electrical connection





|   |   |
|---|---|
| Cable   | FT2   |
| <b>Compliance with standards and directives</b> |   |
| 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  |

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