



### Model Number

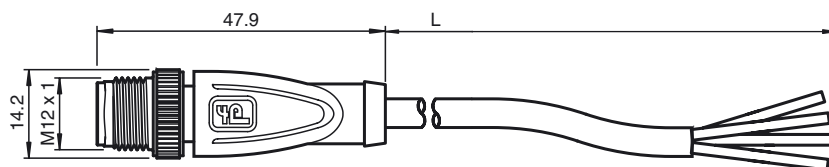
#### V1S-G-S-BK10M-PUR-A

Cable connector, 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 from substances that impair paint wetting
- Immunity to vibration, with mechanical latching
- Knurled nut suitable for tool assembly

### 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. 250 V AC/DC |
| Operating current | $I_B$ | max. 4 A         |
| Volume resistance |       | < 5 mΩ           |

#### 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, yellow                                                  |
| Cable                  | PUR resistant to weld spatter                                |
| Sleeve connector       | 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 10 m                                                       |

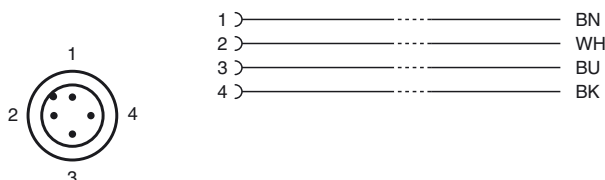
#### Drag chain suitability

|                   |                           |
|-------------------|---------------------------|
| 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 carrier | 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                                              |

Release date: 2018-01-16 09:37 Date of issue: 2019-05-23 287045\_eng.xml