



### Model Number

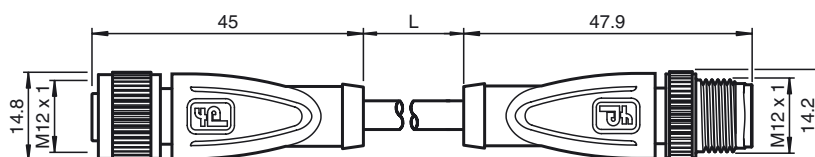
#### V1-G-BK4M-PUR-A-V1-G

Connection cable, M12 to M12, PUR cable, 4-pin

### 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        | socket         |
| Construction type 1 | straight       |
| Threading 1         | M12            |
| Connection 2        | Male connector |
| Construction type 2 | straight       |
| Threading 2         | M12            |

#### Electrical specifications

|                   |       |                  |
|-------------------|-------|------------------|
| Operating voltage | $U_B$ | max. 250 V AC/DC |
| Operating current | $I_B$ | 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                  |
| Sleeve connector | Diecast zinc                  |
| Core insulation  | PP                            |

#### Cable

|                 |                                                              |
|-----------------|--------------------------------------------------------------|
| Sheath diameter | Ø 4.3 mm                                                     |
| Bending radius  | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed |

Color black

Number of cores 4

Core cross-section 0.34 mm<sup>2</sup>

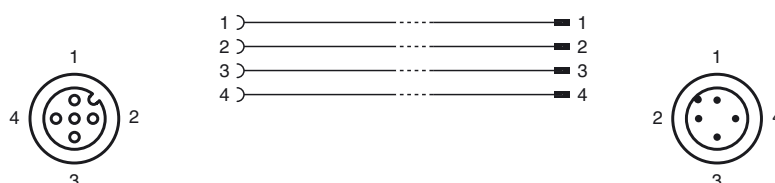
Conductor construction 42 x 0.1 mm Ø

Length L 4 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) |

### Electrical connection





|                                                 |                                                               |
|-------------------------------------------------|---------------------------------------------------------------|
| Torsional stress                                | ± 180 °/m                                                     |
| Flammability                                    |                                                               |
| Contact carrier                                 | 94 HB                                                         |
| Housing                                         | 94 V-2                                                        |
| 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: 2017-06-21 09:30 Date of issue: 2019-05-23 240775-100002\_eng.xml