



### Model Number

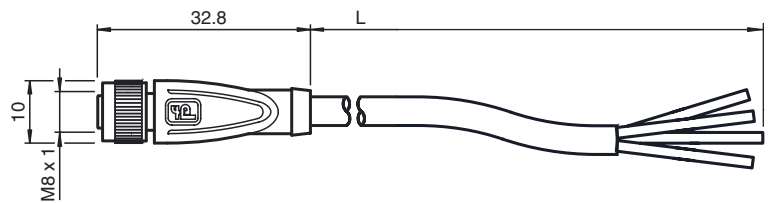
**V31-GM-BK15M-PUR-U**

Female cordset, M8, 4-pin, PUR cable

### Features

- Raw cable with cURus approval
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Flame resistant cable
- Resistant to microbes and hydrolysis
- Halogen-free
- Suitable for 2-, 3- and 4-wire technology
- Gold plated contacts
- Suitable for drag chains

### Dimensions



### Technical data

#### General specifications

|                |         |
|----------------|---------|
| Number of pins | 4       |
| UL File Number | E231213 |

#### Electrical specifications

|                   |       |                            |
|-------------------|-------|----------------------------|
| Operating voltage | $U_B$ | max. 30 V DC               |
| Test voltage      |       | > 1500 V <sub>eff</sub> AC |
| 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, 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 |
| Color                  | black                         |
| Cores                  | 4 x 0.34 mm <sup>2</sup>      |
| Conductor construction | 42 x 0.1 mm Ø                 |
| Length                 | L 15 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>      |
| Torsional stress  | ± 180 °/m                 |

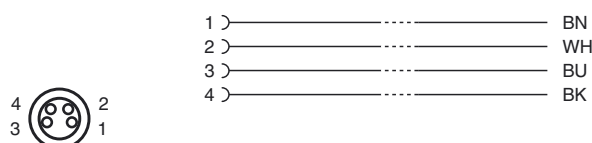
#### Flammability

|                  |        |
|------------------|--------|
| Contact material | 94 HB  |
| Housing          | 94 V-2 |
| Cable            | FT2    |

#### Compliance with standards and directives

|                     |  |
|---------------------|--|
| Standard conformity |  |
|---------------------|--|

### Electrical connection





|                                   |  |
|-----------------------------------|--|
| Degree of protection              | EN 60529:2000                                      |
| Standards                         | IEC 61076-2-104:2008                               |
| Flammability                      | Cable: UL 758 / UL 1581                            |
| Halogen-free                      | IEC 60754-1:1994/DIN VDE 0472-815                  |
| <b>Approvals and certificates</b> |  |
| UL approval                       | cURus AWM 20549 AWM I/II A/B 80°C 300V FT2 (cable) |

Release date: 2015-02-03 09:47 Date of issue: 2015-02-03 217854\_eng.xml