



### Model Number

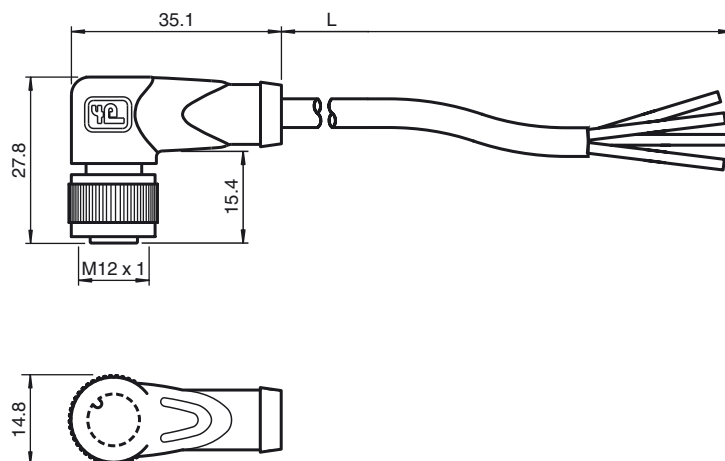
#### V1-W-E8W-BK1,5M-PUR-A

Single-ended female cordset, M12, LED, 4-pin, PUR cable, weld spatter resistant

### Features

- Built-in LED, as operating and function indicator
- Knurled nut suitable for tool assembly
- 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
- Gold plated contacts

### Dimensions



### Technical data

#### General specifications

|                     |             |
|---------------------|-------------|
| Number of pins      | 4           |
| Connection 1        | socket      |
| Construction type 1 | right angle |
| Threading 1         | M12         |
| Connection 2        | cable end   |
| UL File Number      | E231213     |

#### Indicators/operating means

|            |                                 |
|------------|---------------------------------|
| LED green  | Operating display               |
| LED yellow | Functional display NO contact 4 |
| LED white  | Functional display NO contact 2 |

#### Electrical specifications

|                   |       |                         |
|-------------------|-------|-------------------------|
| Operating voltage | $U_B$ | max. 24 V DC $\pm 15\%$ |
| 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 / IP68 / IP69k          |

#### Material

|                 |                               |
|-----------------|-------------------------------|
| Contacts        | CuSn / Au                     |
| Contact surface | Au                            |
| Body            | TPU, transparent              |
| Cable           | PUR resistant to weld spatter |
| Slotted nut     | Diecast zinc                  |

|                 |                           |
|-----------------|---------------------------|
| Core insulation | PP                        |
| Cable           | extra-fine wire, flexible |

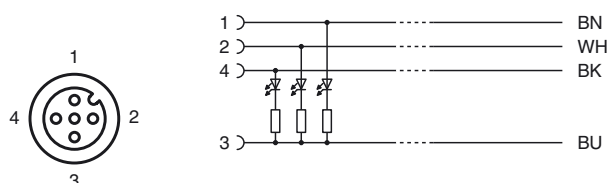
|                 |                                                              |
|-----------------|--------------------------------------------------------------|
| Sheath diameter | $\varnothing 4.3$ mm                                         |
| Bending radius  | > 10 x cable diameter, moving<br>>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

|                        |                           |
|------------------------|---------------------------|
| Color                  | black                     |
| Cores                  | 4 x 0.34 mm <sup>2</sup>  |
| Conductor construction | 42 x 0.1 mm $\varnothing$ |
| Length                 | L 1.5 m                   |

#### Drag chain suitability

|                   |                                |
|-------------------|--------------------------------|
| Drag chain cycles | $\geq 5000000$ (at max. 60 °C) |
| Motion velocity   | $\leq 3.3$ m/s                 |
| Traverse distance | 5 m horizontal                 |
| Acceleration      | $\leq 5$ m/s <sup>2</sup>      |

### Electrical connection





|                                                 |                                                               |
|-------------------------------------------------|---------------------------------------------------------------|
| Torsion cycles                                  | ≥ 1000000 (at max. 60 °C)                                     |
| 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                                              |