



## Connection cable

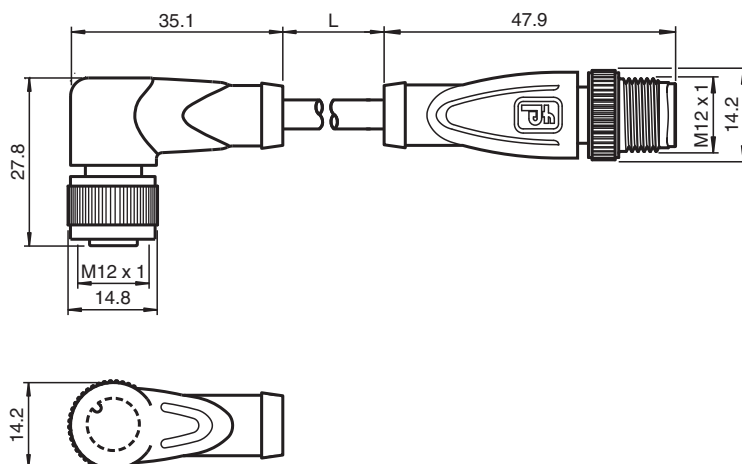
### V1-W-E8-BK2M-PUR-U-V1-G

- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP67 / IP68 / IP69
- Free from substances that impair paint wetting
- Built-in LED, as operating and function indicator
- Resistant to microbes and hydrolysis
- cURus approval
- UV resistant
- Halogen-free
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Cordset M12 socket angled A-coded LED 4-pin to M12 plug straight A-coded 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant



## Dimensions



## Technical Data

### General specifications

|                   |                  |
|-------------------|------------------|
| Connector 1       |                  |
| Connection        | socket           |
| Construction type | M12              |
| Style             | right angle      |
| Locking           | screw connection |
| Number of pins    | 4                |
| Coding            | A-coded          |
| Connector 2       |                  |
| Connection        | Male connector   |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 4                |
| Coding            | A-coded          |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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 **PEPPERL+FUCHS**

## Technical Data

|                                   |                |                                                                 |
|-----------------------------------|----------------|-----------------------------------------------------------------|
| UL File Number                    |                | E231213                                                         |
| <b>Indicators/operating means</b> |                |                                                                 |
| LED green                         |                | Operating display                                               |
| LED yellow                        |                | Functional display pin 4                                        |
| LED red                           |                | Functional display pin 2                                        |
| <b>Electrical specifications</b>  |                |                                                                 |
| Operating voltage                 | U <sub>B</sub> | max. 24 V DC -20 % / +25 %                                      |
| Operating current                 | I <sub>B</sub> | max. 4 A                                                        |
| <b>Conformity</b>                 |                |                                                                 |
| Degree of protection              |                | EN 60529                                                        |
| Plug connection                   |                | connector M12 x 1 : IEC 61076-2-101                             |
| Flammability                      |                | UL 1581; DIN EN 60332-2-2                                       |
| Halogen-free                      |                | IEC 60754-1                                                     |
| <b>Approvals and certificates</b> |                |                                                                 |
| UL approval                       |                | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable)              |
| <b>Ambient conditions</b>         |                |                                                                 |
| Ambient temperature               |                |                                                                 |
| Plug connector                    |                | -40 ... 90 °C (-40 ... 194 °F)                                  |
| Cable, fixed                      |                | -40 ... 80 °C (-40 ... 176 °F)                                  |
| Cable, flexing                    |                | -20 ... 80 °C (-4 ... 176 °F)                                   |
| Pollution degree                  |                | 3                                                               |
| <b>Mechanical specifications</b>  |                |                                                                 |
| Plug connector                    |                |                                                                 |
| Tightening torque                 |                | 0.6 Nm                                                          |
| Loosening protection              |                | available                                                       |
| Tool installation                 |                | straight knurling                                               |
| Mating cycles                     |                | min. 100                                                        |
| Degree of protection              |                | IP67 / IP68 / IP69                                              |
| Cable                             |                |                                                                 |
| Sheath diameter                   |                | 4.3 mm                                                          |
| Bending radius                    |                | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed    |
| Sheath color                      |                | black (similar to RAL 9005)                                     |
| Number of cores                   |                | 4                                                               |
| Core cross-section                |                | 0.34 mm <sup>2</sup>                                            |
| Cores color                       |                | Core 1: brown<br>Core 2: white<br>Core 3: blue<br>Core 4: black |
| Core construction                 |                | 42 x 0.1 mm Ø                                                   |
| Length                            |                | L 2 m                                                           |
| Cable code                        |                | Li 9Y 11Y 4 x 0.34                                              |
| Drag chain suitability            |                |                                                                 |
| Drag chain cycles                 |                | min. 5000000                                                    |
| Motion velocity                   |                | max. 3.3 m/s                                                    |
| Traverse distance                 |                | max. 5 m                                                        |
| Acceleration                      |                | max. 5 m/s <sup>2</sup>                                         |
| Torsion cycles                    |                | min. 1000000                                                    |
| Torsional stress                  |                | ± 180 °/m                                                       |
| <b>Material</b>                   |                |                                                                 |
| LABS free                         |                | yes                                                             |
| Halogen-free                      |                | yes                                                             |
| Plug connector                    |                |                                                                 |
| Knurled screw connection          |                | Zinc die-casting, nickel-plated                                 |

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Technical Data

|                              |                        |
|------------------------------|------------------------|
| Body                         | TPU, transparent/black |
| Contact surface              | Au                     |
| Flammability                 | V-2                    |
| Cable                        |                        |
| Sheathing                    | PUR based on polyether |
| Core insulation              | PP                     |
| UV resistance                | yes                    |
| Chemical resistance          | good                   |
| Oil resistance               | yes                    |
| Cooling lubricant resistance | yes                    |
| Microbial resistance         | yes                    |
| Hydrolysis resistance        | yes                    |
| Flammability                 | FT2                    |

Connection Assignment

