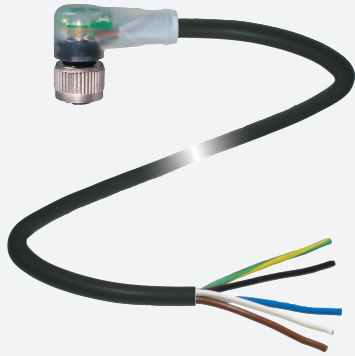




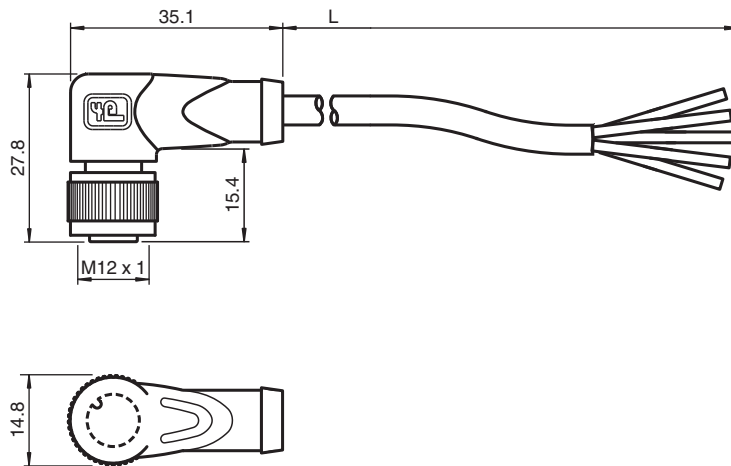
## Female connector V15-W-E8W-BK15M-PUR-A2

- Improved resistance to weld spatter
- 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
- Halogen-free
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Female cordset single-ended M12 angled A-coded, LED 5-pin, PUR cable weld spatter resistant 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    | 5                |
| Coding            | A-coded          |
| Connector 2       |                  |
| Connection        | 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 |

Release date: 2020-09-23 Date of issue: 2020-09-23 Filename: 70127313\_eng.pdf

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

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**PEPPERL+FUCHS**

## Technical Data

### Electrical specifications

|                   |                |                            |
|-------------------|----------------|----------------------------|
| Operating voltage | U <sub>B</sub> | max. 24 V DC -20 % / +25 % |
| Operating current | I <sub>B</sub> | max. 4 A                   |

### Conformity

|                       |                                     |
|-----------------------|-------------------------------------|
| 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          | DIN VDE 0472-815<br>IEC 60754-1     |
| Microbial resistance  | DIN EN 50525-2-21 / DIN VDE 0282-10 |
| Hydrolysis resistance | DIN EN 50525-2-21                   |

### Approvals and certificates

|             |                                            |
|-------------|--------------------------------------------|
| UL approval | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 |
|-------------|--------------------------------------------|

### Ambient conditions

|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature |                                |
| Plug connector      | -40 ... 90 °C (-40 ... 194 °F) |
| Cable, fixed        | -40 ... 80 °C (-40 ... 176 °F) |
| Cable, flexing      | -25 ... 80 °C (-13 ... 176 °F) |
| Pollution degree    | 3                              |

### Mechanical specifications

|                        |                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------|
| 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                  | according to IEC/EN 60228 (DIN VDE 0295) class 6                                        |
| Sheath diameter        | 4.8 mm                                                                                  |
| Bending radius         | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed                            |
| Sheath stripping force | max. 80 N / 300 mm                                                                      |
| Sheath color           | black (similar to RAL 9005)                                                             |
| Number of cores        | 5                                                                                       |
| 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<br>Core 5: green/yellow |
| Core construction      | 42 x 0.1 mm Ø                                                                           |
| Length                 | L                                                                                       |
| Cable code             | Li 9Y 11Y 5 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                                                                               |

### Material

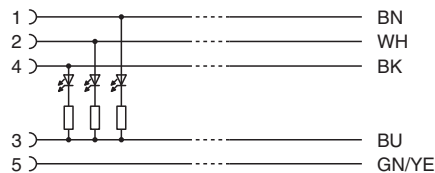
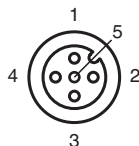
|                          |                                 |
|--------------------------|---------------------------------|
| LABS free                | yes                             |
| Halogen-free             | yes                             |
| Plug connector           |                                 |
| Knurled screw connection | Zinc die-casting, nickel-plated |
| Body                     | TPU, black                      |

Release date: 2020-09-23 Date of issue: 2020-09-23 Filename: 70127313\_eng.pdf

Technical Data

|                              |                        |
|------------------------------|------------------------|
| Contact surface              | Au                     |
| Flammability                 | V-2                    |
| Cable                        |                        |
| Sheathing                    | PUR based on polyether |
| Core insulation              | PP                     |
| Weld spatter resistance      | yes                    |
| Chemical resistance          | good                   |
| Oil resistance               | yes                    |
| Cooling lubricant resistance | yes                    |
| Microbial resistance         | yes                    |
| Hydrolysis resistance        | yes                    |
| Flammability                 | FT2                    |

Connection Assignment



Release date: 2020-09-23 Date of issue: 2020-09-23 Filename: 70127313\_eng.pdf