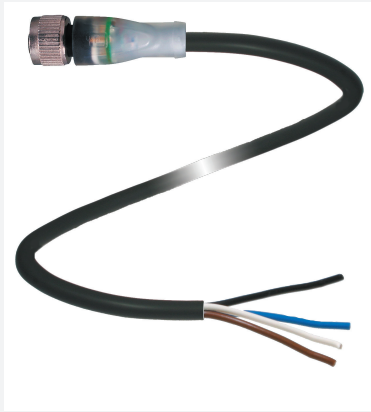




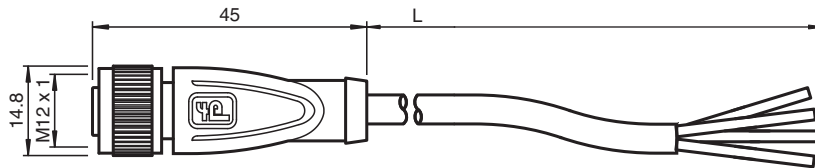
## Female connector V1-G-E8-BK5M-PUR-U

- 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

Female cordset single-ended M12 straight A-coded, LED 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             | straight         |
| Locking           | screw connection |
| Number of pins    | 4                |
| Coding            | A-coded          |
| Connector 2       |                  |
| Connection        | cable end        |
| UL File Number    | E231213          |

#### Indicators/operating means

|            |                          |
|------------|--------------------------|
| LED green  | Operating display        |
| LED yellow | Functional display pin 4 |
| LED red    | Functional display pin 2 |

Release date: 2020-08-25 Date of issue: 2020-08-25 Filename: 2400002-100006\_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         | IEC 60754-1                         |

### Approvals and certificates

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

### Ambient conditions

|                     |                                |
|---------------------|--------------------------------|
| 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                              |

### 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        | 4.3 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 5 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                                                       |

### Material

|                          |                                 |
|--------------------------|---------------------------------|
| LABS free                | yes                             |
| Halogen-free             | yes                             |
| Plug connector           |                                 |
| Knurled screw connection | Zinc die-casting, nickel-plated |
| Body                     | TPU, transparent                |
| Contact surface          | Au                              |
| Flammability             | V-2                             |
| Cable                    |                                 |
| Sheathing                | PUR based on polyether          |

Release date: 2020-08-25 Date of issue: 2020-08-25 Filename: 240002-100006\_eng.pdf

Technical Data

|                              |      |
|------------------------------|------|
| 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

