

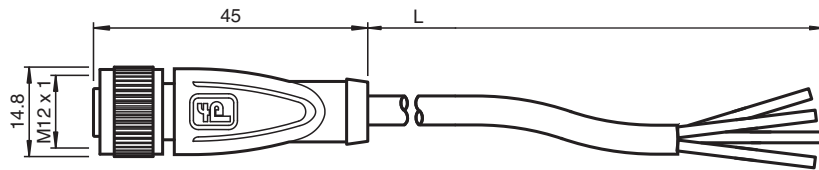
## Female cordset V1-G-A2-BK10M-PUR-U

- Built-in LED, as operating and function indicator
- 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
- Resistant to microbes and hydrolysis
- UV resistant
- cURus approval
- 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

|                    |                  |
|--------------------|------------------|
| <b>Connector 1</b> |                  |
| Connection         | socket           |
| Construction type  | M12              |
| Style              | straight         |
| Locking            | screw connection |
| Number of pins     | 4                |
| Coding             | A-coded          |
| <b>Connector 2</b> |                  |
| Connection         | cable end        |

#### Indicators/operating means

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

#### Electrical specifications

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

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

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## Technical Data

|                                   |                |   |
|-----------------------------------|----------------|---|
| 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                             |                | 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 stripping force            |                | max. 80 N / 300 mm  |
| 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              | 10 m  |
| Cable code                        |                | Li 9Y 11Y 4 x 0.34  |
| <b>Drag chain suitability</b>     |                |   |
| 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   |
| <b>Plug connector</b>             |                |   |
| Knurled screw connection          |                | Zinc diecast, nickel-plated                                     |
| Body                              |                | TPU, transparent  |
| Contact surface                   |                | Au  |
| Flammability                      |                | V-2   |
| <b>Cable</b>                      |                |   |
| Sheathing                         |                | PUR based on polyether  |
| Core insulation                   |                | PP  |

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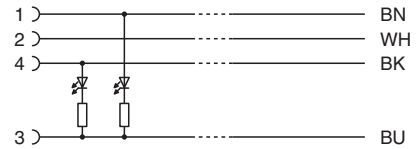
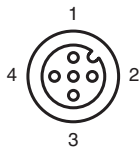
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**PEPPERL+FUCHS**

### Technical Data

|                              |      |
|------------------------------|------|
| UV resistance                | yes  |
| Chemical resistance          | good |
| Oil resistance               | yes  |
| Cooling lubricant resistance | yes  |
| Microbial resistance         | yes  |
| Hydrolysis resistance        | yes  |
| Flammability                 | FT2  |

### Connection Assignment



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