

# Female cordset

## V15-W-E8W-BK2M-PUR-A2

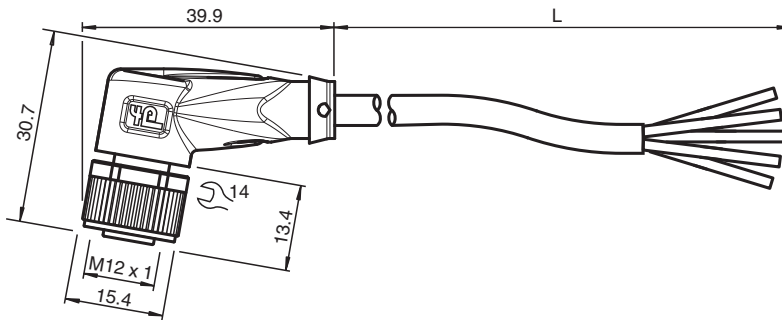


- Improved resistance to weld spatter
- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Built-in LED, as operating and function indicator
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

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            |       |                                 |  |
|-----------------------------------|-------|---------------------------------|--|
| <b>Connector 1</b>                |       |                                 |  |
| Connection                        |       | socket                          |  |
| Construction type                 |       | M12                             |  |
| Style                             |       | angled                          |  |
| Locking                           |       | screw connection                |  |
| Number of pins                    |       | 5                               |  |
| Coding                            |       | A-coded                         |  |
| <b>Connector 2</b>                |       |                                 |  |
| Connection                        |       | cable end                       |  |
| <b>Indicators/operating means</b> |       |                                 |  |
| LED green                         |       | Operating display               |  |
| LED yellow                        |       | Functional display NO contact 4 |  |
| LED white                         |       | Functional display NO contact 2 |  |
| <b>Electrical specifications</b>  |       |                                 |  |
| Operating voltage                 | $U_B$ | max. 24 V DC -20 % / +25 %      |  |
| Operating current                 | $I_B$ | max. 4 A                        |  |
| <b>Conformity</b>                 |       |                                 |  |
| Degree of protection              |       | EN 60529                        |  |

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

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## Technical Data

|                                   |   |     |
|-----------------------------------|---|-----|
| 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   |     |
| <b>Approvals and certificates</b> |   |     |
| UL approval                       | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2  |     |
| UL File Number                    | E231213   |     |
| <b>Ambient conditions</b>         |   |     |
| 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   |     |
| <b>Mechanical specifications</b>  |   |     |
| Plug connector                    |   |     |
| Tightening torque                 | 0.6 Nm  |     |
| Loosening protection              | available   |     |
| Tool installation                 | straight knurling and hexagon nut SW = 14 mm  |     |
| Mating cycles                     | min. 100  |     |
| Degree of protection              | 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   | 2 m |
| Cable code                        | Li 9Y 11Y 5 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>                   |   |     |
| PWIS free                         | yes   |     |
| Halogen-free                      | yes   |     |
| <b>Plug connector</b>             |   |     |
| Screw connection                  | Zinc diecast, nickel-plated   |     |
| Body                              | TPU, transparent  |     |
| Seal                              | FKM   |     |
| Contact surface                   | gold plated (Au)  |     |
| Flammability                      | V-2   |     |
| <b>Cable</b>                      |   |     |

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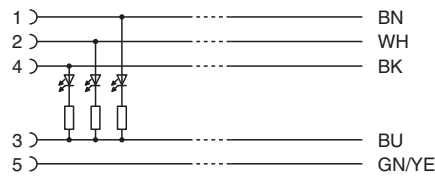
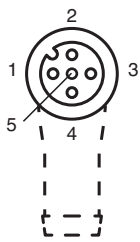
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## Technical Data

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



## Accessories

|   |                              |  |
|---|------------------------------|--|
|   | <b>MH V1-SCREWDRIVER</b>     | Torque screwdriver (0.6 Nm)                      |
|  | <b>MH V1-BIT M12</b>         | plug-in cap M12                                  |
|  | <b>V1/V3-LABELHOLDER</b>     | Label holder                                     |
|  | <b>V1/V3-LABEL</b>           | Label plate                                      |
|  | <b>MH V1-Holder</b>          | Modular universal holder for M12 connectors      |
|  | <b>V1-CLIP</b>               | Unlocking protector for M12 connector            |
|  | <b>V1-MARKING-RING-COLOR</b> | Marking rings for M12 connectors, various colors |

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