

# Female cordset

## V15-G-BK3M-PUR-U/0,75

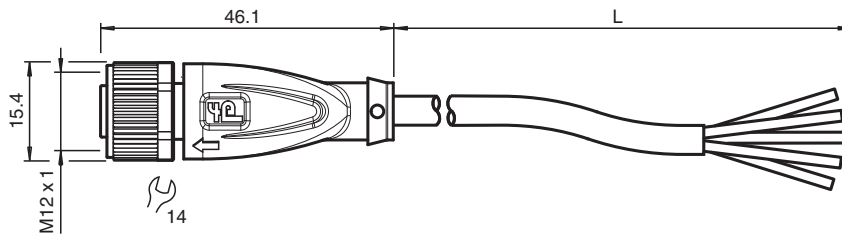


- Suitable for drag chains and abrasion resistant
- Degree of protection IP68 / IP69
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M12 straight A-coded, 5-pin, PUR cable black, UL approved, drag chain suitable



### Dimensions



### Technical Data

#### General specifications

##### Connector 1

|                   |                  |
|-------------------|------------------|
| Connection        | socket           |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 5                |
| Coding            | A-coded          |

##### Connector 2

|            |           |
|------------|-----------|
| Connection | cable end |
|------------|-----------|

#### Electrical specifications

|                   |       |                        |
|-------------------|-------|------------------------|
| Operating voltage | $U_B$ | max. 48 V AC / 60 V DC |
| Operating current | $I_B$ | max. 4 A               |

#### Conformity

|                      |                                     |
|----------------------|-------------------------------------|
| Degree of protection | EN 60529                            |
| Plug connection      | connector M12 x 1 : IEC 61076-2-101 |
| Halogen-free         | IEC 60754-1                         |

#### Approvals and certificates

|                |                                                    |
|----------------|----------------------------------------------------|
| UL approval    | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable) |
| UL File Number | E231213                                            |

#### Ambient conditions

|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature |                                |
| Plug connector      | -40 ... 90 °C (-40 ... 194 °F) |

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

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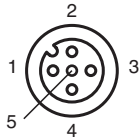
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## Technical Data

|                                  |   |                                                                                 |
|----------------------------------|---|---------------------------------------------------------------------------------|
| 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 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                  |   | 6 mm                                                                            |
| Bending radius                   |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed                    |
| Sheath stripping force           |   | max. 50 N / 300 mm                                                              |
| Sheath color                     |   | black (similar to RAL 9005)                                                     |
| Number of cores                  |   | 5                                                                               |
| Core cross section               |   | 0.75 mm <sup>2</sup>                                                            |
| Cores color                      |   | Core 1: brown<br>Core 2: white<br>Core 3: blue<br>Core 4: black<br>Core 5: grey |
| Core construction                |   | 42 x 0.15 mm Ø                                                                  |
| Length                           | L | 3 m                                                                             |
| Cable code                       |   | Li F 9Y 11Y 5 x 0,75                                                            |
| Drag chain suitability           |   |                                                                                 |
| Drag chain cycles                |   | min. 2000000                                                                    |
| Motion velocity                  |   | max. 3.3 m/s                                                                    |
| Traverse distance                |   | max. 5 m                                                                        |
| Acceleration                     |   | max. 5 m/s <sup>2</sup>                                                         |
| Torsional stress                 |   | ± 180 °/m                                                                       |
| <b>Material</b>                  |   |                                                                                 |
| Halogen-free                     |   | yes                                                                             |
| Plug connector                   |   |                                                                                 |
| Screw connection                 |   | Zinc diecast, nickel-plated                                                     |
| Body                             |   | TPU, black                                                                      |
| Seal                             |   | FKM                                                                             |
| Contact surface                  |   | gold plated (Au)                                                                |
| Flammability                     |   | V-2                                                                             |
| Cable                            |   |                                                                                 |
| Sheathing                        |   | PUR based on polyether                                                          |
| Core insulation                  |   | PP                                                                              |
| UV resistance                    |   | yes                                                                             |
| Oil resistance                   |   | yes                                                                             |
| Microbial resistance             |   | yes                                                                             |
| Hydrolysis resistance            |   | yes                                                                             |
| Flammability                     |   | FT2                                                                             |

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Connection



- 1 ) ..... BN
- 2 ) ..... WH
- 3 ) ..... BU
- 4 ) ..... BK
- 5 ) ..... GY

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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