

## Connection cable

### V15-G-BK4M-PUR-U/0,75-V15-W

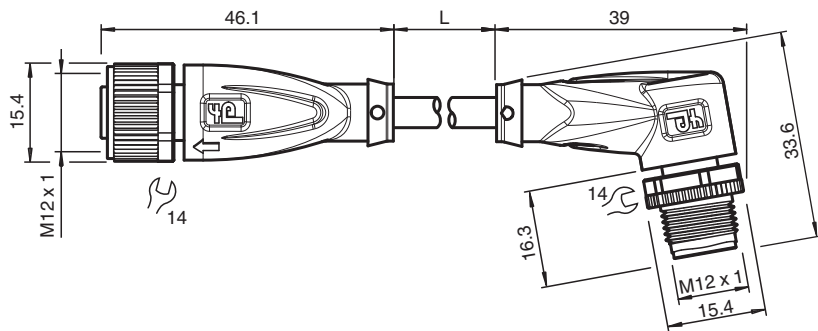


- Suitable for drag chains and abrasion resistant
- Degree of protection IP68 / IP69
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight to M12 plug angled A-coded, 5-pin, PUR cable black, UL-approved, drag chain suitable



## Dimensions



## Technical Data

### General specifications

|                    |  |                  |
|--------------------|--|------------------|
| <b>Connector 1</b> |  |                  |
| Connection         |  | socket           |
| Construction type  |  | M12              |
| Style              |  | straight         |
| Locking            |  | screw connection |
| Number of pins     |  | 5                |
| Coding             |  | A-coded          |
| <b>Connector 2</b> |  |                  |
| Connection         |  | plug             |
| Construction type  |  | M12              |
| Style              |  | angled           |
| Locking            |  | screw connection |
| Number of pins     |  | 5                |
| Coding             |  | A-coded          |

### Electrical specifications

|                   |                |                        |
|-------------------|----------------|------------------------|
| Operating voltage | U <sub>B</sub> | max. 48 V AC / 60 V DC |
| Operating current | I <sub>B</sub> | max. 4 A               |

### Conformity

|                      |          |
|----------------------|----------|
| Degree of protection | EN 60529 |
|----------------------|----------|

Release date: 2023-07-07 Date of issue: 2023-07-07 Filename: 240778-0002\_eng.pdf

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

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## Technical Data

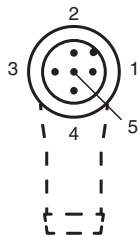
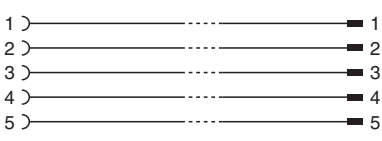
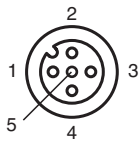
|                                   |   |                                                                                 |
|-----------------------------------|---|---------------------------------------------------------------------------------|
| Plug connection                   |   | connector M12 x 1 : IEC 61076-2-101                                             |
| 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)                              |
| 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                    |   | -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 | 4 m                                                                             |
| Cable code                        |   | Li F 9Y 11Y 5 x 0,75                                                            |
| <b>Drag chain suitability</b>     |   |                                                                                 |
| 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                                                                             |
| <b>Cable</b>                      |   |                                                                                 |
| Sheathing                         |   | PUR based on polyether                                                          |
| Core insulation                   |   | PP                                                                              |
| UV resistance                     |   | yes                                                                             |
| Oil resistance                    |   | yes                                                                             |
| Microbial resistance              |   | yes                                                                             |
| Hydrolysis resistance             |   | yes                                                                             |

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Technical Data

|              |     |
|--------------|-----|
| Flammability | FT2 |
|--------------|-----|

Connection



Accessories

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