

## Connection cable

### V11-G-BK10M-PUR-U-V3-GM

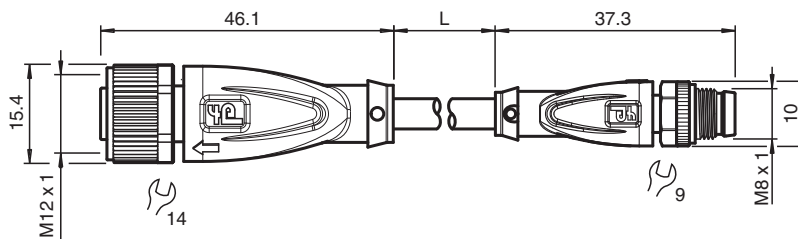


- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design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

Cordset M12 socket straight to M8 plug straight A-coded, 3-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    |  | 3                |
| Coding            |  | A-coded          |
| Connector 2       |  |                  |
| Connection        |  | plug             |
| Construction type |  | M8               |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 3                |
| 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. 3 A               |

### Conformity

|                      |                                                                           |  |
|----------------------|---------------------------------------------------------------------------|--|
| Degree of protection | EN 60529                                                                  |  |
| Plug connection      | connector M12 x 1 : IEC 61076-2-101<br>connector M8 x 1 : IEC 61076-2-104 |  |
| Flammability         | UL 1581; DIN EN 60332-2-2                                                 |  |

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

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 **PEPPERL+FUCHS**

## Technical Data

|                                   |   |                                                              |
|-----------------------------------|---|--------------------------------------------------------------|
| 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>  |   |                                                              |
| Connector 1                       |   |                                                              |
| 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                                                  |
| Connector 2                       |   |                                                              |
| Tightening torque                 |   | 0.4 Nm                                                       |
| Loosening protection              |   | available                                                    |
| Tool installation                 |   | straight knurling and hexagon nut SW = 9 mm                  |
| Mating cycles                     |   | min. 100                                                     |
| Degree of protection              |   | IP68                                                         |
| 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                   |   | 3                                                            |
| Core cross section                |   | 0.34 mm <sup>2</sup>                                         |
| Cores color                       |   | Core 1: brown<br>Core 3: blue<br>Core 4: black               |
| Core construction                 |   | 42 x 0.1 mm Ø                                                |
| Length                            | L | 10 m                                                         |
| Cable code                        |   | Li F 9Y 11Y 3 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                                                    |
| <b>Material</b>                   |   |                                                              |
| PWIS free                         |   | yes                                                          |
| 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                             |   |                                                              |

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Technical Data

|                              |                        |
|------------------------------|------------------------|
| Sheathing                    | PUR based on polyether |
| 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

