

# Connection cable

## V15-G-BK2,5M-PUR-U-V15-G



- 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 M12 plug straight A-coded, 5-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    |  |  | 5                |
| Coding            |  |  | A-coded          |
| Connector 2       |  |  |                  |
| Connection        |  |  | plug             |
| Construction type |  |  | M12              |
| Style             |  |  | straight         |
| 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                            |
| Plug connection      | connector M12 x 1 : IEC 61076-2-101 |
| Flammability         | UL 1581; DIN EN 60332-2-2           |
| Halogen-free         | IEC 60754-1                         |

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

## Technical Data

| 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)  |
| Cable, fixed                                     |   | -40 ... 80 °C (-40 ... 176 °F)  |
| Cable, flexing                                   |   | -25 ... 80 °C (-13 ... 176 °F)  |
| Pollution degree                                 |   | 3   |
| Mechanical specifications                        |   |   |
| 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: grey |
| Core construction                                |   | 42 x 0.1 mm Ø   |
| Length   | L | 2.5 m   |
| Cable code                                       |   | Li F 9Y 11Y 5 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   |
| Material   |   |   |
| 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  |   |   |
| Sheathing  |   | PUR based on polyether  |
| Core insulation                                  |   | PP  |
| UV resistance                                    |   | yes   |
| Chemical resistance                              |   | good  |
| Oil resistance                                   |   | yes   |
| Cooling lubricant resistance                     |   | yes   |

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 **PEPPERL+FUCHS**

## Technical Data

|                       |     |
|-----------------------|-----|
| Microbial resistance  | yes |
| Hydrolysis resistance | yes |
| Flammability          | FT2 |

## Connection

