

# Connection cable

## V11-G-BK0,45M-PUR-U-V11-G

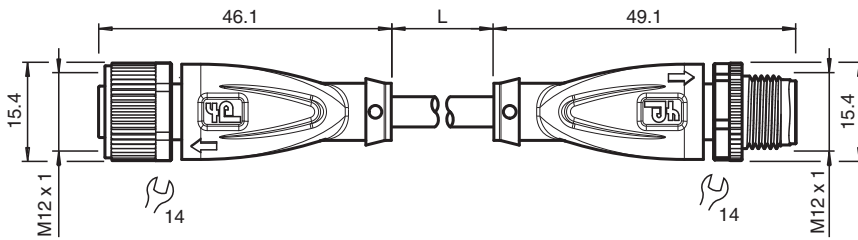


- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design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

Cordset M12 socket straight to M12 plug straight A-coded, 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 |  | M12              |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 3                |
| Coding            |  | A-coded          |

#### Electrical specifications

|                   |       |                  |
|-------------------|-------|------------------|
| Operating voltage | $U_B$ | max. 250 V AC/DC |
| Operating current | $I_B$ | 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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## 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               |   | -20 ... 80 °C (-4 ... 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                        |   |                                                              |
| 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 | 0.45 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                                                    |
| 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                                                          |
| Microbial resistance         |   | yes                                                          |

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### Technical Data

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

### Connection

