

# Connection cable, shielded

## V1-G-BK25M-PUR-U/ABG-V1-G

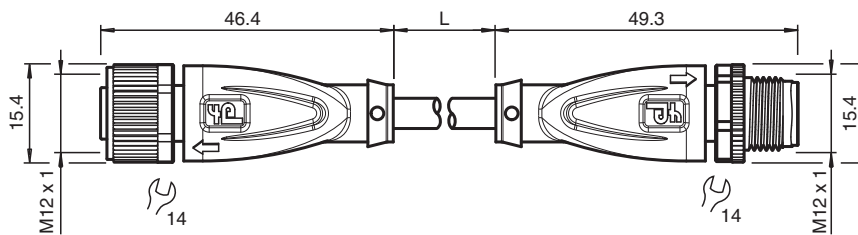


- Suitable for drag chains and abrasion resistant
- Degree of protection IP66 / IP68 / IP69
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PUR cable black, shielded, 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    | 4                |
| Coding            | A-coded          |

##### Connector 2

|                   |                  |
|-------------------|------------------|
| Connection        | plug             |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 4                |
| 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         | DIN VDE 0472-815                    |

Release date: 2026-06-12 Date of issue: 2026-06-12 Filename: 70142171-100052\_eng.pdf

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

**PEPPERL+FUCHS**

## Technical Data

|                                   |   |                                                                                         |
|-----------------------------------|---|-----------------------------------------------------------------------------------------|
| Lead-free                         |   | RoHS directive 2011/65/EU                                                               |
| Microbial resistance              |   | EN 50363                                                                                |
| Hydrolysis resistance             |   | EN 50363                                                                                |
| <b>Approvals and certificates</b> |   |                                                                                         |
| UL approval                       |   | AWM STYLE 20549/10493 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 installation         |   | -40 ... 80 °C (-40 ... 176 °F)                                                          |
| Cable, flexing                    |   | -25 ... 80 °C (-13 ... 176 °F)                                                          |
| Pollution degree                  |   | 3                                                                                       |
| <b>Mechanical specifications</b>  |   |                                                                                         |
| Plug connector                    |   |                                                                                         |
| Tightening torque                 |   | 0.6 Nm                                                                                  |
| Loosening protection              |   | integrated                                                                              |
| Tool installation                 |   | straight knurling and hexagon nut SW = 14 mm                                            |
| Mating cycles                     |   | min. 100                                                                                |
| Shielding                         |   | shield connected to screw connection                                                    |
| Degree of protection              |   | IP66 / IP68 / IP69                                                                      |
| Cable                             |   | according to IEC/EN 60228 (DIN VDE 0295) class 6                                        |
| Sheath diameter                   |   | 4.9 mm                                                                                  |
| Bending radius                    |   | > 10 x cable diameter, movable installation<br>> 5 x cable diameter, fixed installation |
| Sheath stripping force            |   | max. 60 N / 100 mm                                                                      |
| Sheath color                      |   | black (similar to RAL 9005)                                                             |
| Number of cores                   |   | 4                                                                                       |
| 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                         |
| Core construction                 |   | 42 x 0.1 mm Ø                                                                           |
| Shield                            |   | tinned copper braiding, 85 % coverage                                                   |
| Length                            | L | 25 m                                                                                    |
| Cable code                        |   | Li F 9Y C11Y 4 x 0,34                                                                   |
| <b>Drag chain suitability</b>     |   |                                                                                         |
| Drag chain cycles                 |   | min. 2000000                                                                            |
| Motion velocity                   |   | max. 3 m/s                                                                              |
| Traverse distance                 |   | max. 5 m                                                                                |
| Acceleration                      |   | max. 5 m/s <sup>2</sup>                                                                 |
| Mass                              |   |                                                                                         |
| <b>Material</b>                   |   |                                                                                         |
| Halogen-free                      |   | yes                                                                                     |
| Lead-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                                                                  |
| Cores                             |   | bare copper (Cu)                                                                        |

Release date: 2026-06-12 Date of issue: 2026-06-12 Filename: 70142171-100052\_eng.pdf

Technical Data

|                              |                                     |
|------------------------------|-------------------------------------|
| Core insulation              | PP                                  |
| UV resistance                | yes                                 |
| Chemical resistance          | good                                |
| Oil resistance               | yes                                 |
| Cooling lubricant resistance | yes                                 |
| Microbial resistance         | yes                                 |
| Hydrolysis resistance        | yes                                 |
| Flammability                 | FT2                                 |
| General information          |                                     |
| Cable marking sleeve         | 2x PUR transparent , fixed to cable |

Connection Assignment

