

## Connection cable

### V1-G-BK10M-PUR-O1-V1-G

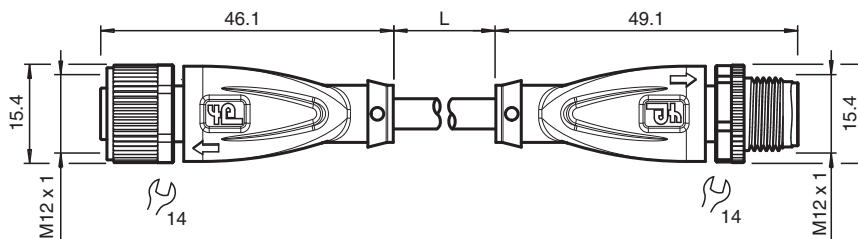


- Suitable for outdoor use (UV- and ozone resistant)
- Suitable for drag chains and abrasion resistant
- Degree of protection IP68 / IP69
- Resistant to microbes and hydrolysis
- Oil resistant
- Resistant to salt water
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening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

Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, outdoor



## 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 <sub>B</sub> | max. 250 V AC/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         |          | DIN VDE 0472-815 / DIN EN 50267-2-1 |  |

Release date: 2024-04-30 Date of issue: 2024-04-30 Filename: 240775-100113\_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

|                                   |   |                                                                   |
|-----------------------------------|---|-------------------------------------------------------------------|
| UV resistance                     |   | on the basis of DIN EN ISO 4892-2-A for 1000 hours                |
| Oil resistance                    |   | DIN EN 60811-2-1                                                  |
| <b>Approvals and certificates</b> |   |                                                                   |
| UL approval                       |   | AWM STYLE 21924/11558 105°C 300V AWM I A/B 105°C 300V FT2 (cable) |
| UL File Number                    |   | E231213                                                           |
| <b>Ambient conditions</b>         |   |                                                                   |
| Ambient temperature               |   |                                                                   |
| Plug connector                    |   | -40 ... 90 °C (-40 ... 194 °F)                                    |
| Cable, fixed                      |   | -50 ... 105 °C (-58 ... 221 °F)                                   |
| Cable, flexing                    |   | -30 ... 105 °C (-22 ... 221 °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                   |   | 4.8 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 7021)                                       |
| Number of cores                   |   | 4                                                                 |
| Core cross section                |   | 0.5 mm <sup>2</sup>                                               |
| Cores color                       |   | Core 1: brown<br>Core 2: white<br>Core 3: blue<br>Core 4: black   |
| Core construction                 |   | 28 x 0.15 mm Ø<br>1 x symmetrically twisted                       |
| Length                            | L | 10 m                                                              |
| Cable code                        |   | Li 9Y 11Y 4 x 0,50                                                |
| Drag chain suitability            |   |                                                                   |
| Drag chain cycles                 |   | min. 2000000                                                      |
| Motion velocity                   |   | max. 3 m/s                                                        |
| Traverse distance                 |   | max. 10 m                                                         |
| Acceleration                      |   | max. 10 m/s <sup>2</sup>                                          |
| Mass                              |   | 374.5 g                                                           |
| <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                                                               |
| Cable                             |   |                                                                   |
| Sheathing                         |   | PUR based on polyether                                            |
| Cores                             |   | bare copper (Cu)                                                  |
| Core insulation                   |   | PP                                                                |
| Salt water resistance             |   | yes                                                               |
| UV resistance                     |   | yes                                                               |
| Chemical resistance               |   | good                                                              |

Release date: 2024-04-30 Date of issue: 2024-04-30 Filename: 240775-100113\_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

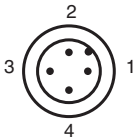
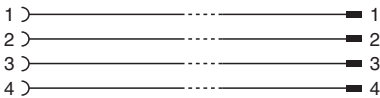
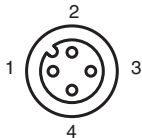
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

 **PEPPERL+FUCHS**

Technical Data

|                              |     |
|------------------------------|-----|
| Oil resistance               | yes |
| Cooling lubricant resistance | yes |
| Microbial resistance         | yes |
| Hydrolysis resistance        | yes |
| Flammability                 | FT2 |

Connection



Release date: 2024-04-30 Date of issue: 2024-04-30 Filename: 240775-100113\_eng.pdf