

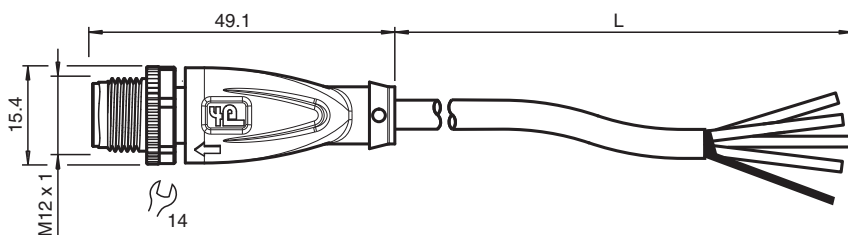
## Cable connector, Ethernet V1SD-G-GN1M-PUR-E1S

- Hard-wearing PUR cable
- Suitable for drag chains and abrasion resistant
- D coding for Ethernet
- Conforms to PROFINET
- CAT5/CAT5e cable
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Ethernet bus cable male cordset single-ended M12 straight D-coded 4-pin, PUR cable green, Cat5e, shielded, drag chain suitable, UL approved



### Dimensions



### Technical Data

#### General specifications

|                    |                  |
|--------------------|------------------|
| <b>Connector 1</b> |                  |
| Connection         | plug             |
| Construction type  | M12              |
| Style              | straight         |
| Locking            | screw connection |
| Number of pins     | 4                |
| Coding             | D-coded          |
| <b>Connector 2</b> |                  |
| Connection         | cable end        |

#### Electrical specifications

|                   |       |                        |
|-------------------|-------|------------------------|
| Operating voltage | $U_B$ | max. 48 V AC / 60 V DC |
|-------------------|-------|------------------------|

#### Conformity

|                      |   |
|----------------------|---|
| Degree of protection | EN 60529  |
| Plug connection      | connector M12 x 1 : IEC 61076-2-101                         |
| Component category   | CAT5 (IEC 11801) , CAT5e (IEC 61156-6)                      |
| Flammability         | IEC 60332-1-2 / UL 2556 / ISO 6722-1 5.22 (UN ECE-R 118.01) |

#### Approvals and certificates

|                |   |
|----------------|---|
| UL approval    | AWM STYLE 20549 80 °C 300V AWM I A/B 80 °C 300V FT2 (cable) |
| UL File Number | E231213   |

#### Ambient conditions

|                     |  |
|---------------------|--|
| Ambient temperature |  |
|---------------------|--|

Release date: 2024-03-17 Date of issue: 2024-03-17 Filename: 70140613\_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

|                                  |   |   |
|----------------------------------|---|---|
| Plug connector                   |   | -40 ... 90 °C (-40 ... 194 °F)                                    |
| Cable, fixed                     |   | -30 ... 70 °C (-22 ... 158 °F)                                    |
| Cable, flexing                   |   | -20 ... 70 °C (-4 ... 158 °F)                                     |
| <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  |
| Shielding                        |   | shield connected to screw connection                              |
| Degree of protection             |   | IP68 / IP69   |
| Cable                            |   | according to IEC/EN 60228 (DIN VDE 0295) class 5                  |
| Sheath diameter                  |   | 6 mm  |
| Bending radius                   |   | > 10 x cable diameter, moving<br>> 8 x cable diameter, fixed      |
| Sheath stripping force           |   | max. 60 N / 100 mm  |
| Sheath color                     |   | green (similar to RAL 6018)                                       |
| Number of cores                  |   | 4   |
| Core cross section               |   | 0.34 mm <sup>2</sup> / 22 AWG                                     |
| Cores color                      |   | Core 1: yellow<br>Core 2: white<br>Core 3: orange<br>Core 4: blue |
| Core construction                |   | 7 x 0.254 mm Ø<br>twisted quad                                    |
| Shield                           |   | aluminum-lined polyester foil<br>Tinned copper braiding           |
| Length                           | L | 1 m   |
| Drag chain suitability           |   |   |
| Drag chain cycles                |   | max. 1000000  |
| Motion velocity                  |   | max. 3 m/s  |
| Traverse distance                |   | max. 5 m  |
| Acceleration                     |   | max. 2 m/s <sup>2</sup>   |
| <b>Material</b>                  |   |   |
| PWIS free                        |   | yes   |
| Halogen-free                     |   | yes   |
| Plug connector                   |   |   |
| Screw connection                 |   | Zinc diecast, nickel-plated                                       |
| Body                             |   | TPU, black  |
| Contact surface                  |   | Au  |
| Flammability                     |   | V-2   |
| Cable                            |   |   |
| Sheathing                        |   | PUR based on polyether  |
| Core insulation                  |   | PP  |
| Flammability                     |   | FT2<br>complies with UN ECE-R 118.01                              |

## Connection

