

# Connection cable, Ethernet

## V1SD-G-GN65M-PUR-E1S-V1D-G

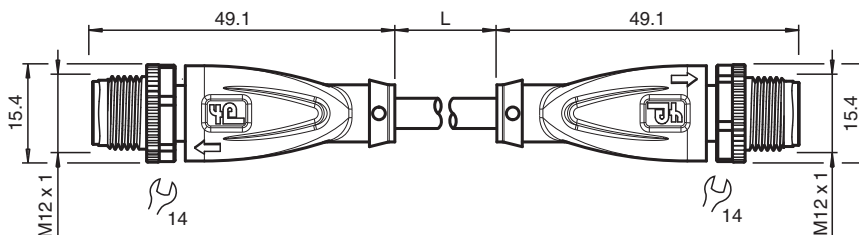


- Hard-wearing PUR cable
- Suitable for drag chains and abrasion resistant
- D coding for Ethernet
- Conforms to PROFINET
- CAT5/CAT5e cable
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against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

Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable



### 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         |  | plug             |
| Construction type  |  | M12              |
| Style              |  | straight         |
| Locking            |  | screw connection |
| Number of pins     |  | 4                |
| Coding             |  | D-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    |
| Component category   |  | CAT5 (IEC 11801) , CAT5e (IEC 61156-6) |

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

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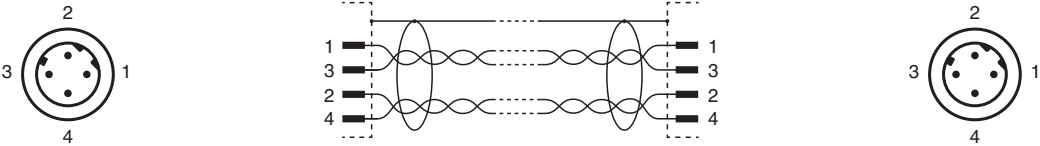
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**PEPPERL+FUCHS**

## Technical Data

|                                   |   |                                                                                         |
|-----------------------------------|---|-----------------------------------------------------------------------------------------|
| Flammability                      |   | IEC 60332-1-2 / UL 2556 / ISO 6722-1 5.22 (UN ECE-R 118.01)                             |
| <b>Approvals and certificates</b> |   |                                                                                         |
| UL approval                       |   | AWM STYLE 20549 80 °C 300V AWM I A/B 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         |   | -30 ... 70 °C (-22 ... 158 °F) , UL: -20 ... 70 °C (-4 ... 158 °F)                      |
| Cable, flexing                    |   | -20 ... 70 °C (-4 ... 158 °F)                                                           |
| <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              |   | IP68 / IP69                                                                             |
| Cable                             |   | according to IEC/EN 60228 (DIN VDE 0295) class 5                                        |
| Sheath diameter                   |   | 6 mm                                                                                    |
| Bending radius                    |   | > 10 x cable diameter, movable installation<br>> 8 x cable diameter, fixed installation |
| 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 | 65 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>                                                                 |
| Mass                              |   | 3390 g                                                                                  |
| <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                                                                  |
| Cores                             |   | bare copper (Cu)                                                                        |
| Core insulation                   |   | PP                                                                                      |
| Flammability                      |   | FT2<br>complies with UN ECE-R 118.01                                                    |

Connection



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