

# Connection cable, Ethernet

## V1SD-G-GN0,7M-PUR-E1S-V1D-G

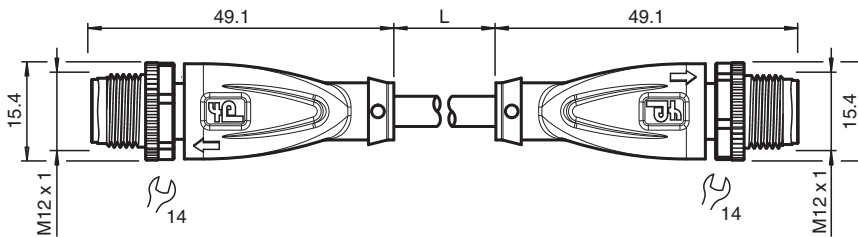


- Hard-wearing PUR cable
- Suitable for drag chains and abrasion resistant
- D coding for Ethernet
- Conforms to PROFINET
- CAT5/CAT5e cable
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against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

| Connector 1       |                  |
|-------------------|------------------|
| Connection        | plug             |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 4                |
| Coding            | D-coded          |
| Connector 2       |                  |
| 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. 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) |

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

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## Technical Data

| 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        |   |  |
| Plug connector             |   | -40 ... 90 °C (-40 ... 194 °F)                                     |
| Cable, fixed               |   | -30 ... 70 °C (-22 ... 158 °F) , UL: -20 ... 70 °C (-4 ... 158 °F) |
| Cable, flexing             |   | -20 ... 70 °C (-4 ... 158 °F)                                      |
| 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   |
| 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 | 0.7 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>  |
| Material                   |   |  |
| 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                               |

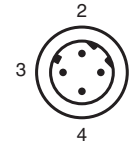
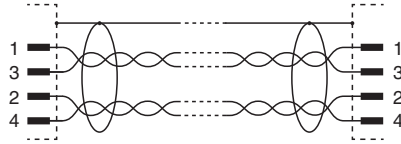
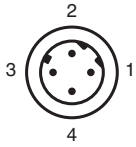
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## Connection



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