

# Connection cable, Ethernet

## V1SD-G-GN2M-PUR-E2S-V1SD-G

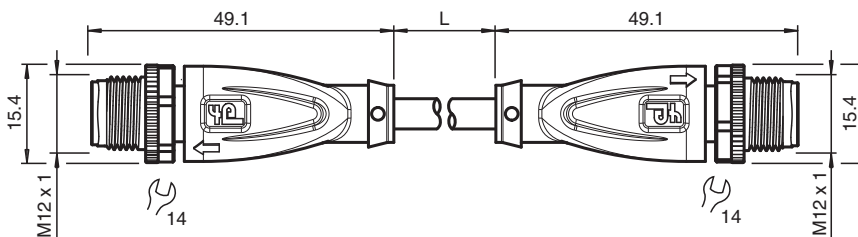


- Hard-wearing PUR cable
- Industrial Ethernet
- D coding for Ethernet
- CAT5/CAT5e cable
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

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



### 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 1581 FT1            |
| Halogen-free         |  | IEC 60754-1                            |

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

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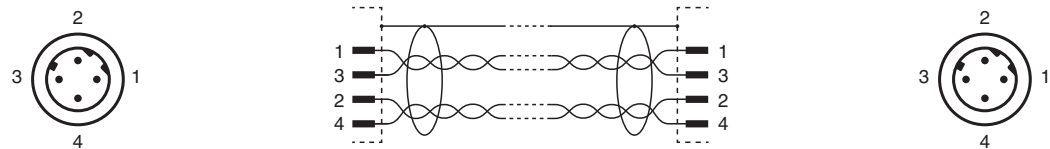
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## Technical Data

|                                   |   |                                                                                |
|-----------------------------------|---|--------------------------------------------------------------------------------|
| Chemical resistance               |   | DIN EN 60811-2-1                                                               |
| Microbial resistance              |   | DIN EN 50525-2-21 / DIN VDE 0282-10                                            |
| Oil resistance                    |   | DIN EN 60811-2-1                                                               |
| <b>Approvals and certificates</b> |   |                                                                                |
| UL approval                       |   | AWM STYLE 21161 AWM I/II A/B 80°C 300V FT1 (cable)                             |
| UL File Number                    |   | E231213                                                                        |
| <b>Ambient conditions</b>         |   |                                                                                |
| Ambient temperature               |   |                                                                                |
| Plug connector                    |   | -40 ... 90 °C (-40 ... 194 °F)                                                 |
| Cable, fixed                      |   | -40 ... 80 °C (-40 ... 176 °F)                                                 |
| Cable, flexing                    |   | -30 ... 70 °C (-22 ... 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                   |   | 4.8 mm                                                                         |
| Bending radius                    |   | > 12 x cable diameter, moving<br>> 6 x cable diameter, fixed                   |
| Sheath stripping force            |   | max. 50 N / 100 mm                                                             |
| Sheath color                      |   | green (similar to RAL 6018)                                                    |
| Number of cores                   |   | 4                                                                              |
| Core cross section                |   | 0.15 mm <sup>2</sup> / 26 AWG                                                  |
| Cores color                       |   | Core 1: white/orange<br>Core 2: white/green<br>Core 3: orange<br>Core 4: green |
| Core construction                 |   | 19 x 0.1 mm Ø<br>twisted quad                                                  |
| Shield                            |   | aluminum-lined polyester foil<br>Tinned copper braiding, 85 % coverage         |
| Length                            | L | 2 m                                                                            |
| Cable code                        |   | Li 9Y 11YM 4 x 0,15                                                            |
| Drag chain suitability            |   |                                                                                |
| Motion velocity                   |   | max. 3 m/s                                                                     |
| Acceleration                      |   | max. 3 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                                                                            |
| <b>Cable</b>                      |   |                                                                                |
| Sheathing                         |   | PUR based on polyether                                                         |
| Core insulation                   |   | PP                                                                             |
| Flammability                      |   | FT1                                                                            |

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Connection



Accessories

|                                                                                     |                              |                                                  |
|-------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|
|    | <b>MH V1-SCREWDRIVER</b>     | Torque screwdriver (0.6 Nm)                      |
|    | <b>MH V1-BIT M12</b>         | plug-in cap M12                                  |
|    | <b>V1/V3-LABELHOLDER</b>     | Label holder                                     |
|    | <b>V1/V3-LABEL</b>           | Label plate                                      |
|    | <b>MH V1-Holder</b>          | Modular universal holder for M12 connectors      |
|   | <b>V1-CLIP</b>               | Unlocking protector for M12 connector            |
|  | <b>V1-MARKING-RING-COLOR</b> | Marking rings for M12 connectors, various colors |

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