

# Connection cable, Ethernet

## V1D-G-GN0,3M-PUR-E1S-V1D-G-Y70

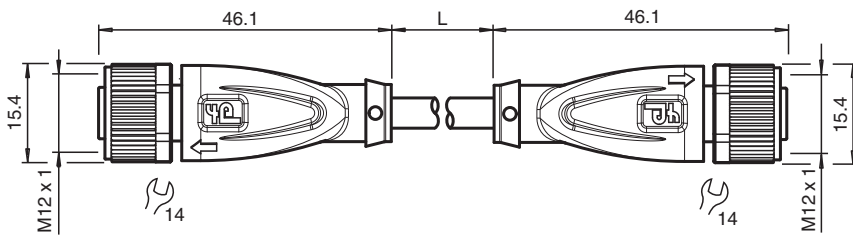


- Hard-wearing PUR cable
- Suitable for drag chains and abrasion resistant
- D coding for Ethernet
- Conforms to PROFINET
- CAT5/CAT5e cable
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against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

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



### Dimensions



### Technical Data

#### General specifications

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

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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

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## 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                      | -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                              |            |
| Connector 1                       |   |            |
| Loosening protection              |   |            |
| Degree of protection              | IP68 / IP69   |            |
| Cable                             |   |            |
| 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                                     |            |
| Coors 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   | max. 0.3 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  |            |
| Seal                              | FKM   |            |
| 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                              |            |

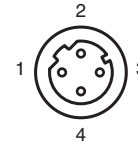
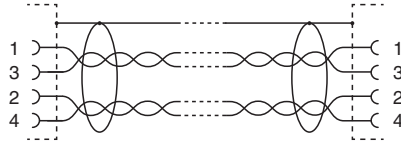
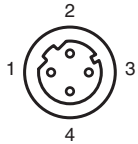
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Connection



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