

# Connection cable, Ethernet

## V1SD-G-GN5,5M-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 | $U_B$ | max. 250 V AC/DC |
| Operating current | $I_B$ | 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) |

Release date: 2025-02-26 Date of issue: 2025-02-26 Filename: 70159490\_eng.pdf

## 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                             |   |   |
| 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 | 5.5 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                              |   | 318.5 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  |

Release date: 2025-02-26 Date of issue: 2025-02-26 Filename: 70159490\_eng.pdf

## Connection

