

# Connection cable, Ethernet

## V31S-GM-GN10M-PUR-E2S-V31-GM

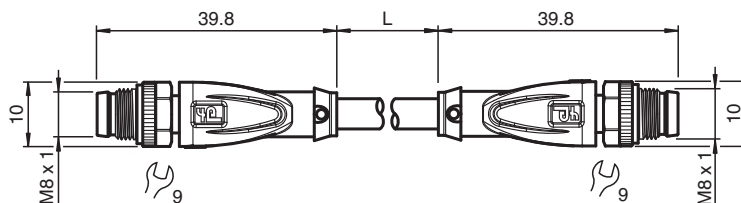


- Hard-wearing PUR cable
- Suitable for drag chains and abrasion resistant
- CAT5/CAT5e cable
- Degree of protection IP68
- Free of paint wetting interfering substances
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Ethernet bus cable M8 plug straight to M8 plug straight A-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved



### Dimensions



### Technical Data

#### General specifications

|                   |  |                  |  |
|-------------------|--|------------------|--|
| Connector 1       |  |                  |  |
| Connection        |  | plug             |  |
| Construction type |  | M8               |  |
| Style             |  | straight         |  |
| Locking           |  | screw connection |  |
| Number of pins    |  | 4                |  |
| Coding            |  | A-coded          |  |
| Connector 2       |  |                  |  |
| Connection        |  | plug             |  |
| Construction type |  | M8               |  |
| Style             |  | straight         |  |
| Locking           |  | screw connection |  |
| Number of pins    |  | 4                |  |
| Coding            |  | A-coded          |  |

#### Electrical specifications

|                   |       |                 |
|-------------------|-------|-----------------|
| Operating voltage | $U_B$ | max. 30 V AC/DC |
| Operating current | $I_B$ | max. 3 A        |

#### Conformity

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| Degree of protection | EN 60529                                                    |
| Plug connection      | connector M8 x 1 : IEC 61076-2-104                          |
| Component category   | CAT5 (IEC 11801) , CAT5e (IEC 61156-6)                      |
| Flammability         | IEC 60332-1-2 / UL 1581 / 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

|                                   |   |                                                                                         |
|-----------------------------------|---|-----------------------------------------------------------------------------------------|
| Halogen-free                      |   | IEC 60754-1                                                                             |
| Chemical resistance               |   | DIN EN 60811-2-1                                                                        |
| UV resistance                     |   | UL 1581 section 1200                                                                    |
| 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 installation         |   | -40 ... 80 °C (-40 ... 176 °F)                                                          |
| Cable, flexing                    |   | -30 ... 70 °C (-22 ... 158 °F)                                                          |
| <b>Mechanical specifications</b>  |   |                                                                                         |
| Plug connector                    |   |                                                                                         |
| Tightening torque                 |   | 0.4 Nm                                                                                  |
| Loosening protection              |   | integrated                                                                              |
| Tool installation                 |   | straight knurling and hexagon nut SW = 9 mm                                             |
| Mating cycles                     |   | min. 100                                                                                |
| Shielding                         |   | shield connected to screw connection                                                    |
| Degree of protection              |   | IP68                                                                                    |
| Cable                             |   | according to IEC/EN 60228 (DIN VDE 0295) class 5                                        |
| Sheath diameter                   |   | 4.9 mm                                                                                  |
| Bending radius                    |   | > 12 x cable diameter, movable installation<br>> 6 x cable diameter, fixed installation |
| 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 | 10 m                                                                                    |
| Cable code                        |   | Li 9Y 11YM 4 x 0,15                                                                     |
| Drag chain suitability            |   |                                                                                         |
| Drag chain cycles                 |   | max. 1000000                                                                            |
| Motion velocity                   |   | max. 3 m/s                                                                              |
| Traverse distance                 |   | max. 4.5 m                                                                              |
| Acceleration                      |   | max. 3 m/s <sup>2</sup>                                                                 |
| Mass                              |   | 330.89 g                                                                                |
| <b>Material</b>                   |   |                                                                                         |
| PWIS free                         |   | yes                                                                                     |
| Halogen-free                      |   | yes                                                                                     |
| Plug connector                    |   |                                                                                         |
| Screw connection                  |   | Zinc diecast, nickel-plated                                                             |
| Body                              |   | TPU, black                                                                              |
| Contact surface                   |   | gold plated (Au)                                                                        |
| Flammability                      |   | V-2                                                                                     |
| Cable                             |   |                                                                                         |
| Sheathing                         |   | PUR based on polyether                                                                  |

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Technical Data

|                      |                                      |
|----------------------|--------------------------------------|
| Cores                | bare copper (Cu)                     |
| Core insulation      | PP                                   |
| UV resistance        | yes                                  |
| Oil resistance       | yes                                  |
| Microbial resistance | yes                                  |
| Flammability         | FT1<br>complies with UN ECE-R 118.01 |

Connection

