

## Connection cable, shielded

### V31-GM-1M-PUR-ABG-U-V31-GM-Y01

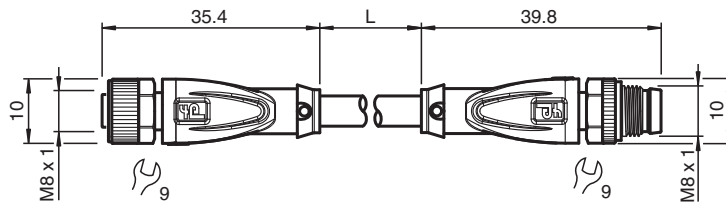


- Suitable for drag chains and abrasion resistant
- Free of paint wetting interfering substances
- Degree of protection IP68
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation
- Customer-specific configuration

Cordset M8 socket straight to M8 plug straight A-coded, 4-pin, PUR cable black, shielded, UL approved, drag chain suitable



## Dimensions



## Technical Data

### General specifications

|                   |                      |  |
|-------------------|----------------------|--|
| Customization     | without Label holder |  |
| Connector 1       |                      |  |
| Connection        | socket               |  |
| 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 |  |
|----------------------|----------|--|

Release date: 2024-01-24 Date of issue: 2024-01-24 Filename: 70160135\_eng.pdf

## Technical Data

|                                   |   |   |
|-----------------------------------|---|---|
| Plug connection                   |   | connector M8 x 1 : IEC 61076-2-104                              |
| Flammability                      |   | UL 1581; DIN EN 60332-2-2                                       |
| Halogen-free                      |   | DIN VDE 0472-815  |
| Microbial resistance              |   | EN 50363  |
| Hydrolysis resistance             |   | EN 50363  |
| <b>Approvals and certificates</b> |   |   |
| UL approval                       |   | AWM STYLE 20549/10493 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                      |   | -40 ... 80 °C (-40 ... 176 °F)                                  |
| Cable, flexing                    |   | -25 ... 80 °C (-13 ... 176 °F)                                  |
| Pollution degree                  |   | 3   |
| <b>Mechanical specifications</b>  |   |   |
| Plug connector                    |   |   |
| Tightening torque                 |   | 0.4 Nm  |
| Loosening protection              |   | available   |
| 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 6                |
| Sheath diameter                   |   | 4.9 mm  |
| Bending radius                    |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed    |
| Sheath stripping force            |   | max. 60 N / 100 mm  |
| Sheath color                      |   | black (similar to RAL 9005)                                     |
| Number of cores                   |   | 4   |
| Core cross section                |   | 0.34 mm <sup>2</sup>  |
| Cores color                       |   | Core 1: brown<br>Core 2: white<br>Core 3: blue<br>Core 4: black |
| Core construction                 |   | 42 x 0.1 mm Ø   |
| Shield                            |   | tinned copper braiding, 85 % coverage                           |
| Length                            | L | 1 m   |
| Cable code                        |   | Li F 9Y C11Y 4 x 0,34   |
| Drag chain suitability            |   |   |
| Drag chain cycles                 |   | min. 2000000  |
| Motion velocity                   |   | max. 3 m/s  |
| Traverse distance                 |   | max. 5 m  |
| Acceleration                      |   | max. 5 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                   |   | gold plated (Au)  |
| Flammability                      |   | V-2   |
| Cable                             |   |   |
| Sheathing                         |   | PUR based on polyether  |

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### Technical Data

|                              |      |
|------------------------------|------|
| Core insulation              | PP   |
| UV resistance                | yes  |
| Chemical resistance          | good |
| Oil resistance               | yes  |
| Cooling lubricant resistance | yes  |
| Microbial resistance         | yes  |
| Hydrolysis resistance        | yes  |
| Flammability                 | FT2  |

### Connection Assignment

