

## Connection cable

### V31-GM-1,6M-PUR-ABG-V31-GM

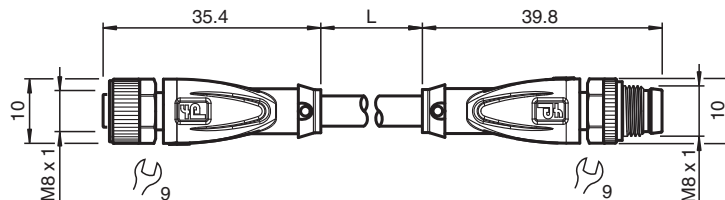


- Degree of protection IP68
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

Cordset M8 socket straight to M8 plug straight A-coded, 4-pin, PUR cable grey, shielded



## Dimensions



## Technical Data

### General specifications

|                   |  |                  |
|-------------------|--|------------------|
| 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                             |
| Plug connection      |  | connector M8 x 1 : IEC 61076-2-104   |
| Halogen-free         |  | DIN VDE 0472-815<br>DIN EN 50267-2-1 |

### Ambient conditions

Release date: 2023-06-29 Date of issue: 2023-06-29 Filename: 240822-100003\_eng.pdf

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

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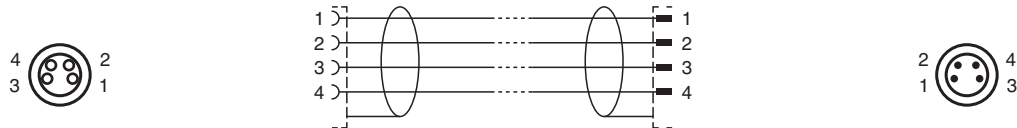
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 **PEPPERL+FUCHS**

# Technical Data

|                                  |   |                                                                 |
|----------------------------------|---|-----------------------------------------------------------------|
| 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 5                |
| Sheath diameter                  |   | 4.8 mm                                                          |
| Bending radius                   |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed    |
| Sheath stripping force           |   | max. 100 N / 300 mm                                             |
| Sheath color                     |   | grey (similar to RAL 7001)                                      |
| 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                |   | 19 x 0.15 mm Ø                                                  |
| Shield                           |   | tinned copper braiding, 85 % coverage                           |
| Length                           | L | 1.6 m                                                           |
| Cable code                       |   | Li 9Y 11YM 4 x 0.34                                             |
| <b>Material</b>                  |   |                                                                 |
| 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                                          |
| Core insulation                  |   | PP                                                              |
| Chemical resistance              |   | good                                                            |

# Connection



## Accessories

|                                                                                   |                          |                                            |
|-----------------------------------------------------------------------------------|--------------------------|--------------------------------------------|
|  | <b>MH V3-SCREWDRIVER</b> | Torque screwdriver (0.4 Nm)                |
|  | <b>MH V3-BIT M8</b>      | plug-in cap for M8                         |
|  | <b>V1/V3-LABELHOLDER</b> | Label holder                               |
|  | <b>V1/V3-LABEL</b>       | Label plate                                |
|  | <b>MH V3-Holder</b>      | Modular universal holder for M8 connectors |