

# Cable socket, shielded V31-GM-10M-PUR-ABG

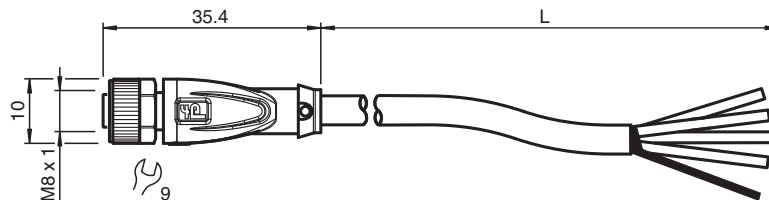


- Degree of protection IP68
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M8 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        |  | cable end        |

### 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

|                     |  |                                |
|---------------------|--|--------------------------------|
| 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                              |

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

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## Technical Data

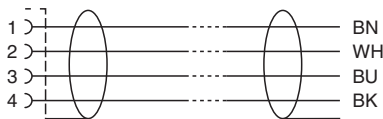
### Mechanical specifications

|                        |   |                                                                 |
|------------------------|---|-----------------------------------------------------------------|
| 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 | 10 m                                                            |
| Cable code             |   | Li 9Y 11YM 4 x 0.34                                             |

### Material

|                     |  |                             |
|---------------------|--|-----------------------------|
| 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          |

Accessories

|                                                                                   |                          |                                            |
|-----------------------------------------------------------------------------------|--------------------------|--------------------------------------------|
|  | <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 |

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