

# Connection cable

## V31-GM-5M-PUR-V11-G

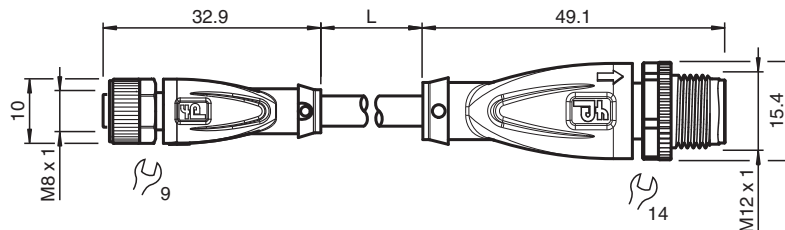


- Degree of protection IP68
- Resistant to microbes and hydrolysis
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M8 socket straight A-coded 4-pin to M12 plug straight A-coded 3-pin, PUR cable grey



### 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 |  | M12              |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 3                |
| Coding            |  | A-coded          |

#### Electrical specifications

|                   |       |                        |
|-------------------|-------|------------------------|
| Operating voltage | $U_B$ | max. 48 V AC / 60 V DC |
| Operating current | $I_B$ | max. 3 A               |

#### Conformity

|                      |                                                                           |  |
|----------------------|---------------------------------------------------------------------------|--|
| Degree of protection | EN 60529                                                                  |  |
| Plug connection      | connector M8 x 1 : IEC 61076-2-104<br>connector M12 x 1 : IEC 61076-2-101 |  |
| Halogen-free         | IEC 60754-1                                                               |  |

#### Ambient conditions

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

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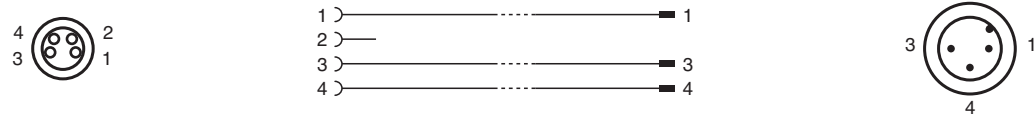
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## Technical Data

|                                  |   |                                                              |
|----------------------------------|---|--------------------------------------------------------------|
| Ambient temperature              |   |                                                              |
| Plug connector                   |   | -40 ... 90 °C (-40 ... 194 °F)                               |
| Cable, fixed                     |   | -40 ... 80 °C (-40 ... 176 °F)                               |
| Cable, flexing                   |   | -20 ... 80 °C (-4 ... 176 °F)                                |
| Pollution degree                 |   | 3                                                            |
| <b>Mechanical specifications</b> |   |                                                              |
| Connector 1                      |   |                                                              |
| Tightening torque                |   | 0.4 Nm                                                       |
| Loosening protection             |   | available                                                    |
| Tool installation                |   | straight knurling and hexagon nut SW = 9 mm                  |
| Mating cycles                    |   | min. 100                                                     |
| Degree of protection             |   | IP68                                                         |
| Connector 2                      |   |                                                              |
| Tightening torque                |   | 0.6 Nm                                                       |
| Loosening protection             |   | available                                                    |
| Tool installation                |   | straight knurling and hexagon nut SW = 14 mm                 |
| Mating cycles                    |   | min. 100                                                     |
| Degree of protection             |   | IP68 / IP69                                                  |
| Cable                            |   | according to IEC/EN 60228 (DIN VDE 0295) class 5             |
| Sheath diameter                  |   | 4.3 mm                                                       |
| Bending radius                   |   | > 15 x cable diameter, moving<br>> 8 x cable diameter, fixed |
| Sheath stripping force           |   | max. 80 N / 500 mm                                           |
| Sheath color                     |   | grey (similar to RAL 7001)                                   |
| Number of cores                  |   | 3                                                            |
| Core cross section               |   | 0.25 mm <sup>2</sup>                                         |
| Cores color                      |   | Core 1: brown<br>Core 3: blue<br>Core 4: black               |
| Core construction                |   | 14 x 0.15 mm Ø                                               |
| Length                           | L | 5 m                                                          |
| Cable code                       |   | Li 9Y 11Y 3 x 0,25                                           |
| Drag chain suitability           |   |                                                              |
| Drag chain cycles                |   | max. 50 / day                                                |
| Motion velocity                  |   | max. 0.3 m/s                                                 |
| <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                                                         |
| Microbial resistance             |   | yes                                                          |
| Hydrolysis resistance            |   | yes                                                          |

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Connection



Accessories

|                                                                                     |                              |                                                  |
|-------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|
|    | <b>MH V1-SCREWDRIVER</b>     | Torque screwdriver (0.6 Nm)                      |
|    | <b>MH V1-BIT M12</b>         | plug-in cap M12                                  |
|    | <b>MH V1-Holder</b>          | Modular universal holder for M12 connectors      |
|    | <b>V1-CLIP</b>               | Unlocking protector for M12 connector            |
|    | <b>V1-MARKING-RING-COLOR</b> | Marking rings for M12 connectors, various colors |
|  | <b>V1/V3-LABELHOLDER</b>     | Label holder                                     |
|  | <b>V1/V3-LABEL</b>           | Label plate                                      |
|  | <b>MH V3-SCREWDRIVER</b>     | Torque screwdriver (0.4 Nm)                      |
|  | <b>MH V3-BIT M8</b>          | plug-in cap for M8                               |
|  | <b>MH V3-Holder</b>          | Modular universal holder for M8 connectors       |