

# Connection cable

## V1-G-42-5M-PUR-V1-G

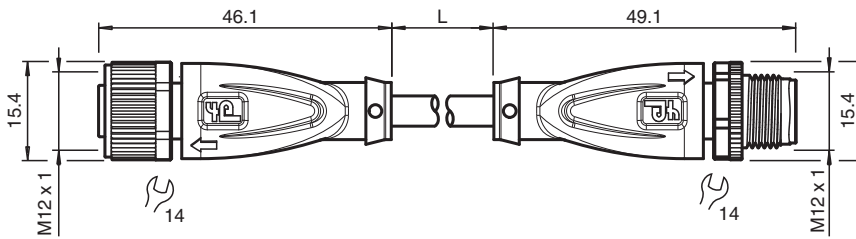


- Pins 2 and 4 are crossed
- Degree of protection IP68 / IP69
- Resistant to microbes and hydrolysis
- Halogen-free
- Specific design protects against loosening and inaccurate installation

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



### Dimensions



### Technical Data

#### General specifications

|                   |                     |                  |
|-------------------|---------------------|------------------|
| Customization     | pin 2 and 4 crossed |                  |
| Connector 1       |                     |                  |
| Connection        |                     | socket           |
| Construction type |                     | M12              |
| 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    |                     | 4                |
| Coding            |                     | A-coded          |

#### Electrical specifications

|                   |       |                  |
|-------------------|-------|------------------|
| Operating voltage | $U_B$ | max. 250 V AC/DC |
| Operating current | $I_B$ | max. 4 A         |

#### Conformity

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

#### Ambient conditions

Release date: 2023-07-13 Date of issue: 2023-07-14 Filename: 70131829\_eng.pdf

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

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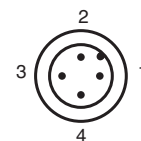
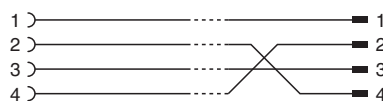
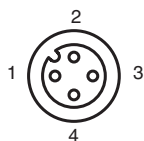
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## Technical Data

|                                  |   |                                                                 |
|----------------------------------|---|-----------------------------------------------------------------|
| Ambient temperature              |   |                                                                 |
| Plug connector                   |   | -40 ... 90 °C (-40 ... 194 °F)                                  |
| Cable, fixed                     |   | -40 ... 80 °C (-40 ... 176 °F)                                  |
| Cable, flexing                   |   | -25 ... 80 °C (-13 ... 176 °F)                                  |
| Pollution degree                 |   | 3                                                               |
| <b>Mechanical specifications</b> |   |                                                                 |
| Plug connector                   |   |                                                                 |
| 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                  |   | 4.8 mm                                                          |
| Bending radius                   |   | > 10 x cable diameter, moving<br>> 8 x cable diameter, fixed    |
| Sheath stripping force           |   | max. 60 N / 500 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                                                  |
| Length                           | L | 5 m                                                             |
| Cable code                       |   | Li 9Y 11YM 4 x 0.34                                             |
| <b>Drag chain suitability</b>    |   |                                                                 |
| 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                                                             |

## Connection



## Accessories

|                                                                                   |                              |                                                  |
|-----------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|
|  | <b>MH V1-SCREWDRIVER</b>     | Torque screwdriver (0.6 Nm)                      |
|  | <b>MH V1-BIT M12</b>         | plug-in cap M12                                  |
|  | <b>V1/V3-LABELHOLDER</b>     | Label holder                                     |
|  | <b>V1/V3-LABEL</b>           | Label plate                                      |
|  | <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 |