

# Connection cable, shielded V1-G-20M-PUR-ABG-V1-G

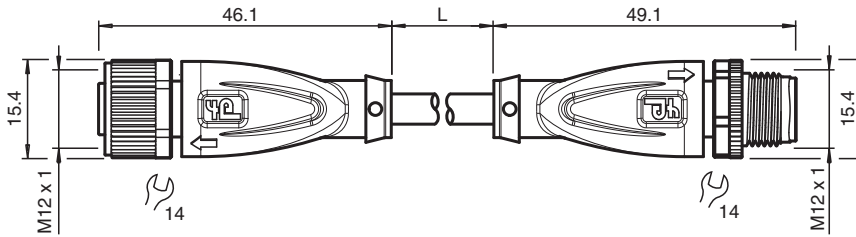


- Degree of protection IP68
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

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



## Dimensions



## Technical Data

### General specifications

| 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         | DIN VDE 0472-815<br>DIN EN 50267-2-1 |

### Ambient conditions

Release date: 2023-07-13 Date of issue: 2023-07-14 Filename: 240787-100003\_eng.pdf

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

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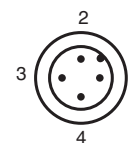
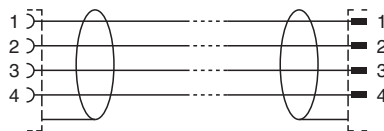
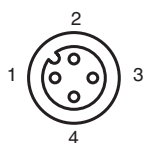
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## Technical Data

|                                  |   |   |
|----------------------------------|---|---|
| <b>Ambient temperature</b>       |   |   |
| 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> |   |   |
| <b>Plug connector</b>            |   |   |
| Tightening torque                |   | 0.6 Nm  |
| Loosening protection             |   | available   |
| Tool installation                |   | straight knurling and hexagon nut SW = 14 mm                    |
| Mating cycles                    |   | min. 100  |
| Shielding                        |   | shield connected to screw connection                            |
| Degree of protection             |   | IP68 / IP69   |
| <b>Cable</b>                     |   |   |
| 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 | 20 m  |
| Cable code                       |   | Li 9Y 11YM 4 x 0.34   |
| <b>Material</b>                  |   |   |
| Halogen-free                     |   | yes   |
| <b>Plug connector</b>            |   |   |
| Screw connection                 |   | Zinc diecast, nickel-plated                                     |
| Body                             |   | TPU, black  |
| Seal                             |   | FKM   |
| Contact surface                  |   | gold plated (Au)  |
| Flammability                     |   | V-2   |
| <b>Cable</b>                     |   |   |
| Sheathing                        |   | PUR based on polyether  |
| Core insulation                  |   | PP  |
| Chemical resistance              |   | good  |

## 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 |

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