

# Connection cable

## V1-G-E8W-OR0,6M-POC-V1-G

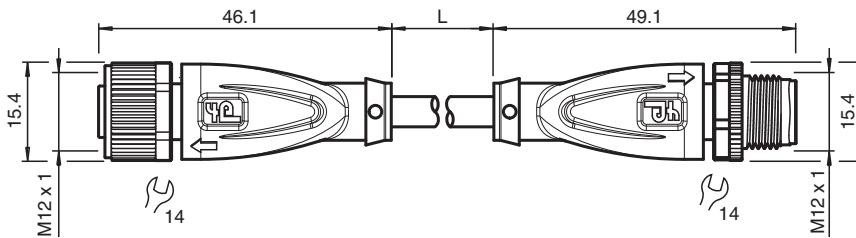


- Built-in LED, as operating and function indicator
- Welding-bead resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Ozone resistant
- Hydrolysis resistant
- Oil resistant
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight A-coded LED 4-pin to M12 plug straight A-coded 4-pin, POC cable welding-bead resistant orange, suitable for robotic applications, torsion resistant, oil resistant, molecularly cross-linked



### Dimensions



### Technical Data

#### General specifications

|                                   |                |                            |
|-----------------------------------|----------------|----------------------------|
| <b>Connector 1</b>                |                |                            |
| Connection                        |                | socket                     |
| Construction type                 |                | M12                        |
| Style                             |                | straight                   |
| Locking                           |                | screw connection           |
| Number of pins                    |                | 4                          |
| Coding                            |                | A-coded                    |
| <b>Connector 2</b>                |                |                            |
| Connection                        |                | plug                       |
| Construction type                 |                | M12                        |
| Style                             |                | straight                   |
| Locking                           |                | screw connection           |
| Number of pins                    |                | 4                          |
| Coding                            |                | A-coded                    |
| <b>Indicators/operating means</b> |                |                            |
| LED green                         |                | Operating display          |
| LED yellow                        |                | Functional display pin 4   |
| LED white                         |                | Functional display pin 2   |
| <b>Electrical specifications</b>  |                |                            |
| Operating voltage                 | U <sub>B</sub> | max. 24 V DC -20 % / +25 % |

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

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## Technical Data

|                                  |                |   |
|----------------------------------|----------------|---|
| Operating current                | I <sub>B</sub> | max. 4 A  |
| <b>Conformity</b>                |                |   |
| Degree of protection             |                | EN 60529  |
| Plug connection                  |                | connector M12 x 1 : IEC 61076-2-101   |
| Flammability                     |                | IEC 60332-1-2 , ISO 14572 , ISO 6722  |
| Halogen-free                     |                | IEC 60754-2   |
| Hydrolysis resistance            |                | ISO 6722  |
| Oil resistance                   |                | ISO 14572   |
| <b>Ambient conditions</b>        |                |   |
| Ambient temperature              |                |   |
| Plug connector                   |                | -40 ... 90 °C (-40 ... 194 °F)  |
| Cable, fixed                     |                | -40 ... 120 °C (-40 ... 248 °F) for 20000 h<br>-40 ... 150 °C (-40 ... 302 °F) for 3000 h |
| Cable, flexing                   |                | -15 ... 120 °C (5 ... 248 °F) for 20000 h<br>-15 ... 150 °C (5 ... 302 °F) for 3000 h     |
| 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>> 10 x cable diameter, fixed                             |
| Sheath stripping force           |                | max. 50 N / 300 mm  |
| Sheath color                     |                | orange (similar to RAL 2003)  |
| 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 0.16 mm Ø  |
| Length                           | L              | 0.6 m   |
| Cable code                       |                | Li 7Y 41X 4 x 0,34  |
| Drag chain suitability           |                |   |
| Torsion cycles                   |                | min. 300000   |
| Torsional stress                 |                | ± 360 °/ 30 cm  |
| <b>Material</b>                  |                |   |
| PWIS free                        |                | yes   |
| Halogen-free                     |                | yes   |
| Plug connector                   |                |   |
| Screw connection                 |                | Zinc diecast, nickel-plated   |
| Body                             |                | TPU, transparent/black  |
| Seal                             |                | FKM   |
| Contact surface                  |                | gold plated (Au)  |
| Flammability                     |                | V-2   |
| Cable                            |                |   |
| Sheathing                        |                | POC   |
| Core insulation                  |                | ETFE  |
| Welding-bead resistance          |                | yes   |
| Weld spatter resistance          |                | yes   |

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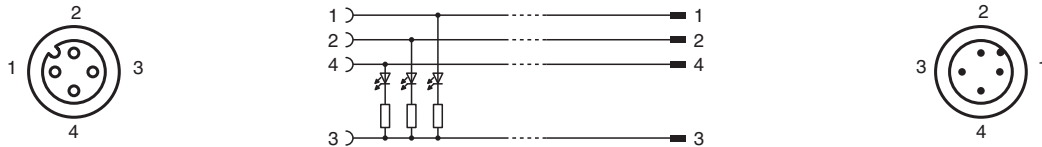
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### Technical Data

|                          |                 |
|--------------------------|-----------------|
| Oil resistance           | yes             |
| Hydrolysis resistance    | yes             |
| Flammability             | flame-resistant |
| Molecularly cross-linked | 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 |

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