

## Connection cable

### V1-G-OR0,8M-POC-V1-G

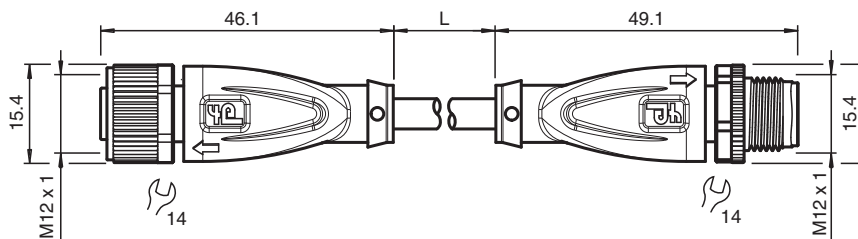


- Welding-bead resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Ozone resistant
- Hydrolysis resistant
- Oil resistant
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight 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

|                   |  |                  |
|-------------------|--|------------------|
| 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 <sub>B</sub> | max. 250 V AC/DC |
| Operating current | I <sub>B</sub> | max. 4 A         |

### Conformity

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

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

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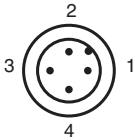
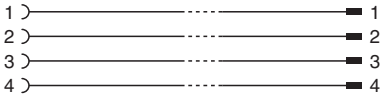
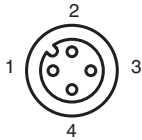
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PEPPERL+FUCHS

## Technical Data

|                                  |   |                                                                                           |
|----------------------------------|---|-------------------------------------------------------------------------------------------|
| 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 | 0.8 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, 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                                                                                       |
| Oil resistance                   |   | yes                                                                                       |
| Hydrolysis resistance            |   | yes                                                                                       |
| Flammability                     |   | flame-resistant                                                                           |
| Molecularly cross-linked         |   | yes                                                                                       |

Connection



Accessories

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