

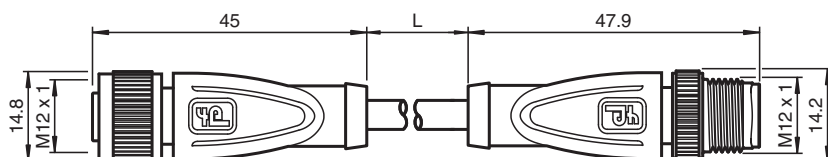
## Connection cable V1-G-OR3M-POC-V1-G

- Welding-bead resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP67 / IP68 / IP69
- Free from substances that impair paint wetting
- Ozone resistant
- Hydrolysis resistant
- Oil resistant
- Halogen-free
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

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

|                    |                  |
|--------------------|------------------|
| <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          |

#### Electrical specifications

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

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## Technical Data

|                                  |                |   |
|----------------------------------|----------------|---|
| Operating voltage                | U <sub>B</sub> | max. 250 V AC/DC  |
| 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   |
| Mating cycles                    |                | min. 100  |
| Degree of protection             |                | IP67 / 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              | 3 m   |
| Cable code                       |                | Li 7Y 41X 4 x 0,34  |
| <b>Drag chain suitability</b>    |                |   |
| Torsion cycles                   |                | min. 300000   |
| Torsional stress                 |                | ± 360 °/ 30 cm  |
| <b>Material</b>                  |                |   |
| LABS free                        |                | yes   |
| Halogen-free                     |                | yes   |
| <b>Plug connector</b>            |                |   |
| Screw connection                 |                | Zinc diecast, nickel-plated   |
| Body                             |                | TPU, black  |
| Contact surface                  |                | Au  |
| Flammability                     |                | V-2   |
| <b>Cable</b>                     |                |   |
| Sheathing                        |                | POC   |
| Core insulation                  |                | ETFE  |
| Welding-bead resistance          |                | yes   |
| Weld spatter resistance          |                | yes   |

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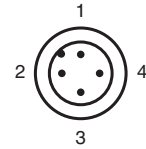
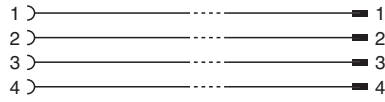
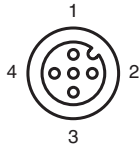
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### Technical Data

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

### Connection Assignment



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