



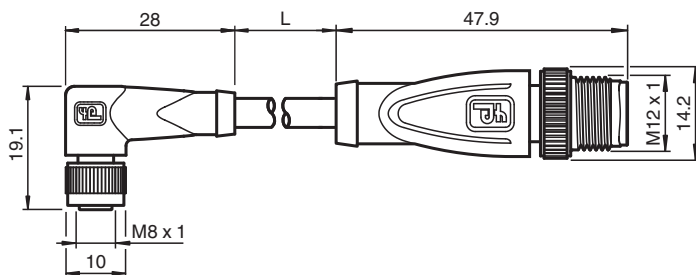
## Connection cable V31-WM-OR1,5M-POC-V1-G

- 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 M8 socket angled 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  | M8               |
| Style              | angled           |
| 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".

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## Technical Data

|                                  |                |                                                                                           |
|----------------------------------|----------------|-------------------------------------------------------------------------------------------|
| Operating voltage                | U <sub>B</sub> | max. 30 V AC/DC                                                                           |
| Operating current                | I <sub>B</sub> | max. 3 A                                                                                  |
| <b>Conformity</b>                |                |                                                                                           |
| Degree of protection             |                | EN 60529                                                                                  |
| Plug connection                  |                | connector M12 x 1 : IEC 61076-2-101<br>connector M8 x 1 : IEC 61076-2-104                 |
| 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> |                |                                                                                           |
| Connector 1                      |                |                                                                                           |
| Tightening torque                |                | 0.4 Nm                                                                                    |
| Loosening protection             |                | available                                                                                 |
| Tool installation                |                | straight knurling                                                                         |
| Mating cycles                    |                | min. 100                                                                                  |
| Degree of protection             |                | IP67                                                                                      |
| Connector 2                      |                |                                                                                           |
| Tightening torque                |                | 0.6 Nm                                                                                    |
| Loosening protection             |                | available                                                                                 |
| Tool installation                |                | straight knurling                                                                         |
| Mating cycles                    |                | min. 100                                                                                  |
| Degree of protection             |                | IP67 / IP68 / IP69                                                                        |
| Cable                            |                |                                                                                           |
| 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              | 1.5 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>                  |                |                                                                                           |
| LABS free                        |                | yes                                                                                       |
| Halogen-free                     |                | yes                                                                                       |
| Plug connector                   |                |                                                                                           |
| Screw connection                 |                | Zinc diecast, nickel-plated                                                               |
| Body                             |                | TPU, black                                                                                |
| Contact surface                  |                | Au                                                                                        |

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### Technical Data

|                          |                 |
|--------------------------|-----------------|
| 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 Assignment

