



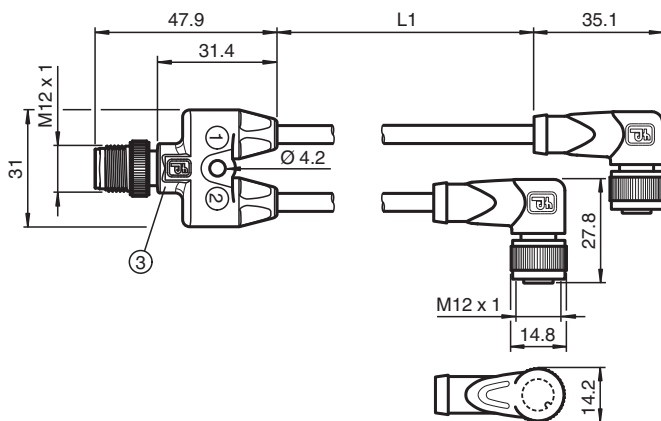
## Y connection cable V1-W-OR0,6M-POC-T-V1-G

- Easy merging of two signals at a single M12 slot
- Welding-bead resistant
- Suitable for robotic applications / torsion resistant
- Free of paint wetting interfering substances
- Ozone resistant
- Hydrolysis resistant
- Oil resistant
- Resistant to microbes and hydrolysis
- Halogen-free
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Y connection cable M12 plug straight A-coded 4-pin to 2x M12 socket angled A-coded 4-pin, 2x 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             |  | angled           |
| Locking           |  | screw connection |
| Number of pins    |  | 4                |
| Coding            |  | A-coded          |
| Connector 2       |  |                  |
| Connection        |  | socket           |
| Construction type |  | M12              |
| Style             |  | angled           |
| Locking           |  | screw connection |
| Number of pins    |  | 4                |
| Coding            |  | A-coded          |
| Connector 3       |  |                  |

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

**PEPPERL+FUCHS**

## Technical Data

|                                  |                |                                                                                           |
|----------------------------------|----------------|-------------------------------------------------------------------------------------------|
| Connection                       |                | plug                                                                                      |
| Construction type                |                | M12                                                                                       |
| Style                            |                | straight                                                                                  |
| Locking                          |                | screw connection                                                                          |
| Number of pins                   |                | 4                                                                                         |
| Coding                           |                | A-coded                                                                                   |
| <b>Electrical specifications</b> |                |                                                                                           |
| Operating voltage                | U <sub>B</sub> | max. 48 V AC / 60 V 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 installation        |                | -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, movable installation<br>> 10 x cable diameter, fixed installation  |
| 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              | L1 = 0.6 m<br>L2 = 0.6 m                                                                  |
| Cable code                       |                | Li 7Y 41X 4 x 0,34                                                                        |
| Drag chain suitability           |                |                                                                                           |
| Torsion cycles                   |                | min. 300000                                                                               |
| Torsional stress                 |                | ± 360 °/ 30 cm                                                                            |
| Mass                             |                | 86.5 g                                                                                    |
| <b>Material</b>                  |                |                                                                                           |
| PWIS free                        |                | yes                                                                                       |
| Halogen-free                     |                | yes                                                                                       |
| Plug connector                   |                |                                                                                           |
| Screw connection                 |                | Zinc diecast, nickel-plated                                                               |

Release date: 2025-04-09 Date of issue: 2025-04-09 Filename: 296500\_eng.pdf

Technical Data

|                          |                 |
|--------------------------|-----------------|
| Body                     | TPU, black      |
| Contact surface          | 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 Assignment

