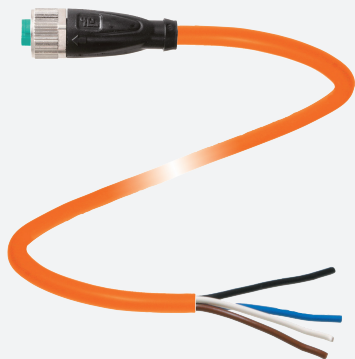




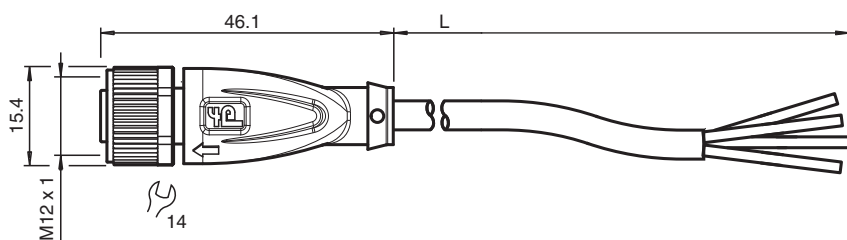
## Female cordset V1-G-OR8M-POC

- 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

Female cordset single-ended M12 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        |  | cable end        |

#### Electrical specifications

|                   |       |                  |
|-------------------|-------|------------------|
| Operating voltage | $U_B$ | max. 250 V AC/DC |
| Operating current | $I_B$ | max. 4 A         |

#### Conformity

|                      |  |                                     |
|----------------------|--|-------------------------------------|
| Degree of protection |  | EN 60529                            |
| Plug connection      |  | connector M12 x 1 : IEC 61076-2-101 |

Release date: 2022-03-19 Date of issue: 2022-03-19 Filename: 239998-0016\_eng.pdf

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

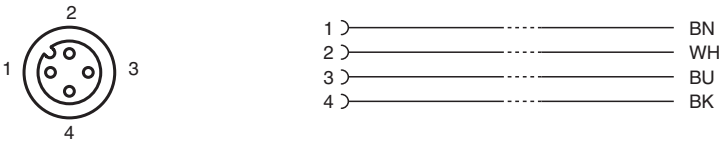
 **PEPPERL+FUCHS**

## Technical Data

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

Release date: 2022-03-19 Date of issue: 2022-03-19 Filename: 239998-0016\_eng.pdf

Connection Assignment



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 |

Release date: 2022-03-19 Date of issue: 2022-03-19 Filename: 239998-0016\_eng.pdf