

# Connection cable

## V3-GM-E2-OR10M-POC-V11-G

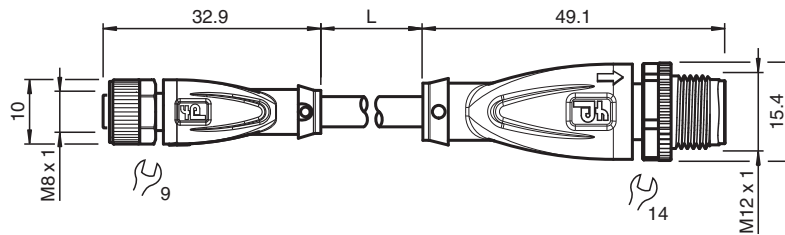


- Built-in LED, as operating and function indicator
- Welding-bead resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68
- Free of paint wetting interfering substances
- Ozone resistant
- Hydrolysis resistant
- Oil resistant
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M8 socket angled A-coded LED 3-pin to M12 plug straight A-coded 3-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                             |       | straight                   |  |
| Locking                           |       | screw connection           |  |
| Number of pins                    |       | 3                          |  |
| Coding                            |       | A-coded                    |  |
| <b>Connector 2</b>                |       |                            |  |
| Connection                        |       | plug                       |  |
| Construction type                 |       | M12                        |  |
| Style                             |       | straight                   |  |
| Locking                           |       | screw connection           |  |
| Number of pins                    |       | 3                          |  |
| Coding                            |       | A-coded                    |  |
| <b>Indicators/operating means</b> |       |                            |  |
| LED green                         |       | Operating display          |  |
| LED yellow                        |       | Functional display pin 4   |  |
| <b>Electrical specifications</b>  |       |                            |  |
| Operating voltage                 | $U_B$ | max. 24 V DC -20 % / +25 % |  |
| Operating current                 | $I_B$ | max. 3 A                   |  |

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

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## Technical Data

| <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 and hexagon nut SW = 9 mm                                               |
| Mating cycles                                    |   | min. 100                                                                                  |
| Degree of protection                             |   | IP68                                                                                      |
| Connector 2                                      |   |                                                                                           |
| 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: not used<br>Core 3: blue<br>Core 4: black                        |
| Core construction                                |   | 19 x 0.16 mm Ø                                                                            |
| Length                                           | L | 10 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, transparent/black                                                                    |
| Seal                                             |   | FKM                                                                                       |
| Contact surface                                  |   | gold plated (Au)                                                                          |
| Flammability                                     |   | V-2                                                                                       |

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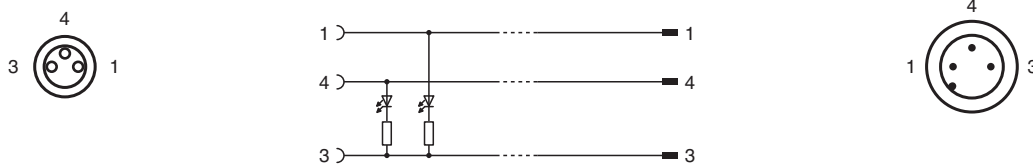
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### Technical Data

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

|                                                                                     |                              |                                                  |
|-------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|
|   | <b>MH V3-SCREWDRIVER</b>     | Torque screwdriver (0.4 Nm)                      |
|  | <b>MH V3-BIT M8</b>          | plug-in cap for M8                               |
|  | <b>MH V3-Holder</b>          | Modular universal holder for M8 connectors       |
|  | <b>V1/V3-LABELHOLDER</b>     | Label holder                                     |
|  | <b>V1/V3-LABEL</b>           | Label plate                                      |
|  | <b>MH V1-SCREWDRIVER</b>     | Torque screwdriver (0.6 Nm)                      |
|  | <b>MH V1-BIT M12</b>         | plug-in cap M12                                  |
|  | <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 |

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