



### Model Number

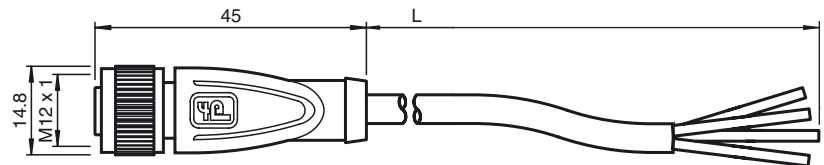
#### V1-G-OR10M-PUR-A

Single-ended female cordset, M12, PUR cable, 4-pin, welding-bead resistant

### Features

- Immunity to vibration, with mechanical latching
- Knurled nut suitable for tool assembly
- Halogen-free
- Suitable for drag chains
- Flame resistant cable
- Suitable for robotic applications / torsion resistant
- Gold plated contacts
- Improved resistance to weld slag

### Dimensions



### Technical data

#### General specifications

|                     |           |
|---------------------|-----------|
| Number of pins      | 4         |
| Connection 1        | socket    |
| Construction type 1 | straight  |
| Threading 1         | M12       |
| Connection 2        | cable end |

#### Electrical specifications

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

#### Ambient conditions

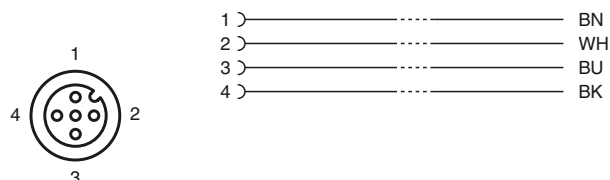
|                     |                                                                                                                                        |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature | Body: -40 ... 90 °C (-40 ... 194 °F)<br>cable, fixed: -40 ... 80 °C (-40 ... 176 °F)<br>cable, flexing: -25 ... 80 °C (-13 ... 176 °F) |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|

|                  |   |
|------------------|---|
| Pollution degree | 3 |
|------------------|---|

#### Mechanical specifications

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| Contact elements       | spring-loaded contact socket                                       |
| Pin diameter           | 1 mm                                                               |
| Degree of protection   | IP67                                                               |
| Cable code             | LiF9Y11Y 4 x 0.34 mm <sup>2</sup>                                  |
| Material               |                                                                    |
| Contacts               | CuSn / Au                                                          |
| Contact surface        | Au                                                                 |
| Body                   | TPU, black                                                         |
| Cable                  | PUR resistant to weld spatter                                      |
| Slotted nut            | Diecast zinc                                                       |
| Core insulation        | PP                                                                 |
| Cable                  | extra-fine wire, flexible                                          |
| Sheath diameter        | Ø 4.3 mm                                                           |
| Bending radius         | > 10 x cable diameter, moving<br>> 5 x cable diameter, single bend |
| Color                  | orange                                                             |
| Number of cores        | 4                                                                  |
| Core cross-section     | 0.34 mm <sup>2</sup>                                               |
| Conductor construction | 42 x 0.1 mm Ø                                                      |
| Length                 | L 10 m                                                             |
| Drag chain suitability |                                                                    |
| Drag chain cycles      | ≥ 5000000                                                          |
| Motion velocity        | ≤ 3.3 m/s                                                          |
| Traverse distance      | 5 m                                                                |
| Acceleration           | ≤ 5 m/s <sup>2</sup>                                               |
| Torsion cycles         | ≥ 1000000                                                          |
| Torsional stress       | ±180 °/m                                                           |
| Flammability           |                                                                    |
| Contact carrier        | 94 HB                                                              |

### Electrical connection





|                                                 |                                                               |
|-------------------------------------------------|---------------------------------------------------------------|
| Housing                                         | 94 V-2                                                        |
| Cable                                           | FT2                                                           |
| <b>Compliance with standards and directives</b> |                                                               |
| Standard conformity                             |                                                               |
| Degree of protection                            | EN 60529:2000                                                 |
| Standards                                       | IEC 61076-2-101:2008                                          |
| Flammability                                    | Body: UL 94<br>Line: UL 1581 Section 1061; IEC 60332-1-2:2004 |
| Halogen-free                                    | IEC 60754-1:1994                                              |
| <b>Approvals and certificates</b>               |                                                               |
| UL approval                                     | cURus AWM 20549 AWM I/II A/B 80°C 300V FT2                    |

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