

# Cable connector

## V1S-W-OR5M-POC

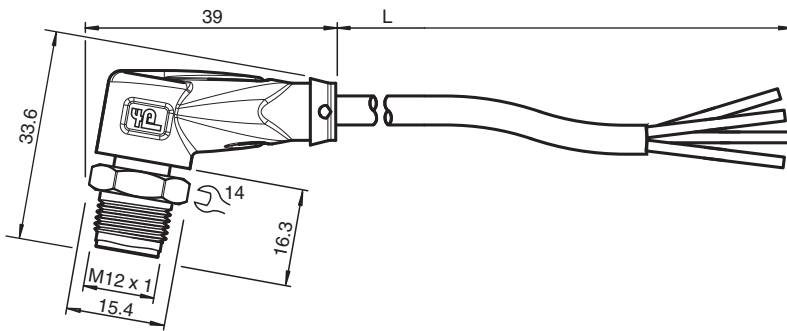


- Welding-bead resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Ozone resistant
- Hydrolysis resistant
- Oil resistant
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Male cordset single-ended M12 angled 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        | plug             |
| Construction type | M12              |
| Style             | angled           |
| 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 |

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

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## 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>  |
| Coors 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 | 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>                                  |   |   |
| PWIS free  |   | yes   |
| Halogen-free                                     |   | yes   |
| Plug connector                                   |   |   |
| Screw connection                                 |   | Zinc diecast, nickel-plated   |
| Body   |   | TPU, black  |
| Contact surface                                  |   | gold plated (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   |

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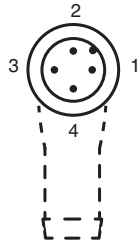
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## Connection Assignment



|   |       |    |
|---|-------|----|
| 1 | ————— | BN |
| 2 | ————— | WH |
| 3 | ————— | BU |
| 4 | ————— | BK |

## 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 |

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