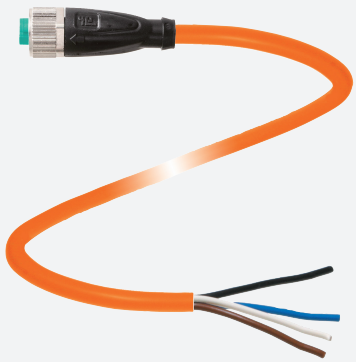


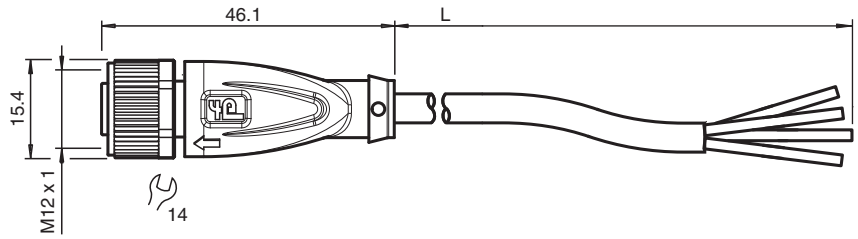
# Female cordset

## V1-G-OR3M-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 |

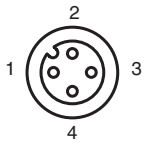
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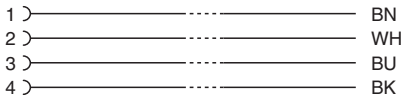
## Technical Data

| | | |
|---|---|---|
| Flammability | | IEC 60332-1-2 , ISO 14572 , ISO 6722 |
| Halogen-free | | IEC 60754-2 |
| Hydrolysis resistance | | ISO 6722 |
| Oil resistance | | ISO 14572 |
| **Ambient conditions** | | |
| 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 |
| **Mechanical specifications** | | |
| 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 mm² |
| 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 | 3 m |
| Cable code | | Li 7Y 41X 4 x 0,34 |
| Drag chain suitability | | |
| Torsion cycles | | min. 300000 |
| Torsional stress | | ± 360 °/ 30 cm |
| **Material** | | |
| 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 |

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## Connection Assignment




## Accessories

| | | |
|---|---|---|
|  | **MH V1-SCREWDRIVER** | torque screwdriver (0.6 Nm) |
|  | **MH V1-BIT M12** | plug-in cap M12 |
|  | **V1/V3-LABELHOLDER** | Label holder |
|  | **V1/V3-LABEL** | Label plate |
|  | **MH V1-Holder** | Modular universal holder for M12 connectors |
|  | **V1-CLIP** | Unlocking protector for M12 connector |
|  | **V1-MARKING-RING-COLOR** | Marking rings for M12 connectors, various colors |

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