

Connection cable

V1-G-OR3M-PUR-A1-V1-G



- Improved resistance to weld slag
- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PUR cable welding-bead resistant orange, UL approved, drag chain suitable, torsion resistant



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 | | plug | |
| Construction type | | M12 | |
| Style | | straight | |
| Locking | | screw connection | |
| Number of pins | | 4 | |
| Coding | | A-coded | |

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 | | |
| Flammability | UL 1581; DIN EN 60332-2-2 | | |
| PWIS conformity | VW-PV 3.10.7 | | |

Release date: 2024-01-27 Date of issue: 2024-01-27 Filename: 70128170-100021_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

| | | |
|-----------------------------------|---|---|
| Halogen-free | | DIN VDE 0472-815 |
| Oil resistance | | DIN EN 60811-2-1 |
| Approvals and certificates | | |
| UL approval | | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable) |
| UL File Number | | E231213 |
| Ambient conditions | | |
| Ambient temperature | | |
| Plug connector | | -40 ... 90 °C (-40 ... 194 °F) |
| Cable, fixed | | -40 ... 80 °C (-40 ... 176 °F) |
| Cable, flexing | | -25 ... 80 °C (-13 ... 176 °F) |
| 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 6 |
| Sheath diameter | | 4.9 mm |
| Bending radius | | > 10 x cable diameter, moving > 5 x cable diameter, fixed |
| Sheath stripping force | | max. 80 N / 300 mm |
| Sheath color | | orange (similar to RAL 2003) |
| Number of cores | | 4 |
| Core cross section | | 0.34 mm ² |
| Cores color | | Core 1: brown Core 2: white Core 3: blue Core 4: black |
| Core construction | | 42 x 0.1 mm Ø |
| Length | L | 3 m |
| Cable code | | Li F 9Y 11Y 4 x 0,34 |
| Drag chain suitability | | |
| Drag chain cycles | | min. 5000000 |
| Motion velocity | | max. 3 m/s |
| Traverse distance | | max. 5 m |
| Acceleration | | max. 5 m/s ² |
| Torsion cycles | | min. 1000000 |
| Torsional stress | | ± 180 °/m |
| Material | | |
| PWIS free | | yes |
| Halogen-free | | yes |
| Plug connector | | |
| Screw connection | | Zinc diecast, nickel-plated |
| Body | | TPU, black |
| Seal | | FKM |
| Contact surface | | gold plated (Au) |
| Flammability | | V-2 |
| Cable | | |
| Sheathing | | PUR based on polyether |
| Core insulation | | PP |
| Welding-bead resistance | | yes |
| Weld spatter resistance | | yes |

Release date: 2024-01-27 Date of issue: 2024-01-27 Filename: 70128170-100021_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

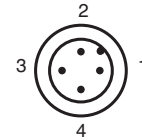
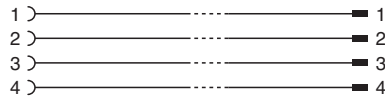
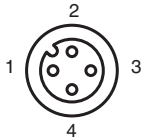
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

 PEPPERL+FUCHS

Technical Data

| | |
|------------------------------|------|
| Chemical resistance | good |
| Oil resistance | yes |
| Cooling lubricant resistance | yes |
| Microbial resistance | yes |
| Hydrolysis resistance | yes |
| Flammability | FT2 |

Connection



Release date: 2024-01-27 Date of issue: 2024-01-27 Filename: 70128170-100021_eng.pdf