



Model Number

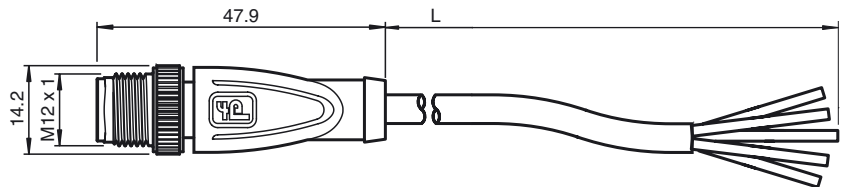
V15S-G-BK3M-PUR-U

Cable connector, M12, 5-pin, PUR cable

Features

- Suitable for drag chains
- Suitable for robotic applications / torsion resistant
- Degree of protection IP67 / IP68 / IP69K
- Free from substances that impair paint wetting
- Resistant to microbes and hydrolysis
- UL Recognized Component
- Halogen-free
- Flame resistant cable
- Gold plated contacts
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Dimensions



Technical data

General specifications

| | |
|---------------------|----------------|
| Number of pins | 5 |
| Connection 1 | Male connector |
| Construction type 1 | straight |
| Threading 1 | M12 |
| Connection 2 | cable end |
| UL File Number | E231213 |

Electrical specifications

| | | |
|--------------------|-------|------------------------|
| Operating voltage | U_B | max. 48 V AC / 60 V DC |
| Operating current | I_B | max. 4 A |
| Volume resistance | | < 5 m Ω |
| Contact resistance | | < 10 m Ω |

Ambient conditions

| | |
|---------------------|--|
| Ambient temperature | cable, fixed: -40 ... 80 °C (-40 ... 176 °F) 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 / IP68 / IP69k |
| Cable code | Li 9Y 11Y 5 x 0.34 |
| Material | |
| Contacts | CuSn / Au |
| Contact surface | Au |
| Body | TPU, black |
| Cable | PUR |
| Sleeve connector | Diecast zinc |
| Core insulation | PP |
| Cable | extra-fine wire, flexible |
| Sheath diameter | Ø4.8 mm |
| Bending radius | > 10 x cable diameter, moving > 5 x cable diameter, fixed |
| Color | black |
| Number of cores | 5 |
| Core cross-section | 0.34 mm ² |
| Conductor construction | 42 x 0.1 mm Ø |
| Length | L 3 m |
| Drag chain suitability | |
| Drag chain cycles | ≥ 5000000 |
| Motion velocity | ≤ 3.3 m/s |
| Traverse distance | 5 m horizontal |
| Acceleration | ≤ 5 m/s ² |
| Torsion cycles | ≥ 1000000 |

Electrical connection



| | |
|---|---|
| Torsional stress | ± 180 °/m |
| Flammability | |
| Contact carrier | HB |
| Housing | V-2 |
| Cable | FT2 |
| Compliance with standards and directives | |
| Standard conformity | |
| Degree of protection | EN 60529:2000 |
| Flammability | IEC 60332-1-2 |
| Halogen-free | IEC 60754-1:1994 |
| Specification | connector M12 x 1 : IEC 61076-2-101 |
| Approvals and certificates | |
| UL approval | AWM STYLE 20549 80 °C 300V AWM I A/B 80 °C 300V FT2 (cable) |

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-MARKING-RING-BLUE
Marking ring for M12 plug

V1-MARKING-RING-GREEN
Marking ring for M12 plug

V1-MARKING-RING-ORANGE
Marking ring for M12 plug

V1-MARKING-RING-RED
Marking ring for M12 plug

V1-MARKING-RING-WHITE
Marking ring for M12 plug

V1-MARKING-RING-YELLOW
Marking ring for M12 plug