



Model Number

V19-G-EMV-BK0,3M-PVC-V19-G

Double-ended cordset, M12 to M12, with EMC filter, 8-pin, PVC cable

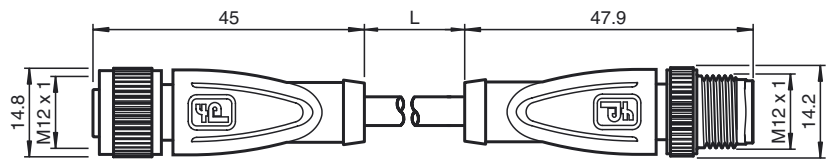
Features

- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Flame resistant cable
- Halogen-free
- Degree of protection IP67

Function

The double-ended cordset with integrated EMC filter includes a second-order low-pass filter made up of inductors and capacitors. The two uncoupled coils achieve good damping of low-frequency, symmetrical differential mode noise in the operating voltage. Such noise may occur as harmonics in power supplies or converters and, like the operating current, has opposite polarity. Above the cut-off frequency of approximately 10 kHz, the ideal dampening is 40 dB/decade and can be specified in real terms as 50 dB in the range of 100 kHz to 30 MHz. By contrast, asymmetrical common mode noise is not dampened. The operating voltage U_B must be connected to pin 1 and 0 V to pin 3. All other pins are not affected.

Dimensions



Technical data

General specifications

| | |
|---------------------|----------------|
| Number of pins | 8 |
| Connection 1 | socket |
| Construction type 1 | straight |
| Threading 1 | M12 |
| Connection 2 | Male connector |
| Construction type 2 | straight |
| Threading 2 | M12 |

Electrical specifications

| | | |
|-------------------|-------|----------------|
| Operating voltage | U_B | 10 ... 32 V DC |
| Test voltage | | 50 V |
| Operating current | | max. 0.4 A |

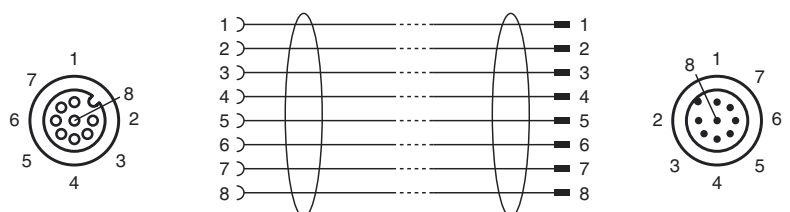
Ambient conditions

| | |
|---------------------|---|
| Ambient temperature | -40 ... 80 °C (-40 ... 176 °F) cable, fixed: -40 ... 80 °C (-40 ... 176 °F) cable, flexing: -20 ... 80 °C (-4 ... 176 °F) |
| Pollution Degree | 3 |

Mechanical specifications

| | |
|------------------------|---|
| Contact elements | spring-loaded contact socket |
| Pin diameter | 1 mm |
| Degree of protection | IP67 |
| Material | |
| Contacts | CuSn / Au |
| Contact surface | Au |
| Body | TPU, black |
| Cable | PVC |
| Slotted nut | Diecast zinc |
| Core insulation | PP |
| Cable | extra-fine wire, flexible |
| Sheath diameter | Ø 4.8 mm |
| Bending radius | > 10 x cable diameter, appropriate for conveyor chains > 5 x cable diameter, fixed |
| Color | black |
| Cores | 8 x 0.14 mm ² |
| Conductor construction | 18 x 0.1 mm Ø |
| Length | L 0.25 m |
| Flammability | |
| Contact material | 94 HB |
| Housing | V-2 (Grip) |

Electrical connection



Release date: 2014-04-11 10:20 Date of issue: 2014-04-11 257642_eng.xml

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