



### Model Number

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

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

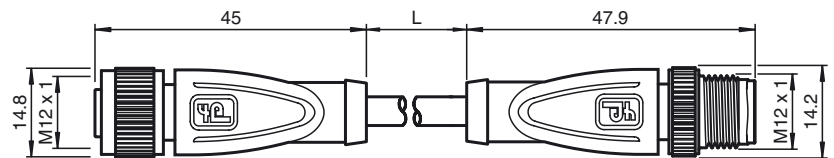
### Features

- 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	$I_B$	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 <sup>2</sup>
Conductor construction	18 x 0.1 mm Ø
Length	L 0.25 m
Flammability	
Contact carrier	94 HB
Housing	V-2 (Grip)

### Electrical connection

