



Model Number

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

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

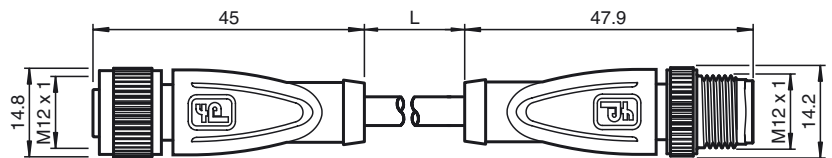
Features

- 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

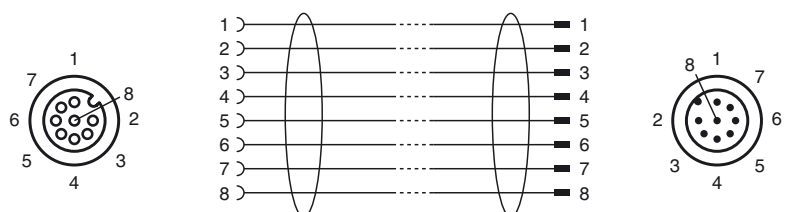
Ambient conditions

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 ²	
Conductor construction	18 x 0.1 mm Ø	
Length	L	0.25 m
Flammability		
Contact carrier	94 HB	
Housing	V-2 (Grip)	

Electrical connection



Release date: 2018-07-27 08:31 Date of issue: 2018-07-27 257642_eng.xml