



Model Number

V15-G-BK1M-PUR-U-V15-G

Connection cable, M12 to 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
- Gold plated contacts
- Flame resistant cable
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Dimensions



Technical data

General specifications

Number of pins	5
Connection 1	socket
Construction type 1	straight
Threading 1	M12
Connection 2	Male connector
Construction type 2	straight
Threading 2	M12
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

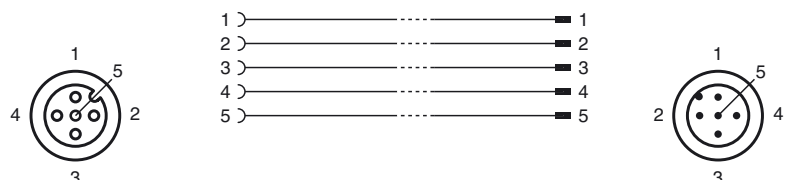
Ambient conditions

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
Slotted nut	Diecast zinc
Sleeve connector	Diecast zinc
Core insulation	PP
Cable	extra-fine wire, flexible
Sheath diameter	Ø 4.8 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 1 m
Drag chain suitability	
Drag chain cycles	≥ 5000000
Motion velocity	≤ 3.3 m/s

Electrical connection



Release date: 2019-07-15 16:57 Date of issue: 2019-07-15 240775-100012_eng.xml

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

Traverse distance	5 m horizontal
Acceleration	≤ 5 m/s ²
Torsion cycles	≥ 1000000
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

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