



## Connection cable

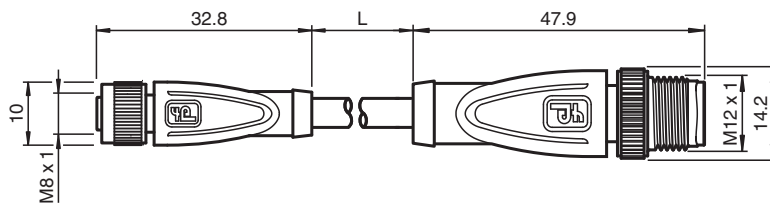
### V3-GM-BK1,5M-PUR-U-V11-G

- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP67
- Free from substances that impair paint wetting
- Resistant to microbes and hydrolysis
- UV resistant
- cURus approval
- Halogen-free
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Cordset M8 socket straight to M12 plug straight A-coded, 3-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant



## Dimensions



## Technical Data

### General specifications

<b>Connector 1</b>	
Connection	socket
Construction type	M8
Style	straight
Locking	screw connection
Number of pins	3
Coding	A-coded
<b>Connector 2</b>	
Connection	plug
Construction type	M12
Style	straight
Locking	screw connection
Number of pins	3
Coding	A-coded
UL File Number	E231213

Release date: 2021-02-10 Date of issue: 2021-02-10 Filename: 456706\_eng.pdf

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

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 PEPPERL+FUCHS

## Technical Data

Electrical specifications			
Operating voltage	$U_B$	max. 48 V AC / 60 V DC	
Operating current	$I_B$	max. 4 A	
Conformity			
Degree of protection		EN 60529	
Plug connection		connector M8 x 1 : IEC 61076-2-104 connector M12 x 1 : IEC 61076-2-101	
Flammability		UL 1581; DIN EN 60332-2-2	
Halogen-free		IEC 60754-1	
Approvals and certificates			
UL approval		AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable)	
Ambient conditions			
Ambient temperature			
Plug connector		-40 ... 90 °C (-40 ... 194 °F)	
Cable, fixed		-40 ... 80 °C (-40 ... 176 °F)	
Cable, flexing		-20 ... 80 °C (-4 ... 176 °F)	
Pollution degree		3	
Mechanical specifications			
Connector 1			
Tightening torque		0.4 Nm	
Loosening protection		available	
Tool installation		straight knurling	
Mating cycles		min. 100	
Degree of protection		IP67	
Connector 2			
Tightening torque		0.6 Nm	
Loosening protection		available	
Tool installation		straight knurling	
Mating cycles		min. 100	
Degree of protection		IP67 / IP68 / IP69	
Cable			
according to IEC/EN 60228 (DIN VDE 0295) class 6			
Sheath diameter		4.3 mm	
Bending radius		> 10 x cable diameter, moving > 5 x cable diameter, fixed	
Sheath stripping force		max. 80 N / 300 mm	
Sheath color		black (similar to RAL 9005)	
Number of cores		3	
Core cross-section		0.34 mm <sup>2</sup>	
Cores color		Core 1: brown Core 3: blue Core 4: black	
Core construction		42 x 0.1 mm Ø	
Length	L	1.5 m	
Cable code		Li 9Y 11Y 3 x 0.34	
Drag chain suitability			
Drag chain cycles		min. 5000000	
Motion velocity		max. 3.3 m/s	
Traverse distance		max. 5 m	
Acceleration		max. 5 m/s <sup>2</sup>	
Torsion cycles		min. 1000000	
Torsional stress		± 180 °/m	
Material			
LABS free		yes	
Halogen-free		yes	

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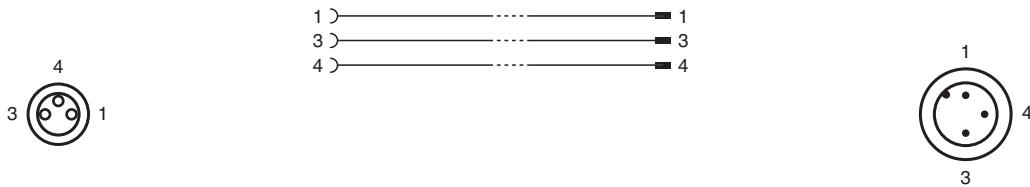
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**Technical Data**

Plug connector	
Screw connection	Zinc diecast, nickel-plated
Body	TPU, black
Contact surface	Au
Flammability	V-2
Cable	
Sheathing	PUR based on polyether
Core insulation	PP
UV resistance	yes
Chemical resistance	good
Oil resistance	yes
Cooling lubricant resistance	yes
Microbial resistance	yes
Hydrolysis resistance	yes
Flammability	FT2

**Connection Assignment**



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