



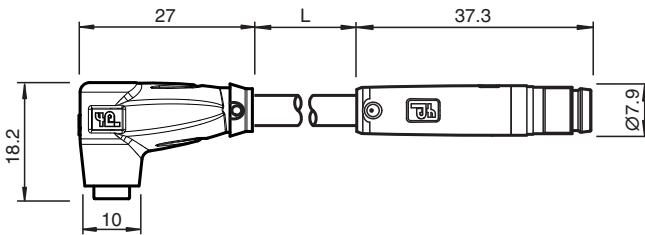
Connection cable V31-WR-BK1M-PUR-U-V31-GR

- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP65
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Snap locking
- Plug fits through drill holes diameter min. 8 mm

Cordset M8 socket snap-lock angled to M8 plug snap-lock straight A-coded, 4-pin, PUR cable black, UL-approved, drag chain suitable, torsion resistant



Dimensions



Technical Data

General specifications

Connector 1		
Connection		socket
Construction type		M8
Style		angled
Locking		snap locking
Number of pins		4
Coding		A-coded
Connector 2		
Connection		plug
Construction type		M8
Style		straight
Locking		snap locking
Number of pins		4
Coding		A-coded

Electrical specifications

Operating voltage	U _B	max. 30 V AC/DC
Operating current	I _B	max. 4 A

Conformity

Degree of protection	EN 60529		
Plug connection	connector M8 x 1 : IEC 61076-2-104		
Flammability	UL 1581; DIN EN 60332-2-2		
Halogen-free	IEC 60754-1		

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

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 **PEPPERL+FUCHS**

Technical Data

Approvals and certificates

UL approval		AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable)
Maximum permissible operating current		max. 3 A
UL File Number		E231213

Ambient conditions

Ambient temperature		
Plug connector		-25 ... 90 °C (-13 ... 194 °F)
Cable, fixed		-40 ... 80 °C (-40 ... 176 °F)
Cable, flexing		-20 ... 80 °C (-4 ... 176 °F)
Pollution degree		3

Mechanical specifications

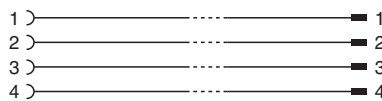
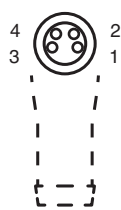
Plug connector		
Mating cycles		min. 100
Degree of protection		IP65
Cable		according to IEC/EN 60228 (DIN VDE 0295) class 6
Sheath diameter		4.3 mm
Bending radius		> 10 x cable diameter, moving > 5 x cable diameter, fixed
Sheath stripping force		max. 80 N / 300 mm
Sheath color		black (similar to RAL 9005)
Number of cores		4
Core cross section		0.34 mm²
Cores color		Core 1: brown Core 2: white Core 3: blue Core 4: black
Core construction		42 x 0.1 mm Ø
Length	L	1 m
Cable code		Li 9Y 11Y 4 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/s²
Torsion cycles		min. 1000000
Torsional stress		± 180 °/m

Material

PWIS free		yes
Halogen-free		yes
Plug connector		
Body		PUR, black
Contact surface		Au
Flammability		V-2
Cable		
Sheathing		PUR based on polyether
Cores		bare copper (Cu)
Core insulation		PP
UV resistance		yes
Chemical resistance		good
Oil resistance		yes
Cooling lubricant resistance		yes
Microbial resistance		yes
Hydrolysis resistance		yes
Flammability		FT2

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Connection Assignment



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