

# Cable connector

## V31S-GM-BK15M-PUR-U

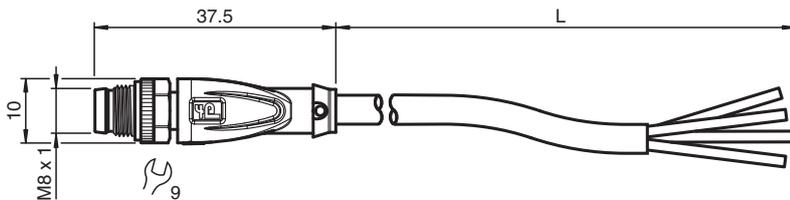


- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP66 / IP68
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Male cordset single-ended M8 straight A-coded, 4-pin, PUR cable black, UL-approved, drag chain suitable, torsion resistant



### Dimensions



### Technical Data

#### General specifications

Connector 1	
Connection	plug
Construction type	M8
Style	straight
Locking	screw connection
Number of pins	4
Coding	A-coded
Connector 2	
Connection	cable end

#### 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
Lead-free	RoHS directive 2011/65/EU

#### 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

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

## Technical Data

Ambient temperature		
Plug connector		-40 ... 90 °C (-40 ... 194 °F)
Cable, fixed installation		-40 ... 80 °C (-40 ... 176 °F)
Cable, flexing		-20 ... 80 °C (-4 ... 176 °F)
Pollution degree		3
<b>Mechanical specifications</b>		
Plug connector		
Tightening torque		0.4 Nm
Loosening protection		integrated
Tool installation		straight knurling and hexagon nut SW = 9 mm
Mating cycles		min. 100
Degree of protection		IP66 / IP68
Cable		according to IEC/EN 60228 (DIN VDE 0295) class 6
Sheath diameter		4.3 mm
Bending radius		> 10 x cable diameter, movable installation > 5 x cable diameter, fixed installation
Sheath stripping force		max. 80 N / 300 mm
Sheath color		black (similar to RAL 9005)
Number of cores		4
Core cross section		0.34 mm <sup>2</sup>
Cores color		Core 1: brown Core 2: white Core 3: blue Core 4: black
Core construction		42 x 0.1 mm Ø
Length	L	15 m
Cable code		Li 9Y 11Y 4 x 0.34
<b>Drag chain suitability</b>		
Test temperature		25 °C (77 °F)
Drag chain cycles		min. 10000000
Motion velocity		max. 3 m/s
Traverse distance		max. 5 m
Acceleration		max. 5 m/s <sup>2</sup>
Torsion cycles		min. 1000000
Torsional stress		± 180 °/m
Mass		390 g
<b>Material</b>		
PWIS free		yes
Halogen-free		yes
Lead-free		yes
Plug connector		
Screw connection		Zinc diecast, nickel-plated
Body		TPU, black
Contact surface		gold plated (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

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Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

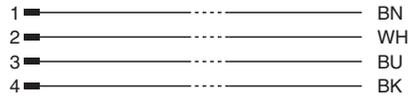
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

 PEPPERL+FUCHS

### Technical Data

Hydrolysis resistance	yes
Flammability	FT2
<b>General information</b>	
Cable marking sleeve	1x PUR transparent , fixed to cable

### Connection Assignment



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