

Cable connector, shielded

V31S-GM-BK1M-PUR-U/ABG

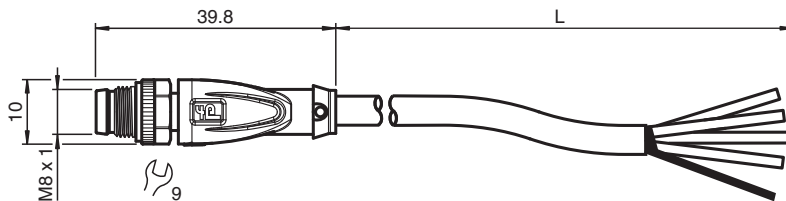


- Suitable for drag chains and abrasion resistant
- Degree of protection IP68
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

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



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. 3 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	DIN VDE 0472-815
Microbial resistance	EN 50363
Hydrolysis resistance	EN 50363

Approvals and certificates

UL approval	AWM STYLE 20549/10493 80°C 300V FT2 (cable)
UL File Number	E231213

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

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Technical Data

Ambient conditions		
Ambient temperature		
Plug connector		-40 ... 90 °C (-40 ... 194 °F)
Cable, fixed		-40 ... 80 °C (-40 ... 176 °F)
Cable, flexing		-25 ... 80 °C (-13 ... 176 °F)
Pollution degree		3
Mechanical specifications		
Plug connector		
Tightening torque		0.4 Nm
Loosening protection		available
Tool installation		straight knurling and hexagon nut SW = 9 mm
Mating cycles		min. 100
Shielding		shield connected to screw connection
Degree of protection		IP68
Cable		according to IEC/EN 60228 (DIN VDE 0295) class 6
Sheath diameter		4.9 mm
Bending radius		> 10 x cable diameter, moving > 5 x cable diameter, fixed
Sheath stripping force		max. 60 N / 100 mm
Sheath color		black (similar to RAL 9005)
Number of cores		4
Core cross section		0.34 mm ²
Cores color		Core 1: brown Core 2: white Core 3: blue Core 4: black
Core construction		42 x 0.1 mm Ø
Shield		tinned copper braiding, 85 % coverage
Length	L	1 m
Cable code		Li F 9Y C11Y 4 x 0,34
Drag chain suitability		
Drag chain cycles		min. 2000000
Motion velocity		max. 3 m/s
Traverse distance		max. 5 m
Acceleration		max. 5 m/s ²
Material		
Halogen-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
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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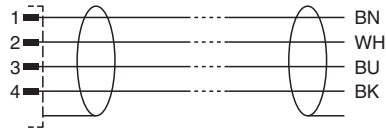
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Connection



Accessories

	MH V3-SCREWDRIVER	Torque screwdriver (0.4 Nm)
	MH V3-BIT M8	plug-in cap for M8
	V1/V3-LABELHOLDER	Label holder
	V1/V3-LABEL	Label plate
	MH V3-Holder	Modular universal holder for M8 connectors