

## Connection cable, shielded

### V31-GM-2M-PUR-ABG-U-V31-GM-Y02

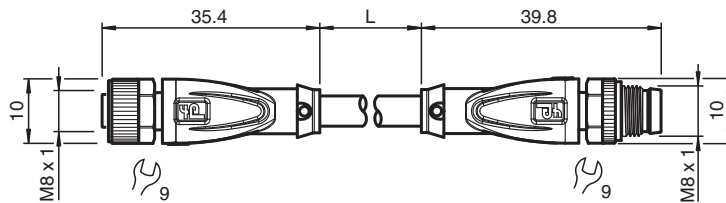


- Suitable for drag chains and abrasion resistant
- Free of paint wetting interfering substances
- Degree of protection IP68
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation
- Customer-specific configuration

Cordset M8 socket straight to M8 plug straight A-coded, 4-pin, PUR cable black, shielded, UL approved, drag chain suitable



## Dimensions



## Technical Data

### General specifications

Customization	without Label holder	
Connector 1		
Connection	socket	
Construction type	M8	
Style	straight	
Locking	screw connection	
Number of pins	4	
Coding	A-coded	
Connector 2		
Connection	plug	
Construction type	M8	
Style	straight	
Locking	screw connection	
Number of pins	4	
Coding	A-coded	

### Electrical specifications

Operating voltage	$U_B$	max. 30 V AC/DC
Operating current	$I_B$	max. 3 A

### Conformity

Degree of protection	EN 60529	
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## Technical Data

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	
<b>Approvals and certificates</b>		
UL approval	AWM STYLE 20549/10493 80°C 300V FT2 (cable)	
UL File Number	E231213	
<b>Ambient conditions</b>		
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	
<b>Mechanical specifications</b>		
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 <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	
Shield	tinned copper braiding, 85 % coverage	
Length	L	2 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 <sup>2</sup>	
<b>Material</b>		
PWIS free	yes	
Halogen-free	yes	
Plug connector		
Screw connection	Zinc diecast, nickel-plated	
Body	TPU, black	
Seal	FKM	
Contact surface	gold plated (Au)	
Flammability	V-2	
Cable		
Sheathing	PUR based on polyether	

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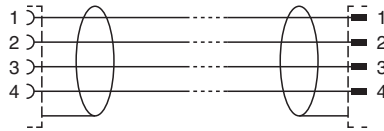
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### Technical Data

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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