

# Connection cable

## V1-G-E2-OR1M-POC-V1-G

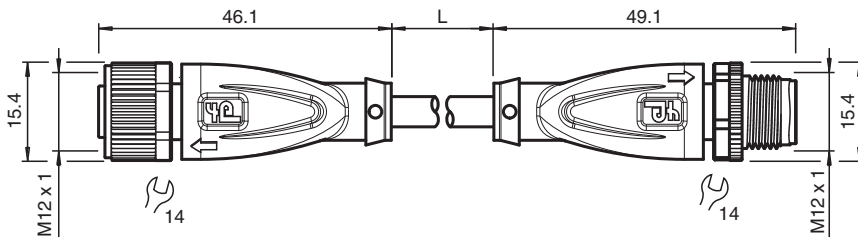


- Built-in LED, as operating and function indicator
- Welding-bead resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Ozone resistant
- Hydrolysis resistant
- Oil resistant
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight A-coded LED 3-pin to M12 plug straight A-coded 3-pin, POC cable welding-bead resistant orange, suitable for robotic applications, torsion resistant, oil resistant, molecularly cross-linked



### Dimensions



### Technical Data

General specifications			
<b>Connector 1</b>			
Connection		socket	
Construction type		M12	
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	
<b>Indicators/operating means</b>			
LED green		Operating display	
LED yellow		Functional display pin 4	
<b>Electrical specifications</b>			
Operating voltage	$U_B$	max. 24 V DC -20 % / +25 %	
Operating current	$I_B$	max. 4 A	

Release date: 2023-07-13 Date of issue: 2023-07-14 Filename: 293706\_eng.pdf

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

## Technical Data

### Conformity

Degree of protection	EN 60529
Plug connection	connector M12 x 1 : IEC 61076-2-101
Flammability	IEC 60332-1-2 , ISO 14572 , ISO 6722
Halogen-free	IEC 60754-2
Hydrolysis resistance	ISO 6722
Oil resistance	ISO 14572

### Ambient conditions

Ambient temperature	
Plug connector	-40 ... 90 °C (-40 ... 194 °F)
Cable, fixed	-40 ... 120 °C (-40 ... 248 °F) for 20000 h -40 ... 150 °C (-40 ... 302 °F) for 3000 h
Cable, flexing	-15 ... 120 °C (5 ... 248 °F) for 20000 h -15 ... 150 °C (5 ... 302 °F) for 3000 h
Pollution degree	3

### Mechanical specifications

Plug connector	
Tightening torque	0.6 Nm
Loosening protection	available
Tool installation	straight knurling and hexagon nut SW = 14 mm
Mating cycles	min. 100
Degree of protection	IP68 / IP69
Cable	according to IEC/EN 60228 (DIN VDE 0295) class 5
Sheath diameter	4.8 mm
Bending radius	> 10 x cable diameter, moving > 10 x cable diameter, fixed
Sheath stripping force	max. 50 N / 300 mm
Sheath color	orange (similar to RAL 2003)
Number of cores	4
Core cross section	0.34 mm <sup>2</sup>
Cores color	Core 1: brown Core 2: not used Core 3: blue Core 4: black
Core construction	19 x 0.16 mm Ø
Length	L 1 m
Cable code	Li 7Y 41X 4 x 0,34
Drag chain suitability	
Torsion cycles	min. 300000
Torsional stress	± 360 °/30 cm

### Material

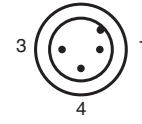
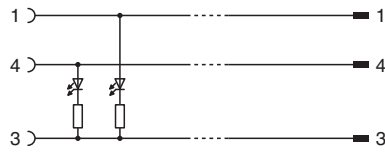
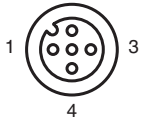
PWIS free	yes
Halogen-free	yes
Plug connector	
Screw connection	Zinc diecast, nickel-plated
Body	TPU, transparent/black
Seal	FKM
Contact surface	gold plated (Au)
Flammability	V-2
Cable	
Sheathing	POC
Core insulation	ETFE
Welding-bead resistance	yes
Weld spatter resistance	yes
Oil resistance	yes

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### Technical Data

Hydrolysis resistance	yes
Flammability	flame-resistant
Molecularly cross-linked	yes

### Connection



### Accessories

	<b>MH V1-SCREWDRIVER</b>	Torque screwdriver (0.6 Nm)
	<b>MH V1-BIT M12</b>	plug-in cap M12
	<b>V1/V3-LABELHOLDER</b>	Label holder
	<b>V1/V3-LABEL</b>	Label plate
	<b>MH V1-Holder</b>	Modular universal holder for M12 connectors
	<b>V1-CLIP</b>	Unlocking protector for M12 connector
	<b>V1-MARKING-RING-COLOR</b>	Marking rings for M12 connectors, various colors

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