

# Connection cable

## V31-GM-OR2M-POC-V31-GM

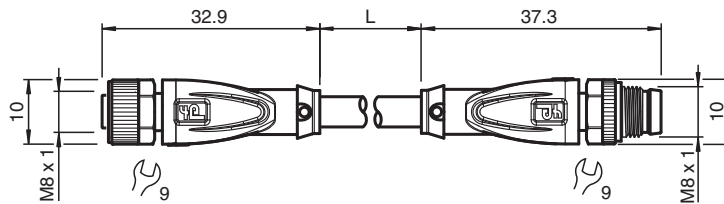


- Welding-bead resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68
- Free of paint wetting interfering substances
- Ozone resistant
- Hydrolysis resistant
- Oil resistant
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M8 socket straight to M8 plug straight A-coded, 4-pin, POC cable welding-bead resistant orange, suitable for robotic applications, torsion resistant, oil resistant, molecularly cross-linked



### Dimensions



### Technical Data

#### General specifications

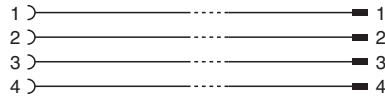
<b>Connector 1</b>			
Connection		socket	
Construction type		M8	
Style		straight	
Locking		screw connection	
Number of pins		4	
Coding		A-coded	
<b>Connector 2</b>			
Connection		plug	
Construction type		M8	
Style		straight	
Locking		screw connection	
Number of pins		4	
Coding		A-coded	
<b>Electrical specifications</b>			
Operating voltage	$U_B$	max. 30 V AC/DC	
Operating current	$I_B$	max. 3 A	
<b>Conformity</b>			
Degree of protection		EN 60529	
Plug connection		connector M8 x 1 : IEC 61076-2-104	
Flammability		IEC 60332-1-2 , ISO 14572 , ISO 6722	
Halogen-free		IEC 60754-2	

Release date: 2023-06-29 Date of issue: 2023-06-29 Filename: 317599\_eng.pdf






## Technical Data

Hydrolysis resistance		ISO 6722
Oil resistance		ISO 14572
<b>Ambient conditions</b>		
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
<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
Degree of protection		IP68
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: white Core 3: blue Core 4: black
Core construction		19 x 0.16 mm Ø
Length	L	2 m
Cable code		Li 7Y 41X 4 x 0,34
Drag chain suitability		
Torsion cycles		min. 300000
Torsional stress		± 360 °/30 cm
<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		POC
Core insulation		ETFE
Welding-bead resistance		yes
Weld spatter resistance		yes
Oil resistance		yes
Hydrolysis resistance		yes
Flammability		flame-resistant
Molecularly cross-linked		yes

## Connection



## Accessories

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