



Model Number

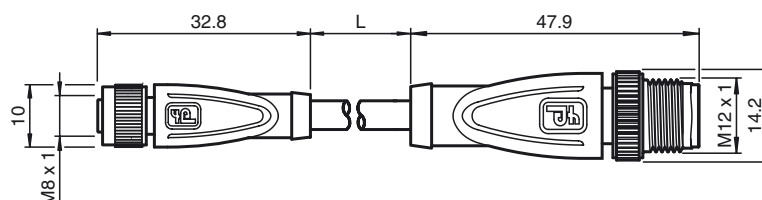
V31-GM-OR*M-PUR-A-V1-G

Double-ended cordset, M8 to M12, 4-pin, PUR cable, weld splatter resistant

Features

- Improved resistance to weld spatter
- Suitable for drag chains
- Suitable for robotic applications / torsion resistant
- Degree of protection IP67
- Free from substances that impair paint wetting
- Resistant to microbes and hydrolysis
- UL Recognized Component
- Halogen-free
- Flame resistant cable
- Gold plated contacts
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Cable length according to specification

Dimensions



Technical data

General specifications

Number of pins	4
Connection 1	socket
Construction type 1	straight
Threading 1	M8
Connection 2	Male connector
Construction type 2	straight
Threading 2	M12
UL File Number	E231213

Electrical specifications

Operating voltage	U_B	max. 30 V AC/DC
Operating current	I_B	max. 4 A

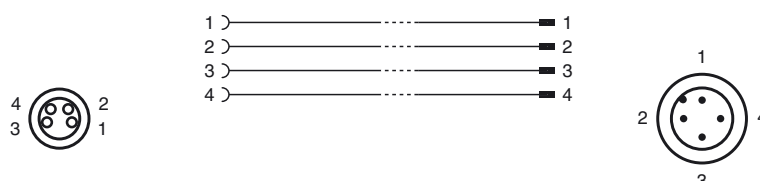
Ambient conditions

Ambient temperature	cable, fixed: -40 ... 80 °C (-40 ... 176 °F) cable, flexing: -25 ... 80 °C (-13 ... 176 °F)
Pollution degree	3

Mechanical specifications

Contact elements	spring-loaded contact socket
Degree of protection	IP67
Cable code	Li 9Y 11Y 4 x 0.34
Material	
Contacts	CuSn / Au
Contact surface	Au
Body	TPU, black
Cable	PUR resistant to weld spatter
Slotted nut	Diecast zinc
Sleeve connector	Diecast zinc
Core insulation	PP
Cable	according to IEC/EN 60228 (DIN VDE 0295) class 6
Sheath diameter	Ø 4.3 mm
Bending radius	> 10 x cable diameter, moving > 5 x cable diameter, fixed
Color	orange
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
Conductor construction	42 x 0.1 mm Ø
Length	L as per specification
Drag chain suitability	
Drag chain cycles	≥ 5000000
Motion velocity	≤ 3.3 m/s

Electrical connection





Traverse distance	5 m horizontal
Acceleration	$\leq 5 \text{ m/s}^2$
Torsion cycles	≥ 1000000
Torsional stress	$\pm 180^\circ/\text{m}$
Flammability	
Contact carrier	HB
Housing	V-2
Cable	FT2
Compliance with standards and directives	
Standard conformity	
Degree of protection	EN 60529
Flammability	IEC 60332-1-2
Halogen-free	IEC 60754-1
Specification	connector M8 x 1 : IEC 61076-2-104 connector M12 x 1 : IEC 61076-2-101
Approvals and certificates	
UL approval	AWM STYLE 20549 80 °C 300V AWM I A/B 80 °C 300V FT2 (cable)