



Model Number

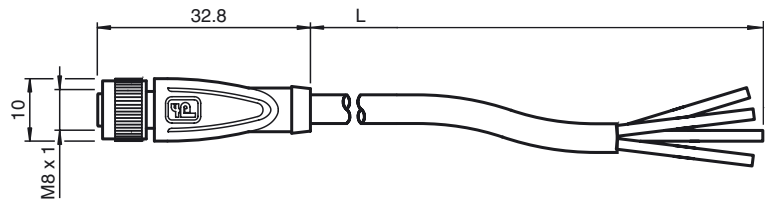
V31-GM-BK5M-PUR-R1

Single-ended female cordset, M8, PUR cable, 4-pin, robotics

Features

- Raw cable with cURus approval
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Gold plated contacts
- Suitable for drag chains
- Highly flexible, suitable for robotics
- Flame resistant cable
- Halogen-free
- Resistant to microbes and hydrolysis
- Degree of protection IP67

Dimensions



Technical data

General specifications

Number of pins	4
Connection 1	socket
Construction type 1	straight
Threading 1	M8
Connection 2	cable end
UL File Number	E231213

Electrical specifications

Operating voltage	U_B	max. 30 V DC
Operating current	I_B	max. 3 A
Volume resistance		< 5 m Ω
Insulation resistance		$\geq 10 \text{ M}\Omega/\text{km}$
Lead resistance		58 Ω/km

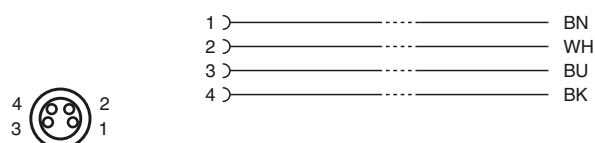
Ambient conditions

Ambient temperature	-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

Contact elements	spring-loaded contact socket
Pin diameter	1 mm
Degree of protection	IP67
Cable code	LIF9Y 11Y
Material	
Contacts	CuSn / Au
Contact surface	Au
Body	TPU, black
Cable	PUR
Slotted nut	Diecast zinc
Core insulation	PP
Cable	extra-fine wire, flexible
Sheath diameter	$\varnothing 4.3 \text{ mm} \pm 0.15 \text{ mm}$
Bending radius	> 10 x cable diameter, moving > 5 x cable diameter, fixed
Color	black (similar to RAL 7021)
Number of cores	4
Core cross-section	0.34 mm ²
Conductor construction	42 x 0.1 mm $\varnothing$
Length	L 5 m
Drag chain suitability	
Drag chain cycles	≥ 10000000
Motion velocity	$\leq 3 \text{ m/s}$
Acceleration	$\leq 10 \text{ m/s}^2$
Torsional stress	$\pm 360 \text{ }^\circ/\text{m}$

Electrical connection





Flammability	
Contact carrier	94 HB
Housing	94 V-2
Cable	FT2
Compliance with standards and directives	
Standard conformity	
Degree of protection	EN 60529:2000
Standards	IEC 61076-2-101:2008
Flammability	Body: UL 94
	Line: UL 1581 Section 1061; IEC 60332-1-2:2004
Halogen-free	DIN VDE 0472 Part 15 (plastic)
	DIN EN 50267-2-1 (flue gas)
Chemical resistance	EN 60811-404: 168 h at 100° C
Approvals and certificates	
UL approval	AWM STYLE 20549 80 °C 300V AWM I A/B 80 °C 300V FT2 (cable)