



Model Number

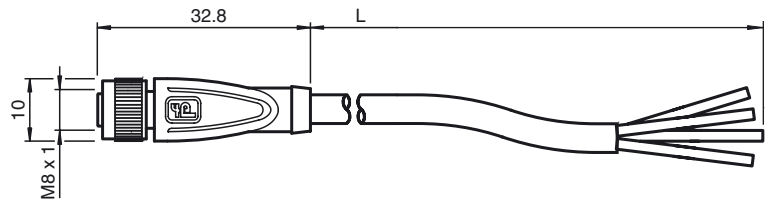
V31-GM-BK10M-PUR-R1

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

Features

- Highly flexible—suitable for robotics
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Gold plated contacts
- Suitable for drag chains
- Flame resistant cable
- Halogen-free
- Degree of protection IP67 / IP68 / IP69K
- Resistant to microbes and hydrolysis

Dimensions



Technical data

General specifications

Number of pins	4
----------------	---

Electrical specifications

Operating voltage	U_B	max. 30 V DC
Test voltage		> 1500 V _{eff} AC
Operating current	I_B	max. 4 A
Volume resistance		< 5 mΩ

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 / IP68 / IP69k

Material

Contacts	CuSn / Au
Contact surface	Au
Body	TPU, black
Cable	PUR
Slotted nut	Diecast zinc
Core insulation	PP

Cable

Sheath diameter	Ø 4.3 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 Ø
Length	L 10 m

Drag chain suitability

Drag chain cycles	≥ 10000000
Motion velocity	≤ 3 m/s
Acceleration	≤ 10 m/s ²
Torsional stress	± 360 °/m

Flammability

Contact carrier	94 HB
Housing	94 V-2
Cable	FT2

Compliance with standards and directives

Standard conformity

Electrical connection



1	-----	BN
2	-----	WH
3	-----	BU
4	-----	BK



Degree of protection	EN 60529:2000
Standards	IEC 61076-2-101:2008
Flammability	Grip: UL 94 Cabling: in accordance with UL FT2
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)

Release date: 2016-07-15 11:56 Date of issue: 2016-08-02 295371_eng.xml