

Model Number

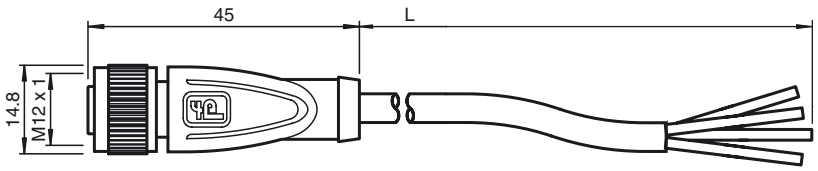
V1-G-BK*M-PUR-R1

Single-ended female cordset, M12, PUR cable, 4-pin, robotics

Features

- Highly flexible - suitable for robotics
- Optimized for drag chains
- High torsionable
- Degree of protection IP67 / IP68 / IP69K
- Free from substances that impair paint wetting
- Resistant to microbes and hydrolysis
- Raw cable with cURus approval
- Halogen-free
- Gold plated contacts
- Flame resistant cable
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Cable length according to specification

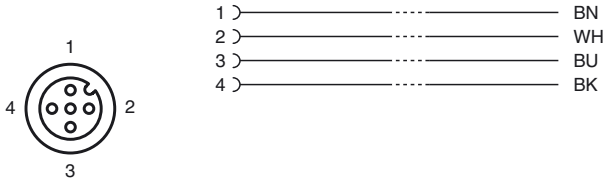
Dimensions



Technical data

General specifications		
Number of pins		4
Connection 1		socket
Construction type 1		straight
Threading 1		M12
Connection 2		cable end
Electrical specifications		
Operating voltage	U_B	max. 250 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 / IP68 / IP69k
Cable code		LiF9Y 11Y
Material		
Contacts		CuSn / Au
Contact surface		Au
Body		TPU, black
Cable		PUR
Slotted nut		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		black
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		≥ 10000000
Motion velocity		≤ 3.3 m/s
Traverse distance		5 m horizontal
Acceleration		≤ 10 m/s^2
Torsion cycles		≥ 10000000
Torsional stress		± 360 °/m

Electrical connection



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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	DIN VDE 0472 Part 15 (plastic) DIN EN 50267-2-1 (flue gas)
Chemical resistance	EN 60811-404: 168 h at 100° C
Specification	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)

Accessories

MH V1-SCREWDRIVER
torque screwdriver (0.6 Nm)

MH V1-BIT M12
plug-in cap M12

V1/V3-LABELHOLDER
Label holder

V1/V3-LABEL
Label plate

MH V1-Holder
Modular universal holder for M12 connectors

V1-MARKING-RING-BLUE
Marking ring for M12 plug

V1-MARKING-RING-GREEN
Marking ring for M12 plug

V1-MARKING-RING-ORANGE
Marking ring for M12 plug

V1-MARKING-RING-RED
Marking ring for M12 plug

V1-MARKING-RING-WHITE
Marking ring for M12 plug

V1-MARKING-RING-YELLOW
Marking ring for M12 plug

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