



Model Number

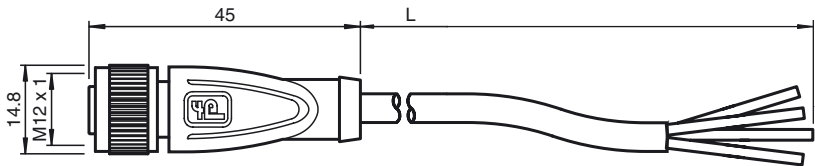
V1-G-BK10M-PUR-R1

Single-ended female cordset, M12, 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. 250 V AC/DC
Test voltage $> 1500 V_{eff}$ AC
Operating current I_B max. 4 A
Volume resistance $< 5 m\Omega$

Ambient conditions

Ambient temperature $-40 \dots 90 \text{ }^\circ\text{C}$ ($-40 \dots 194 \text{ }^\circ\text{F}$)
cable, fixed: $-40 \dots 80 \text{ }^\circ\text{C}$ ($-40 \dots 176 \text{ }^\circ\text{F}$)
cable, flexing: $-25 \dots 80 \text{ }^\circ\text{C}$ ($-13 \dots 176 \text{ }^\circ\text{F}$)
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 extra-fine wire, flexible
Sheath diameter $\varnothing 4.3 \text{ mm}$
Bending radius $> 10 \times$ cable diameter, moving
 $> 5 \times$ cable diameter, fixed
Color black (similar to RAL 7021)
Number of cores 4
Core cross-section 0.34 mm^2
Conductor construction $42 \times 0.1 \text{ mm } \varnothing$
Length L 10 m

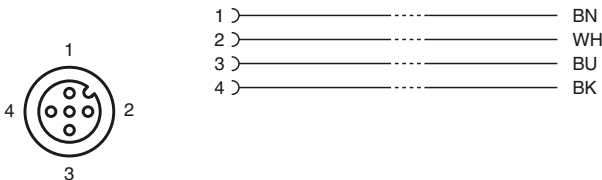
Drag chain suitability
Drag chain cycles ≥ 10000000
Motion velocity $\leq 3 \text{ m/s}$
Acceleration $\leq 10 \text{ m/s}^2$
Torsional stress $\pm 360 \text{ }^\circ/\text{m}$

Flammability
Contact carrier 94 HB
Housing 94 V-2
Cable FT2

Compliance with standards and directives

Standard conformity

Electrical connection



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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)

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