



Dimensions



Model Number

V1-G-BK5M-PUR-A-V1-G

Connection cable, M12 to M12, PUR cable, 4-pin

Features

- Improved resistance to weld slag
- Suitable for drag chains
- Suitable for robotic applications / torsion resistant
- Flame resistant cable
- Halogen-free
- Resistant to microbes and hydrolysis
- Free of paint coating substances
- Immunity to vibration, with mechanical latching
- Knurled nut suitable for tool assembly

Technical data

General specifications

Number of pins 4

Electrical specifications

Operating voltage U_B max. 250 V AC/DC
 Operating current I_B max. 4 A
 Volume resistance $< 5 \text{ m}\Omega$

Ambient conditions

Ambient temperature Body: $-40 \dots 90 \text{ }^\circ\text{C}$ ($-40 \dots 194 \text{ }^\circ\text{F}$)
 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

Material

Contacts CuSn / Au

Contact surface Au

Body TPU, black

Cable PUR

Slotted nut Diecast zinc

Sleeve connector Diecast zinc

Core insulation PP

Cable extra-fine wire, flexible

Sheath diameter $\text{\O} 4.3 \text{ mm}$

Bending radius $> 10 \text{ x cable diameter, moving}$
 $> 5 \text{ x cable diameter, fixed}$

Color black

Cores $4 \text{ x } 0.34 \text{ mm}^2$

Conductor construction $42 \text{ x } 0.1 \text{ mm } \text{\O}$

Length L 5 m

Drag chain suitability

Drag chain cycles ≥ 5000000 (at max. $60 \text{ }^\circ\text{C}$)

Motion velocity $\leq 3.3 \text{ m/s}$

Traverse distance 5 m horizontal

Acceleration $\leq 5 \text{ m/s}^2$

Torsion cycles ≥ 1000000 (at max. $60 \text{ }^\circ\text{C}$)

Torsional stress $\pm 180 \text{ }^\circ/\text{m}$

Flammability

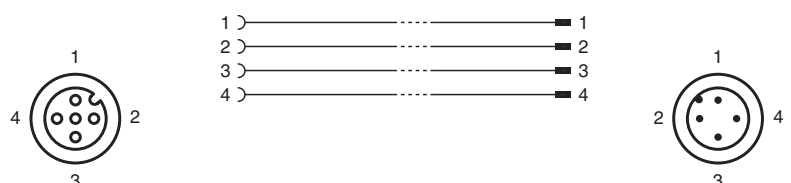
Contact material 94 HB

Housing 94 V-2

Cable FT2

Compliance with standards and directives

Electrical connection



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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	IEC 60754-1:1994

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