



Model Number

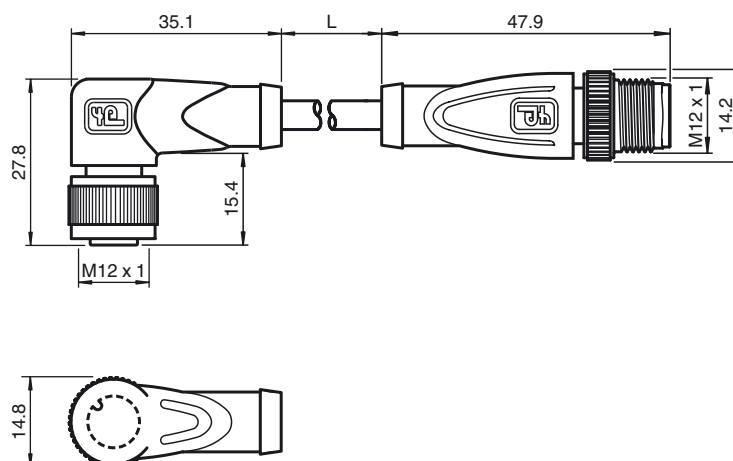
V1-W-BK30M-PUR-A-V1-G

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 from substances that impair paint wetting
- Immunity to vibration, with mechanical latching
- Knurled nut suitable for tool assembly

Dimensions



Technical data

General specifications

Number of pins	4
Connection 1	socket
Construction type 1	right angle
Threading 1	M12
Connection 2	Male connector
Construction type 2	straight
Threading 2	M12

Electrical specifications

Operating voltage	U_B	max. 250 V AC/DC
Operating current	I_B	max. 4 A
Volume resistance		< 5 m Ω

Ambient conditions

Ambient temperature	Body: -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

Material

Contacts	CuSn / Au
Contact surface	Au
Body	TPU, black
Cable	PUR resistant to weld spatter
Slotted nut	Diecast zinc
Sleeve connector	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

Number of cores

4

Core cross-section

0.34 mm²

Conductor construction

42 x 0.1 mm Ø

Length

L 30 m

Drag chain suitability

Drag chain cycles ≥ 5000000 (at max. 60 °C)

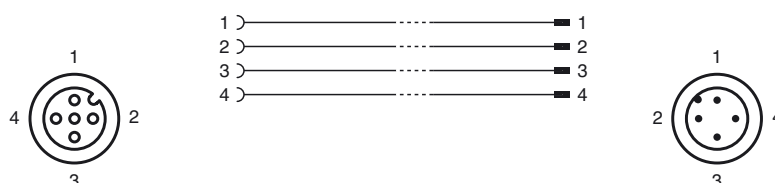
Motion velocity ≤ 3.3 m/s

Traverse distance 5 m horizontal

Acceleration ≤ 5 m/s²

Torsion cycles ≥ 1000000 (at max. 60 °C)

Electrical connection





Torsional stress	± 180 °/m
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	IEC 60754-1:1994