



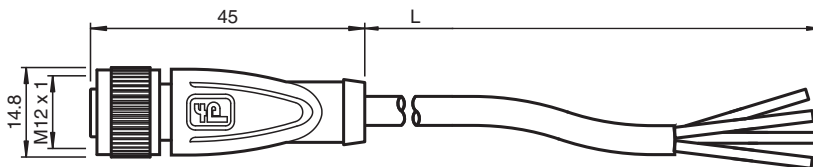
Female connector V1-G-BK20M-PUR-U

- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP67 / IP68 / IP69
- Free from substances that impair paint wetting
- Resistant to microbes and hydrolysis
- cURus approval
- UV resistant
- Halogen-free
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant



Dimensions



Technical Data

General specifications

Connector 1		
Connection		socket
Construction type		M12
Style		straight
Locking		screw connection
Number of pins		4
Coding		A-coded
Connector 2		
Connection		cable end
UL File Number		E231213

Electrical specifications

Operating voltage	U _B	max. 250 V AC/DC
Operating current	I _B	max. 4 A

Conformity

Degree of protection	EN 60529
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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 **PEPPERL+FUCHS**

Technical Data

Plug connection		connector M12 x 1 : IEC 61076-2-101
Flammability		UL 1581; DIN EN 60332-2-2
Halogen-free		IEC 60754-1
Approvals and certificates		
UL approval		AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable)
Ambient conditions		
Ambient temperature		
Plug connector		-40 ... 90 °C (-40 ... 194 °F)
Cable, fixed		-40 ... 80 °C (-40 ... 176 °F)
Cable, flexing		-20 ... 80 °C (-4 ... 176 °F)
Pollution degree		3
Mechanical specifications		
Plug connector		
Tightening torque		0.6 Nm
Loosening protection		available
Tool installation		straight knurling
Mating cycles		min. 100
Degree of protection		IP67 / IP68 / IP69
Cable		according to IEC/EN 60228 (DIN VDE 0295) class 6
Sheath diameter		4.3 mm
Bending radius		> 10 x cable diameter, moving > 5 x cable diameter, fixed
Sheath color		black (similar to RAL 9005)
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
Core construction		42 x 0.1 mm Ø
Length	L	20 m
Cable code		Li 9Y 11Y 4 x 0.34
Drag chain suitability		
Drag chain cycles		min. 5000000
Motion velocity		max. 3.3 m/s
Traverse distance		max. 5 m
Acceleration		max. 5 m/s ²
Torsion cycles		min. 1000000
Torsional stress		± 180 °/m
Material		
LABS free		yes
Halogen-free		yes
Plug connector		
Knurled screw connection		Zinc die-casting, nickel-plated
Body		TPU, black
Contact surface		Au
Flammability		V-2
Cable		
Sheathing		PUR based on polyether
Core insulation		PP
UV resistance		yes
Chemical resistance		good
Oil resistance		yes
Cooling lubricant resistance		yes

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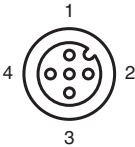
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Technical Data

Microbial resistance	yes
Hydrolysis resistance	yes
Flammability	FT2

Connection Assignment



1	BN
2	WH
3	BU
4	BK

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