



### Model Number

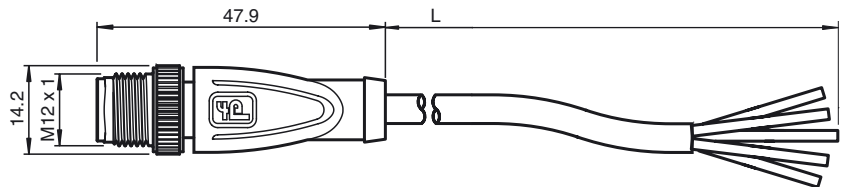
#### V15S-G-BK5M-PUR-U

Cable connector, M12, 5-pin, PUR cable

### Features

- Suitable for drag chains
- Suitable for robotic applications / torsion resistant
- Degree of protection IP67 / IP68 / IP69K
- Free from substances that impair paint wetting
- Resistant to microbes and hydrolysis
- UL Recognized Component
- Halogen-free
- Flame resistant cable
- Gold plated contacts
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

### Dimensions



### Technical data

#### General specifications

Number of pins	5
Connection 1	Male connector
Construction type 1	straight
Threading 1	M12
Connection 2	cable end
UL File Number	E231213

#### Electrical specifications

Operating voltage	$U_B$	max. 48 V AC / 60 V DC
Operating current	$I_B$	max. 4 A
Volume resistance		< 5 m $\Omega$
Contact resistance		< 10 m $\Omega$

#### 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
Pin diameter	1 mm
Degree of protection	IP67 / IP68 / IP69k
Cable code	Li 9Y 11Y 5 x 0.34
Material	
Contacts	CuSn / Au
Contact surface	Au
Body	TPU, black
Cable	PUR
Sleeve connector	Diecast zinc
Core insulation	PP
Cable	extra-fine wire, flexible
Sheath diameter	Ø4.8 mm
Bending radius	> 10 x cable diameter, moving > 5 x cable diameter, fixed
Color	black
Number of cores	5
Core cross-section	0.34 mm <sup>2</sup>
Conductor construction	42 x 0.1 mm Ø
Length	L 5 m
Drag chain suitability	
Drag chain cycles	≥ 5000000
Motion velocity	≤ 3.3 m/s
Traverse distance	5 m horizontal
Acceleration	≤ 5 m/s <sup>2</sup>
Torsion cycles	≥ 1000000

### Electrical connection



Torsional stress	± 180 °/m
Flammability	
Contact carrier	HB
Housing	V-2
Cable	FT2
<b>Compliance with standards and directives</b>	
Standard conformity	
Degree of protection	EN 60529:2000
Flammability	IEC 60332-1-2
Halogen-free	IEC 60754-1:1994
Specification	connector M12 x 1 : IEC 61076-2-101
<b>Approvals and certificates</b>	
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