



### Model Number

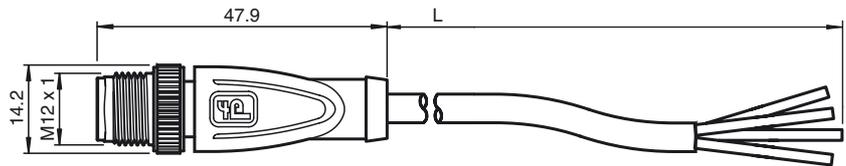
#### V1S-G-OR20M-PUR-A

Single-ended male cordset, M12, 4-pin, PUR cable, welding-bead resistant

### Features

- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Gold plated contacts
- Halogen-free
- Suitable for drag chains
- Flame resistant cable
- Suitable for robotic applications / torsion resistant
- Improved resistance to weld slag

### Dimensions



### Technical data

#### General specifications

Number of pins	4
Connection 1	Male connector
Construction type 1	straight
Threading 1	M12
Connection 2	cable end

#### Electrical specifications

Operating voltage	$U_B$	max. 250 V AC/DC
Operating current	$I_B$	max. 4 A

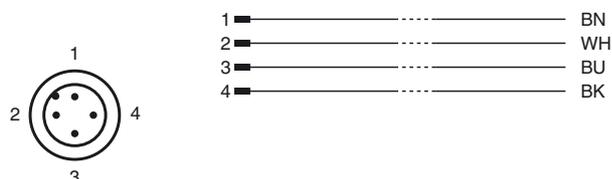
#### Ambient conditions

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 / IP68 / IP69k
Cable code	LiF9Y11Y 4 x 0.34 mm <sup>2</sup>
Material	
Contacts	CuSn / Au
Contact surface	Au
Body	TPU, black
Cable	PUR resistant to weld spatter
Sleeve connector	Diecast zinc
Core insulation	PP
Cable	extra-fine wire, flexible
Sheath diameter	Ø 4.3 mm
Bending radius	> 10 x cable diameter, moving > 5 x cable diameter, single bend
Color	orange
Number of cores	4
Core cross-section	0.34 mm <sup>2</sup>
Conductor construction	42 x 0.1 mm Ø
Length	L 20 m
Drag chain suitability	
Drag chain cycles	≥ 5000000
Motion velocity	≤ 3.3 m/s
Traverse distance	5 m
Acceleration	≤ 5 m/s <sup>2</sup>
Torsion cycles	≥ 1000000
Torsional stress	±180 °/m
Flammability	
Contact carrier	94 HB

### Electrical connection



Housing	94 V-2
Cable	FT2
<b>Compliance with standards and directives</b>	
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
<b>Approvals and certificates</b>	
UL approval	cURus AWM 20549 AWM I/II A/B 80°C 300V FT2

**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-CLIP**  
Unlocking protector for M12 connector

**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