

# Connection cable, shielded

## V1-G-BK1,5M-PUR-U5/ABG-V1-W



- Degree of protection IP68 / IP69
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable black, shielded, UL-approved



### 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			plug
Construction type			M12
Style			angled
Locking			screw connection
Number of pins			4
Coding			A-coded
Electrical specifications			
Operating voltage	U <sub>B</sub>		max. 48 V AC / 60 V DC
Operating current	I <sub>B</sub>		max. 4 A
Conformity			
Degree of protection			EN 60529
Plug connection			connector M12 x 1 : IEC 61076-2-101

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## Technical Data

Flammability	UL 1581; DIN EN 60332-2-2	
Halogen-free	DIN VDE 0472-815 / DIN EN 50267-2-1	
<b>Approvals and certificates</b>		
UL approval	AWM STYLE 21924/11558 105°C 300V AWM I A/B 105°C 300V FT2 (cable)	
UL File Number	E231213	
<b>Ambient conditions</b>		
Ambient temperature		
Plug connector	-40 ... 90 °C (-40 ... 194 °F)	
Cable, fixed	-50 ... 105 °C (-58 ... 221 °F)	
Cable, flexing	-30 ... 105 °C (-22 ... 221 °F)	
Pollution degree	3	
<b>Mechanical specifications</b>		
Plug connector		
Tightening torque	0.6 Nm	
Loosening protection	available	
Tool installation	straight knurling and hexagon nut SW = 14 mm	
Mating cycles	min. 100	
Shielding	shield connected to screw connection	
Degree of protection	IP68 / IP69	
Cable	according to IEC/EN 60228 (DIN VDE 0295) class 6	
Sheath diameter	6 mm	
Bending radius	> 10 x cable diameter, moving > 5 x cable diameter, fixed	
Sheath stripping force	max. 80 N / 300 mm	
Sheath color	black (similar to RAL 7021)	
Number of cores	4	
Core cross section	0.5 mm <sup>2</sup>	
Cores color	Core 1: brown Core 2: white Core 3: blue Core 4: black	
Core construction	28 x 0.15 mm Ø	
Shield	tinned copper braiding, 85 % coverage	
Length	L	1.5 m
Cable code	Li 9Y C11Y 4 x 0,50	
<b>Material</b>		
Halogen-free	yes	
Plug connector		
Screw connection	Zinc diecast, nickel-plated	
Body	TPU, black	
Seal	FKM	
Contact surface	gold plated (Au)	
Flammability	V-2	
Cable		
Sheathing	PUR based on polyether	
Core insulation	PP	
UV resistance	yes	
Microbial resistance	yes	
Hydrolysis resistance	yes	
Flammability	FT2	

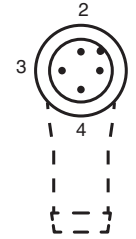
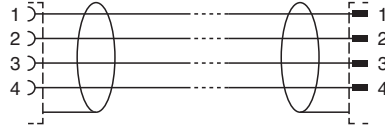
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## Connection



## Accessories

	<b>MH V1-SCREWDRIVER</b>	Torque screwdriver (0.6 Nm)
	<b>MH V1-BIT M12</b>	plug-in cap M12
	<b>V1/V3-LABELHOLDER</b>	Label holder
	<b>V1/V3-LABEL</b>	Label plate
	<b>MH V1-Holder</b>	Modular universal holder for M12 connectors
	<b>V1-CLIP</b>	Unlocking protector for M12 connector
	<b>V1-MARKING-RING-COLOR</b>	Marking rings for M12 connectors, various colors