



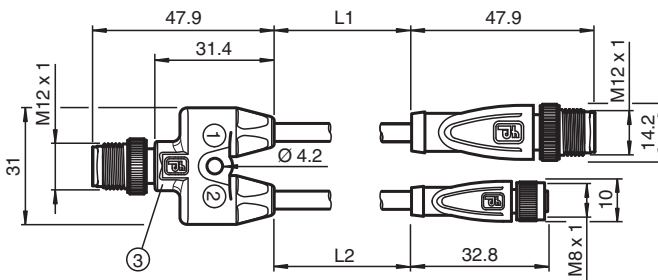
Y connection cable V31-GM-3M-PUR-T-V1S-Y203012

- Easy merging of two signals at a single M12 slot
- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- cURus approval
- Halogen-free
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Y connection cable M12 plug straight A-coded to M12 plug / M8 socket straight A-coded, 4-pin, 2x PUR cable black, UL approved, drag chain suitable, torsion resistant



Dimensions



Technical Data

General specifications

Connector 1	
Connection	plug
Construction type	M12
Style	straight
Locking	screw connection
Number of pins	4
Coding	A-coded
Connector 2	
Connection	socket
Construction type	M8
Style	straight
Locking	screw connection
Number of pins	4
Coding	A-coded
Connector 3	
Connection	plug
Construction type	M12
Style	straight
Locking	screw connection
Number of pins	4

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Technical Data

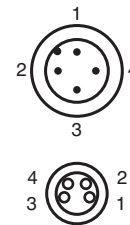
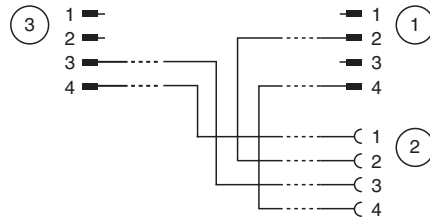
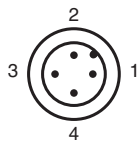
Coding	A-coded	
UL File Number	E231213	
Electrical specifications		
Operating voltage	U _B	max. 30 V AC/DC
Operating current	I _B	max. 3 A
Conformity		
Degree of protection	EN 60529	
Plug connection	connector M12 x 1 : IEC 61076-2-101 connector M8 x 1 : IEC 61076-2-104	
Flammability	UL 1581; DIN EN 60332-2-2	
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 installation	-40 ... 80 °C (-40 ... 176 °F)	
Cable, flexing	-20 ... 80 °C (-4 ... 176 °F)	
Pollution degree	3	
Mechanical specifications		
Connector 1		
Tightening torque	0.6 Nm	
Loosening protection	available	
Tool installation	straight knurling	
Mating cycles	min. 100	
Degree of protection	IP67 / IP68 / IP69	
Connector 2		
Tightening torque	0.4 Nm	
Loosening protection	available	
Tool installation	straight knurling	
Mating cycles	min. 100	
Degree of protection	IP67	
Connector 3		
Tightening torque	0.6 Nm	
Loosening protection	available	
Tool installation	straight knurling	
Mating cycles	min. 100	
Degree of protection	IP67 / IP68 / IP69	
Cable		
Sheath diameter	4.3 mm	
Bending radius	> 10 x cable diameter, movable installation > 5 x cable diameter, fixed installation	
Sheath stripping force	max. 80 N / 300 mm	
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	L1 = 0.35 m L2 = 3 m
Cable code	Li 9Y 11Y 4 x 0.34	
Drag chain suitability		

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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
Mass	112.24 g
Material	
PWIS free	yes
Halogen-free	yes
Plug connector	
Screw connection	Zinc diecast, 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
Microbial resistance	yes
Hydrolysis resistance	yes
Flammability	FT2

Connection



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