



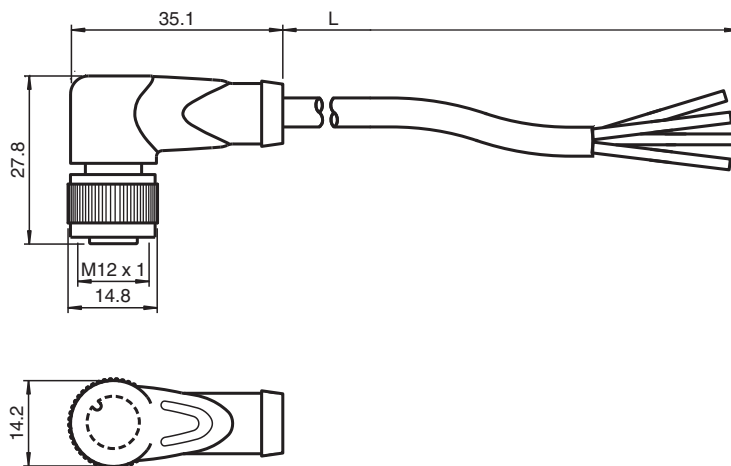
Female connector V1-W-E8-BK20M-PUR-U

- 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
- Built-in LED, as operating and function indicator
- 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 angled A-coded, LED 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	right angle
Locking	screw connection
Number of pins	4
Coding	A-coded
Connector 2	
Connection	cable end
UL File Number	E231213

Indicators/operating means

LED green	Operating display
LED yellow	Functional display pin 4
LED red	Functional display pin 2

Technical Data

Electrical specifications

Operating voltage	U _B	max. 24 V DC -20 % / +25 %
Operating current	I _B	max. 4 A

Conformity

Degree of protection	EN 60529
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)
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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, transparent
Contact surface	Au
Flammability	V-2
Cable	
Sheathing	PUR based on polyether

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Technical Data

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 Assignment

