



Model Number

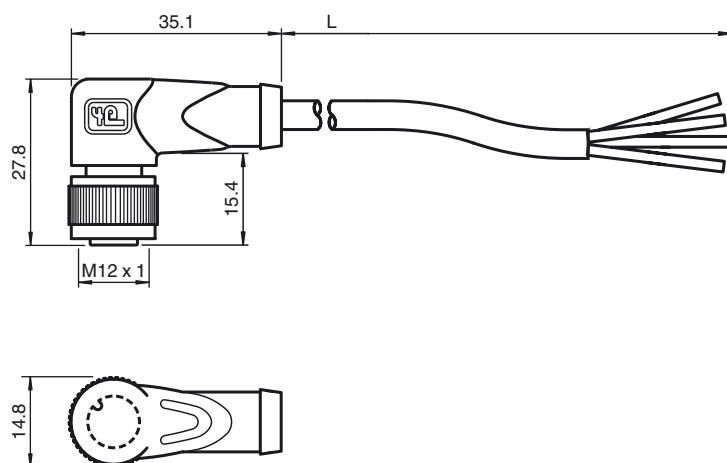
V1-W-E8-BK*M-PUR-R1

Single-ended female cordset, M12, LED, PUR cable, 4-pin, robotics

Features

- Highly flexible - suitable for robotics
- Optimized for drag chains
- High torsionable
- Degree of protection IP67 / IP68 / IP69K
- Free from substances that impair paint wetting
- Built-in LED, as operating and function indicator
- Resistant to microbes and hydrolysis
- Raw cable with cURus approval
- Halogen-free
- Flame resistant cable
- Gold plated contacts
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Cable length according to specification

Dimensions



Technical data

General specifications

Number of pins	4
Connection 1	socket
Construction type 1	right angle
Threading 1	M12
Connection 2	cable end

Indicators/operating means

LED green	Operating display
LED yellow	Functional display Normally closed/normally open pin 4
LED red	Functional display Normally closed/normally open pin 2

Electrical specifications

Operating voltage	U_B	max. 24 V DC -20 % / +25 %
Operating current	I_B	max. 4 A

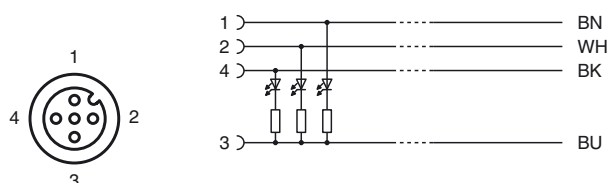
Ambient conditions

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
Degree of protection	IP67 / IP68 / IP69K
Cable code	LiF9Y 11Y
Material	
Contacts	CuSn / Au
Contact surface	Au
Body	TPU, transparent
Cable	PUR
Slotted nut	Diecast zinc
Core insulation	PP
Cable	according to IEC/EN 60228 (DIN VDE 0295) class 6
Sheath diameter	Ø 4.3 mm
Bending radius	> 10 x cable diameter, moving > 5 x cable diameter, fixed
Color	black
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
Conductor construction	42 x 0.1 mm Ø
Length	L as per specification
Drag chain suitability	
Drag chain cycles	≥ 10000000
Motion velocity	≤ 3.3 m/s

Electrical connection





Traverse distance	5 m horizontal
Acceleration	$\leq 10 \text{ m/s}^2$
Torsion cycles	≥ 10000000
Torsional stress	$\pm 360 \text{ }^\circ/\text{m}$
Flammability	
Contact carrier	HB
Housing	V-2
Cable	FT2
Compliance with standards and directives	
Standard conformity	
Degree of protection	EN 60529
Flammability	IEC 60332-1-2
Halogen-free	DIN VDE 0472 Part 15 (plastic) DIN EN 50267-2-1 (flue gas)
Chemical resistance	EN 60811-404: 168 h at 100° C
Specification	connector M12 x 1 : IEC 61076-2-101
Approvals and certificates	
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