

# Sensor Cables and Connectors

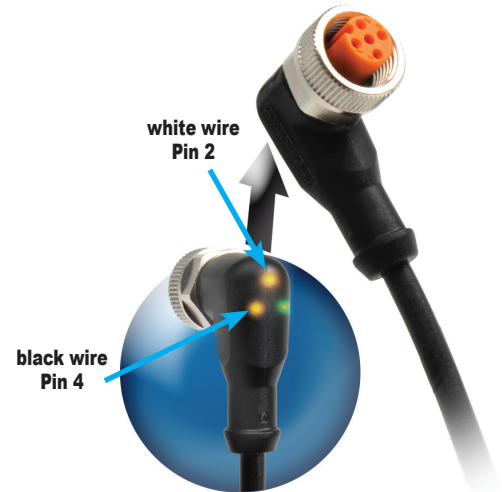
## M12 Cables with LED and quick-disconnect plugs

- Industry standard M12 right angle female plug with open leads
- Cables can be used with patch cables.
- 2m, 5m and 10m cable lengths
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 /IP68 / IP69K, II rated
- LED indication for 10–36 VDC PNP sensors only

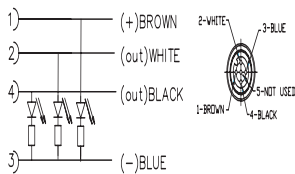
### M12 Quick-Disconnect Cables with LED Indicator (Euro, Micro DC-Single Key)

Part Number	Price	Length	Poles	Connector	LED	Jacket
<b>EVC178*</b>		2m [6.5 ft]	4	Right-angle female	Yes	PUR
<b>EVC179*</b>		5m [16.4 ft]	4	Right-angle female	Yes	PUR
<b>EVC180*</b>		10m [32.8 ft]	4	Right-angle female	Yes	PUR

\*Note: LED for 10–36 VDC PNP devices only.  
 Do not use with NPN or analog output devices.  
 Do not use when white wire (Pin 2) is used for selection of a sensor function.  
 Do not use when emitter has check function.

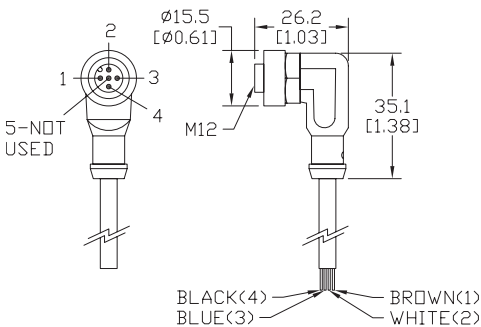


## Wiring



## Dimensions

mm [inches]



## Specifications

<b>Length</b>	2m [6.5 ft] / 5m [16.4 ft] / 10m [32.8 ft]	
<b>Nominal Voltage</b>	10–36 VDC	
<b>Max Current</b>	4A	
<b>LED Current Loading</b>	10V input Brown wire LED: 1.7 mA White and/or Black LED: 0.9 mA	36V input Brown wire LED: 7.3 mA White and/or Black LED: 4.7 mA
<b>Protection Degree</b>	IP67 / IP68 / IP69K	
<b>Material Nut</b>	Nickel plated Brass	
<b>Jacket Material</b>	Polyurethane (PUR)	
<b>Housing Material</b>	Polyurethane (PUR)	
<b>Contacts Material</b>	Gold plated Brass	
<b>Tightening Torque</b>	0.6 to 1.5 N·m	
<b>Conductors Cross Section</b>	4 x 0.34 mm <sup>2</sup> [4 x 22 AWG]	
<b>Ø Outer Cable</b>	5mm	
<b>Temperature Range</b>	-25 to +90°C [-13 to 194°F]	
<b>Function Display Power LED</b>	Green	
<b>Switching Status LED</b>	2 x Yellow	
<b>Drag Chain (Roller Cable Tray) Suitability</b>	<b>Bending Radius</b>	min. 10 x cable diameter
	<b>Bending Cycles</b>	> 5 million
	<b>Travel Speed</b>	Max. 3.3 m/s for a horizontal travel length of 5m and max. acceleration of 5 m/s <sup>2</sup>
	<b>Torsional Strain</b>	±180°/m
<b>Agency Approvals</b>	UL File E191684, RoHS	

## UL Reference

<b>EVC178</b>	ADOAH043MSS0002H04
<b>EVC179</b>	ADOAH043MSS0005H04
<b>EVC180</b>	ADOAH043MSS0010H04

Note: Shown in UL file under Mini-series Female Cord Connectors using catalog number