

# Sensor Cables and Connectors

## M12 Cables with LED and quick-disconnect plugs

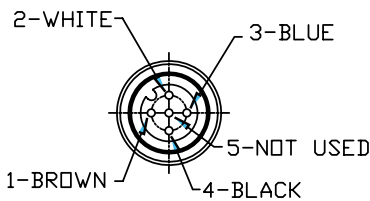
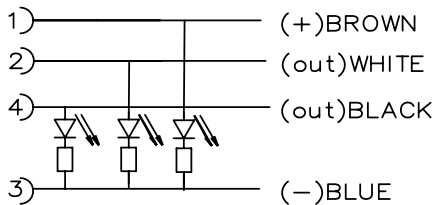
- Industry standard M12 right angle femaleplug with open leads
- These cables can be used with patch cables.
- 2m, 5m and 10m cable lengths
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 /IP68 / IP69K, II rated
- LED indication for 10-36 VDC PNP sensors only

M12 Quick-Disconnect Cables with LED Indicator (Euro, Micro DC-Single Key)						
Part Number	Price	Length	Poles	Connector	LED	Jacket
<b>EVC178*</b>	\$11.50	2m [6.5 ft]	4	Right-angle female	Yes	PUR
<b>EVC179*</b>	\$12.00	5m [16.4 ft]	4	Right-angle female	Yes	PUR
<b>EVC180*</b>	\$14.50	10m [32.8 ft]	4	Right-angle female	Yes	PUR

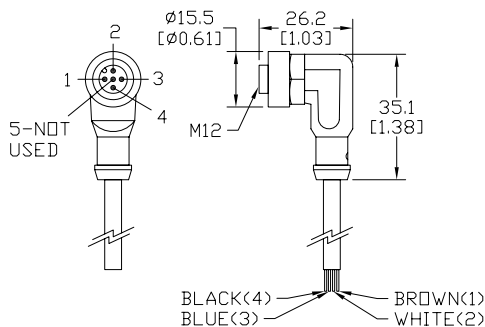
*\*Note: LED for 10 to 36 VDC PNP devices only.  
Do not use with NPN or analog output devices.  
Do not use when white wire (Pin 2) is used for selection of a sensor function.  
Do not use when emitter has check function.*



### Wiring



### Dimensions mm [in]



Specifications		
<b>Length</b>	2m [6.5 ft] / 5m [16.4 ft] / 10m [32.8 ft]	
<b>Nominal Voltage</b>	10 to 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*