USB 3.0 Hybrid Active Optical



F-AOC-B3PMBT-xx-PA

Industrial High Flex Hybrid AO USB 3.0 -

Product Outline

USB 3.0 technology allows for high data rates, but it is quite limited in its effective cable length. Intercon's new Hybrid Active Optical (AO) assembly breaks through the cable length barrier and provides a rugged, high flex solution for those applications where a high flex, long distance solution is needed.

Also unique to our product is the inclusion of a copper conductor to provide power to the device. Traditional AO cables consist only of glass or plastic fibers. The Intercon AO cable is a hybrid that contains both copper and fiber allowing for both power and data transmission over extended distances. In addition, this AO solution is designed for high flex robotic applications, specifically rolling (C-Track) applications. It's unique design utilizes specialized materials developed for the most demanding applications. The thumbscrew locking feature insures a secure robust connection to the device.



Features

- Supports high data rate transfers up to 5 Gbps
- Robotic Grade High Flex
- Thumbscrew locking
- EMI resistant
- No separate power required

Cable Specifications			
Overall Diameter	4.8 mm		
Operating / Storage Temperature	0°C to 50°C / -20°C to 70°C		
Jacket Color	Black		
Minimum Bend Radius (Dynamic/Static)	50 mm / 20 mm		
Device side voltage	Max 5 volts		
Device side current	900 mA (05m / 10m /15m) / 600 mA (20 m)		

Flex Test Parameters			
Bend Radius	50 mm		
Travel Distance	2000 mm		
Cycles per minute	6 (back and forth = 1 cycle)		
Cycles achieved	5 million +		

Primary Components		
Cable	Hybrid (Combination of Fiber and Copper)	
Connector A	USB 3.0 Type Micro B Plug w / Thumbscrews	
Connector B	USB 3.0 Type A Plug	

Ordering Information

Length						
Part Number	Meters	Feet	Description			
F-AOC-B3PMBT-5.0-PA	Meters 5	16.4	USB 3.0 Micro B w/Thumbscrews to 3.0 A			
	5					
F-AOC-B3PMBT-10-PA	10	32.8	USB 3.0 Micro B w/Thumbscrews to 3.0 A			
F-AOC-B3PMBT-15-PA	15	49.2	USB 3.0 Micro B w/Thumbscrews to 3.0 A			
F-AOC-B3PMBT-20-PA	20	64.8	USB 3.0 Micro B w/Thumbscrews to 3.0 A			

*Note: Cable assembly is not backwards compatible to USB 2.0

Custom variations available. Please contact customer service for additional information. Intercon 1 by Nortech – 12136 Crystal Lake Road – Merrifield, MN USA 56465 P 218.828.3157 - Toll Free in US 800.237.9576 - FAX 218.828.1096 - <u>intercon@nortechsys.com</u>



