SC-UMM Series USB 3.0 Active Optical Cables

Features

- Low power consumption, no external power supply needed
- Thinner, lighter, and softer than the normal copper cable
- Supports Windows operating systems
- Extends USB 3.0 super speed devices up to 100m
- Supports all USB 3.0 device types at Host: control, interrupt, bulk and isochronous at up to 5 Gbps
- Operates with USB 3.0 super speed host controllers
- Number of devices can be increased using additional hubs
- Plug & Play no driver required
- RF screening to prevent interference

Overview

The SC-UMM Series USB 3.0 Active Optical Cable (AOC) is a USB 3.0 electrical to optical conversion module.

This product can translate signals between USB 3.0 electrical and optical signals. AOC is a cabling technology that accepts the same electrical inputs as a traditional copper cable but uses optical fiber "between the connectors".

AOC uses electrical to optical conversion on the cable ends to improve speed and distance performance of the cable without sacrificing compatibility with standard electrical interface. USB3.0 AOC can extend the transmission distance of USB3.0 transmission to more than 100 meters. AOC offers a quick solution to supply longer cable for USB3.0application.

Specifications

Cable Diameter	4.5mm
Bend Radius (Dynamic/Static)	40mm/20mm
Tensile Strength @ Long term	100N
Tensile Strength @ Short term	200N
Crush Resistance @ Long term	200N
Crush Resistance @ Short term	400N
Cable configuration	2*Fiber + 2*cooper + PVC Jacket
Fiber Module	50/125 um
Transducer	850nm VCSEL/PIN
Working current	≤45mA
Power Consumption	≤250mw
Range	Up to 100m
Connectors	USB 3.0 Standard-A Male to A Male plug
Total Bandwidth	5.0 Gbps
Operating Temperature Range	0~50 degrees centigrade
Operating Humidity Range	10%-90% non-condensing
Storage Temperature Range	-20~70 degrees centigrade
Storage Humidity Range	10%~90% non-condensing
Warranty	2 years

Models

Part Number	Description
SC-UMM-A10	10m USB3.0 AOC, Male to Male, 5Gbps, USB2.0 not supported
SC-UMM-A15	15m USB3.0 AOC, Male to Male, 5Gbps, USB2.0 not supported
SC-UMM-A20	20m USB3.0 AOC, Male to Male, 5Gbps, USB2.0 not supported
SC-UMM-A25	25m USB3.0 AOC, Male to Male, 5Gbps, USB2.0 not supported
SC-UMM-A30	30m USB3.0 AOC, Male to Male, 5Gbps, USB2.0 not supported
SC-UMM-A40	40m USB3.0 AOC, Male to Male, 5Gbps, USB2.0 not supported
SC-UMM-A50	50m USB3.0 AOC, Male to Male, 5Gbps, USB2.0 not supported