

SC-UFM 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
- Compatible with USB 2.0 at USB female side
- Supports Windows operating systems
- Extends USB 3.0 & USB 2.0 super speed devices up to 50 m
- 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
- A substantial increase in USB2.0 device bandwidth with unique technology
- Plug & Play no driver required
- RF screening to prevent interference

Overview

The SC-UFM 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”. Ordinary USB3.0 active fiber cable’s defect that cannot supply power to device. AOC offer a quick solution to supply longer cable for USB3.0 application. The USB fiber cable length can be up to 50m with USB 3.0 version and downward compatible with USB 2.0 at USB Female Side. Chip technology can realize mutual conversion between USB3.0 and USB2.0 protocols on remote side device, to enable USB2.0 equipment to share the super speed bandwidth (5Gbps) of USB3.0.

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 50m
Connectors	USB 3.0 Standard-A Female 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-UFM-A10	10m USB3.0 AOC, Female to Male, 5Gbps, Compatible with USB2.0
SC-UFM-A15	15m USB3.0 AOC, Female to Male, 5Gbps, Compatible with USB2.0
SC-UFM-A20	20m USB3.0 AOC, Female to Male, 5Gbps, Compatible with USB2.0
SC-UFM-A25	25m USB3.0 AOC, Female to Male, 5Gbps, Compatible with USB2.0
SC-UFM-A30	30m USB3.0 AOC, Female to Male, 5Gbps, Compatible with USB2.0
SC-UFM-A40	40m USB3.0 AOC, Female to Male, 5Gbps, Compatible with USB2.0
SC-UFM-A50	50m USB3.0 AOC, Female to Male, 5Gbps, Compatible with USB2.0