

iFiber

USB3.1 Gen 2 & DP 1.4 Hybrid Type-C Active Optical Cable

Model: iFiber AOC-USB-CCDV





Descriptions

With no external power needed, its built-in active circuitry is powered by both ends of the cable, eliminating external power supply costs. With power delivery of up to 60 watts, the next-gen AOC supports various voltage profiles up to 20 Volts at 3 Amps and is thus able to charge a wide range of devices. With a strong zinc alloy metal shell, the attractive gold-plated contacts maintain a long-lasting, reliable electrical connection. The next-gen cable is conveniently backwards compatible with previous USB standards and also works with Thunderbolt devices (With DP Alt Mode) and is available in 3, 5, 7, and 10 meter (33 feet) lengths, with support available for extra customization.

Key Features

- Support USB 3.1 Gen2
- Support USB 2.0 high speed and full speed
- Support 2-lane DP 1.4
- Plug and play without driver dependent
- High reliability
- Thinner, lighter and softer than conventional copper cable
- Highly resistant to EMI and RFI
- USB 3.2 Gen 2 compliant with SuperSpeed+ transfer rates up to 10 Gbps
- USB-C compliance with DisplayPort 1.4 Alternate Mode (DP Alt Mode) for resolutions up to 8K@60Hz on supported devices and displays



- Supports pass-through of EDID and HDCP-encrypted signals.
- Ultra-flexible, ultra-thin 0.25" (6.5 mm) diameter cable — a narrow bend radius facilitates easier installation and reduces the possibility of cable damage.
- Bidirectional USB power flow — when connected to USB devices that support USB PD (Power Delivery), power flows both ways, enabling both host and peripheral devices to provide power to the far-end device.
- Supports USB Power Delivery (PD) and Quick Charge™ (QC) up to 60 W, 20V 3A
Charges a USB-C powered device such as a notebook, Macbook Pro® or tablet from a USB-C PD wall charger or powerbank
- Highly resistant to EMI/RFI Interference, the USB C full function (Data + Video + PD) can be used in high-interference environments, such as data centers and manufacturing facilities
- USB-C male to USB-C male for connecting a USB-C device to a USB-C port
- Bi-directional design, can be plugged in both directions
- Overcomes the USB-C distance limitation for power, data, and video at a range up to 10m without signal loss
- #Available in 3, 5, 7, and 10 meters lengths

Applications

- Digital Signage
- LED signboards in streets and in stadiums
- Medical Imaging Equipment

- Airplane On-board Video System
- Home Theater
- Blue-ray, 3D video, Projector, Set-up box, DVR, Game Consoles and Computer
- TV Broadcast Station
- Conference Room Video Equipment
- Security systems

Absolute Maximum Rating

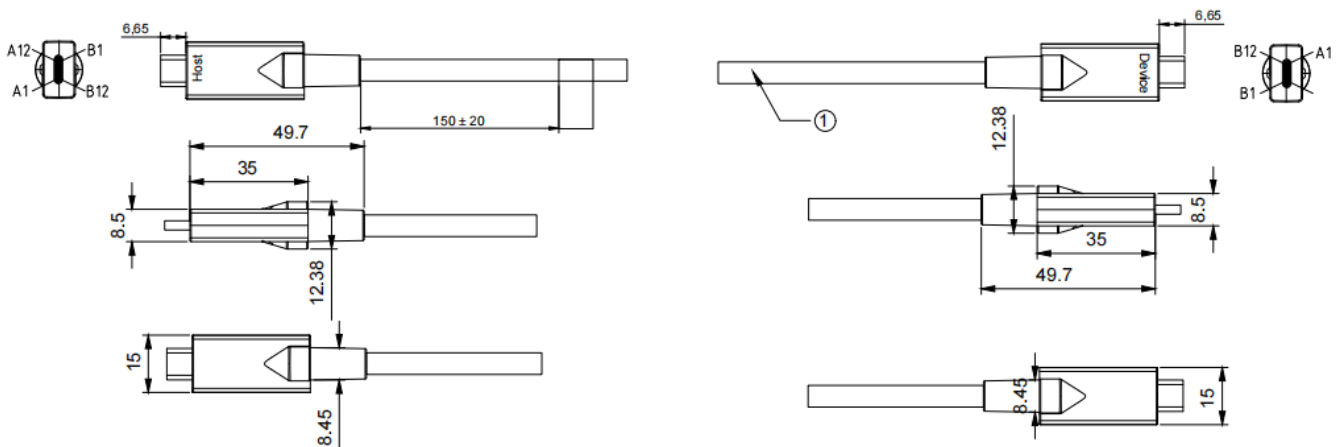
Parameter	Symbol	Min	Max	Unit
Power Supply Voltage	VCC	3.0	5.5	V
Operating Temperature	Top	0	50	°C
Storage Temperature	Ts	-40	70	°C
Relative Humidity	Hs	10	80	%RH

Specifications

Item	Description
Cable Length	Up to 10m
Interface	USB type-C plug – USB type-C plug
Bandwidth	U3:10Gbps; U2: 480Mbps; DP1.4 16.2Gbps
Power Delivery	PD3.0, 20V 3A
Power Supply	By Vconn(3.0 V to 5.5V)

Power Consumption (TYP.)	1100mW (5V input)
Cable Outer Diameter	6.5mm
Jacket Outer Material	PVC
Cable Filler	Kevlar
Cable Weight	See packing details sheet
Cable Color	Black or custom
Bend Radius	100D
Tensile Strength	200N

Cable Wire:



Ordering Information

Part Number	Description
AOC-USB-CCDV-03	USB3.1 Gen2 & DP1.4 Hybrid Type-C AOC, Length 3m
AOC-USB-CCDV-05	USB3.1 Gen2 & DP1.4 Hybrid Type-C AOC, Length 5m
AOC-USB-CCDV-07	USB3.1 Gen2 & DP1.4 Hybrid Type-C AOC, Length 7m
AOC-USB-CCDV-10	USB3.1 Gen2 & DP1.4 Hybrid Type-C AOC, Length 10m

Packing Details:



Inner Box

Outer Carton

Packing Details Sheet:

Item No.	Length(m)	Box Size(mm)	CTN Size(cm)	PCS/CTN	N.W. (KG/Box)	N.W. (KG)/CTN	G.W. (KG)/CTN

AOC-USB- CCDV-03	3	225*225* 39	46.5*42.5*2 6.5	20	0.3	6	7
AOC-USB- CCDV-05	5	225*225* 39	46.5*42.5*2 6.5	20	0.43	8.6	9.6
AOC-USB- CCDV-07	7	225*225* 39	46.5*42.5*2 6.5	20	0.48	11.6	12.6
AOC-USB- CCDV-10	10	225*225* 39	46.5*42.5*2 6.5	20	0.74	14.8	15.8