MS-USBC-DVXX BC

M Solutions

USB 3.1 Gen2 & DP1.4 Hybrid Type-C
and Charging AOC

Description:

MSolutions USB type-C active optical cable (AOC) using optical fiber to replace copper wire as the high-speed signal transmission medium, it can perfectly transmit USB2.0, USB3.1 Gen2, 2-lane DP1.4 data with excellent signal quality, and provides up to 20V 3A power on USB3.0 data channel. Compared with the traditional copper wire, it is softer, slimmer, lighter and with perfect EMI/EMC feature. It also has better reliability performance than copper wire.

Key Features:

- Support USB 3.1 Gen2
- Support USB 2.0 high speed and full speed
- Support 2-lane DP 1.4
- Provides up to 20V 3A power on USB3.0 data channel

- Plug and play without driver dependent
- High reliability
- Thinner, lighter and softer than conventional copper cable
- Highly resistant to EMI and RFI

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

Technical Specifications:

Interface:	USB type-C plug – USB type-C plug
Bandwidth:	USB 3.1: 10Gbps, USB 2.0: 480Mbps; DP1.4 16.2Gbps
Power Delivery:	PD3.0, 20V 3A (60W)
Power Supply:	Internally consumes by Vconn (3.0 V to 5.5V)
Power Consumption (TYP.):	1100mW (5V input)
Cable Outer Diameter:	6.5mm
Jacket Outer Material:	CMP (Plenum-rated)
Cable Filler:	Kevlar
Cable Weight:	See packing details sheet
Cable Color:	Black or custom
Bend Radius:	10OD
Tensile Strength:	200N
Available in lengths:	5m, 10m, 15m (Custom lengths available on request)

Ordering Information:

5m length	MS-USBC-DV05-BC
10m length	MS-USBC-DV10-BC
15m length	MS-USBC-DV15-BC
Custom lengths available on request	