USB-C 3.2 Gen2 Full Function AOC CABLE

WNCC-FF Series

USB3.2 Gen2x1 Type-C Full Functional Active Optical Cable

WAVENET WNCC-FF-XX Series 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 USB2.0/1.1, USB3.2 Gen2 and 2-lane DP1.4 with excellent signal quality. Compared with the traditional copper wire, it is softer, slimmer, lighter and with perfect EMI/EMC feature. And it also has better reliability performance than copper wire.
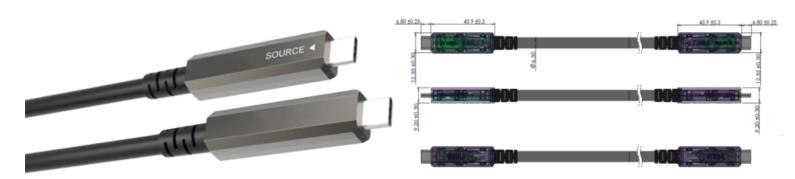
Features

- Support USB 3.2 Gen2x1 10Gbps
- Support USB 2.0/1.1 high speed and full speed
- Support DP 1.4, 4K@60Hz and 16.2Gbps
- Plug and play without driver dependent
- Highly resistant to EMI and RFI
- Support PD 60W (20V/3A)
- Support max length up to 15m
- Specially Designed for IFP's

Application

- Digital Signage,
- LED signboards in streets and in stadiums
- Medical Imaging Equipment
- Airplane On-board Video System
- Home Theater, Blue-ray, 3D videos, Projector, Set-up box, DVR, Game Consoles and Computer
- TV Broadcast Station
- Conference Room Video Equipment
- Security systems

Drawing

Technical Specification

Item	Description
Cable Length	Up to 15m
Interface	USB type-C plug – USB type-C plug
Bandwidth	U3:10Gbps; U2：480Mbps；DP1.4 16.2Gbps
Power Delivery	PD60W, 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	10OD
Tensile Strength	200N

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Power Supply Voltage	VCC	3	5.5	V
Operating Temperature	Top	0	50	°C
Storage Temperature	Ts	-40	70	°C
Relative Humidity	Hs	10	80	%RH

Ordering Information

Part Number	Description
WNCC-FF-003	WAVENET USB3.2 Gen2x1 Type C (10G Data + 4K Video + PD 60W) AOC, Length 3m
WNCC-FF-005	WAVENET USB3.2 Gen2x1 Type C (10G Data + 4K Video + PD 60W) AOC, Length 5m
WNCC-FF-010	WAVENET USB3.2 Gen2x1 Type C (10G Data + 4K Video + PD 60W) AOC, Length 10m
WNCC-FF-015	WAVENET USB3.2 Gen2x1 Type C (10G Data + 4K Video + PD 60W) AOC, Length 15m