

TECHNICAL SPECIFICATION

USBCA20



Description: USB Type-C active optical cable, supports audio/video/data/charge, lengths up to 49 ft

Why Use This Product: This full-featured Type-C AOC active optical cable offers adaptive support for 4 lane DP 1.4 + USB 2.0 or 2 lane DP 1.4 + USB 3.2 10G up to 49 ft. Utilizing fiber optic technology for high-speed signal transmission and copper wire for low-speed signal transmission and power supply, this cable solves the problem of traditional copper wire not being able to transmit signals over long distances.

Key Features

- USB 3.2 Gen 2 Type-C (10 Gbps)
- Backward Compatible with USB 2.0/1.1
- Full-Featured (Audio/Video/Data/Charge Support)
- Automatic Mode Switching Between:
 - 4-Lane DP 1.4 + USB 2.0 (480 Mbps)
 - 2-Lane DP 1.4 + USB 3.2 (10 Gbps)
- Supports DP Alt Mode at 4K 144Hz/120Hz and 8K 60Hz
- Supports 100W PD + Fast Charging
- Supports cable lengths of up to 15m (49ft)
- Supports Touch Screen Operation
- Fiber Optic + Copper Hybrid Cable
- E-Mark Chip Ensures Stable Current and Reliability
- Adaptive DP Alt Mode Switching (Plug and Play)
- No External Power Needed



USB-C 3.2 Gen 2 (10G) Active Optical Cable Non-Plenum

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Technical Specifications

USB Version.....USB 3.2 Gen 2
USB Transfer Rate.....10 Gbps
DP Transfer Rate.....Supports 4 Lane DP 1.4 or 2 Lane DP 1.4
Max Video Resolution.....4 Lane DP 1.4: 8K 60Hz / 4K 144Hz, 2 Lane DP 1.4: 4K 60Hz
Wave Length.....850nm
Available Cable Lengths.....25ft, 33ft, 49ft
ESD Protection.....IEC 61000-4-2: ± 8kV (Air-Gap Discharge) & ± 4kV (Contact Discharge)

Connection Specifications

Input.....1x Source (USB Type-C, Male)
Output.....1x Display (USB Type-C, Male)

Mechanical Specifications

Outer Diameter.....6.5mm
Cable Color.....Black
Conductor.....Optical Fiber + Tinned Copper
Chip.....Optoelectronic Conversion Chip
Jacket.....PVC
Connector Casing.....Metal Enclosure
Connector Color.....Nickel-Plated
Power Supply.....Metal Enclosure
Working Voltage.....5V ± 0.25
Charge Power.....Supports Fast Charging PD 3.0 20V / 5A (5m at 90W, 10m / 15m at 85W)
Operation Temperature.....0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature.....-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity.....20% ~ 80% (Relative Humidity, Non-Condensing)
Storage Humidity.....10% ~ 90% (Relative Humidity, Non-Condensing)

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