

8K USB-C Active Optical Cable, 10 Gbps and 100 W PD, 3 m

AOC Fiber with USB-C Male to Male, SuperSpeed+ USB 3.2 Gen 2, 8K@60Hz / 4K@144Hz, Supports up to 100 W Power Delivery, Double Shielding, Black

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Full-Featured USB-C Cable, 3m, for Long-Distance Audio/Video, Data, and Power

Extend full-featured USB-C connectivity beyond the practical limits of conventional copper cabling. This active optical cable from Manhattan combines optical fiber for high-speed signal transmission with copper conductors for power and low-speed signals, delivering video, data, and USB-C Power Delivery over a single connection. The hybrid construction also helps reduce cable weight and diameter while providing strong resistance to electromagnetic and radio-frequency interference.

Video in up to 8K60 and 4K144 via DisplayPort Alt Mode

Connect compatible USB-C source devices directly to monitors, TVs, projectors, and other USB-C displays with support for DisplayPort Alternate Mode. In 4-lane DP 2.1 mode, the cable supports resolutions up to 8K@60Hz or 4K@144Hz, making it suitable for high-resolution presentation, digital signage, pro-AV, home-theater, and other demanding display applications. In 2-lane DP 1.4 mode, it supports video up to 4K@60Hz while leaving bandwidth available for high-speed USB data.

SuperSpeed+ USB Data with Automatic Mode Switching

The cable automatically adapts between two operating modes according to the connected devices. Four-lane DP 2.1 mode combines maximum video performance with USB 2.0 data, while two-lane DP 1.4 mode enables USB 3.2 Gen 2 transfers at up to 10 Gbps alongside 4K@60Hz video. This flexibility makes one cable suitable for applications ranging from display-only connections to setups involving cameras, storage devices, touch displays, and other USB peripherals.

USB-C Power Delivery for Clean, Flexible Installations

Alongside video and data, the cable supports USB-C Power Delivery with up to 100 W input and up to 90 W charging power. An integrated E-Marker chip supports reliable power handling, while the active optical electronics require no separate external power supply. The directional Source and Display connectors simplify correct installation, making the cable well suited to conference rooms and other professional installations where devices need to be positioned farther apart without adding extra signal or power cabling.

Features:

- USB-C male to male for connecting a Type-C device to a Type-C port over longer distances without signal loss
- USB-C DisplayPort Alt Mode support for digital audio and video with up to 8K@60Hz or 4K@144Hz via 4-lane DP 2.1 and up to 4K@60Hz via 2-lane DP 1.4
- USB data transfer at up to 10 Gbps via USB 3.2 Gen 2 in 2-lane DP 1.4 mode or up to 480 Mbps via USB 2.0 in 4-lane DP 2.1 mode
- Supports up to 100 W USB-C Power Delivery (PD) input with up to 90 W charging power
- Long-range USB-C connectivity for flexible conference-room setups, allowing optimal placement of cameras, speakerphones, displays, and BYOD devices
- Fiber and copper-wire hybrid for a more flexible cable with sleek USB-C connector, great for in-wall installations and narrow spaces
- Connects compatible USB-C laptops, smartphones, cameras, and external storage devices to monitors, TVs, projectors, VR headsets, and other supported USB-C devices
- Ideal for pro-AV, VR, home theater, medical, security, digital signage, broadcast, and commercial video installations
- Foil and braid double shielding to reduce EMI and other interference sources
- Plug-and-play installation; no configuration and no external power supply required
- Automatically switches between 4-lane DP 2.1 + USB 2.0 and 2-lane DP 1.4 + USB 3.2 Gen 2 modes based on the connected

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devices
- Compatible with Windows, macOS, Android, iOS, Chrome OS, iPadOS, and Linux
- Integrated E-Marker chip for reliable USB-C Power Delivery
- ESD protection up to 8 kV (air) and 4 kV (contact)
- Uni-directional design for data and video with plugs marked Source and Display
- Three-year warranty

Specifications:

Standards and Certifications
• CE
• RoHS
• REACH
• UKCA
• USB 3.2 Gen 2
• PD 3.0

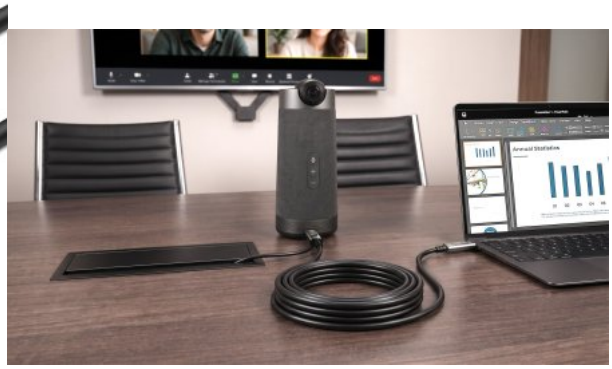
General
• Connectors: two USB-C 24-pin males
• Connector housing: zinc alloy
• Pins: nickel-plated
• Double shielding: braid and aluminum
• Wire: optical fiber + tinned copper
• Wavelength: 850 nm
• Optical fiber: 6 × 50/125 µm
• Conductor resistance: 93 Ohm/km max.
• Jacket: PVC
• Boot: molded PVC with strain relief
• Maximum pulling force: 10 kg
• Max. data transfer speed: 10 Gbps
• Max. resolution: 8K (7680 × 4320) at 60 Hz, 4K (3840 x 2160) at 144 Hz in 4-lane DP 2.1 mode, up to 4K@60Hz in 2-lane DP 1.4 mode
• Length: 3 m
• Outer diameter (OD): 6.5 mm
• Net weight: 250 g
• Gross weight: 377 g

Electrical
• Working voltage: 5 V ±0.25 V
• USB-C PD input/output: 100.0 W max. input (20.0 V / 5.0 A); 90.0 W max. output

Environmental
• Operating temperature: 0 to 40°C
• Storage temperature: -20 to 60°C
• Operating humidity (non-condensing): 20 to 80% RH
• Storage humidity (non-condensing): 10 to 90% RH

Package Contents
• USB 3.2 Gen 2 Type-C Active Optical Cable, 8K@60Hz / 4K@144Hz, 10 Gbps, 100W PD input





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