



18G HDMI® Active Optical Cable with 4K/60Hz - 50m

HDMI AOC w/18 Gbps bandwidth & 4:4:4 Sampling

MPN: CBL-AOC50M4K



Active Optical Cable (AOC)

is a cabling technology that accepts same electrical inputs as a traditional copper cable, but uses optical fiber between the connectors to extend HDMI signals with zero loss or latency. The KanexPro AOC 30 meter (98 feet) HDMI 2.0 cables with Ethernet are designed with premium craftsmanship to deliver UltraHD with a super bandwidth of 18 Gbps.

These latest specs from HDMI deliver uncompressed 4K resolutions with 32 audio channels for a multi-dimensional immersive audio and up to 1536 kHz sample frequency to attain highest audio fidelity. It supports sub-sampling rates of 4:4:4, 4:2:2 & 4:2:0 YUV with deep color and HDR can be achieved when integrated with compatible HDMI 2.0 devices. This AOC cable is resistant to EMI and RFI interference providing you with noise-free video and audio with less copper and more fiber optic. The cable gets its power via USB which can be connected near the display or to a flat-panel which uses USB port to get its power.

FEATURES

- HDMI® AOC- Active optical cable
- Premium video quality up to 4096x2160p/50Hz or 60Hz
- Bandwidth up to 18Gbps (6Gbps per channel)
- Color Sub-sampling of 4:4:4, 4:2:2, 4:2:0 with Deep Color & HDR
- Integrated USB connector draws power from the display
- EMI/RF free for clear signal transmission
- Up to 32 audio channels for a multi-dimensional immersive audio
- Up to 1536kHz audio sample frequency for the highest audio fidelity
- Support for the wide angle theatrical 21:9 video aspect ratio
- Dynamic synchronization of video and audio streams
- Supports CEC extensions
- Low power consumption
- Supports 3D and 4Kx2K
- Support color depths to 48 bits
- HDCP compliant
- Available in lengths of 30m, 50m and 100m

SPECIFICATIONS

HDMI Standards: High speed HDMI with Ethernet

HDMI Cable Type & Specifications:

- Connector Type: HDMI Type Male/A
- Hybrid optical cable with OM3 fiber and copper wire
- HDMI version: 2.0
- HDMI output to display requires power: via 1.5m USB cable
- Input Impedance: 100 ohms
- Supports resolutions up to: 4K@24/30/50/60Hz & 1080p/60 & 3D
- PC resolutions: WUXGA 1920x1200,
- HDTV: 480p, 720p, 1080i & 1080p/60 & 3D formats
- Color sub-sampling supported (4:4:4, 4:2:2, 4:2:0), Deep Color, and HDR

General characteristics:

- Bandwidth: 18 Gbps
- Color Depth Support: 30 bit, 36 bit and 48 bits with HDR support
- Vertical Frequency: Supports 60Hz & 120Hz DC-Coupled inputs and outputs
- HDMI Power consumption: 0.2 Watts
- Differential Input: 100 ohms
- Regulatory Compliance: CE, FCC compliant

Environmental:

- Operating Temperature: 0°C to 50°C (32°F to 122°F)
- Storage Temperature: -20°C to 70°C (-4°F to 158°F)

Shielding & Protection:

- Jacket outer material: PVC/TPU (custom)
- Triple-layer shielding for EMI/RFI rejection
- 28 AWG copper wire construction

Dimensions:

- Color: Black
- Connector Style: Straight
- Height: 0.4 in (10 mm)
- Length: 164 ft., (50 meters)
- Width: 0.8 in (20 mm)
- Weight: 2.4 lb. (1.1 kg)
- Shipping (Package) Weight: 3 lb. (1.4 kg)
- HDMI Cable Outer Diameter: 0.16" (4.2mm)

NOTICE

Side labeled "Tx" should be connected to the source. Side labeled "Rx" should be connected to the sink (display).