

DATA SHEET



High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated

Extend HDMI signals over optical cable and support the latest HDMI features including 4K at 60Hz, 3D video, and Deep Color

OVERVIEW

These High Speed HDMI Active Optical Cables (AOC) support HDMI 2.0 features and are the perfect solution for extending HDMI over longer distances, beyond the maximum reliable length limitation. These cables are ideal for experiencing resolutions up to 4K (4096 x 2160 at 60Hz, 4:4:4), bandwidths up to 18Gbps, HDR for higher contrast ratios and vivid colors, plus 32 uncompressed digital audio channels to provide crystal-clear sound — making them perfect for classrooms, conference rooms, healthcare facilities, houses of worship and other commercial environments.

AOC technology performs similar to traditional copper cabling. The optical fiber construction between the connectors provides optimum performance and easy installation. The cable diameter is smaller than copper and more flexible which makes for easier installations in tight spaces. They have been designed for enhanced video experiences with higher resolutions, increased speeds, sharper images and are backward compatible with previous HDMI specifications for existing HDMI devices.

Constructed from fiber strands, these cables reduce the risk of EMI/RFI, so performance is stable when used in typically high interference environments such as data centers, surgical theaters or manufacturing facilities where high resolution and consistent display are critical. The AOC draws power from the HDMI source device, so no external power source is required. Gripping connectors ensure that your most critical equipment maintains signal and limits the chance that the cable could be accidentally disconnected causing detrimental downtime. The plenum rating allows these cables to be routed through plenum air space above dropped ceilings or under raised floors.

Combine the AOC with wall plates for a clean, professional connectivity solution that can be used with projectors in classrooms, conference rooms or training rooms.

FEATURES

- Supports resolutions up to 4K (3840 x 2160 at 60Hz, 4:4:4)
- Data speeds up to 18Gbps
- Supports High Dynamic Range (HDR)
- Supports 12-bit Deep Color
- Supports up to 32 audio channels and a 1536kHz audio sampling rate
- Supports 3D
- No external power required
- CEC, EDID, and HDCP compatible
- Gripping connectors
- Plenum rated jacket
- Cable pull strength of 112 Pound-force for 10 minutes, 56 Pound-force for 30 minutes
- Connector pull strength of 22 Pound-force

ITEM DESCRIPTION

41450	15ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated
41451	25ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated
41452	35ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated
41453	50ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated
41454	75ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated
41455	100ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated
41456	125ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated
41457	150ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated
41458	200ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated
41459	250ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated
41460	300ft High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated

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SPECIFICATIONS:

High Speed HDMI Active Optical Cable (AOC) 4K 60Hz - Plenum Rated

SIGNAL SPECIFICATIONS:

- Output Video: HDMI 2.0
- Signal Bandwidth: 18.2Gbps
- Resolution: Up to 4K@60HZ

ELECTRICAL SPECIFICATIONS:

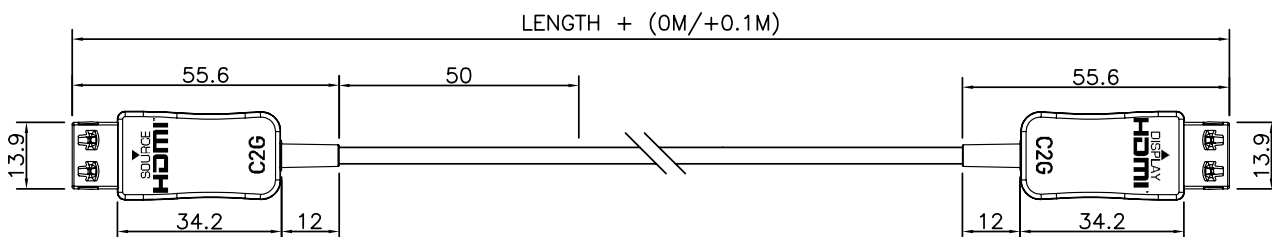
- Contact Current Rating: 0.5A Min.
- Voltage Rating: 40V AC (rms)
- Withstanding Voltage: 300VAC for 1 minute
- Insulation Resistance: 100 MegaOHM Min.
- Contact Resistance: 30 MilliOHMS Max.
- Supply Voltage: 5V
- Operation Current (4K/60Hz): 148mA Max.
- Power Consumption (4K/60Hz): 0.74W Max.
- Differential Data Input Voltage: 400 to 1,600mV
- Differential Data Output Voltage: 200 to 400mV

PHYSICAL SPECIFICATIONS:

- Operating Temperature: 0°C to +50°C
- Operating Humidity: 85% RH (no condensation)
- Storage Temperature: -30°C to +70°C
- Storage Humidity: 85% RH (no condensation)

PHYSICAL CHARACTERISTICS:

- Input: HDMI Male Type A 19pin
- Output: HDMI Male Type A 19pin
- Connector Housing Material: ABS (Acrylonitrile Butadiene Styrene)
- Connector Housing Material: Black
- Bulk Cable Outer Diameter: 3.4mm ± 0.2mm
- Bulk Cable Construction: 4 x OM2 Glass Optical Fiber
- Bulk Cable Construction: 6 x 28AWG Insulated Copper Wire
- Glass Optical Fiber Specification: Core Diameter: 50um
- Glass Optical Fiber Specification: Cladding Diameter: 125um
- Glass Optical Fiber Specification: Attenuation: < 3.0dB/km at 850nm
- Glass Optical Fiber Specification: Overfilled Launch Bandwidth: 500MHz.km at 850nm
- Insulated Copper Wire Specification: Copper Wire: 28 AWG TA (Solid 0.32mm)
- Insulated Copper Wire Specification: Insulation Diameter: Nom. 0.7mm
- Insulated Copper Wire Specification: Insulation Material: PVC
- Insulated Copper Wire Specification: Mutual Capacitance: 80 pF/m at 1KHz
- Outer Jacket Strength Member: Aramid Yarns
- Outer Jacket Material: PVC
- Outer Jacket Thickness: 0.45mm
- Outer Jacket Color: Black
- Minimum Bend Radius: 6mm
- Cable Marking: High Speed Optical Cable CMP-OF Plenum 28AWG C(UL)US E491769 xxxM XXYZZ
- Cable Jacket Rating: CMP-OF/CMP/FT6/CL-3P/CL-2P/CMR/CL3R/CL2R/CMG/FT4/CL3/CL2/CMX/CL3X/CL2X



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