

DL-AOCHP-***M Technical Specifications

Plenum High-Speed HDMI Active Optical Cable

Rev. 140520

The DL-AOCHP-***M extends HDCP compliant HDMI signals via an extremely flexible, plenum rated, polymer optical hybrid cable assembly. Utilizing active circuitry in the permanent HDMI connectors, HDMI signals with video resolutions up to 1080p60 deep color (6.75Gbps) can be transmitted on fixed length cables ranging from 10 meters up to 70 meters. The HDMI to optical conversion circuits only draw 0.07 watts of power, which is provided by pin 18 of the HDMI ports on the connected devices.

Since this is a hybrid fiber optic cable, the DL-AOCHP is immune to electromagnetic (EM) and radio frequency (RF) interference, which could degrade signal performance, and the signals on the cable will not interfere with other sensitive electronic equipment. The fiber optic cable diameter does not increase with cable length which is not the case with traditional copper HDMI cable solutions. The copper components allow the Hot Plug Detect feature to be used in conjunction with auto functioning switches.

This cable does require power from the HDMI receptacle. If plugged into passive junctions like a pass through HDMI wall plate or panel connector, the associated patch cable on the opposite side must be 2 meters or less in length. Longer lengths may cause insufficient power to be available to the DL-AOCHP HDMI connectors.

Key Features:

- Immunity to EMI and RFI Interference
- Plenum Rated
- Deep Color, 3D, 1080p60 Video
- Multichannel Audio
- No external power required
- Ultra small diameter
- Passes Hot Plug Detect



Technical Specifications	
I/O Connections	
HDMI	Male HDMI Type A connector
Supported Audio and Video	
Maximum Video Compatibility	Deep Color 48 Bit at 1080p, 3D
Video Compliance	HDMI, HDCP, and CEC (Consumer Electronics Control)
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
Maximum Bandwidth	6.75 Gbps
Cable Construction	
HDMI Connector Material	Molded ABS
HDMI Connector Dimensions	12.86 mm x 19.6 mm x 34 mm (0.51 in. x 0.77 in. x 1.34 in.)
Fiber Jacket Material	Plenum Rated PVC
Cable Construction	Hybrid POF (Plastic Optical Fiber) and Copper
Overall Cable Diameter	5 mm
Minimum Bend Radius	5 mm
Maximum Tensile Load	10 kg (22 lbs.)
Environmental Requirements	
Operating Temperature	0° to +50° C (+32° to +122° F)
Operating Humidity	20% to 85%, Non-condensing
Storage Temperature	-30° to +50° C (-22° to +122° F)
Storage Humidity	20% to 85%, Non-condensing
Power and Regulatory	
Power Supply	Via HDMI pin 18
Power Consumption	0.07 watts
Regulatory	NEC rated CMP-OF, CEC rated CMP, RoHS Compliant
Other	
Warranty	2 years

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Part Numbers	Part Description	Cable Length
DL-AOCHP-010M	HDMI PLENUM POF AOC 10M	10 meters / 32 feet
DL-AOCHP-015M	HDMI PLENUM POF AOC 15M	15 meters / 50 feet
DL-AOCHP-020M	HDMI PLENUM POF AOC 20M	20 meters / 65 feet
DL-AOCHP-023M	HDMI PLENUM POF AOC 23M	23 meters / 75 feet
DL-AOCHP-030M	HDMI PLENUM POF AOC 30M	30 meters / 98 feet
DL-AOCHP-050M	HDMI PLENUM POF AOC 50M	50 meters / 164 feet
DL-AOCHP-060M	HDMI PLENUM POF AOC 60M	60 meters / 196 feet