

HALO-HCP**M Technical Specifications

Plenum High-Speed HDMI® Active Optical Cable

Rev. 211019

The HALO-HCP***M extends HDCP compliant HDMI® signals via a flexible, plenum rated, Active Optical hybrid cable assembly. Utilizing active circuitry in the permanent HDMI connectors, HDMI signals with video resolutions up to 4K@60Hz (18.0Gbps) can be transmitted on fixed length cables ranging from 5 meters up to 30 meters.

As a hybrid fiber optic cable, the HALO-HCP 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 copper components inside this cable offer ultralow capacitance for better EDID/DDC communications than other HDMI AOC cables on the market. This will address and remove interoperability issues.

Liberty's new Space themed lines offer new features carried across the lines. The HALO-HCP series offer Liberty's High Retention L-Grip feature for retention 3 times the normal standard. The heads are printed with the cable bandwidth and the cable length for ease of identification. The HALO-HCP series offer the Orbit ID rings in each package so an installer can color code the connectivity.

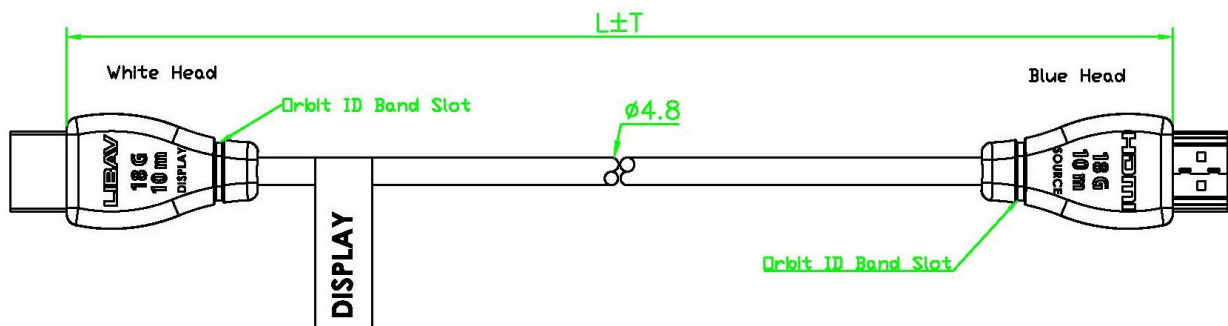
The HALO-HCP series is a directional cable and we have marked it 3 times to prevent plugging it in backwards. The heads are different colors, the heads are marked Source and Display, and a big yellow label on the Display side round out our markings to prevent backward connection

Key Features:

- 4K60 4:4:4 18Gbps Bandwidth
- Immunity to EMI/RFI
- Plenum rated small diameter
- High Retention HDMI plugs
- No external power needed
- Low-Capacitance Design

Key Applications:

- HDMI Extension and Routing
- Digital Signage
- Projector HDMI feed
- Boardroom, Collaboration
- Education



Technical Specifications	
I/O Connections	
HDMI	Male HDMI Type A connector with High Retention Tabs
Supported Audio and Video	
Maximum Video Compatibility	HDMI 2.0b 4K@60Hz 4:4:4 Chroma (2160p) 1080p 3D, 21:9 (True cinema), Multi stream video and audio, deep color x.v.Color™
Video Compliance	HDMI 2.0, HDCP 2.3, HDR
Embedded Audio	All HDMI supported Audio Formats
HEAC Support	No, does not support Ethernet or eARC
CEC Support	Yes
Maximum Bandwidth	18.0 Gbps
Cable Construction	
HDMI Hood Material	Molded ABS
HDMI Hood Dimensions	33.3mm x 20mm x 9.0mm 1.31 x 0.79 x 0.35 inch
Fiber Jacket Material	Plenum Rated PVC Alloy
Cable Construction	Hybrid GOF (Glass Optical Fiber) + 4C low cap + 2C + 1C tinned copper
Overall Cable Diameter	4.8 mm 0.189 inch
Minimum Bend Radius	Unloaded: 48 mm 1.89in, Loaded: 96mm 3.78in
Maximum Tensile Load	20 kg 44 lbs
Environmental Requirements	
Operating Temperature	0° to 75° C (+32° to +140° F)
Operating Humidity	20% to 85%, Non-condensing
Storage Temperature	-30° to 75° C (-22° to +122° F)
Storage Humidity	20% to 85%, Non-condensing
Power and Regulatory	
Power Supply	HDMI BUS power from pin 18 of the source and sink
Regulatory	NEC® rated CMP-OF, CEC rated CMP FT6, RoHS Compliant
Other	
Warranty	3 years

Part Numbers	Part Description	Cable Length
HALO-HCP05M	ACTIVE OPTICAL HDMI CABLE 5M	5 meters / 16 feet
HALO-HCP08M	ACTIVE OPTICAL HDMI CABLE 8M	8 meters / 25 feet
HALO-HCP10M	ACTIVE OPTICAL HDMI CABLE 10M	10 meters / 33 feet
HALO-HCP15M	ACTIVE OPTICAL HDMI CABLE 15M	15 meters / 50 feet
HALO-HCP20M	ACTIVE OPTICAL HDMI CABLE 20M	20 meters / 66 feet
HALO-HCP23M	ACTIVE OPTICAL HDMI CABLE 23M	23 meters / 75 feet
HALO-HCP30M	ACTIVE OPTICAL HDMI CABLE 30M	30 meters / 98 feet

Liberty Wire & Cable specifications are subject to change without notice. Contact an account representative for current product specifications. Liberty Wire & Cable continuously strives to ensure product specifications are accurate and complete. All physical specifications are nominal.

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HDMI® is a registered trademark of HDMI, LLC