

DL-PHDM-M-***M Technical Specifications

Plenum High-Speed HDMI® Active Optical Cable
Rev. 180222

The DL-PHDM-M-***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 10 meters up to 100 meters.

As a hybrid fiber optic cable, the DL-PHDM-M 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 allow the Hot Plug Detect feature to be used in conjunction with auto functioning switches.

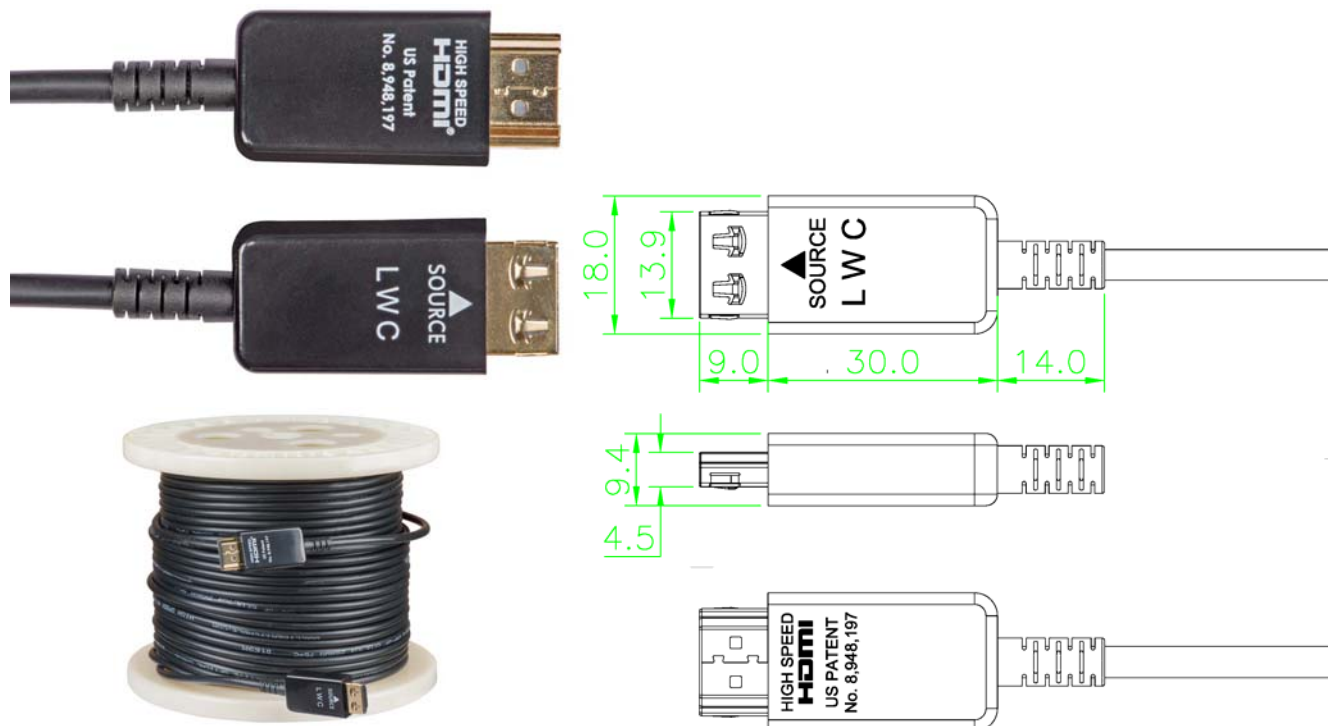
This cable offers high retention HDMI connectors. These connectors will provide 3 times the retention strength of standard HDMI cables. For best practices, if this cable is plugged into a passive junction like a pass through HDMI wall plate or panel connector, the associated patch cable on the opposite side must be 2 meters or less in length and of sufficient AWG size. Liberty recommends at least 28 AWG for wall to plate patching. If the patching cable is an active cable, a power inserter must be used on the wall plate to provide power for both the active patching cable and the DL-PHDM-M-***M cable. Use of a longer length passive cable may cause insufficient power to be available to the DL-PHDM-M HDMI transceivers.

Key Features:

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

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 2.2, HDR
Embedded Audio	Dolby True HD, DTS-HD Master Audio
HEAC Support	No Ethernet, does support Audio Return Channel (ARC)
CEC Support	Yes
Maximum Bandwidth	18.0 Gbps
Cable Construction	
HDMI Hood Material	Molded ABS
HDMI Hood Dimensions	30mm x 18mm x 9.40mm. Strain relief is 14.0mm
Fiber Jacket Material	Plenum Rated PVC Alloy
Cable Construction	Hybrid GOF (Glass Optical Fiber) and Copper
Overall Cable Diameter	4.0 mm
Minimum Bend Radius	Unloaded: 40 mm, Loaded: 80mm
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	2 years

Part Numbers	Part Description	Cable Length
DL-PHDM-M-008M	ACTIVE OPTICAL HDMI CABLE 8M	8 meters / 25 feet
DL-PHDM-M-010M	ACTIVE OPTICAL HDMI CABLE 10M	10 meters / 33 feet
DL-PHDM-M-015M	ACTIVE OPTICAL HDMI CABLE 15M	15 meters / 50 feet
DL-PHDM-M-023M	ACTIVE OPTICAL HDMI CABLE 23M	23 meters / 75 feet
DL-PHDM-M-030M	ACTIVE OPTICAL HDMI CABLE 30M	30 meters / 98 feet
DL-PHDM-M-050M	ACTIVE OPTICAL HDMI CABLE 50M	50 meters / 165 feet
DL-PHDM-M-060M	ACTIVE OPTICAL HDMI CABLE 60M	60 meters / 200 feet
DL-PHDM-M-100M	ACTIVE OPTICAL HDMI CABLE 100M	100 meters / 328 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