

COMET-H**M Technical Specifications

High-Speed HDMI® with Ethernet Copper Cable

Rev. 220117

The COMET-H**M Active series is lengths ½ meter through 5 meters. These are passive and non-directional. Liberty's COMET series are our less feature rich offering for mass deployments and economical connectivity with quality.

The COMET-H series is designed to obtain the smallest diameter applicable for the signal and retain the bandwidth. The overall cable is dual shielded with a full coverage foil shield and a 65% coverage dual weave braid shield. Unlike many cables on the market, the connectors feature full shielding over the solder joints instead of drain wire under a pre-mold. These cables are fully shielded from connector shroud to connector shroud.

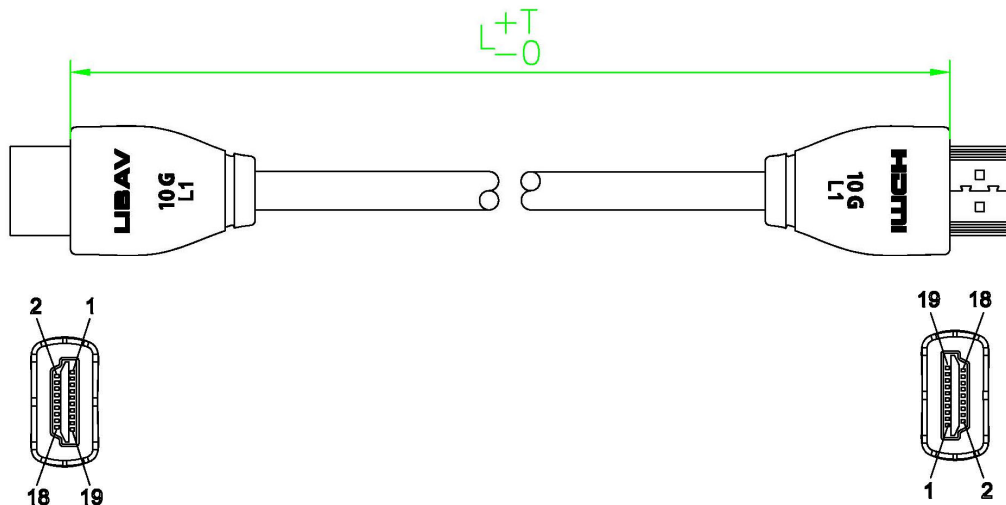
Liberty's new Space themed lines offer new features carried across the lines. The COMET-H series does not offer the high retention L-Grip or include the Orbit ID rings. The heads can accept Orbit ID rings as the mold includes the slot. This series does offer the heads printed with the cable bandwidth and the cable length for ease of identification. This is a simple cable featuring real copper conductors and triple shielding.

Key Features:

- 4K30 4:4:4 10.2Gbps Bandwidth
- Annealed Bare Copper Conductor
- Solid Core TMDS Conductors
- Economy in a respectable cable

Key Applications:

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



Note: The COMET series offers multiple AWG sizes depending on length and bandwidth. A separate Technical Specification table and part number listing is listed in the following pages based on the differing cable sizes. The pages are set up as stand-alone for ease of extract.

COMET-H00.5M to COMET-H03M

Technical Specifications – 0.5 to 3-meter lengths 30 AWG	
I/O Connections	
HDMI	Male HDMI Type A connector with Nickel-Plated Shroud and Gold Flash contacts
Supported Audio and Video	
Maximum Video Compatibility	HDMI 1.4x 4K@30Hz 4:4:4 Chroma and 4K@60Hz 4:2:0 Chroma
Video Compliance	HDMI 1.4x, HDCP 2.3
Embedded Audio	All HDMI supported Audio Formats
HEAC Support	Yes, supports Ethernet and eARC
CEC Support	Yes
Maximum Bandwidth	10.2 Gbps
Cable Construction	
HDMI Hood Material	Molded Black PVC
HDMI Hood Dimensions	29.0mm x 20.3mm x 10.4mm 1.14 x 0.80 x 0.41 inch
Jacket Material	Lead Free Polyvinyl Chloride (PVC)
Cable Construction	Solid Core Annealed Copper TMDS Pairs: 30AWG/5PSH + Stranded 30AWG/4C
Overall Cable Diameter	6.0 mm 0.236 inch
Minimum Bend Radius	Unloaded: 60 mm 2.36in, Loaded: 120mm 4.72in
Shielding	100% Aluminum Foil + 65% 16x9/12 AL-MG Dual Braid shield with 30AWG drain
Maximum Tensile Load	Lead Free Polyvinyl Chloride (PVC)
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
Regulatory	
Regulatory	UL AWM 20276, RoHS Compliant, REACH Compliant, CE
CA Prop 65 Warning	https://secure.libertycable.com/california-proposition-65
Other	
Warranty	Limited Lifetime Warranty
TAA	TAA Compliant – Made in Taiwan
Package	Re-sealable Retail bag

Part Number listing for COMET 30 AWG Cables

Part Numbers	Part Description	Cable Length	Bulk Pack P/N (Quantity)
COMET-H00.5M	COMET 10G HDMI CBL BLK 0.5M	0.5 meters / 1.5 feet	COMET-H00.5MBP (35)
COMET-H01M	COMET 10G HDMI CBL BLK 1.0M	1.0 meters / 3 feet	COMET-H01MBP (30)
COMET-H01.5M	COMET 10G HDMI CBL BLK 1.5M	1.5 meters / 5 feet	COMET-H01.5MBP (25)
COMET-H02M	COMET 10G HDMI CBL BLK 2.0M	2.0 meters / 6 feet	COMET-H02MBP (20)
COMET-H02.5M	COMET 10G HDMI CBL BLK 2.5M	2.5 meters / 8 feet	No
COMET-H03M	COMET 10G HDMI CBL BLK 3.0M	3.0 meters / 10 feet	No

COMET-H04M to COMET-H05M

Technical Specifications – 4.0 to 5.0 meter lengths 28 AWG	
I/O Connections	
HDMI	Male HDMI Type A connector with Nickel-Plated Shroud and Gold Flash contacts
Supported Audio and Video	
Maximum Video Compatibility	HDMI 1.4x 4K@30Hz 4:4:4 Chroma and 4K@60Hz 4:2:0 Chroma
Video Compliance	HDMI 1.4x, HDCP 2.3
Embedded Audio	All HDMI supported Audio Formats
HEAC Support	Yes, supports Ethernet and eARC
CEC Support	Yes
Maximum Bandwidth	10.2 Gbps
Cable Construction	
HDMI Hood Material	Molded Black PVC
HDMI Hood Dimensions	29.0mm x 20.3mm x 10.4mm 1.14 x 0.80 x 0.41 inch
Jacket Material	Lead Free Polyvinyl Chloride (PVC)
Cable Construction	Solid Core Annealed Copper TMDS Pairs: 28AWG/5PSH + Stranded 28AWG/4C
Overall Cable Diameter	7.3 mm 0.287 inch
Minimum Bend Radius	Unloaded: 73 mm 2.87in, Loaded: 146mm 5.74in
Shielding	100% Aluminum Foil + 65% AL-MG Dual Braid shield
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
Regulatory	
Regulatory	UL AWM 20276, RoHS Compliant, REACH Compliant, CE
CA Prop 65 Warning	https://secure.libertycable.com/california-proposition-65
Other	
Warranty	Limited Lifetime Warranty
TAA	TAA Compliant – Made in Taiwan
Package	Re-sealable Retail bag

Part Number listing for COMET 28 AWG Cables

Part Numbers	Part Description	Cable Length	Bulk Pack P/N (Quantity)
COMET-H04M	COMET 10G HDMI CBL BLK 4.0M	4.0 meters / 13 feet	No
COMET-H05M	COMET 10G HDMI CBL BLK 5.0M	5.0 meters / 16 feet	No

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.

NEC® is a registered trademark of the National Fire Protection Agency (NFPA)

HDMI® is a registered trademark of HDMI, LLC