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PRODUCT MANUAL Model: HBT2-C6BPOC-SET





HDMI HDBaseT CAT5/6/7 Extender Set with Bi-directional/IR/RS-23/PoC

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SECTION I: GETTING STARTED

I.I IMPORTANT SAFEGUARDS

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

Avenview warranty certificate please refer to page #14

Warranty does not include:-

- Any product on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
- Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
- Repair or attempted repair by anyone not authorized by us.
- Any damage of the product due to shipment.
- Removal or installation of the product.
- Causes external to the product, such as electric power fluctuation or failure.
- Use of supplies or parts not meeting our specifications.
- Normal wear and tear.
- Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

I.2 SAFETY GUIDELINES

The HBT2-C6BPOC-SET, HDMI HDBaseT Extender SET has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the HBT2-C6BPOC-SET should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

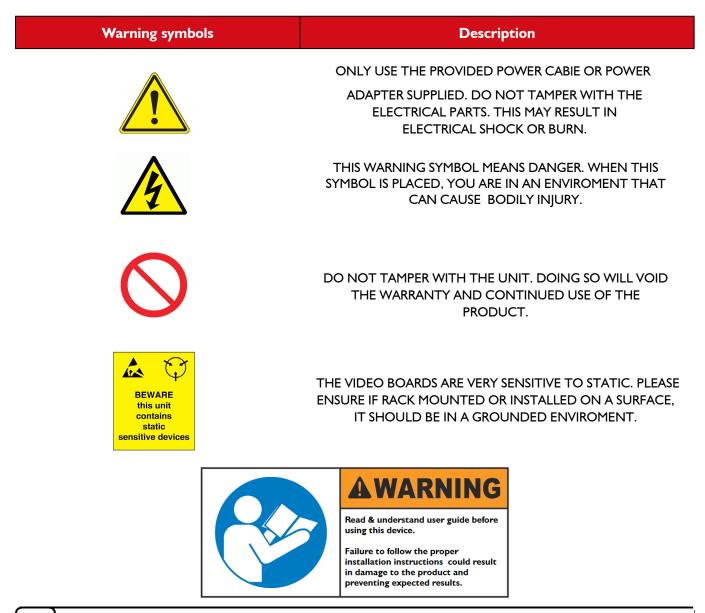
- 🔥 Do not dismantle the housing or modify the module.
- ⚠ Dismantling the housing or modifying the module may result in electrical shock or burn.
- 🔥 Refer all servicing to qualified service personnel.
- ▲ Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards.
- 🔥 Keep the device away from liquids.
- Spillage onto the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- 🔥 If the unit appears damaged, have the module checked by a qualified service engineer before using it again.
- ${
 m
 m A}$ Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



I.3 REGULATORY NOTICES FEDERAL COMMUNICATION COMMISSION(FCC)

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Avenview is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment.



2. INTRODUCTION

The Avenview **HBT2-C6BPOC-SET** HDMI HDBaseT CAT5/6/7 Extender SET extends 4K@60 high definition video, multi-channel digital audio, data formats IR/RS232 and POC up to 100m (330ft)/70m (230ft) to any display over Cat5/6/7.

This unique model allows 18Gbps data to be encoded and delivered uncompressed 4K@60 (UHD or DCI) 4:4:4 8bit or HDR signal with 4:2:0 10 bit chroma over cerified 625Mhz CAT6/7 cables to a HDMI 4K Display.

Video Signals: 4K@60 (Ultra HD), 3D, 8/10/12 Deep Color, and Full HD 1080p@60 Hz/48-bit color depth. Audio signals: Uncompressed 7.1ch digital Data Signals: Bi-Directional IR signals 20 KHz to 60 KHz and RS-232 over CAT5/6.

The HBT2-C6BPOC-SET includes two (2) units: Transmitter unit (TX) HBT2-C6BPOC-S and Receiving unit (RX) HBT2-C6BPOC-R with one (1) RJ45 output port which allows the user to extend video, audio and data signals up to 100m 30ft).

The **HBT2-C6BPOC-SET** supports data pass through via the bi- directional IR and RS-232 ports on both the TX and RX units, allowing the users to transmit any IR or RS-232 information to the desired device to be controlled. The HBT2-C6POE-SET offers the most convenient solution for extending video and audio applications over long distances with high quality results from 4K GPU's, Xbox, Playstation and Blu-Ray devices.

Features

- Support HDMI specifications Input: HDMI 1.4/2.0a compliant and DVI compatible;
- Distance: Full HD 1080p up to 100m (330ft) from the HDMI source 48-bit and 4K@60 up to 70m (230ft).;
- Supported resolutions 480p up to I 080p/3D/4K@60 (4:4:4) 8-bit /4K@60(4:2:0) I 0-bit;
- Bi-Directional power feature (Only one 12V power supply can be used to send power to the TX or RX;
- Support PoC (Power over Cable) supplies power to paired unit the TX/RX over UTP/STP;
- Supports HDCP 2.2 also backward compatible;
- EDID Bypass and EDID adjustment for HDMI 2.0 pixel clock over 340MHz;
- Supports CEC bypass;
- Audio Supported: 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio;
- Support full frequency IR signal from 20KHz to 60KHz;
- Bi-directional IR/RS-232 pass-through;
- Full Duplex RS-232 control up to 115,200 bps.
- 3D support: Follow by Display / TV's EDID.
- Wall mounting bracket included.

NOTE

The QUALITY and TRANSMISSION of the video signals depends on the characteristics and quality of the UTP /STP cables.

Higher resolutions and longer transmission distances require low skew cables (<25ns/100m) for best performance.

Unshielded CAT6 with metal RJ-45 connectors is recommended depending on the environment is controlled regarding EMI interference.

Sheilded CAT6 with metal RJ-45 connectors is recommended for commercial environments where EMI interference is high and not controlled.



	r		
I	HBT2-C6BPOC-S (TX) HBT2-C6BPOC-R (RX)	QTY x I x I	a fill a
2	POWER BRICK (12V 2A) + C7 Either Standard US power cord * or International power cord (UK,EU,AUS) * Based on the order request.	QTY x l	
3	IR Blaster IR Receiver	QTY x I x I	
4	3-pin Terminal Block Connector	QTY x 2	
5	PRODUCT USER MANUAL	QTY x I	$\overrightarrow{F_{n-1}} \leftarrow \overrightarrow{F_{n-1}}$

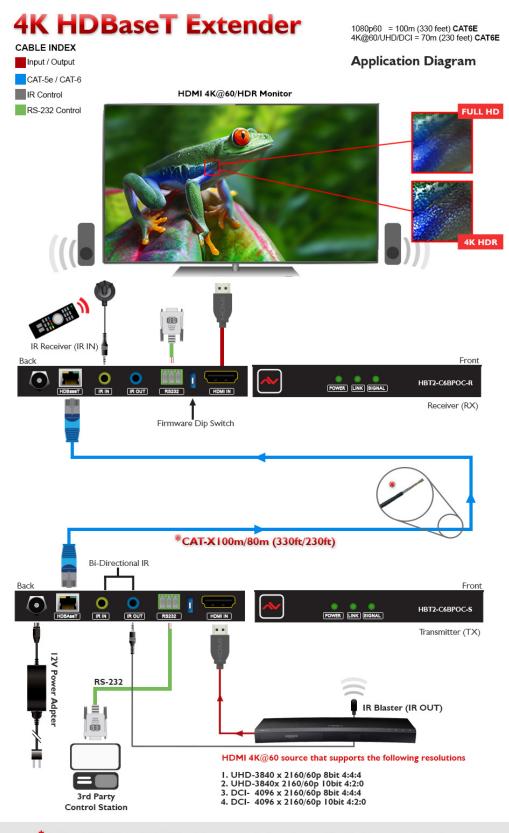
Before you start the installation of the HBT2-C6BOPC-SET, please ensure that the packaging has the listed items below.

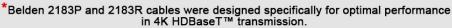
2.2 BEFORE INSTALLATION

ATTENTION

- Place the product on an even and stable surface. If the product falls, it may cause an injury to a person or malfunction.
- Do not place the product in high temperatures (over 50°C), or low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Take care when connecting units to the electrical power circuit, incase the maximum rated circuit is not overloaded
- Installation of the equipment must comply with local and national electrical codes.
- Do not twist or pull by force ends of the UTP /HDMI cable. It can cause malfunction.
- Keep the device away from water. If the unit becomes wet, power off immediately.
- To prevent airflow restriction, allow clearance around the ventilation openings to be at least: ONE Inch (25.4 mm).
- Unauthorized changes or modifications could void the user's authority to operate the equipment.
- Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.









2.4.1 INPUT PANEL (Transmitter, HBT2-C6BPOC-S) Front



1. LED LIGHTS:

- POWER LED: Steady BLUE LED light ON

- LINK LED: Always ON BLUE LED light indicates link is established -
- SIGNAL LED: HDMI Signal detected BLUE LED Light ON

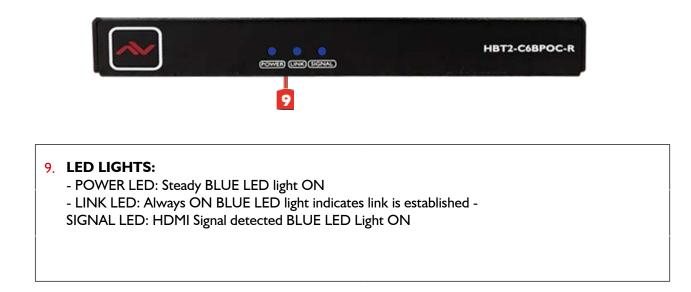
2.4.2 INPUT PANEL (Transmitter, HBT2-C6BPOC-S) Rear



2	• • • • • • • • • • • • • • • • • • • •	3.	•
	connection, please connect the supplied Latching		transmitting video, audio , data and POC
	Screw type power.		to the compatible Receiver unit.
4	IR IN: 3.5mm IR Receiver cable for IR signal	5.	IR OUT: 3.5mm IR Blaster cable for IR signal
	being received. Place IR Remote within direct line		being transmitted. Place IR Blaster in front of the
	of site with the IR Receiver.		IR window/ direct site of the device to control.
6	. RS-232: Connect to a device that has the ability	7.	DIP SWITCH: to activate operation Mode
	to send/receive control commands (PC or laptop		ON: F/W update
	via D-Sub 9-pin male cable) TX,RX,GND (L to R)		OFF: Normal Operating mode

8. **HDMI IN:** Connect HDMI source via Male to Male HDMI Cable Max 10ft- with Blu-ray player or any HDCP Digital player.

2.4.3 INPUT PANEL (Receiver, HBT2-C6BPOC-R) Front



2.4.4 INPUT PANEL (Receiver, HBT2-C6BPOC-R) Rear



10. POWER JACK: 12v DC Power supply connection, please connect the supplied Latching Screw type power.	11. RJ45: Connect UTP/STP cable for transmitting video, audio , data and POC to the compatible Receiver unit.			
12. IR IN: 3.5mm IR Receiver cable for IR signal being received. Place IR Remote within direct line of site with the IR Receiver.	13. IR OUT: 3.5mm IR Blaster cable for IR signal being transmitted. Place IR Blaster in front of the IR window/ direct site of the device to control.			
14. RS-232: Connect to a device that has the ability to send/receive control commands (PC or laptop via D- Sub 9-pin male cable) TX,RX,GND (L to R)	 DIP SWITCH: to activate operation Mode ON: F/W upadte OFF: Normal Operating mode 			
16 HDMI OUT: Connect HDMI display via Male to Male HDMI Cable May 10ft, with HDCP				

 HDMI OUT: Connect HDMI display via Male to Male HDMI Cable Max 10ft- with HDCP compatible display/monitor.



3. IR EXTENDERS

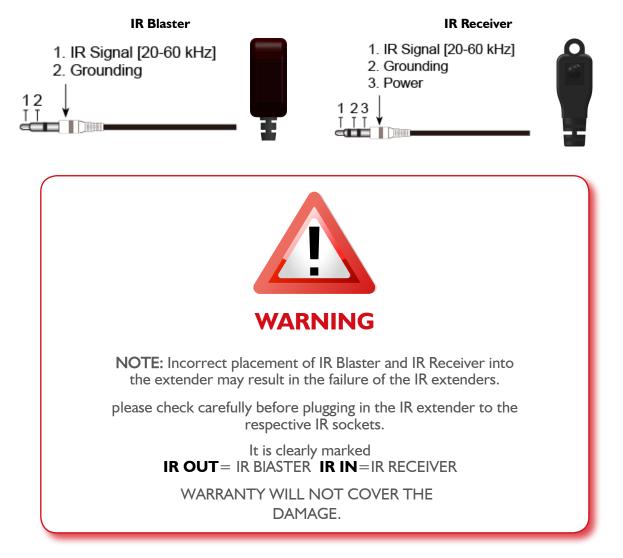


IR Sockets

IR BLASTER: plug in the IR blaster to port #5/12 as shown on panel description to flash all IR command signals on the deivces IR window to control the devices with the IR signals received.

IR RECEIVER: plug in the IR receiver to port #4/11 as shown on panel description to receive all IR command signals from the IR remote control.

Wiring Configuration of IR (3.5mm Jack)





4. INSTALLATION

To setup the Avenview HBT2-C6BPOC-SET HDMI 4K Extender please follow these steps for connecting the devices:

- I. Turn off all devices including monitors / TV
- 2. Connect to a HDMI source (such as a Blu-Ray Disc player) to the Transmitter HBT2-C6BPOC-S
- 3. Connect HBT2-C6BPOC-R with a CAT6 cable with shielded ends, then connect to display with certified 4K HDMI cable.
- 4. Plug in 12V 2A DC power (supplied).
- 5. Power on HDCP HDMI display
- 6. Power on HDMI Sources.

4.1 SUPPORTED RESOLUTION TABLE

Resolution	8bit			
	RGB	YCbCr	YCbCr	YCbCr
		4:2:0	4:2:2	4:4:4
3840x2160p24	Pass		Pass	Pass
3840x2160p25	Pass		Pass	Pass
3840x2160p30	Pass		Pass	Pass
3840x2160p50	Pass	Pass	Pass	Pass
3840x2160p60	Pass	Pass	Pass	Pass
4096x2160p24	Pass		Pass	Pass
4096x2160p24	Pass		Pass	Pass
4096x2160p25	Pass		Pass	Pass
4096x2160p30	Pass		Pass	Pass
4096x2160p50	Pass	Pass	Pass	Pass
4096x2160p60	Pass	Pass	Pass	Pass

Resolution	10 bi	t		
	RGB	YCbCr	YCbCr	YCbCr
		4:2:0	4:2:2	4:4:4
3840x2160p24	Pass			Pass
3840x2160p25	Pass			Pass
3840x2160p30	Pass			Pass
3840x2160p50				
3840x2160p60		Pass		
4096x2160p24	Pass			Pass
4096x2160p24	Pass			Pass
4096x2160p25	Pass			Pass
4096x2160p30	Pass			Pass
4096x2160p50				
4096x2160p60		Pass		

Resolution	12 bi	t		
	RGB	YCbCr	YCbCr	YCbCr
		4:2:0	4:2:2	4:4:4
3840x2160p24	Pass			Pass
3840x2160p25	Pass			Pass
3840x2160p30	Pass			Pass
3840x2160p50				
3840x2160p60		Pass		
4096x2160p24	Pass			Pass
4096x2160p24	Pass			Pass
4096x2160p25	Pass			Pass
4096x2160p30	Pass			Pass
4096x2160p50				
4096x2160p60		Pass		



5. GENERAL TROUBLESHOOTING

CHALLENGES	POSSIBLE SOLUTION
	Check if connection to the source and the display are correct.
	 Ensure that display device supports 480p, 720p and 1080p 4k@60 resolution
	 Terminated to 568B standard with Shielded Ends Recommended
ON DISPLAY	High Quality CAT5/6 Cable helps signal transmission
	Please use the supplied power supply.
	Check LED link light see (Section #3 Panel Description)
SCREEN (DISPLAY)	 This product supports 480p up to 4K@60 resolution.
ARTIFACTS APPEAR	Check the HDMI connector is not bent.
	• If outputting from a PC. Check the maximum resolution range of the graphics card.
CHECK RESOLUTION	Check all connections are seated properly to the devices.
SET-TOP BOX	 HDBaseT and HDMI 1.3 standards support CLOCK STRETCHING for i2c buss protocol.
(NO PICTURE)	• Example set top boxes like Scientific Atlantic results no picture. This can be resolved by swapping out the box for a newer version that supports HDMI 1.3 not HDMI 1.2
NO INFRARED	 Ensure the UTP cable is run within the wall away from EMI and High Voltage power lines.
BETWEEN	• please check manual of device to ensure proper placement of IR Blaster on IR EYE.
SOURCE/DISPLAY	 Some LED /plasma TV have EMI interference with the IR receiver, please place the IR Rx 3-6" away from Screen

	RECOMMENDED HDBaseT Test Guidelines		
END-TO-END TESTING	HDBaseT system, a final end-to-end test of all the A/V components should take place. These tests include checking the HDMI stream at the far end (sink end), the clock rate, frame compare, video pattern, audio, EDID and HDCp with Quantum 780D (recommended)		
PASSIVE MONITORING:	Passive monitoring enables an integrator to view the HDCp transactions, EDID exchange, as well as the connection events between the actual devices in the network.		

Addional info on Guidelines to Test & Troubleshoot HDBaseT Systems can be retreived from our website

under the category Downloads for this product HBT2-C6BPOC-SET.

Readers can view the new 4K rated category cable "Belden 4K Media Cables" press release to learn more about why a specified cable is important for delivering proper HDBaseT signals to its final destination.



6. SPECIFICATIONS

ITEM	DESCRIPTION				
UNITS	HBT2-C6BPOC-S	HBT2-C6BPOC-R			
UNIT DESCRIPTION	HDMI Transmitter	HDMI Receiver			
HDMI COMPLIANCE	HDMI 2.0a,	Full 3D & 4K@60			
HDCP	Yes 2.2 and ba	ackward compatible			
VIDEO BANDWIDTH	Single-link 600	MHz [18Gbps]			
INPUT RESOLUTIONS	480p to1080p60 / 3840x2160/4096>	2160 (4:4:4)8-bit /(4:2:0)HDR 10bit			
OUTPUT RESOLUTIONS	480p to1080p60 / 3840x2160/4096	<2160 (4:4:4)8-bit /(4:2:0)HDR 10bit)			
RESOLUTION AND DISTANCE @ 8-BIT		~ 100meter (328feet) (CAT6) 2160) ~ 70meter (230 feet) (CAT6)			
AUDIO SUPPORT		hannel audio formats Polby TrueHD, Dolby True HD)			
IR SUPPORT	Bi-Direction	al IR supported			
RS-232 SUPPORT	Bi-Directional F	S232 supported			
INPUT TMDS SIGNAL	I.2 Volts (pe	ak-to-peak)			
INPUT DDC SIGNAL	5 Volts (peak-	to-peak, TTI)			
ESD PROTECTION	 Human body model — ±19kV (air-gap discharge) & ±12kV (contact discharge) Core chipset — ±8kV 				
INPUT	Ix HDMI Ix 3.5mm Ix RS 232	Ix RJ 45 HDBaseT Ix 3.5mm Ix RS 232			
Ουτρυτ	Ix RJ 45 HDBaseT Ix HDMI Ix 3.5mm Ix 3.5mm Ix RS 232 Ix RS 232				
HDMI CONNECTOR	Туре А (19 pin female)			
RJ45 CONNECTOR	WE/SS 8p8C w	rith 2 IED indicators			
RS-232 SUPPORT	3 pin Phoenix co	onnector 115,200 bps			
3.5MM CONNECTOR	IR receiver / IR blaster	IR receiver / IR blaster			
DIMENSIONS (L X W X H)	4.7" x 2.9" x 0.8"	4.7" × 2.9" × 0.8"			
WEIGHT	0.27lbs	0.27lbs			
POWER SUPPLY	I 2V 2A DC (Only one	power supply needed)			
POWER CONSUMPTION	3 Watt (max) 7 Watt (max)				
ENVIRONMENTAL	ENVIRONMENTAL				
OPERATING TEMPERATURE	JRE 32° ~ 104°F (0° to 40°C)				
STORAGE TEMPERATURE	-4° ~ I40°F (-20° ~ 60°C)				
	20~90% RH (no condensation)				

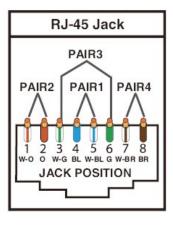


NOTICE

- All HDMI over CAT6 transmission distances are measured using Belden Media Cables 2183P (plenum) and 2183R (riser) Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, with Bonded-Pair, durable shield and helical drain Ripcord, PVC Jacket using Quantum 780D signal HDMI Video Generator Module Video Pattern Testing.
- 2. The transmission length is largely affected by the type of category cables, also the type of HDMI sources, and the type of HDMI display. The testing result shows solid UTP cables (usually in the form of 100m or 330ft bulk cable) can transmit further distance in signals than stranded UTP cables (usually in the form of patch cords). Shielded STP connectors are better suit than unshielded UTP connectors. A solid UTP CAT5e/6e/6A cable shows longer transmission length than stranded STP CAT6 cable. For long extension users, solid cables are your only choice.
- 3. EIA/TIA-568-B termination (T568B) for category cables is recommended for better performance.
- To reduce the interference among the unshielded twisted pairs of wires in category cable, you can use shielded STP cables with shielded connector to improve EMI problems, which occurs in long transmission.
- 5. Because the quality of the category cables has the major effects in how long transmission distance will be made and how good is the received display, the actual transmission length is subject to your category cables. For resolution greater than 1080i or 1280x1024, a solid CAT6 cable is the only viable choice.

7. CABLE SPECIFICATION

Data Link TIA/EIA-568-B					
PIN	Color	Function			
1	● ₩-0	TX0-			
2	0 0	TX0+			
3	000 W-G	TX1-			
4	🌖 BL	TX2-			
5	W-BL	TX2+			
6	G	TX1+			
7	◎ →W-BR	TXC-			
8	BR BR	TXC+			



PERFORMANCE GUIDE FOR HDMI OVER CATEGORY CABLE TRANSMISSION

PERFORMANCE RATING		TYPE OF CATEO		
WIRING	SHIELDING	CAT5	CAT5E	CAT6
SOLID	UNSHIEIDED (UTP)	***	****	****
SOLID	SHIEIDED (STP)	***	****	****
STRANDED	UNSHIEIDED (UTP)	*	**	**
STRANDED	SHIEIDED (STP)	*	*	**
TER	MINATION	PLEASE USE EIA/TIA	-568-B TERMINATION (T568B) AT ANY TIME



8. CABLE REQUIREMENTS

HDMI Cable

To achieve best results with our HBT2-C6BPOC-SET we highly recommend a Premium High Speed HDMI Cables and Premium High Speed HDMI Cables with Ethernet. To identify the cable is certified it will carry a special anticounterfeit label to differentiate them from other HDMI cables. See picture below.

Premium High Speed Certified HDMI Cables with full 18Gbps 4K (End to End) HDMI Cables support full UHD with Deep Color and High Dynamic Range support . These next generation 4K HDMI cables are also the ONLY HDMI cables specifically designed for systems integrators, corporate, government, medical and other demanding business environments.

Performance features: full UltraHD 4K@60Hz 4:4:4 chroma sampling and 18Gbps bandwidth rating (End to End), is integrated with exclusive commercial features: advanced active chip technology to deliver a full 4K 18Gb signal with 4:4:4 Color Space signal.





Specifications

Performance Grade: Best Connector Type 1: HDMI Male Connector Type 2: HDMI Male Bandwidth or Speed: 18Gbps (End to End), HDR Support Resolution: 4K @ 60Hz 4:4:4 Gauge: Up to 15ft: 26AWG. 20ft and up: 24AWG, Please note: Lengths 25ft, 35ft, 50ft Center Conductor: 99.9% High Purity Copper Connector Finish: 24K Gold Plated Shielding: Triple Shielded, Inner 100% Aluminum Mylar Wrap, Outer 100% Aluminum Mylar Wrap, 85% Tinned Copper Braid Cable Outer Diameter: 0.33" (8.5 mm) Jacket Type: PVC Supports High Dynamic Range (HDR) Supports Deep Color and x.v. Color

HDMI ATC Certified: Yes HDCP and CEC Compliant: Yes Category 2 Certified: Yes Ethernet Capability: Yes Supports Audio Return Channel: Yes 3D Ready: Yes Longer Distance Capability: Yes UL Rated: Yes UL Rated: Yes UL Rating: CL3 RoHS Compliant: Yes Temperature Rating: 75 deg C Voltage: 30V

Categrory Cable

Recommended for 4K60/HDR

6Y`XYb`&% ' D`UbX`&% ' F`WV`Yg`k YfY`XYg][bYX`gdYV**]**2]W2`mZcf`cdh]a U`dYfZcfa UbW`]b`(?`<86UgYH`hfUbga]gg]cb" H\YgY`g\]Y`XYX`WV`Yg`XY`]j Yf`(?`WzbhYbhcj Yf`%\$\$`a YhYfg`]b`Ui b]ei Yžga U`žg`YY_`XYg][b"

I d'hc &) i ga U'Yf 'h Ub '7 UY[cfm+U 9Ugn'hc 'WbX'UbX']h]bhc ga U` gdUWg FYglgfubhhc 'f][cfgcZ]bgfU'Uh]cb k]h, 6cbXYX!DU]fZXi fUVY'g\]YX UbX'\Y']W'XfU]b 8 Yq[[bYX'UbX'h/dh/X'qdYW]2WI`m

Zcfcdhja U (? I < 8 dYfZcfa UbW)

%\$\$I g\]YX]b[dfcj]XYg dfchYWj[cb Zica bc]gY]bhYfZYfYbW'k]h\ 5J g][bU G]b[Y'cj YfU`g\]YXWzbgfi Wj[cb gJ] Ygg][b]Z]WzbhHYfa]bUh]cb'h]a Y I @@]a]hYXDck Yf f@DLfUHYX hc \$"*5 dYf WzbXi Wzcf =bhYfcdYfUVY'k]h\ YUX]b[a Ubi ZJWJ fYfg\SJ Yei]da Ybh <86UbyYH (?1 <8%\$\$*a YHYfg Giddcfhg <86UbyYH) D`Uhti I %\$\$K Dck Yf cj Yf <86UbyYH fDc<2 UbX Dck Yf cj Yf 9h\YfbYhfDc92

8%, 'DfUYX'7 A DZcf d'Ybi a ']bgU'U']cbg
8%, 'F fUYX'7 A F Zcf f]gYf'UbX' ch\Yf bcb! d'Ybi a ']bgU'U']cbg
DUmgUfY[]ghYfYX'HfUXYa U_cZ< 86Ug'H' 5"JubW

CLICK HERE - To inquire more detail from Belden

4K Signal up to 100m: Belden Introduces New 4K Ultra-High-Definition Media Cables



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