

HDMI 2.1 8K HYBRID CABLE

Clearlinks Hybrid Active Optical Cables



Datasheet



Hybrid AOC cabling technology uses copper wires and optical fibers to join the electrical connectors on each end of the cable. The result is improved speed and bandwidth transmission distances with a thinner cable that is flexible and lightweight. Clearlinks HDMI AOC cables are designed for high-end professional 8K/10K HDMI applications while providing a reliable plug-and-play user experience.

FEATURES

- HDMI 2.1 8K @60Hz 4:4:4 and full bandwidth of 48Gbps up to 10K
- Enhanced gaming and media features: Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM), Quick Frame Transport (QFT)
- Patented AOC hybrid-cable with only 5 mm bend radius
- Supports Dynamic HDR and eARC
- External power supply required for 8K video applications
- EMI (electromagnetic interference) protection
- Made in Vietnam or Thailand



SPECIFICATIONS

Connectors		Mechanical	
Type(s)	HDMI-A / HDMI-A	Power Consumption	<0.75 W both sides
Contacts	Gold plated, long-life design	Operating Temp	0 to 50C
Cable		Safety	
Outside Diameter	4.5 mm	Device	CE (LS Series)
Jacket Material	PVC, CMR / CMP, CPR Eca	EMI / EMC	FCC Class B, CISPR 32

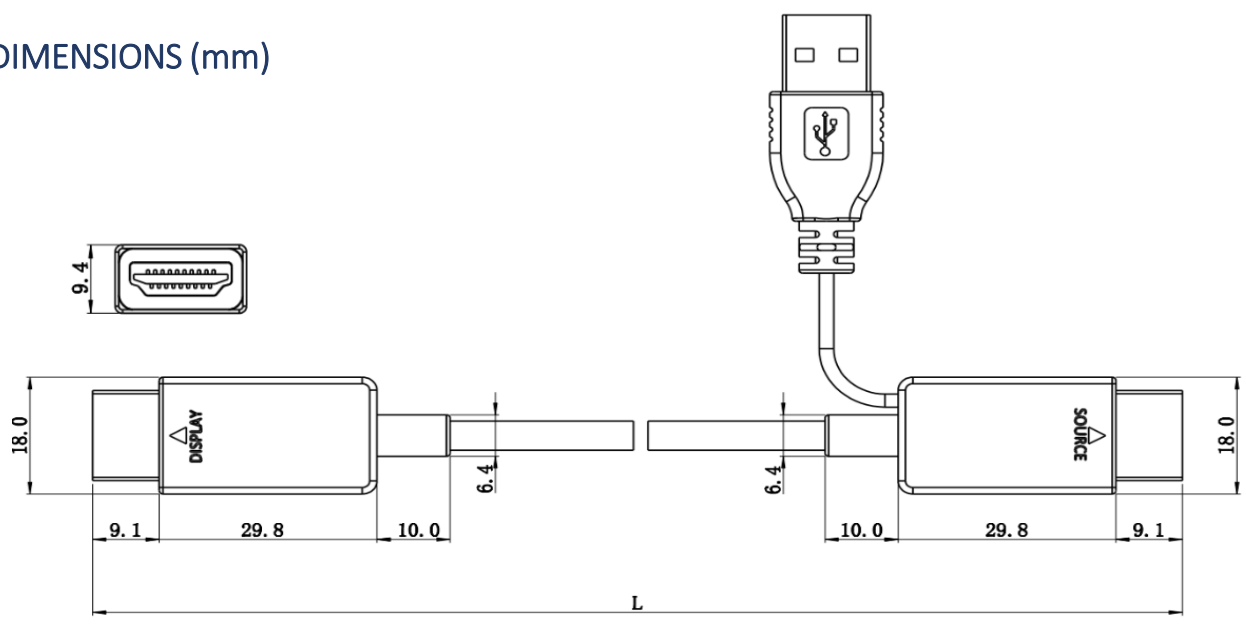
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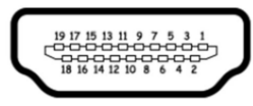


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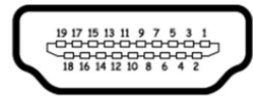
DIMENSIONS (mm)



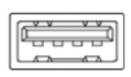
CONNECTOR PINS



HDMI



HDMI



USB
(source power, 8K only)

Pin#	Signal	Pin#	Signal
1	TMDS data 2+	11	TMDS clock shield
2	TMDS data 2 shield	12	TMDS clock-
3	TMDS data 2-	13	CEC
4	TMDS data 1+	14	No connection
5	TMDS data 1 shield	15	DDC clock
6	TMDS data 1-	16	DDC data
7	TMDS data 0+	17	Ground
8	TMDS data 0 shield	18	+5V power
9	TMDS data 0-	19	Hot plug detect
10	TMDS clock+		

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HANDLING AND CARE

When removing the connector from a socket, do not pull on the cable itself. Pull the connector by its housing from the socket.

Do not remove the connector housing or cut into the cable.

Discard cables with mechanically damaged housings or jackets properly.

EYE SAFETY

Optical energy is contained within cable and the end-housings: there are no optical emissions exposed to the user.

CAUTION: Do not cut optical cable. Viewing the cut fiber ends, especially with certain optical instruments (for example, eye loupes, magnifiers, and microscopes) may pose an eye hazard.

This product is classified as a Class 1 Laser product in accordance with IEC 60825-1:1993+A1+A2 and complies with 21CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice NO. 50, dated 24-Jun-2007. Use or modification of this device other than those specified herein may result in hazardous radiation. To meet laser safety requirements the cable shall be used within environmental specifications. Tampering with or modifying the device will result in voiding of the product warranty.

INVISIBLE LASER RADIATION

CLASS 1 LASER PRODUCT

840-860nm, 700uW

LASER EMISSION DATA

Wavelength	850 nm
Accessible Emission Limit (as defined by IEC: 7 mm aperture at 70 mm distance)	0
Beam Divergence (full angle)	N/A

PART NUMBERS

Description	Part Number
HDMI 2.1 48G 8K, AOC, Plenum Jacket, Male / Male	HD2.1-A-A-XXX-P-G

XXX= length in meters

Clearlinks AOC products carry a 1-year warranty