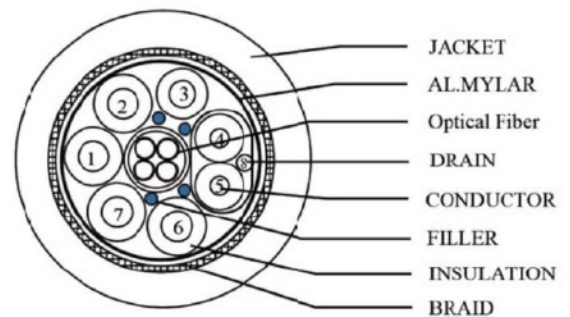


HDMI® 2.1 Active Optical Cable

HDMI AOC 8KXX



DESCRIPTION

CERTECH certified HDMI® 2.1 active optical cable. It is an active cable assembly to achieve certification under the Ultra High Speed HDMI® Cable Certification UHS (Ultra High Speed Program). Certification testing is performed in GRL's Taipei, Taiwan facility.

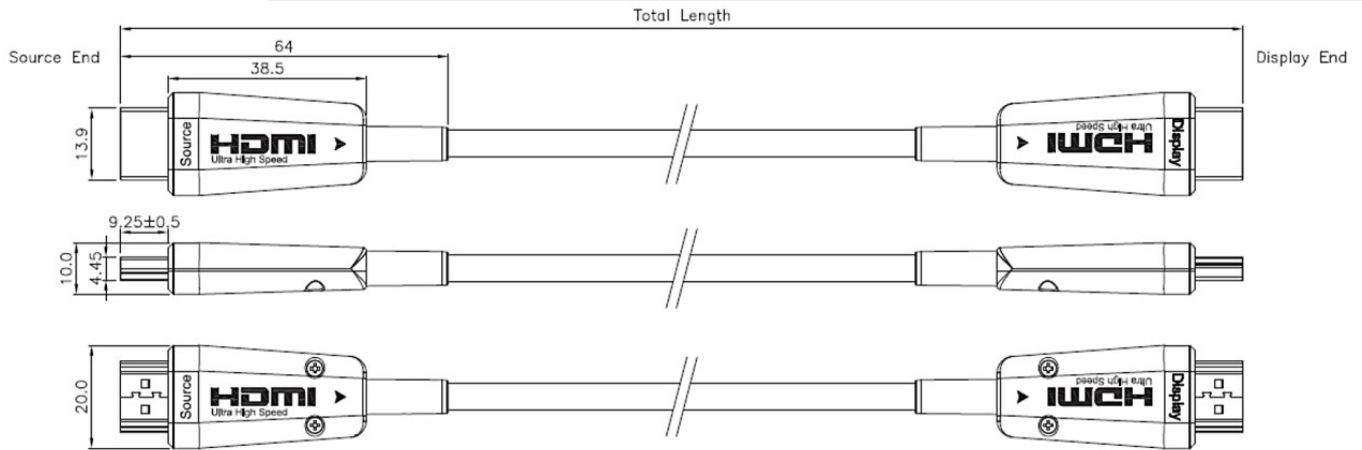
CERTECH HDMI® 2.1 AOC adopts the Silicon Line HDMI® 2.1 module, with unique ultra-low-power module architecture, featuring an in-house chip set designed specifically for HDMI® UHS AOC's and innovative Optical Sub Assembly (OSA) technology, does not require external power. The long and slim cable supports 8K@60 or 4K@120 for new-generation TV's, and has a variable refresh rate in games.

SUPPORT

- Uncompressed and compressed transmission modes
- Fixed Rate Link (FRL) signaling technology
- Dynamic HDR
- 48 Gbps Bandwidth
- Enhanced Audio Return Channel (eARC)
- Auto Low Latency Mode (ALLM)
- Variable Refresh Rate (VRR)
- Quick Frame Transport (QFT)
- Quick Media Switching (QMS)
- HDMI Cable Power

FEATURES

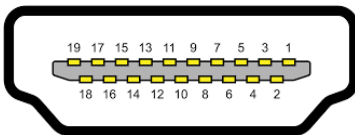
- Compliant with HDMI® 2.1 standard, no external power supply required
- Supports Ultra HD 8K@60Hz & 4K@120Hz, HDCP and eARC
- Supports High Dynamic Range (HDR) formats
- Backwards compatible to HDMI® 2.0 and HDMI® 1.4
- Extremely low EMI design supports compliance to the Ultra High Speed HDMI® Cable Certification Program
- Four multi-mode OM3 optical channels for HDMI® high-speed signals
- Supports standard Type A HDMI® connectors
- Supports the attachment of 8 electrical wires for the transport of HDMI® low speed signals, power and ground
- Plug and play solution, easy to install without drivers
- Available in lengths: 10m, 15m, 20m and 30m



Parts	Specifications
Connector End A	HDMI® Type-A (19 pin) Male, Source
Connector End B	HDMI® Type-A (19 pin) Male, Display
Connector Plating	Gold Plated
Connector Shell Material	Zinc-Alloy
Video Bandwidth	48Gbps (12Gbps x 4 Channel Max.)
Resolution	4K @ 120 Hz, 8K @ 60 Hz Ultra HD, up to 10K @ 100 Hz
HDCP Revision	HDCP 2.2 / 2.3
Power Consumption	≤ 250mW (Max)
Pull Test	100N (15min)
Operating Temp.	-40°C ~ 70°C
Impedance	100 ± 10 ohm
Cable Specs	Hybrid with OM3 fibre and copper wire
Cable Colour	Black
Cable Outer Diameter	5.2 mm
Cable Jacket Material	PVC, RoHS Directive
Cable Aluminum-Mylar Foil	100% Coverage, 25% overlap
Cable Braid	Tinned copper
Bend Radius (Dynamic/Static)	52mm / 26mm
O/E Converter	Source: 4 Channel 850nm VCSEL Array Display: 4 Channel GaAs PD Array
Power Supply	no external power supply required

Note: This HDMI® 2.1 Active Optical Cable is directional. Each end of the cable is marked "Source" and "Display" to indicate the direction of the signal flow. Before installing the cable permanently in a wall or ceiling, be sure to test the cable to ensure correct signal flow and ensure device compatibility.

HDMI® Type-A Pin Assignment



PIN	Function	PIN	Function
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	CEC
4	TMDS Data1+	14	Reserved (N.C. on device)
5	TMDS Data1 Shield	15	SCL (I ² C serial clock for DDC)
6	TMDS Data1-	16	SDA (I ² C serial data for DDC)
7	TMDS Data0+	17	DDC/CEC Ground
8	TMDS Data0 Shield	18	+5 V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		