

48Gbps 8K/60 HDR 4:4:4 Active Optical HDMI Cable |  
 eARC, CEC, ALLM & VRR | ISF Certified (10m/33ft | 15m/49ft)  
**CAB-HAOC-FRL-10 | CAB-HAOC-FRL-15**



**Quickstart Guide**

**!** WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.

4320p 4:4:4 **60** **8K** 48GBPS **HDMI** **HDCP** 2.3 **e-ARC**

**!** **IMPORTANT! Installation Requirements**

Cable is uni-directional. Follow the connector labeling and color coding to ensure proper operation of the cable.

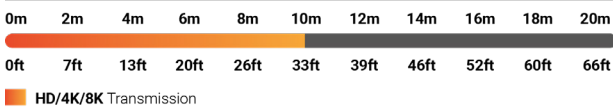
**In The Box**

- 1x CAB-HAOC-FRL-10 or CAB-HAOC-FRL-15 Active Optical HDMI Cable
- 2x Reusable Cable Ties
- 1x Quickstart Guide (This Document)

**Cable Distances**

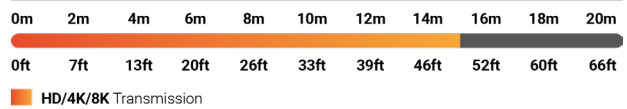
**CAB-HAOC-FRL-10**

Optical HDMI Cable Performance Guide



**CAB-HAOC-FRL-15**

Optical HDMI Cable Performance Guide

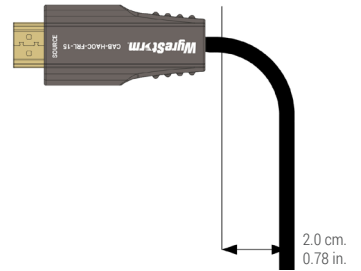


**Wiring and Connections**

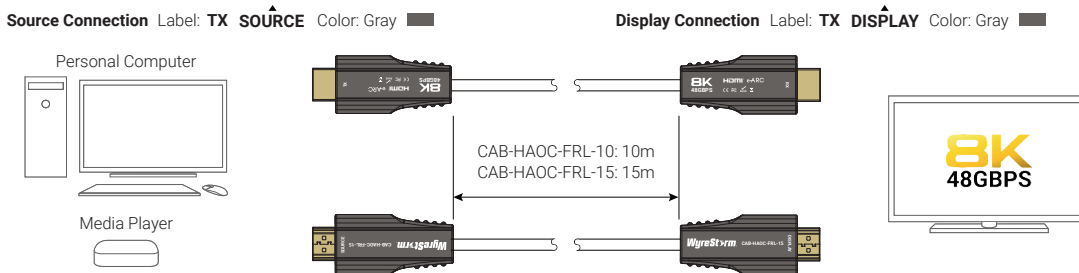
**!** **IMPORTANT! Installation Requirements**

The WyreStorm Active Optical cables are designed to transmit HDMI signals from the source to a display.

- Follow the labeling and the diagrams for connection to ensure proper operation.
- Due to the core of the HAOC being fiber optic the cable cannot have a bend radius greater than 2cm/0.78in. Keep this mind when routing cables around objects and inside of walls.
- The cables have a max pull tension of 15kg/33lbs. Keep this in mind when routing the cable within cabinets or walls to avoid damaging the cable.



**Basic Wiring Diagram**



**Warranty Information**

WyreStorm Technologies LLC warrants that its products to be free from defects in material and workmanship under normal use for a period of five (5) years from the date of purchase. Refer to the [Product Warranty](#) page on [wyrestorm.com](#) for more details on our limited product warranty.



## Specifications

Transmission			
Transmission Encoding	Uncompressed AOC (with DSC support between Source-Display when required)		
End to End Latency	10µs		
Maximum Transmission Bit Rate	48Gbps (4-core, 12Gbps per lane)		
Video			
HDMI	(v2.0b) TMDs   600MHz Maximum   (v2.1) FRL (Fixed Rate Link)   16b/18b encoding DSC (Display Stream Compression) Supported		
Input	1x HDMI: 19-pin type A Male		
Output	1x HDMI: 19-pin type A Male		
Maximum Data Rate	42.6 Gbps		
Supported Video Resolutions		CAB-HAOC-FRL-10	CAB-HAOC-FRL-15
	1920 x 1080p @240Hz		
	2560 x 1440p @240Hz		
	4096 x 2160p @144Hz	10m/33ft	15m/49ft
	5120 x 2880p @60Hz 7680 x 4320p @60Hz		
Supported Standards	DCI   Static HDR   HDR10+   Dolby Vision   HLG   SL-HDR1   PQ   BT.2020   BT.2100		
Audio			
Audio Formats	2ch PCM   Multichannel LPCM   DTS-X   Dolby Atmos		
Maximum Sampling Rate	192KHz		
Maximum Audio Channels	32		
Enhanced Audio Return Channel (eARC)	Supported		
Communication and Control			
HDCP	Pass-through, 2.3 Supported		
EDID	Pass-through, RX>TX		
Ethernet	100Mbps Supported		
Consumer Electronics Control (CEC)	Bidirectional Supported		
Auto Low Latency Mode (ALLM)	Supported		
Variable Refresh Rate (VRR)	Supported		
Installation Restrictions			
Max Bend Radius	2cm/0.78in		
Max Pull Tension	15kg/33lbs		
Orientation	Uni-directional - Observe signal flow direction prior to installation		
Power			
Power Supply	Passive 4.5v~5.5v VCC (From Connected Source)		
Max Power Consumption	250mW		
Environmental			
Operating Temperature	14°F ~ 122°F (-10°C ~ 50°C)   10% ~ 90%, non-condensing		
Storage Temperature	-4°F to ~ 140°F (-20°C ~ +60°C)   10% ~ 90%, non-condensing		
Maximum BTU	0.85 BTU/hr		
Jacket Material	PVC		
Dimensions and Weight (Connector Housing)			
Height	9mm/0.36in		
Width	19.8mm/0.78in		
Depth	39.5mm/1.56in		
Weight	NA		
Cable Length (Connector to Connector)	CAB-HAOC-FRL-10: 10m/33ft CAB-HAOC-FRL-15: 15m/49ft		
Regulatory			
Safety and Emission	CE   FCC   CL3   RoHS   EAC		

\*only maximum frame rates of supported resolutions are listed (8-bit colour)

**Note:** WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.