

True 4K HDMI 2.0 Active Optical Cable

Applies the AOC technology, which enables conversion between input electrical signals and optical signals, this HDMI optical cable can easily extend 4k60Hz signal over 100m.

It is fully compliant with HDMI 2.0 and HDCP2.2 standards, support 4K60Hz 4:4:4 HDR 3D 18Gbps, Dolby True HD and DTS-HD Master Audio. Since the audio & video is transmitted via fiber strands, comparing with copper HDMI cable, it has advantages in reducing EMI & RFI.

Features

* Easily extend 4K signal over 100m
* Less interference such as EMI & RFI
* HDMI 2.0 (3D, Deep Color), HDCP 2.2 COMPLIANT
* 4K60Hz 18Gbps 4:4:4
* AOC technology, no need external power adapter
* No latency in video, no loss in audio
* Plug & Play



How It Works

Inside the SOURCE end, it converts input electrical signal into optical for no delay high bandwidth data transmission, and the DISPLAY end, it converts back to electrical signal.

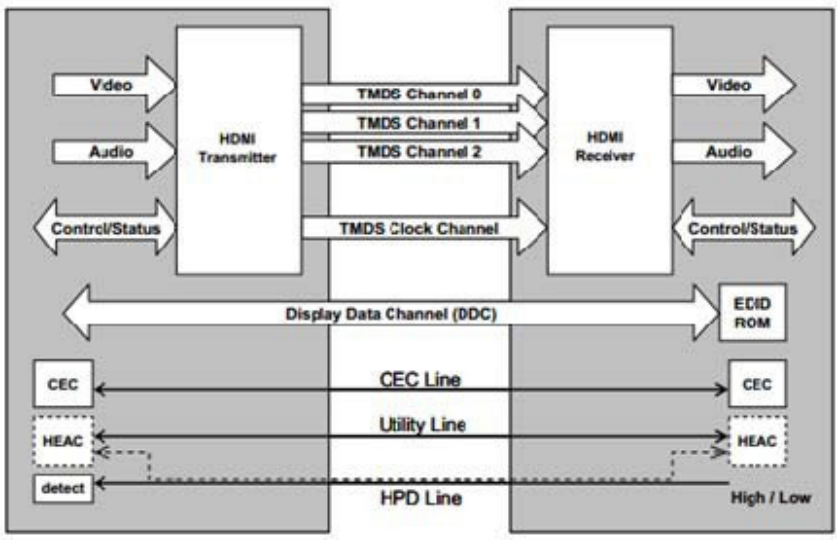
Remark:

Source (transmitter) connects to HDMI source devices, such as Blu-ray player, PS4 pro, Xbox One, computers, etc.. Display (receiver) connects to HDMI displays, like 4K TV, 4K projector, LCD monitor. Can not reverse in use!
TMDS high frequency signal is transmitted through fiber strands, and control signal such as CEC HEAC are transmitted through copper wires.



Hybrid Cable

Four optical units and seven electrical units are main parts of cable. Also, there are aramid yarn as reinforcement and black outer sheath. outer diameter of cable is only 4.5 mm.



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Optical VS Copper (Extension Distance)

Optical Cable 150m
Copper Cable Max 50m

Specifications

Model	Cable Length	Cable Type
BS-FC30	30 meter	Hybrid type, 4 CH 850NM VCSEL/PIN 50/125UM fiber for audio video and copper wires for others such as hot plug detection, grounding, and +5V power
BS-FC50	50 meter	
BS-FC100	100 meter	
Video		
Input Interface	HDMI Type-A Male, gold-plated, black, 19-pin	
Output Interface	HDMI Type-A Male, gold-plated, black, 19-pin	
Data Rate	18 Gbps (6Gbps per channel)	
Pixel Clock	Max 600 MHz	
Resolution	480P, 720P, 1080i, 1080P, 4K@60Hz(4:4:4) Standards: HDMI 2.0 (3D, Deep Color, 4K, HDR), HDCP 2.2	
Compliance	Color sub-sampling: 4:4:4 / 4:2:2 / 4:2:0, Color Depth: 30/36/48 bit	
Audio		
Input	PCM 7.1 channel, Dolby Digital TrueHD, DTS-HD Master Audio	
Output	PCM 7.1 channel, Dolby Digital TrueHD, DTS-HD Master Audio	
Electrical		
Power	HDMI +5V (no need extra power)	
Working Current Power	≤45mA	
Consumption	≤250MW	
Environment		
Operating Temp.	0 ^{0}C to 50 ^{0}C	
Storage Temp.	- 20 ^{0}C to 70 ^{0}C	
Humidity	0 ~ 85% RH, Non-condensing	

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