HDMI ACTIVE OPTICAL CABLE

GENERAL

Active Optical Cable (AOC) is a cabling technology that accepts same electrical inputs as a traditional copper cable, but uses optical fiber between the connectors to extend HDMI signals with zero loss or latency. The AOC 100 meter (328 feet) HDMI2.0 cables with ethernet are designed with premium craftsmanship to deliver UltraHD with a super bandwidth of 18Gbps.

These latest specs from HDMI deliver uncompressed 4K resolutions with 32 audio channels for a multi dimensional immersive audio and up to 1536 kHz sample frequency to attain highest audio fidelity. It supports sub-sampling rates of 4:4:4, 4:2:2 & 4:2:0 YUV with deep color and HDR can be achieved when integrated with compatible HDMI2.0 devices. This AOC cable is resistant to EMI and RFI interference providing you with noise-free video and audio with less copper and more fiber optic.
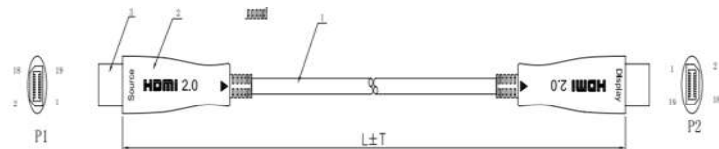
PRODUCT FEATURES

- Support HDMI2.0, HDCP2.2
- Transferring uncompressed & undistorted AV signal
- Support DDC, CEC, HDTV, ARC, HDR
- Support dolby digital 7.1
- OM3 multi-mode optical fiber 18Gps, up to 150m
- Support 4Kx2Kx60Hz RGB:4:4:4
- Standard HDMI connector, HDMI2.0 version
- Plug and Play
- 850nm VCSEL & PIN PDIC
- No need external power cable
- OD 5.2mm only that is suitable for small space installation

PRODUCT APPEARANCE & SIZE

- Item No.: AOC-PPxxx
- Product length: From 1m to 200m (4K60Hz ≤100m; 1080P 100-200m)
- Drawing and Dimendions

TECHNICAL SPECIFICATION

	Min	Typical	Max	Unit	Remark
Transfer ratio		18	48	GHz	Band width
Working temp	-20	25	85	°C	
Work consumption		200	250	mW	TX & RX AOC
Working volt.	4.5	5	5.5	V	
Working current		110	150	mA	RX
		100	150	mA	TX
Stretch performance		200		N	Short term pull 300N, Long term pull 150N
Flatten performance		100		N	Short term 500N/ 100mm, Long term 100N/ 100mm
Bending radius	20	40		mm	Static (work) 40mm, Dynamic (install) 80mm
Re-bending performance		20000			18000 sway, no cracking
Cable diameter	5.0	5.2	5.3	mm	
Fiber distance	1	100	200	M	
Support refresh ratio	Up to 120 Hz			Hz	120Hz@Max1080P or 2160P 4:2:0
Support resolution ratio	Up to 4Kx2K			px	4Kx2K 4:4:4 60Hz
Support 3D	Yes				
Support HDCP	HDCP1.4/ HDCP2.2				
Wavelength	850			nm	
VCSEL output power	Class 1				EN 60825-1 2007 EN 60825-2 A2 2010
Ethernet	Yes				
ARC	Yes				
CEC	Yes				
Plug and Play	Yes				
Cable Specs	Fiber	4xOM3-850		nm	4 fiber+7 copper
	Copper	(30AWGx1P+D)x2 +30AWGx3C		UIT	
Construction	19			Pins	HDMI A Type Port
Environment protection	Meet with RoHS standards				