



OVERVIEW

The Magenta Active Optical Cable provides a simple yet powerful solution for extending high resolution over long distances. This plug and play HDMI 2.0 cable supports up to 4K60 4:4:4 with no compression or latency up to 328ft (100m) and without the need for external power and is available in UL rated Plenum (CMP), providing the ultimate flexibility.

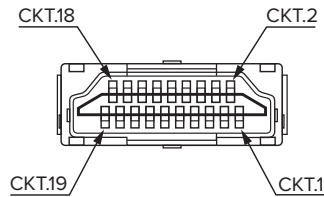
KEY FEATURES

- ▶ Up to 328ft (100m)
- ▶ No external power required
- ▶ Plug and Play
- ▶ HDMI 2.0
- ▶ HDCP support
- ▶ EDID support
- ▶ No signal loss
- ▶ 4K2Kp60 down to 480i supported
- ▶ UL rated Plenum (CMP) option available

SPECIFICATIONS

Item	Description	
Units	Transmitter (Source)	Receiver (Sink)
HDCP & DDC	HDCP 2.2 Fully Supports bi-directional EDID and HDCP communication	
Video Bandwidth	6 Gbps/x3Channel (max)+ Clock	
Supported Resolutions & Distance	PC: WUXGA 1920 x 1200 up to 100 meters, HDTV: 480p, 720p, 1080i and 1080p deep color, 4K(60P), 3DFull HD 1920 x 1080 up to 100 meters	
O/E Converter	4 channel 850 nm VCSEL array	4 CH GaAs PD array
Connector Type	HDMI 2.0 type A	
Cable Type	Hybrid type with OM3 fiber and copper wire	
Cable Length	10m, 15m, 20m, 25m, 30m, 40m, 50m, 60m, 70m, 100m (with +/-30cm tolerance).	
Cable Outer Diameter	4.5mm	
Jacket Outer Material	PVC (MG-AOC-661-xxx) Plenum (MG-AOC-662-xxx)	
Cable Weight	TBD	
Cable Color	Black	
Maximum Tensile Load	15kg	
Minimum Bend Radius	20mm	
Differential Input	100 ohm (typical)	
Power Consumption	250mW (max)	
Power Supply	No external power required	

HDMI Type A Pin Assignment



PIN	FUNCTION
1	T.M.D.S. Data 2+
2	T.M.D.S. Data 2 Shield
3	T.M.D.S. Data 2-
4	T.M.D.S. Data 1+
5	T.M.D.S. Data 1 Shield
6	T.M.D.S. Data 1-
7	T.M.D.S. Data 0+
8	T.M.D.S. Data 2 Shield
9	T.M.D.S. Data 0-
10	TMDS Clock+

PIN	FUNCTION
11	TMDS Clock Shield
12	TMDS Clock-
13	CEC
14	Utility
15	SCL
16	SDA
17	DDC/CEC Ground
18	+5V Power
19	Hot Plug Detect

SKU	HDMI 2.0 Active Optical Cable
MG-AOC-661-10	33ft (10m)
MG-AOC-661-15	50ft (15m)
MG-AOC-661-20	66ft (20m)
MG-AOC-661-25	82ft (25m)
MG-AOC-661-30	100ft (30m)
MG-AOC-661-40	131ft (40m)
MG-AOC-661-50	164ft (50m)
MG-AOC-661-60	196ft (60m)
MG-AOC-661-70	230ft (70m)
MG-AOC-661-100	328ft (100m)

SKU	HDMI 2.0 Active Plenum Optical Cable
MG-AOC-662-10	33ft (10m)
MG-AOC-662-15	50ft (15m)
MG-AOC-662-20	66ft (20m)
MG-AOC-662-25	82ft (25m)
MG-AOC-662-30	100ft (30m)
MG-AOC-662-40	131ft (40m)
MG-AOC-662-50	164ft (50m)
MG-AOC-662-60	196ft (60m)
MG-AOC-662-70	230ft (70m)
MG-AOC-662-100	328ft (100m)