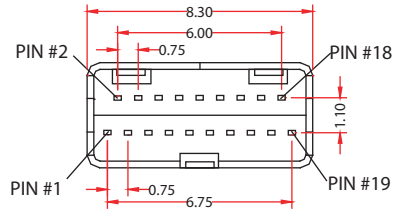
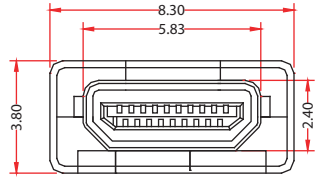
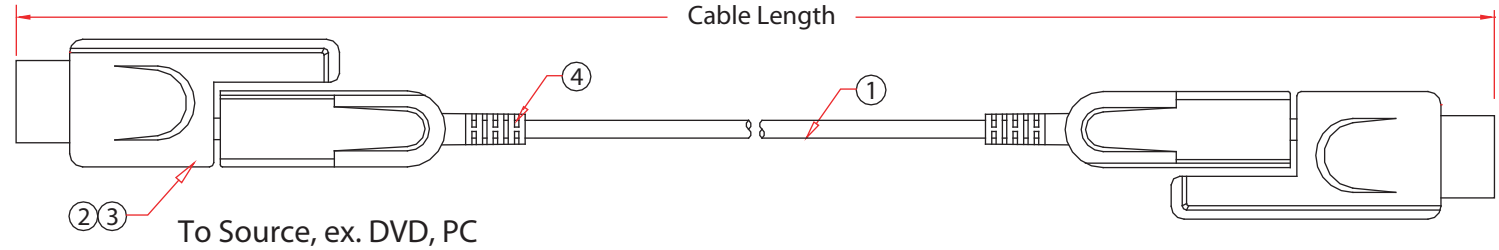


Rev.	Description	Date
A		09-2018

RoHS



HDMI Type A Pin Assignment



To Sink, ex. TV

Hybrid Cable Profile



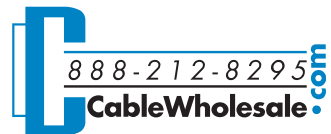
Packing: 1Pcs /Box

HDMI Type A Connector Pin Assignment

PIN	Function	PIN	Function
1	T.M.D.S. Data 2+	11	TMDS Clock Shield
2	T.M.D.S. Data 2 Shield	12	TMDS Clock-
3	T.M.D.S. Data 2-	13	CEC
4	T.M.D.S. Data 1+	14	Utility
5	T.M.D.S. Data 1 Shield	15	SCL
6	T.M.D.S. Data 1-	16	SDA
7	T.M.D.S. Data 0+	17	DDC/CEC Ground
8	T.M.D.S. Data 2 Shield	18	+5V Power
9	T.M.D.S. Data 0-	19	Hot Plug Detect
10	TMDS Clock+		

PART NO.	CABLE LENGTH
12V4-42110	10 Meter (33Foot)
12V4-42120	20 Meter (65.5Foot)
12V4-42130	30 Meter(98.4Foot)
12V4-42150	50 Meter(164Foot)
12V4-421100	100 Meter(328Foot)

4	Molded PVC Hood, Black Color
3	Cover, Black Color
2	HDMI type A, Gold Plating
1	Hybrid type with OM3 fiber and copper wire, Black PVC/TPU(Custom) Jacket ,OD:4.5±0.2mm
No.	Specifications

Item Number:	12V4-421xx	
Title:	4K HDMI Active Optical Cable (AOC), HDMI Male, w/ 2 detachable ends	
Drawn by:	JL	
Approved by:	MAC	
ID:	228	



Rev.	Description	Date
A		09-2018

Specifications

Item	Description	
	Transmitter (Source)	Receiver (Sink)
HDCP & DDC	HDCP2.2 Fully Support bi-directional EDID and HDCP communication	
Video Bandwidth	6 Gbps /x3Channel (max)+ Clock.	
Supported Resolution & Distance	HDTV : 480p, 720p, 1080i and 1080p deep color, 4K@30Hz, 4K@60Hz(4:4:4), 3D Full HD 1920 x 1080 , up to 100meters	
O/E Converter	4 channel 850 nm VCSEL array	4 CH GaAs PD array
Connector Type	HDMI type D, with HDMI D/Female to HDMI A/Male Adaptor	
Differential Input	100 ohm (typ)	
Power Consumption	250mW (max)	

KEY FEATURES

- *Up to 100m Maximum Length.(Custom Length Available)
- *Low Power Consumption: 250mW (max). (Without External Power)
- *Detachable type D/Male connector , with HDMI D/Female HDMI A/Male adaptor
- *Data Rate 18Gbps(6Gbps per Channel)
- *Plug and Play
- *Compatible with HDMI 2.0 standard.
- *Support HDCP1.4 and HDCP2.2
- *Support ARC/HEAC/HDR
- *Self-detecting function for EDID information
- *No loss of signal – delivering crystal clear digital images nstantly.
- *Supports computer resolutions to 1080P and 4K2K(60PYUV 4:4:4).
- *Hybrid optical cable with fiber and copper wire

Applications

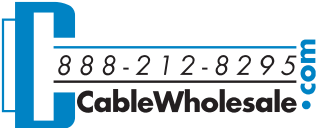
- *Digital Signage
- *LED signboards in streets and in stadiums
- *Medical Imaging Equipment
- *Airplane On-board Video System
- *Home Theater
- *Blue-ray, 3D video, Projector, Set-up box, DVR, Game Consoles and Computer
- *TV Broadcast Station
- *Conference Room Video Equipment

Absolute Maximum Rating

Parameter	Symbol	Min	Max	Unit
Power Supply Voltage	VCC	4.5	5.5	V
Operating Temperature	Top	0	50	°C
Storage Temperature	Ts	-40	70	°C
Relative Humidity	Hs	10	80	%RH

Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Power Supply Voltage	VCC	4.75	5.0	5.25	V
Operating Temperature	Top	0		50	°C

Item Number:	12V4-421xx		
Title:	4K HDMI Active Optical Cable, AOC, Fiber Optic		
Drawn by:	JL		
Approved by:	MAC		
ID:	228		