

JESS-LINK PRODUCTS CO., LTD
PRODUCT SPECIFICATION

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TITLE HDMI 2.0 Active Optical Cable OD=3.8MM	DOC No.	TBD
	REVISION : 01	AUTHORIZED BY :
	DATE : 10/13/2020	CLASSIFICATION : Optical Cable

Descriptions

JPC developed a super slim armored HDMI Active Hybrid Cable, with only 3.8mm OD and short HDMI plug, the most slim Armored HDMI interconnection solution on the market. It supports HDMI Data Rate 6Gbps per channel, total 18Gbps with strong construction, flexible and ultra-small long-term bending radius (38mm) hybrid cable. With our advanced optical engine embedded. This HDMI Hybrid Cable provides full HDMI signal integrity, support up to 30m maximum length, plug and play. No external power required.

Key Features

- ◆ OD3.8mm super slim stainless steel construction
- ◆ Up to 30m Maximum Length.(Custom Length Available)
- ◆ Low Power Consumption: 250mW (max)
- ◆ Plug and Play
- ◆ Compatible with HDMI 2.0 standard
- ◆ Support HDCP1.4/2.2
- ◆ Self-detecting function for EDID information
- ◆ No loss of signal – delivering crystal clear digital images instantly
- ◆ Supports computer resolutions to 1080P and 4K2K(60P)
- ◆ 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
- ◆ Security systems

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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	-40		80	°C

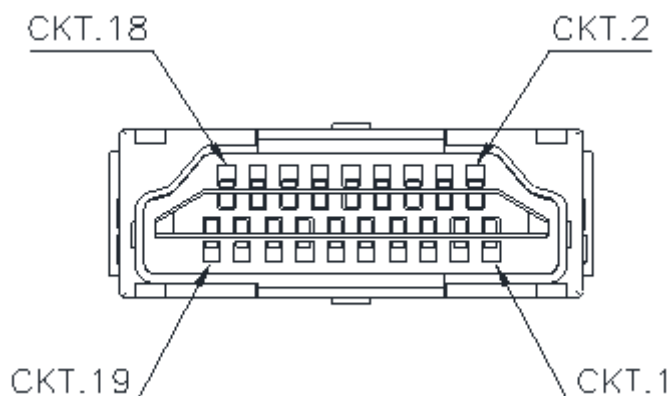
Specifications

Item	Description	
Units	Transmitter (Source)	Receiver (Sink)
HDCP & DDC	HDCP 2.2 Fully Support bi-directional EDID and HDCP communication	
Video Bandwidth	6 Gbps/x3Channel (max)+ Clock.	
Supported Resolution & 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 type A	
Cable Type	Armored Hybrid type with OM3 fiber and copper wire	
Cable Length	5m/10m/15m/20m/25m/30m Custom length available.	
Cable Outer Diameter	3.8mm	
Jacket Outer Material	TPU(Custom)	
Cable Weight TBD	Cable Weight TBD	
Cable Color TBD	Cable Color TBD	
Differential Input	100 ohm (typ)	
Power Consumption	250mW (max)	
Power Supply	Non external power required	

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HDMI Type A Pin Assignment



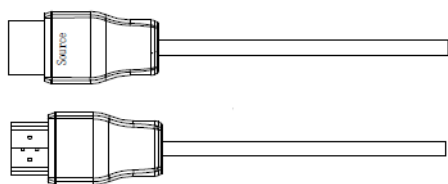
HDMI Type A Connector Pin Assignment

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+		

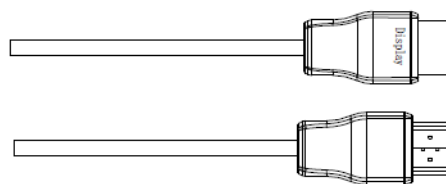
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Installation

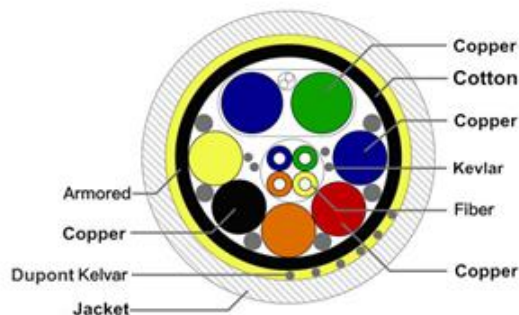
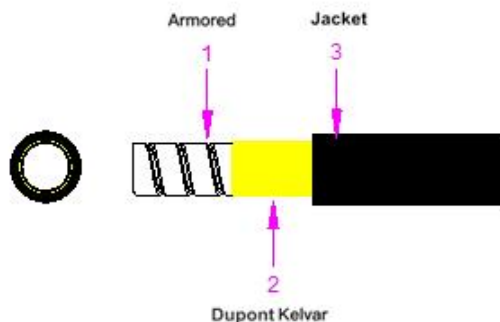
To Source, ex. DVD, PC



To Sink, ex. TV



Hybrid Cable Profile



Tensile(KGF)		Crush Resistance(N/mm)	Bending Radius(mm)	Temperature(℃)
SR	Wire	Max	Static	
25.57	44.13	5000	25	

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Ordering Information

Part Number	Description
PK3H2U00AA03-D	Slim Armored HDMI 2.0 AOC4K 2K/60P,Length 5m
PK3H2U00AA03-E	Slim Armored HDMI 2.0 AOC4K 2K/60P,Length 7m
PK3H2U00AA03-F	Slim Armored HDMI 2.0 AOC4K 2K/60P,Length 8m
PK3H2U00AA03-1	Slim Armored HDMI 2.0 AOC4K 2K/60P,Length 10m
PK3H2U00AA03-2	Slim Armored HDMI 2.0 AOC4K 2K/60P,Length 15m
PK3H2U00AA03-3	Slim Armored HDMI 2.0 AOC4K 2K/60P,Length 20m
PK3H2U00AA03-4	Slim Armored HDMI 2.0 AOC4K 2K/60P,Length 25m
PK3H2U00AA03-5	Slim Armored HDMI 2.0 AOC4K 2K/60P,Length 30m