

HYBRID CABLE PROFILE



ORDERING INFORMATION

Part Number	Description
SHDC-8700-FM-020	HDMI AOC, V2.0, 4K2K/60P, Support EDID/HDCP, Length 20m
SHDC-8700-FM-030	HDMI AOC, V2.0, 4K2K/60P, Support EDID/HDCP, Length 30m
SHDC-8700-FM-040	HDMI AOC, V2.0, 4K2K/60P, Support EDID/HDCP, Length 40m
SHDC-8700-FM-050	HDMI AOC, V2.0, 4K2K/60P, Support EDID/HDCP, Length 50m
SHDC-8700-FM-060	HDMI AOC, V2.0, 4K2K/60P, Support EDID/HDCP, Length 60m
SHDC-8700-FM-070	HDMI AOC, V2.0, 4K2K/60P, Support EDID/HDCP, Length 70m
SHDC-8700-FM-080	HDMI AOC, V2.0, 4K2K/60P, Support EDID/HDCP, Length 80m
SHDC-8700-FM-090	HDMI AOC, V2.0, 4K2K/60P, Support EDID/HDCP, Length 90m
SHDC-8700-FM-100	HDMI AOC, V2.0, 4K2K/60P, Support EDID/HDCP, Length 100m



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Dealer :

liberty **OPTICAL FIBER CABLE**
SMART AUDIO - VIDEO LINK

HDMI HIGH DEFINITION VIDEO
OVER LONG DISTANCES
AVAILABLE IN 20 ~ 150 METERS LENGTH



SHDC-8700 Series
HDMI 2.0 AOC

DESCRIPTION

Our HDMI Active Hybrid Cable is the most competitive long reach HDMI interconnection solution on the market. It supports HDMI Maximum Data Rate 6Gbps with light weight, flexible and ultra-small long-term bending radius (52mm) hybrid cable. With our advanced optical engine embedded. This HDMI Hybrid Cable provides full HDMI signal integrity, support up to 150m maximum length, plug and play. No external power required.



KEY FEATURES

- ◆ Up to 150m Maximum Length(Custom Length Available)
- ◆ Low Power Consumption:250mW(max) (Power Required)
- ◆ Plug and Play
- ◆ Compatible with HDMI 2.0 standard.
- ◆ Support HDCP
- ◆ 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

SPECIFICATIONS

Item	Description	
Units	Transmitter (Source)	Receiver (Sink)
HDCP & DDC	HDCP 2.0 Fully Support bi-directional EDID and HDCP communication	
Video Bandwidth	6 Gbps/×3Channel (max) + Clock.	
Supported Resolution & Distance	PC: WUXGA 1920×1200 up to 100 meters, HDTV: 480p, 720p, 1080i and 1080p deep color, 4K(60P), 3DFull HD 1920×1080 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	Hybrid type with OM3 fiber and copper wire	
Cable Length	15m/20m/30m/40m/50m/60m/70m/80m/90m/100m (with +/-30cm tolerance) Custom length available.	
Cable Outer Diameter	4.2mm	
Jacket Outer Material	PVC/TPU(Custom)	
Cable Weight TBD	Cable Weight TBD	
Cable Color TBD	Coble Color TBD	
Differential Input	100 ohm (typ)	
Power Consumption	250mW (max)	
Power Supply	Non external power required	

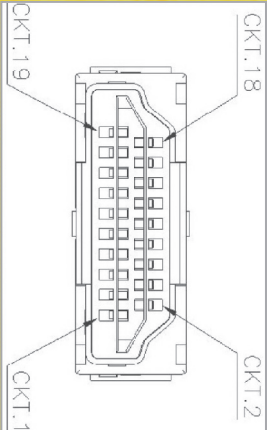
ABSOLUTE MAXIMUM RATING

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

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	T.M.D.S. Clock+		

INSTALLATION

To Source, ex. DVD, PC

To Sink, ex. TV

