

SPECIFICATIONS



SHDC-8700 Series

HDMI 2.0 AOC

DESCRIPTIONS

Our HDMI Active Hybrid Cable is the most competitive long reach HDMI interconnection solution on the market. It supports HDMI Maximum Data Rate 18Gbps with light weight, flexible and ultra-small long-term bending radius (60mm) hybrid cable. With our advanced optical engine embedded. This HDMI Hybrid Cable provides full HDMI signal integrity, support up to 200m maximum length, plug and play. No external power required.

KEY FEATURES

- ◆ Up to 200m 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

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

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/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 200 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	10m/15m/20m/30m/40m/50m/60m/70m/80m/90m/100m/200m(with +/-30cm tolerance) Custom length available.	
Cable Outer Diameter	4.8mm	
Jacket Outer Material	PVC/TPE(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	

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+		

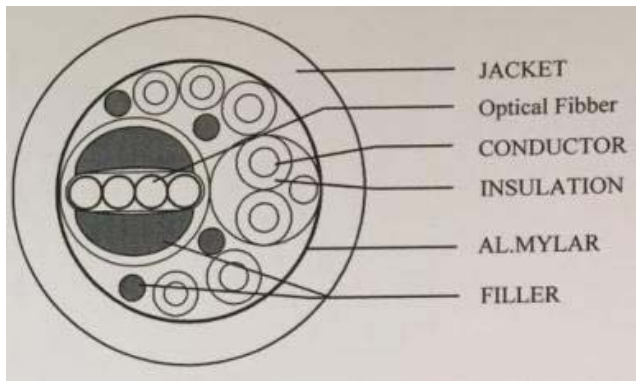
Installation

To Source, ex. DVD, PC

To Display, ex. TV



Hybrid Cable Profile



Ordering Information

Part Number	Description
SHDC-8700-010	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 10m
SHDC-8700-015	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 15m
SHDC-8700-020	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 20m
SHDC-8700-030	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 30m
SHDC-8700-040	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 40m
SHDC-8700-050	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 50m
SHDC-8700-060	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 60m
SHDC-8700-070	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 70m
SHDC-8700-080	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 80m
SHDC-8700-090	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 90m
SHDC-8700-100	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 100m
SHDC-8700-150	HDMI AOC , V2.0 , 4K 2K/60P , Suport EDID/HDCP , Length 150m

Packing Details:



**5PCS/CARTON
FOR 80M to 100M**



**10PCS/CARTON
FOR 10M to 70M**



Inner Box

Outer Carton

Packing Details Sheet:

Item No.	Length(m)	Box Size(mm)	CTN Size(mm)	PCS/CTN	N.W. (KG)/CTN	G.W. (KG)/CTN
SHDC-8700-010	10	240*225*75	470*385*255	10	7.0	8.0
SHDC-8700-015	15	240*225*75	470*385*255	10	8.5	9.5
SHDC-8700-020	20	240*225*75	470*385*255	10	9.5	10.5
SHDC-8700-030	30	240*225*75	470*385*255	10	12.0	13.0
SHDC-8700-040	40	240*225*75	470*385*255	10	14.5	15.5
SHDC-8700-050	50	290*275*75	565*385*300	10	20.5	21.5
SHDC-8700-060	60	290*275*75	565*385*300	10	22.5	23.5
SHDC-8700-070	70	290*275*75	565*385*300	10	25.0	26.0
SHDC-8700-080	80	340*325*75	390*350*343	5	15.0	16.0
SHDC-8700-090	90	340*325*75	390*350*343	5	16.0	17.0
SHDC-8700-100	100	340*325*75	390*350*343	5	17.5	18.5

