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DATA SHEET

HDMI 2.0 Active Optical Cable,

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Description

HDMI 2.0 active optical cable,enables to transmit 4K (4096x2160) at60Hz signal up to 100m (328feet) over plenum graded & LSZH hybrid cable. It avoidsany scaling or data compression for lessening a burden of data transmission.

is designed compact enough to be fitted into various installation environments with cutting edge technology performance. It gives slim, light, easy installation like a general copper HDMI cable. It can be operated by DDC 5V from HDMI port of HDMI source without any external DC power or USB power.

is compliant with HDMI standards features like CEC, EDID, and HDCP 2.2 for better installation flexibility and compatibility. It also supports HDR to deliver more realistic, and objective video signal.

Features

- Extends up to 4K (4096x2160) at 60Hz (RGB & YCbCr : 4:4:4)
- Transmits HDMI 2.0 data up to 100m (328feet) over hybrid cable
- Adopts plenum graded & LSZH (Low Smoke Zero Halogen) hybrid cable
- Operated by HDMI source without external power
- Supports 3D contents transmission
- Supports HDMI2.0 standards feature
- Complies with CEC, EDID, HDCP 2.2
- Supports HDR at 10 bit or 12 bit speeds respectively within its maximum bandwidth, 18Gbps

Applications

- Home AV system
- Control room
- Projectors and Displays for Conference room
- Console game



Absolute Maximum Ratings

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only. Functional operation of the device is not implied at these of any other conditions in excess of those given in the operational sections of the datasheet. Exposure to absolute maximum ratings for extended periods can adversely affect device reliability.

Parameter	Symbol	Min	Тур	Max	Units
Storage Temperature ¹	T _{ST}	-20		70	°C
Supply Volt ¹	V _{cc}		5	6	V
Relative Humidity ²	RH			90	%
Electrostatic Discharge	ESD	-12		+12	KV

Recommended Operating Conditions

Parameter	Symbol	Min	Тур	Max	Units
Bitrate/Channel	В			6	Gbps
Operation Temperature Range	То	0		50	°C
Supply Voltage	V _{cc}	4.8	5	5.2	V
Operating Current	I _{CC}		70	90	mA
Differential Impedance	R		100		ohm

Physical Characteristics

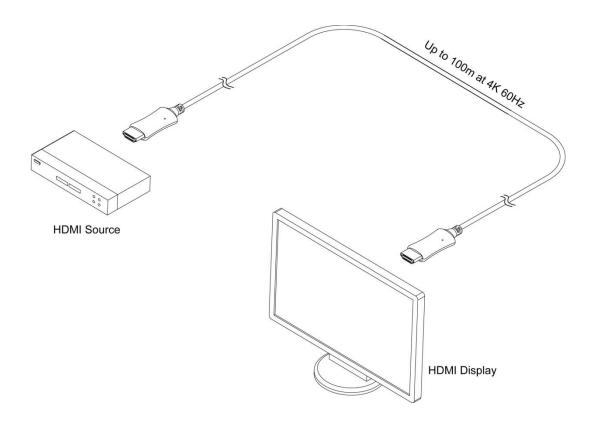
Parameter	Description
Cable Type	Hybrid Cable
	MMF(OM2) + 6C Electrical Wires
Cable Jacket	LSZH/Plenum
Cable Dimensions(WxH)	3.9 x 2.7 mm
Pull Strength	30 kg
Minimum Bend Radius	8 mm

 $^{^{1}}$ Stresses listed may be applied without causing damage. Functionality at or above the values listed is not implied. Exposure to these values for extended periods may affect reliability.

² Non-condensing environment.



Connection Diagram



Example: PC to HDMI Monitor Set-up

- □ Source: DVD player, PC, Set-top box, Console
- □ Display: UHD TV, 4K Projector, monitor

HDMI A-Type PIN Description

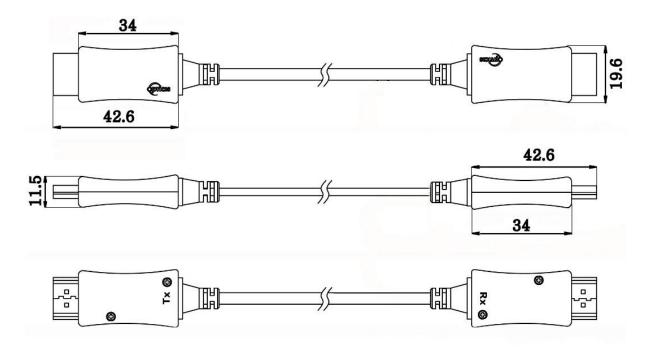
Pin Number	Symbol	Functional Description
1	CH2+	TMDS Data Signal Channel 2 Positive
2	GND	TMDS Data Signal Channel 2 Shield
3	CH2-	TMDS Data Signal Channel 2 Negative
4	CH1+	TMDS Data Signal Channel 1 Positive
5	GND	TMDS Data Signal Channel 1 Shield
6	CH1-	TMDS Data Signal Channel 1 Negative
7	CH0+	TMDS Data Signal Channel 0 Positive
8	GND	TMDS Data Signal Channel 0 Shield
9	СН0-	TMDS Data Signal Channel 0 Negative
10	CLK+	TMDS Clock Channel Positive



Dataprodukter utöver det vanliga

11	GND	TMDS Clock Channel Shield
12	CLK-	TMDS Clock Channel Negative
13	CEC	CEC Consumer Electronics Control
14	Utility	NC
15	SCL	SCL HDCP/DDC
16	SDA	SDA HDCP/DDC
17	GND	DDC/CEC Ground & DDC/CEC shield
18	+5V Power	+5V Power
19	HPD	HEAC-

Dimension (Unit/mm)



Size (L*W*H): 42.6x 19.6 x 11.5mm



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