

Model : ATZ AOC-AR-HDMI-V2.0-xxM (xx=Length)

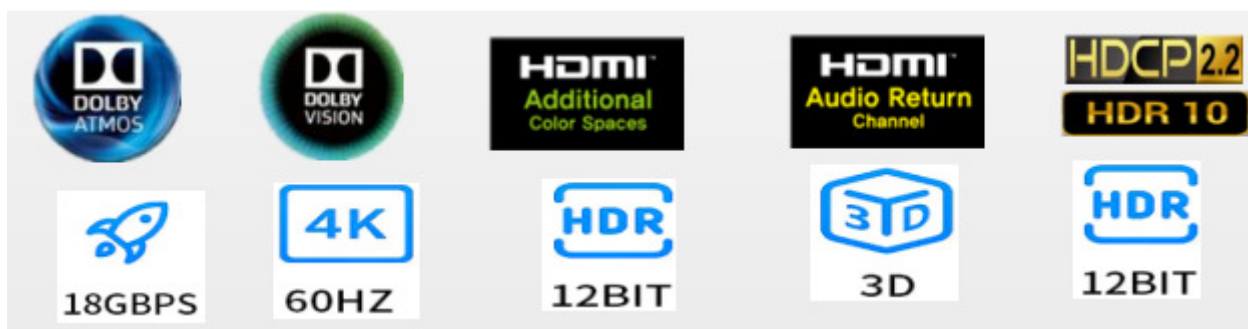
Description: Armoured HDMI Active Optical Cable V2.0 - 4K@60hz, 18Gbps
(10m/15m/20m/25m/30m/40m/50m/60m/70m/80m/90m/100m)



Laser brand: Philips or II-VI (Import

PHILIPS II-VI

Chipset brand: Silicon Line (Germar



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Armored

Optional: Cable Reel & Waterproof cap



Waterproof caps



Cable Reel

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This armored HDMI Active Hybrid Cable is the most competitive long reach HDMI interconnection solution on the market. It supports HDMI Data Rate of 18Gbps with light weight, flexible and ultra-small long-term bending radius (45mm). It is reinforced with a stainless steel and Kevlar armour to protect the fibers, with heavy-duty connectors with covers, this cable is perfectly suited for the harshest use and abuse at all environmental and surrounding conditions.

Features:

- Low Power Consumption: 250mW (max);
- Plug and Play;
- Compatible with HDMI 2.0 standard;
- Hybrid 4-core optical fiber transmits TMDS signals, 7-core tinned copper transmits signalling protocol. Anti-electromagnetic interference, No attenuation.
- Support long transmission distance, the longest over 150 meters. (custom length available)
- Imported Photoelectric conversion chip to improve compatibility, stability and service life.
- Support HDCP2.3;
- Self-detecting function for EDID information;
- No loss of signal – delivering crystal clear digital images instantly;
- Supports computer resolutions to 1080P and 4K2K(60P);
- Supports 16bit/24bit (RGB/YCbCr) Deep Color depth, HDR, CEC, 3D and ARC
- Both HDMI connectors can be further protected by IP68-rated waterproof hood and caps.
- Crush Resistance: Long term 100kg; Short term 200kg.
- Zinc alloy shell Anti-electromagnetic interference increase wear resistance and improve service life.

***Remarks:** This is a uni-directional cable. Please ensure correct connection with connector ends labelled with “source” and “display”. The cable will not be damaged, nor will it cause the connected devices to be damaged, due to wrong connection.

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:

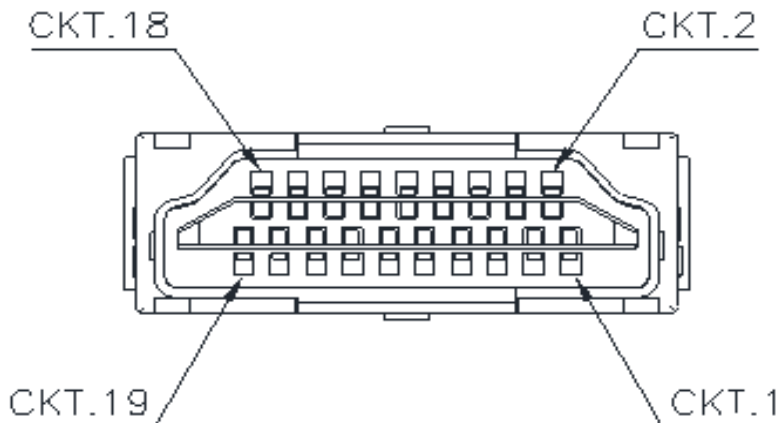
Item	Description	
	Transmitter (Source)	Receiver (Sink)
Units		
HDCP & DDC	HDCP 2.3 Fully Support bi-directional EDID and HDCP communication	
Video Bandwidth	18Gbps/ 6Gbps x 3 Channel (max)+ Clock.	
Supported Resolution & Distance	PC: WUXGA 1920x1200 up to 100m, HDTV : 480p, 720p,1080i and 1080p deep color, 4K(60P), 3DFull HD 1920 x 1080 up to 100m	
Colour Space	4:4:4 Max	
O/E Converter	4 channel 850 nm VCSEL array	4 CH GaAs PD array
Chip	Imported photoelectric conversion chip	
Connector Type	HDMI type A	
Cable Type	Armored Hybrid type with OM3 fiber and OFC copper wire 24AWG/30AWG (19/0.06TC)	
Cable Shielding	double layer aluminum foil	
Cable Length	15m/20m/30m/40m/50m/60m/70m/80m/90m/100m (with +/- 30cm allowance) Custom length available.	
Cable Outer Diameter	5.8mm	
Shell	Zinc alloy	
Cable Reinforcing	Stainless Steel and Dupont Kevlar armor to protect	

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material	
Jacket Outer Material	TPU(Custom)
Cable Weight TBD	Cable Weight TBD
Cable Color TBD	Cable Color TBD
Differential Input	100 ohm (typ)
Compliants	RoHS 2.0 & REACH compliant
Power Consumption	250mW (max)
Power Supply	Non external power required

HDMI Type A Pin Assignment:



HDMI Type A Connector Pin Assignment

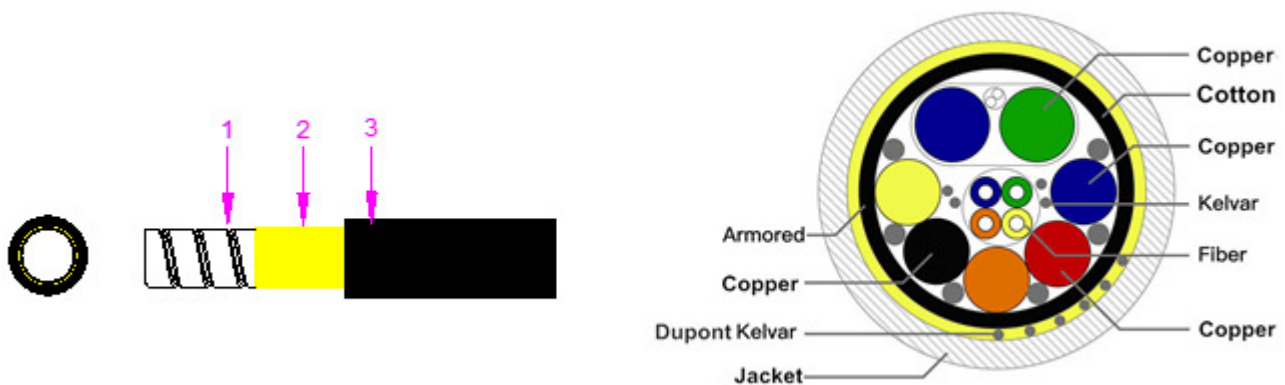
PIN	Function	PIN	Function
1	T.M.D.S. Data 2+	11	TMDS Clock Shield
2	T.M.D.S. Data 2 Shield	12	TMDS Clock-
3	T.M.D.S. Data 2-	13	CEC
4	T.M.D.S. Data 1+	14	Utility
5	T.M.D.S. Data 1 Shield	15	SCL
6	T.M.D.S. Data 1-	16	SDA
7	T.M.D.S. Data 0+	17	DDC/CEC Ground

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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+		

Hybrid Cable Profile:



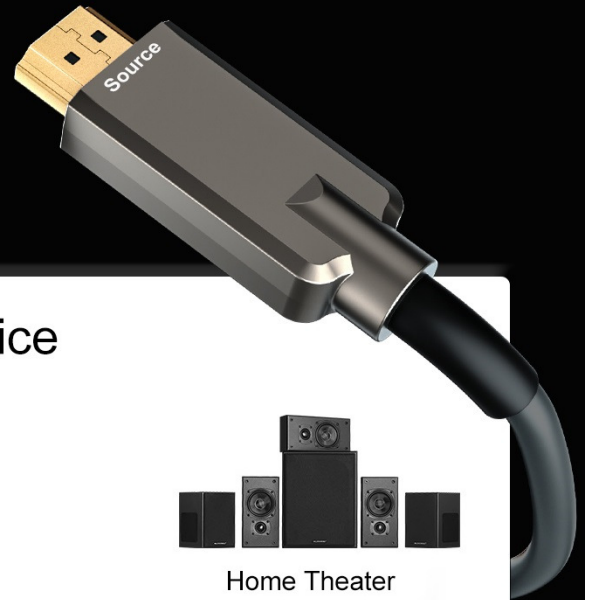
Cable Structure		Material/Model	Specifications
1	Metal Tube	200CU Stainless steel	4.4±0.1
2	To strengthen the unit	Dupont Kevlar	1670D*4
3	Jacket	TPU	OD 5.8±0.2 mm

Tensile(N)		Crush Resistance(N/100mm)		Bending Radius(mm)		Temperature(°C)
Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
400	800	1000	2000	10D	20D	

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Compatible with All



Source Device



PS5/PS4



Xbox



Home Theater



Apple TV



Laptop



Blu- Ray Player

Display Device



HDTV



Monitor



Projector



This cable works with all HDMI ports & support max speed only on HDMI 2.1 ports

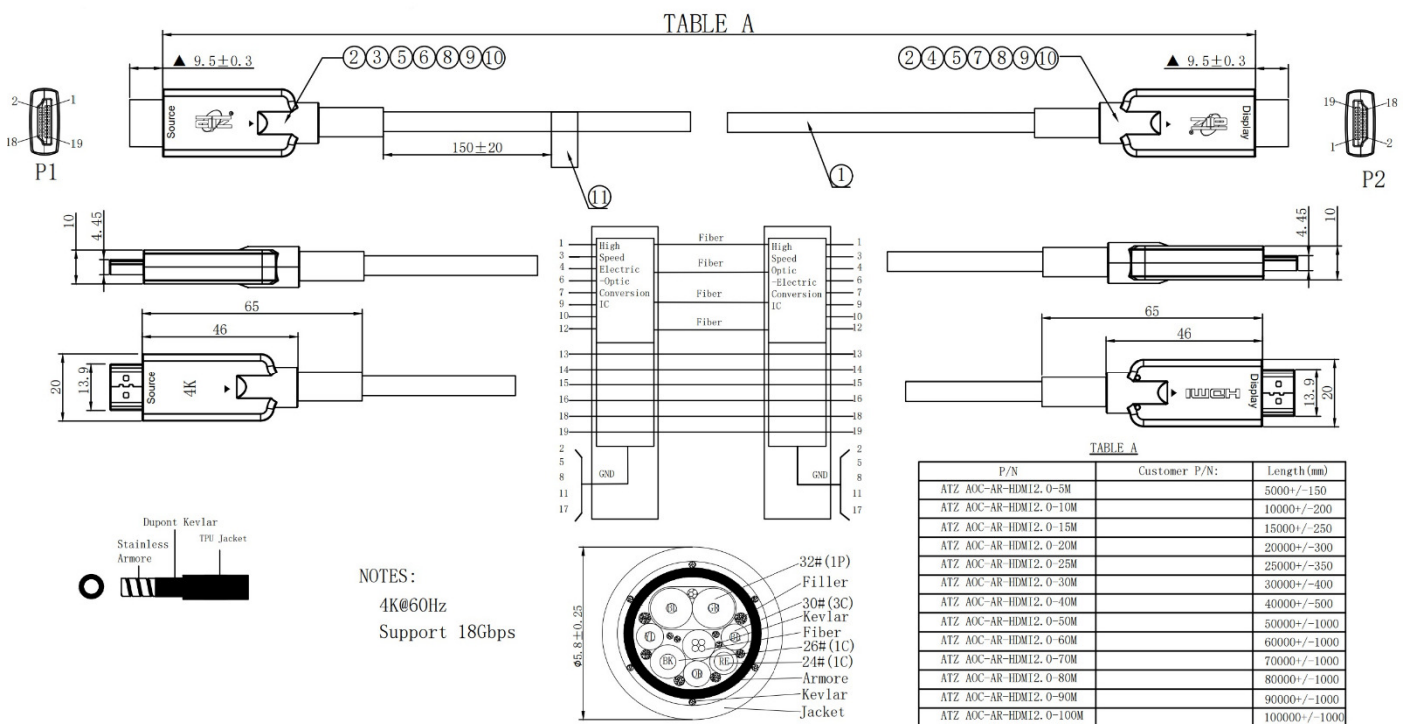
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Package Includes:

1x Armored HDMI Active Optical Cable HDMI 2.0

Product Diagram:



Warranty: 2 Years

Warranty is effective from the date of original delivery.

This warranty shall be void if a serial number has been removed from the product.



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