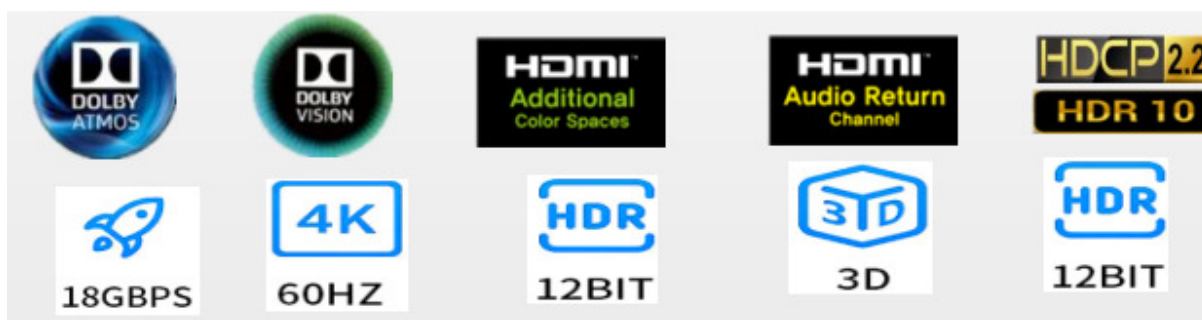**Model**   : ATZ AOC-HDMI2.0-xxM (xx=Length)
Description: HDMI Active Optical Cable v2.0 - 4K@60hz, 18Gbps 4:4:4
              (10m/15m/20m/25m/30m/40m/50m/60m/70m/80m/90m/100m)

®

aTZ
Your Trusted Connectivity Solutions!

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 (2cm) hybrid cable. With our advanced optical engine embedded. This HDMI Hybrid Cable provides full HDMI signal integrity, support up to 100m maximum length, plug and play. No external power required.

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Features:

- Low Power Consumption: 250mW (max). (Power Required)
- Plug and play, no need external power support,no drivers program required 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
- 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 "➔ to source" and "to display➔".
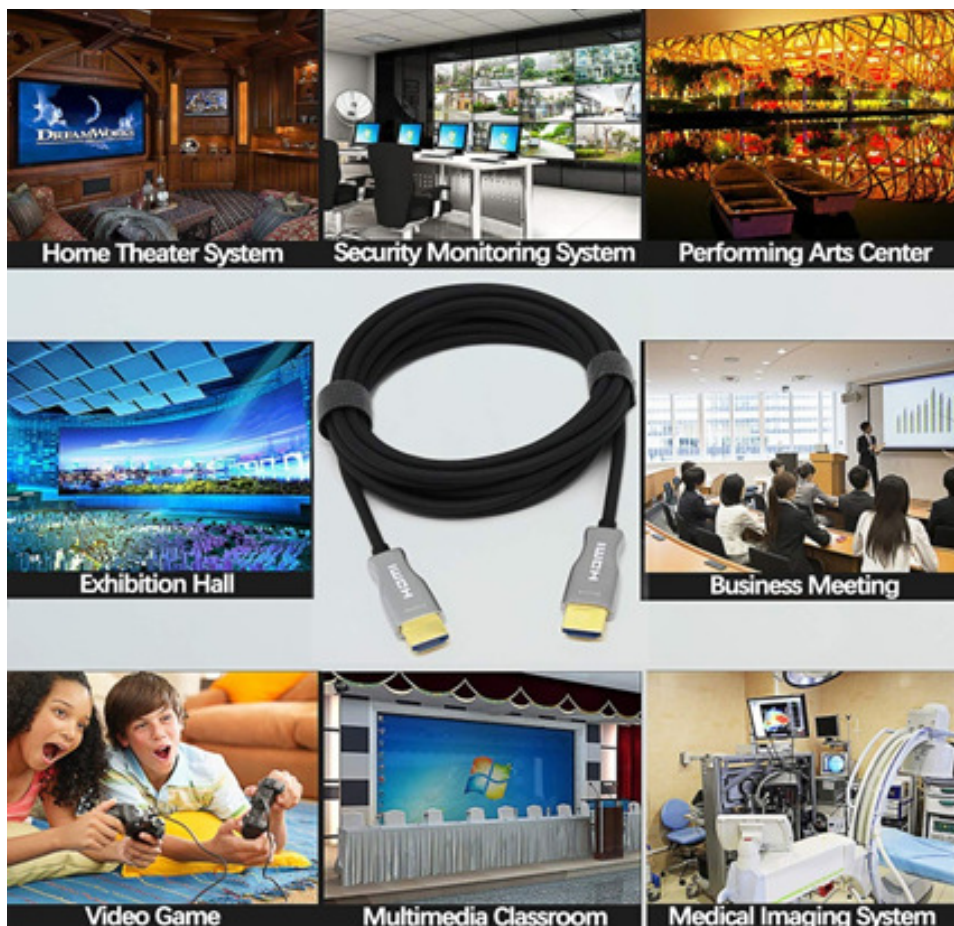The cable will not be damaged, nor will it cause the connected devices to be damaged, due to wrong connection.

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	0		50	°C

Model : ATZ AOC-HDMI2.0-xxM (xx=Length)
Description: HDMI Active Optical Cable v2.0 - 4K@60hz, 18Gbps 4:4:4
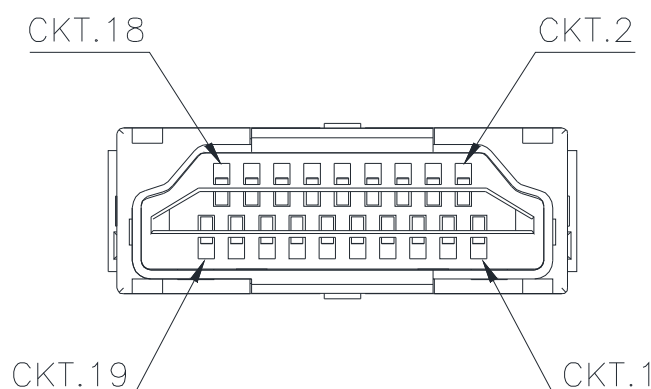(10m/15m/20m/25m/30m/40m/50m/60m/70m/80m/90m/100m)

Specifications:

Resolution	4K@60Hz (downward compatible)
Bandwidth	18Gbps
Chip	Imported photoelectric conversion chip
Color space	4:4:4 Max
Color depth	12 bit Max
Type	Male - Male
Core	4-core fiber + 7-core tinned copper
Cable Type	Hybrid type with OM3 fiber and OFC copper wire 24AWG/30AWG (19/0.06TC)
Outer diameter	5.2mm
Shell	Zinc alloy
Jacket	PVC, RoHS Directive-compliant
Power supply	No external power supply required, plug and play
Support	HDCP 2.3/HDR10/EDID/CEC/DDC/ARC/3D
Power consumption.	250mW
Voltage/Current	5V/50mA
Working temperature	-40℃~70℃

Your Trusted Connectivity Solutions!

HDMI Type A Pin Assignment

CKT.18   CKT.2

CKT.19   CKT.1

HDMI Type A Connector Pin Assignment

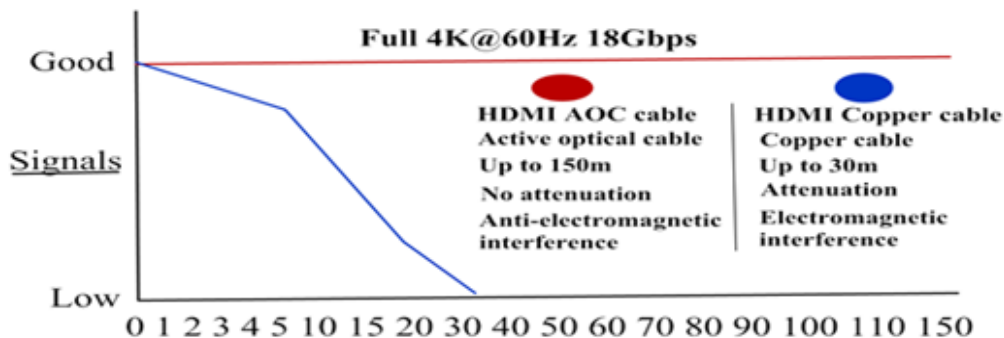| PIN	Function	PIN	Function
1	T.M.D.S. Data 2+	11	TMDS Clock Shield
2	T.M.D.S. Data 2 Shield	12	TMDS Clock-
3	T.M.D.S. Data 2-	13	CEC
4	T.M.D.S. Data 1+	14	Utility
5	T.M.D.S. Data 1 Shield	15	SCL
6	T.M.D.S. Data 1-	16	SDA
7	T.M.D.S. Data 0+	17	DDC/CEC Ground
8	T.M.D.S. Data 2 Shield	18	+5V Power
9	T.M.D.S. Data 0-	19	Hot Plug Detect
10	TMDS Clock+		

Warranty: 2 Years

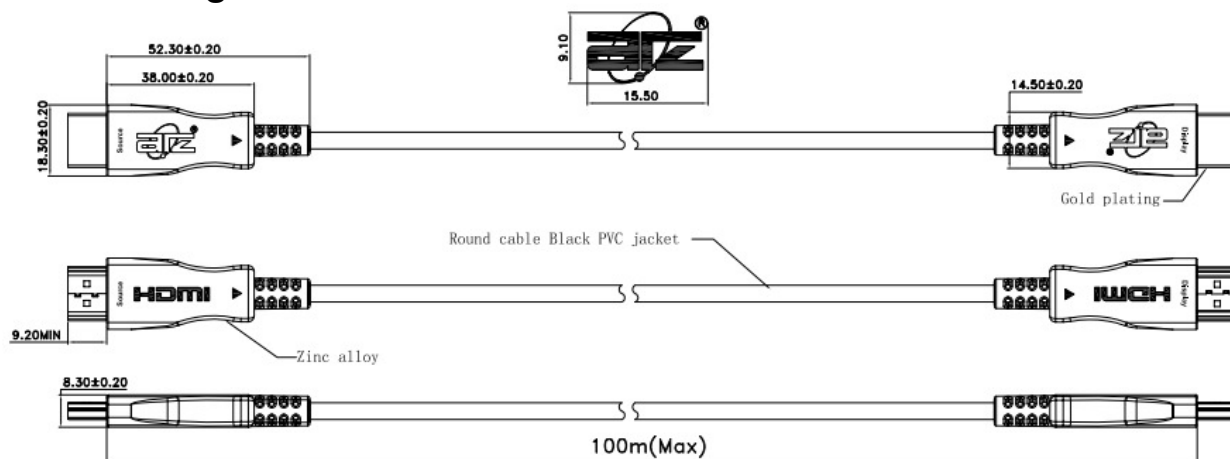Warranty is effective from the date of original delivery.
This warranty shall be void if a serial number has been removed from the product.

Model : ATZ AOC-HDMI2.0-xxM (xx=Length)
Description: HDMI Active Optical Cable v2.0 - 4K@60hz, 18Gbps 4:4:4
(10m/15m/20m/25m/30m/40m/50m/60m/70m/80m/90m/100m)

Full 4K@60Hz 18Gbps

HDMI AOC cable	HDMI Copper cable
Active optical cable	Copper cable
Up to 150m	Up to 30m
No attenuation	Attenuation
Anti-electromagnetic interference	Electromagnetic interference

Good — Signals — Low
0 1 2 3 4 5 10 15 20 30 40 50 60 70 80 90 100 110 150

Product Diagram:

52.30±0.20
38.00±0.20
18.30±0.20
9.10
15.50
14.50±0.20
Gold plating

Round cable Black PVC jacket

9.20MIN
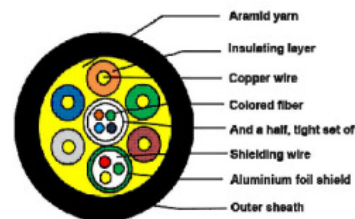Zinc alloy

8.30±0.20
100m(Max)

NOTE:
* Supports computer resolutions to 4K@60Hz@4:4:4
* Plug and Play
* Compatible with HDMI 2.0 standard.
* Support HDCP2.2@ARC
* Self-detecting function for EDID information
* No loss of signal
* Hybrid optical cable with fiber and copper wire
* PIN gold plated, shell gold plated
* Environmental Specifications:For Indoor use only;
* Operating temperature:-40℃ to 70℃
* Minimum bending radius 20mm
* Max.tension force:100N
* Powered via HDMI devices
* 4core OM3 Multimode Fiber(high speed data)and 7core copper cable
* Round cable Black PVC jacket
* RoHS 2.0 & REACH compliant
* Packing:package 1pc reel

Model No.

ATZ FO-HDMI-CABLE-V2.0-10M
ATZ FO-HDMI-CABLE-V2.0-15M
ATZ FO-HDMI-CABLE-V2.0-20M
ATZ FO-HDMI-CABLE-V2.0-30M
ATZ FO-HDMI-CABLE-V2.0-40M
ATZ FO-HDMI-CABLE-V2.0-50M
ATZ FO-HDMI-CABLE-V2.0-60M
ATZ FO-HDMI-CABLE-V2.0-70M
ATZ FO-HDMI-CABLE-V2.0-80M
ATZ FO-HDMI-CABLE-V2.0-90M
ATZ FO-HDMI-CABLE-V2.0-100M

Aramid yarn
Insulating layer
Copper wire
Colored fiber
And a half, tight set of
Shielding wire
Aluminium foil shield
Outer sheath

	ATZ						
UNLESS OTHERWISE SPECIFIED TOLERANCE				Drawing Number		Date	Name
ANG	TOL	DIM	TOL	Drawer	CLH	2020.11.16	HDMI 2.0 AM-AM(AOC)
.X	±3.0°	.X	±0.10	Auditor			Model
.XX	±2.0°	.XX	±0.05	Authorizer			Unit: mm, Proportion 1:1, Page 1/1, Versions 1
.XXX	±1.0°	.XXX	±0.03				