



www.avishop.com
 Tel:832-831-6180
 Support:customerservice@avishop.com

USER MANUAL

HDMI 2.0b AOC Cable

INTENDED USE

This product is intended for indoor use only. Do not use it outdoors. Contact with moisture, e.g. in bathrooms, must be avoided under all circumstances.

For safety and approval purposes, you must not rebuild and/or modify this product. If you use the product for purposes other than those described above, the product may be damaged. In addition, improper use can cause hazards such as short circuiting, fire, electric shock etc.

Read the instructions carefully and keep them. Make this product available to third parties only together with its operating instructions.

SAFETY INSTRUCTIONS

Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling in this manual, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.

The device is not a toy. Keep it out of the reach of children and pets.

The maximum pulling tensile load of the cable is 150N (15kg). Never pull the cable with higher load.

The minimum bending radius of the hybrid cable is approximately 48mm, bending the cable to a smaller radius will irreversibly destroy the cable.

Pay attention to trip hazards; make sure that the cable is installed safely.

HDMI 2.0b AOC Cable

Supports 3D, 4Kx2K@60Hz(YUV 4:4:4) HDCP 2.2



INTRODUCTION

Thank you for purchasing the Fiber Optic HDMI 2.0 AOC Cable. This Cable allows you to transmit HDMI signals to a distance of up to 100m without external power supply. This cable is a hybrid cable containing both fiber optic and copper cores.

Our HDMI Active Hybrid Cable is the most competitive long distance HDMI interconnection solution on the market. It supports a maximum data rate of 6Gbps per channel, is light weight, flexible, and has an ultra-small fixed installation bending radius of 48mm.

With our advanced optical engine embedded the HDMI Hybrid Cable provides full HDMI signal integrity.

Do not leave packaging material lying around carelessly. These may become dangerous playing material for children.

Protect the product from extreme temperatures, direct sunlight, strong jolts, high humidity, moisture, flammable gases, vapors and solvents.

Do not place the product under any mechanical stress. If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. Safe operation can no longer be guaranteed if the product:

- is visibly damaged,
- is no longer working properly,
- has been stored for an extended period in poor ambient conditions or
- has been subjected to any serious transport-related stresses.

Please handle the product carefully. Jolts, impacts or a fall even from a low height can damage the product.

Also observe the safety and operating instructions of any other devices which are connected to the product.

Consult an expert when in doubt about the operation, safety or connection of the device.

DELIVERY CONTENT

1x HDMI 2.0b AOC Cable

FEATURES

- This HDMI 2.0b AOC Cable has many features that enable it to perform in a superior manner. Among those features you will find:
- Supports HDMI 2.0b specification with data rates up to 18Gbps
 - Supports HDCP1.4 & HDCP2.2
 - Supports resolutions up to Ultra HD 4K (3840x2160) 60Hz,4:4:4
 - Supports computer resolutions including 1080P and 4K2K (60Hz)
 - Supports 48 bit color depth (16bit per channel)
 - Supports lossless HDMI audio formats like Dolby True HD and DTS-HD, etc.
 - Supports ARC, HEC and CEC
 - Supports EDID incl. self-detecting function
 - Long-term bending radius (48mm)
 - Plug and Play
 - Low Power Consumption: 250mW (max) (Power Required)
 - No loss of signal
 - Delivering crystal clear digital images instantly

Item	Description	
Units	Transmitter (Source)	Receiver (Display)
HDMI Version	HDMI 2.0b, Fully Support bi-directional EDID and HDCP communication HDCP1.4/2.2 pass through ,Audio, CEC, support HEC&ARC	
Video Bandwidth	18Gbps - 6 Gbps per Channel + Clock.	
Supported Resolution & Distance	Max. resolutions: 2160p60 4:4:4 8/10bit PC: WUXGA 1920x1200 up to 100 meters HDTV: 480p, 720p, 1080i and 1080p deep color, 4K (60P), 3D Full HD 1920x1080 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 Outer Diameter	4.5mm	
Jacket Outer Material	PVC	
Differential Input	100 Ohm	
Power Consumption	250mW (max.)	
Power Supply	Non external power required	
Passive Power Supply	4.75-5.5 V	

Environmental Conditions

Operating Temperature	-10-50 °C
Storage Temperature	-20-60 °C
Relative Humidity	10-80 %RH

Mechanical properties and Environmental performance

Item	Units	Specified values
Tensile strength(Long-term)	N	Up to150
Crush resistance(Long-term)	N/100mm	300
Minimum bending radius (dynamic)	mm	20D*
Minimum bending radius (static)	mm	10D*

*D = the diameter of the cable body, in this case it is 4.8mm

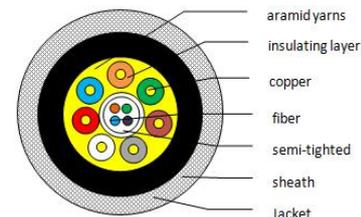
CROSS SECTION

Construction:

Hybrid cable, fiber (high speed data) & copper (low speed signals)

Cable construction:

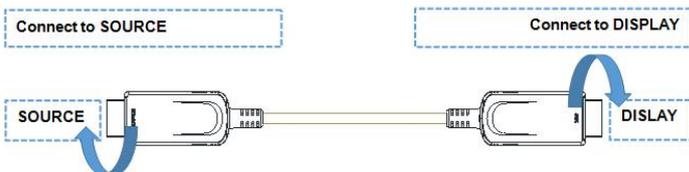
- 4 fiber cores and 7 cooper conductors
- Cable jacket: PVC, diameter ~4.5mm
- Connector dimensions ~39x20x9mm.
- Connector material: Zinc-Alloy



OPERATION AND CONNECTION DIAGRAM ATTENTION

The HDMI AOC series is designed for use with the +5V passive power, supplied through pin 18 on the HDMI connection from the source device. This +5V connection, as well as powering the internal fiber optic module, is also carried through to the other sink via a full standard copper connection. Please make sure, that the source device is capable of delivering more than 500mA. This cable can only be used in one direction. The connectors are marked with "Source" and "Display". Each connector must be plugged into the correct port to avoid signal loss. Before using this cable, please make sure that all devices which will be connected with the AOC HDMI Cable are shut down and without power. Then you can start to connect the "source side" of the HDMI plug to the transmitter and connect the "display side" of the other HDMI plug to the receiver/display. This works without additional power supply. We do not recommend using any intermediate cables or adapters between the connections, as the signal transmission performance maybe attenuated.

Switch on the power of the device of the HDMI source and the display.



If the system does not work properly, see trouble shooting guide in next section.

WARRANTY

If your product does not work properly because of a defect in materials or workmanship, our Company (referred to as "the warrantor") will , for the length of the period indicated as below, **(Parts2)Years ,Labor(90) Days)** which starts with the date of original purchase ("Limited Warranty period"), at its option either(a) repair your product with new or refurbished parts, or (b) replace it with a new of a refurbished product. The decision to repair or replace will be made by the warrantor. During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

Mail-In Service

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

LIMITED WARRANTY LIMITS AND EXCLUSIONS

- 1) This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributable to acts of God.
- 2) THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE".THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.
- 3) PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.