



HDMI 2.1 Active Optical Cable(A To A)

Product number: 880304

Product Overview

AHH-H21-xxM is an HDMI 2.1 long-distance active optical cable that does not require external power and is plug and play, just like an ordinary copper cable. By combining optical fibers together with copper in the same cable, it can transmit a lossless HDMI 2.1 signal without compression or delay at a maximum resolution of 7680*4320@60Hz 4:4:4. Its PVC material sheath, zinc alloy shell, gold-plated copper shell connector, and availability in different lengths up to 100 meters are suitable for fixed installation, residential and other applications.



Product Features

- HDMI 2.1 active optical cable in distances up to 100 meters.
- Plug and play like a normal cable as external power is not necessary.
- Lossless video extension without compression or delay, 100% restoration of source signal.
- The transmission rate is 48Gbps and supports up to 7680*4320@60Hz.
- Constructed with PVC material sheath, zinc alloy housing, and gold-plated copper shell connectors.
- Made with multi-mode OM3 optical fiber and multi-strand tinned copper wire.
- Full-featured HDMI 2.1 interface, support HDR, HDCP, ARC, CEC and 3D
- Suitable for fixed installation, residential and other applications.
- Pair with Beetek' s DF and PCD Series cable reels for easy deployment.

Product view

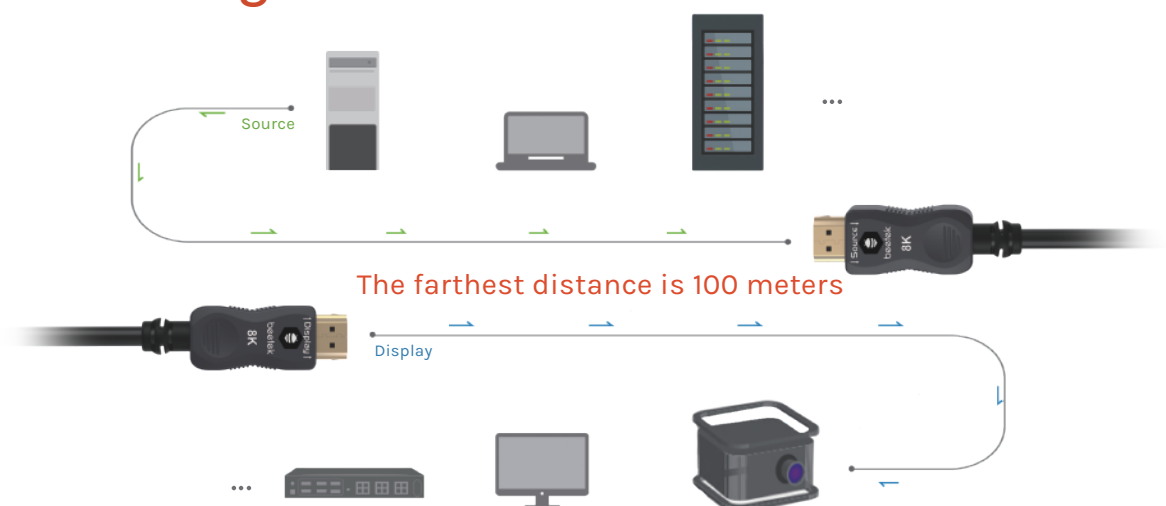


Product Specifications

Name	Specifications
Signal Type	HDMI2.1
Input Connector Type	HDMI Type A Male
Output Connector Type	HDMI Type A Male
Connector Gold Plating	Shell: 3μm; Pins: 15 μm
Connector Structure	Zinc Alloy mold
Connector Dimensions	64.5 * 19.7 * 11mm
In-wall Installation	Not supported
Power from connector (TX)	Yes
Power	250mW
Plug-n-Play	Yes
Cable Structure	Optical fiber + inner jacket + Kevlar + copper wire + aluminum foil + outer jacket
Fiber Type	Multi-mode OM3*4
Fiber Wavelength	850~1300nm
Copper Wire Material	Multi-strand tinned copper wire
Copper Wire Specification	24AWG*1, 26AWG*1, 28AWG*3, 30AWG*2
Cable Diameter	4.5mm
Jacket Material	80P PVC

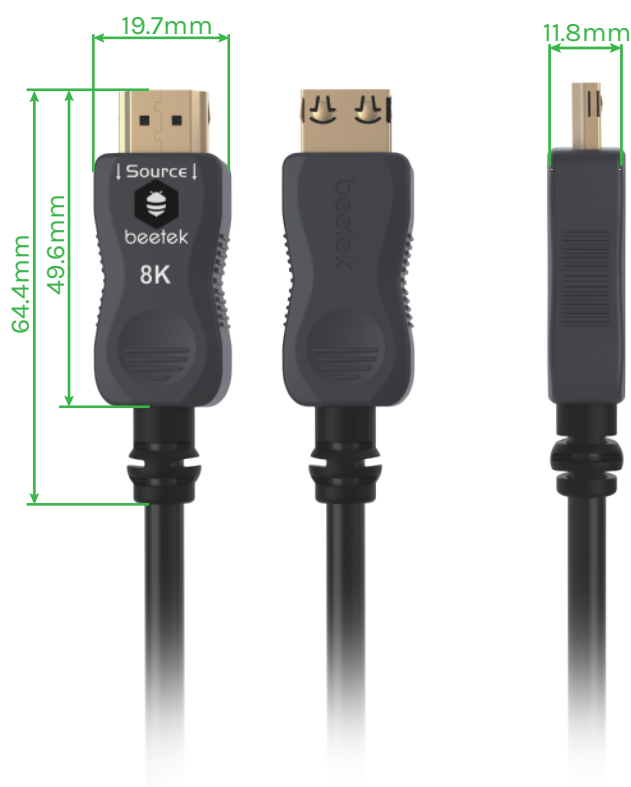
Name	Specifications
Jacket Color	Black
EDID	Pass-through
DDC	Yes
HDMI Audio	Yes
3D	Yes
CEC	Yes
ARC	Yes
HDCP	Yes(HDCP2.3)
HDR	Yes
XvYCC Color Space	Yes
Optical Module	4*12G Multi-mode optical module
Technical Characteristics	Photoelectric Conversion Technology
Optical Module Lifetime	100,000 hours
Resolution	3840*2160@60Hz
Clock Bandwidth	600MHz*3
Transmission Rate	48Gbps
Reclocking Chip	Support above 30 meters
Pixel Reclocking	Yes
ESD protection	Yes
Hot Swap	Yes
Delay	Zero frame delay
Compression	None
Sampling Rate	8~16bit within the bandwidth range
Sampling Ratio	RGB 4:4:4, YUV 4:4:4, YUV 4:2:2, YUV 4:2:0
Anti-jamming	Yes
Tensile Strength	≤200N
Compressive Strength	1000N /10cm
Minimum Bending Radius	Dynamic > 10D (*D is the outer diameter of the cable)
Operating Temperature	-30°C~80°C

Application Diagram



★ The AHH-H21-xxM is a unidirectional active optical cable, so please determine the correct direction before deploying cable.
(Connect the "Source" end to the signal output device and the "Display" end to the display device.)

Product Size



HDMI 2.0 Active Optical Cable(A To A)

Connector Type	HDMI Type A Male
Connector Dimensions	64.5 * 19.7 * 11mm
Cable Diameter	4.5mm



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