



# AHDxx-C

HDMI 2.0 Active Optical Cable  
(Single-end Detachable)

Product number:4.05

# Summary

**AHDxx-C** is an HDMI 2.0 long-distance active optical cable, which 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 2.0 signal without compression or delay at a maximum resolution of 3840x2160@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 installations and residential applications that require con-duit wiring.



# Product view

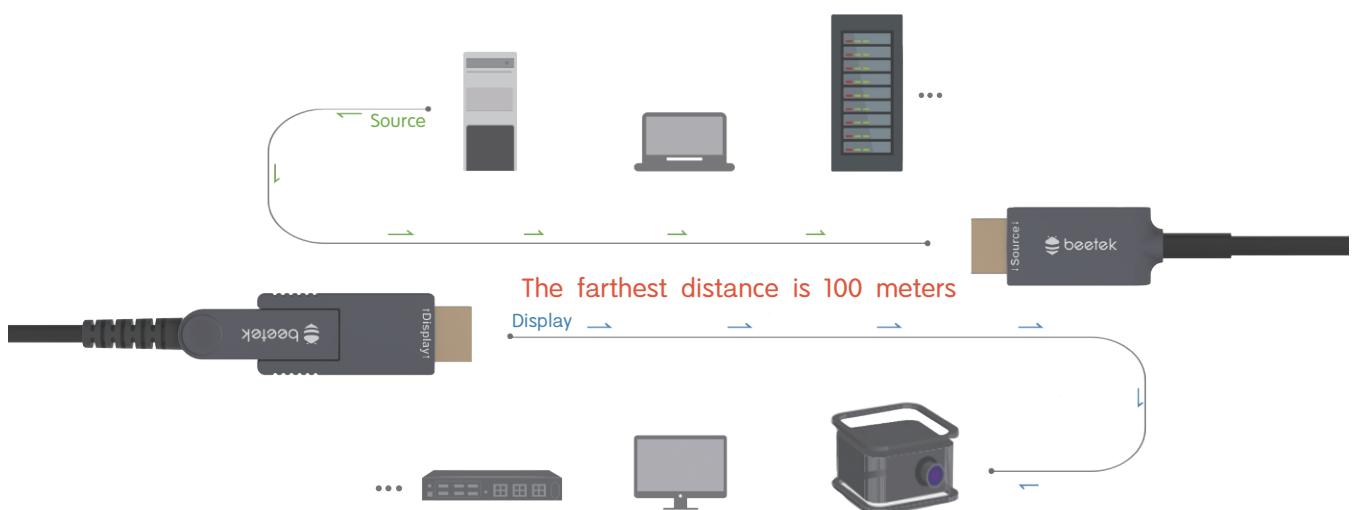


number	name	number	name
①	HDMI Type A Male		

## Technical Characteristics

- ✦ HDMI 2.0 active optical cable in lengths up to 100 meters, with one end detachable for laying in conduit.
- ✦ No power supply needed, just plug and play like a common cable.
- ✦ One end HDMI connector is detachable for easy laying in conduit.
- ✦ Lossless video extension without compression or delay, 100% restoration of source signal.
- ✦ The transmission rate is 18Gbps and supports up to 3840x2160@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 2.0 interface supports 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 Details



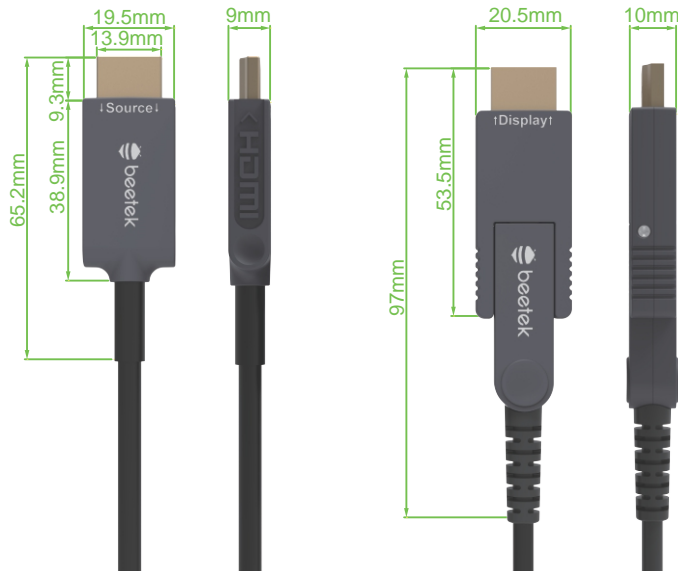
\* AHDxx-C is a unidirectional active optical cable, so please determine the correct direction before deploying cable  
(Connect the 'Source' end to the signal output device and the 'Display' end to the display device)

## Product parameter

name	parameter
Signal Type	HDMI2.0
Input Connector Type	HDMI Type A Male
Output Connector Type	HDMI Type A Male
Connector Gold Plating	Gold-plated Copper Shell
Connector Structure	Zinc Alloy mold
Connector Dimensions	HDMI Type A Male: 65.2 * 19.5 * 9mm; Detachable connector: 47.5 * 13.7 * 10.2mm
In-wall Installation	Yes
Power from connector (TX)	Yes
Cable power supply (RX)	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	7 multi-strand tinned copper wires
Copper Wire Specification	24AWG*1、26WAG*1、28AWG*3、30AWG*2,
Cable Diameter	4.5 mm
Jacket Material	80P PVC
Jacket Color	Black
EDID	Pass-through
DDC	Yes
HDMI Audio	Yes
3D	Yes
CEC	Yes
ARC	Yes
HDCP	HDCP2.3
HDR	Yes
XvYCC Color Space	Yes
Technical Characteristics	Photoelectric Conversion Technology
Optical Module Lifetime	100,000 hours
Resolution	3840x2160@60Hz
Clock Bandwidth	600MHz*3
Transmission Rate	18Gbps
Reclocking Chip	Support above 30 meters
Pixel Reclocking	Yes
ESD protection	Yes
Hot Swap	Yes

name	parameter
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	-30~80 ℃

## Dimensional drawing



- Connector Dimensions HDMI Type A Male: 65.2 \* 19.5 \* 9mm;  
Detachable connector: 47.5 \* 13.7 \* 10.2mm
- Packing Dimensions Short-length 10 - 40M: 240\*230\*75mm  
Medium-length 50 - 60M: 290\*280\*75mm  
Long-length 70 - 100M: 340\*330\*75mm