



## HDMI 2.0 Active Optical Cable(A To A)

## Product Overview

The AHH-H20-xxM is an HDMI 2.0 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 2.0 signal without compression or delay at a maximum resolution of 3840\*2160@60Hz 4:4:4 up to 100 meters. 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 2.0 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 18Gbps and supports up to 3840\*2160@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, 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

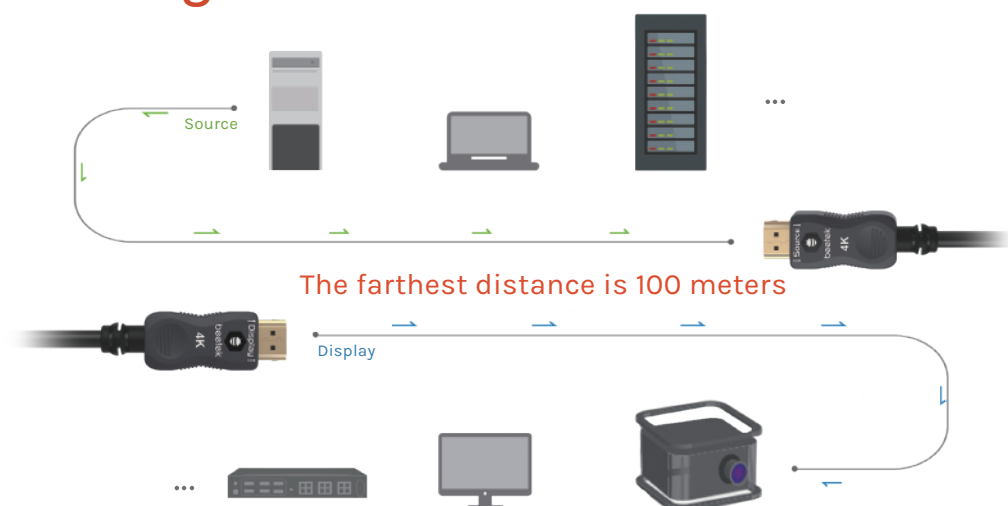


## Product Specifications

| Name                      | Specifications                                                                     |
|---------------------------|------------------------------------------------------------------------------------|
| Signal Type               | HDMI2.0                                                                            |
| 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      | 64.4 * 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                                          |
| Technical Characteristics | Photoelectric Conversion Technology          |
| Optical Module            | 4*6G Multi-mode optical module               |
| Optical Module Lifetime   | 100,000 hours                                |
| Resolution                | 3840*2160@60Hz                               |
| Clock Bandwidth           | 600MHz*3                                     |
| Transmission Rate         | 18Gbps                                       |
| 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    | ≥10D (*D is the outer diameter of the cable) |
| Operating Temperature     | -30°C~80°C                                   |

## Application Diagram



★ The AHH-H20-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       | AHH-H20            |
| Connector Dimensions | 64.4 * 19.7 * 11mm |
| Cable Diameter       | 4.5mm              |



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