

# GDH03-xxM

HDMI 2.0 TPU Armored Active Optical Cable

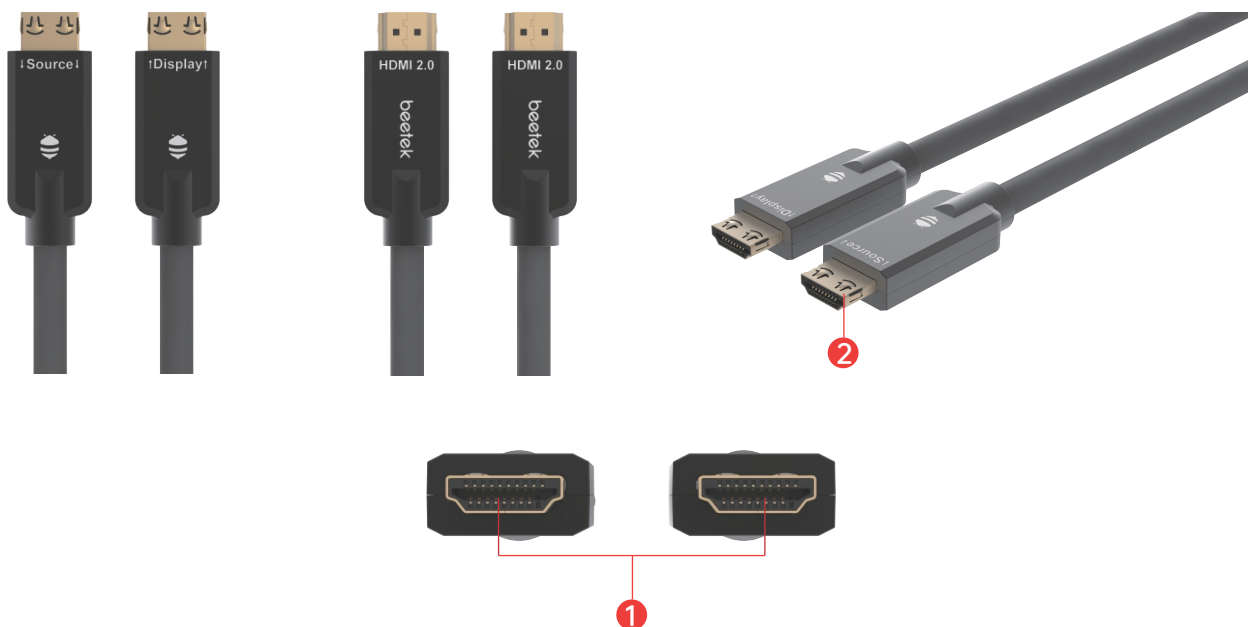
Product number:4.03

## Summary

**GDH03-xxM** is an HDMI 2.0 long-distance active optical cable, which does not require external power and is plug and play like ordinary HDMI cable. By combining optical fibers together with copper in the same cable, it can transmit a lossless HDMI 2.0 signal with maximum resolution of 3840x2160@60Hz 4:4:4 up to 100 meters. Beetek designed this fiber using flame retardant, tough and wear-resistant TPU sheathing, and the inside has stainless steel spiral armor piping, which provide superior tensile strength and resistance to compression. There are different lengths up to 100 meters to choose from, suitable for rental and staging, fixed installation, residential and other applications.



## Product view

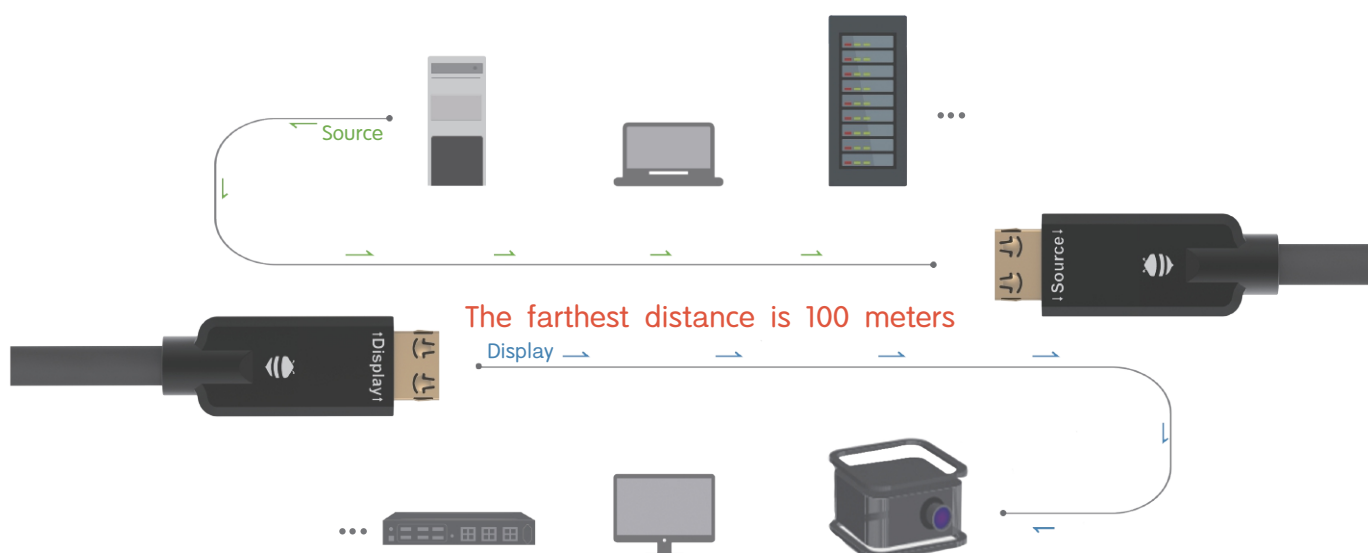


number	name	number	name
1	HDMI Type A Male	2	"C-LOCK" type HDMI connector provide

## Technical Characteristics

- ◆ HDMI 2.0 active optical cable available in lengths up to 100 meters.
- ◆ No power supply needed, just plug and play like an ordinary cable.
- ◆ Lossless video extension without compression or delay.
- ◆ 18Gbps transmission rate with maximum resolution of 3840x2160@60Hz.
- ◆ "C-LOCK" type HDMI connector provides a reliable connection.
- ◆ The pliable yet rugged TPU outer sheath and built-in armored spiral piping make the cable both durable and flexible at the same time.
- ◆ Constructed 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 rental and staging, fixed installation, residential and other applications.
- ◆ Pair with Beetek's DF and PCD Series cable reels for easy deployment.

## Product Details



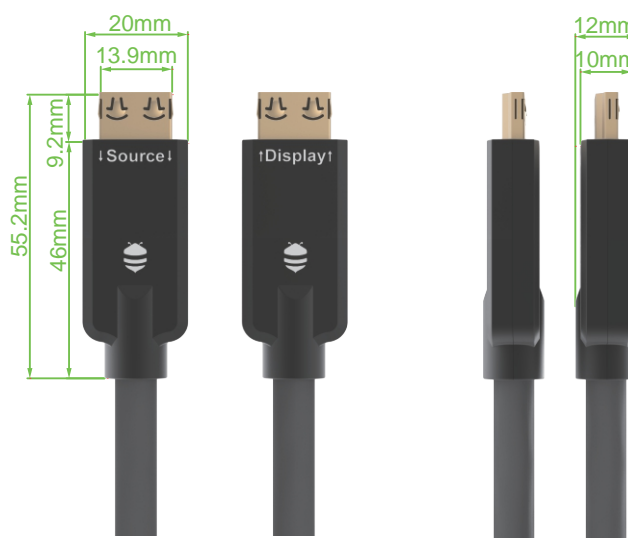
\* GDH03-xxM is a unidirectional active optical cable, so please determine the correct direction before deploying cable  
(Connect the 'Source' end to the signal output device and the 'Display' end to the display device)

## Product 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, 55.2 * 20 * 12mm
In-wall Installation	Not supported
Connector Fastening Type	"C-LOCK" type HDMI connector provide
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 + armored tube + outer jacket
Fiber Type	Multi-mode OM3-300 * 4
Fiber Wavelength	850~1300nm
Copper Wire Material	7 multi-strand tinned copper wires
Copper Wire Specification	24AWG*1, 26AWG*1, 28AWG*3, 30AWG*2
Cable Diameter	5.8mm
Spiral Tube Diameter	2.8mm ± 0.1mm
Spiral Tube Color	Silver
Spiral Tube Material	Stainless steel
Jacket Material	Matt Frosted TPU
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
Optical Module	4*10G Multi-mode optical
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

name	parameter
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	≤700N
Compressive Strength	2000N /10cm
Minimum Bending Radius	Dynamic > 10D; Static > 20D (*D is the outer diameter of the cable)
Operating Temperature	-30~80℃

## Dimensional drawing



- Connector Dimensions HDMI Type A Male, 55.2 \* 20 \* 12mm
- Packing Dimensions
  - Short-length 10 - 40M: 240\*230\*75mm
  - Medium-length 50 - 60M: 290\*280\*75mm
  - Long-length 70 - 100M: 340\*330\*75mm