



HDMI 2.1 TPU Armored Active Optical Cable

Product number: 990304

Product Overview

The GDH04-xxM is an HDMI 2.1 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 2.1 signal with maximum resolution of 7680*4320@60Hz 4:4:4 up to 100 meters. Beetek designed this fiber using premium silicone strain relief(SR), Locking HDMI connector, 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 and it is suitable for rental and staging, fixed installation, residential and other applications.



Product Features

- HDMI 2.1 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.
- 48Gbps transmission rate with maximum resolution of 7680*4320@60Hz.
- "Plug-sure" type HDMI connector provides a reliable connection.
- The premium silicone strain relief(SR), pliable yet rugged TPU outer sheath and built-in armored spiral piping make the cable both durable and flexible at the same time.
- Uses multi-mode OM3 optical fiber and multi-strand tinned copper wire.
- Full-featured HDMI 2.1 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 Views



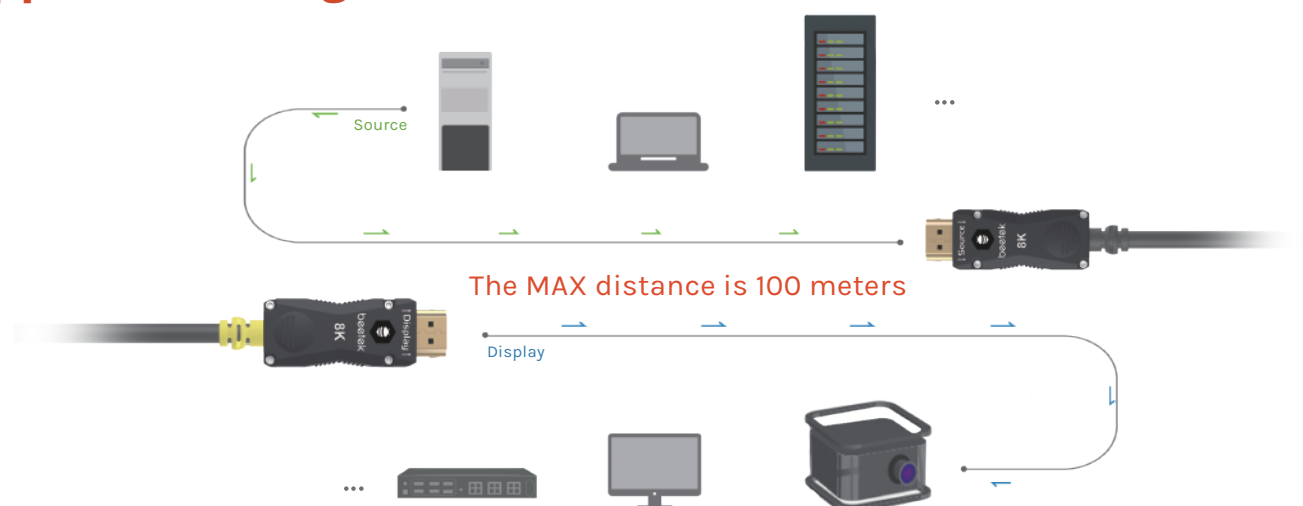
Number	Name	Number	Name
1	HDMI Type A Male	2	Silicone SR

Product Specifications

Name	Specification
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
Housing	Zinc Alloy
Connector Dimensions	66.8*20*18.7mm
In-wall Installation	Not supported
Connector Fastening Type	"Plug-sure" type HDMI connector
Power from connector (TX)	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* 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	5.8mm
Spiral Tube Material	Silver stainless steel
Spiral Tube Diameter	2.8mm±0.1mm

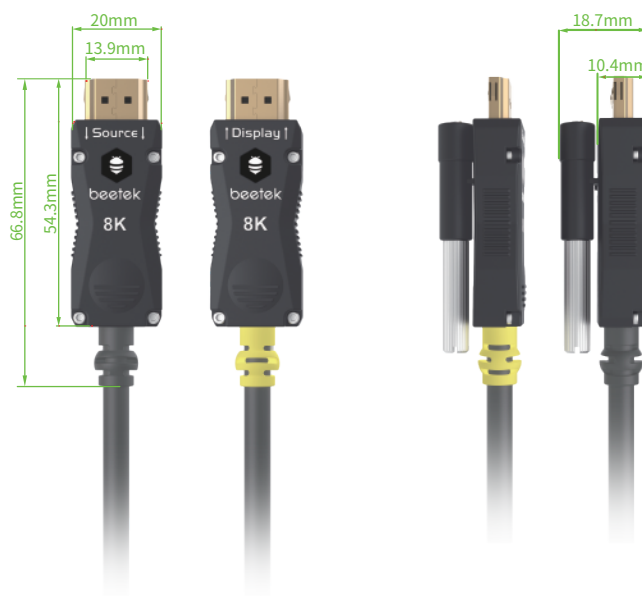
Name	Specification
Jacket Material	Matte TPU
Jacket Color	Matte frosted gray
EDID	Pass-through
DDC	Yes
HDMI Audio	Yes
3D	Yes
CEC	Yes
ARC	Yes
HDCP	Yes(HDCP2.3)
HDR	Yes
XvYCC Color Space	Yes
Optical Module	4*12G Multi-mode optical module
Technical Characteristics	Photoelectric Conversion Technology
Optical Module Lifetime	100,000 hours
Resolution	7680*4320@60Hz
Clock Bandwidth	1600MHz*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	≤700N
Compressive Strength	2000N /10cm
Minimum Bending Radius	≥10D (*D is the outer diameter of the cable)
Operating Temperature	-30°C~80°C

Application Diagram



- ★ The GDH04 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



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Connector Type	GDH04
Connector Dimensions	66.8*20*18.7mm
Cable Diameter	5.8mm



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