



GDH02-xxM

DP1.4 TPU Armored Active Optical Cable

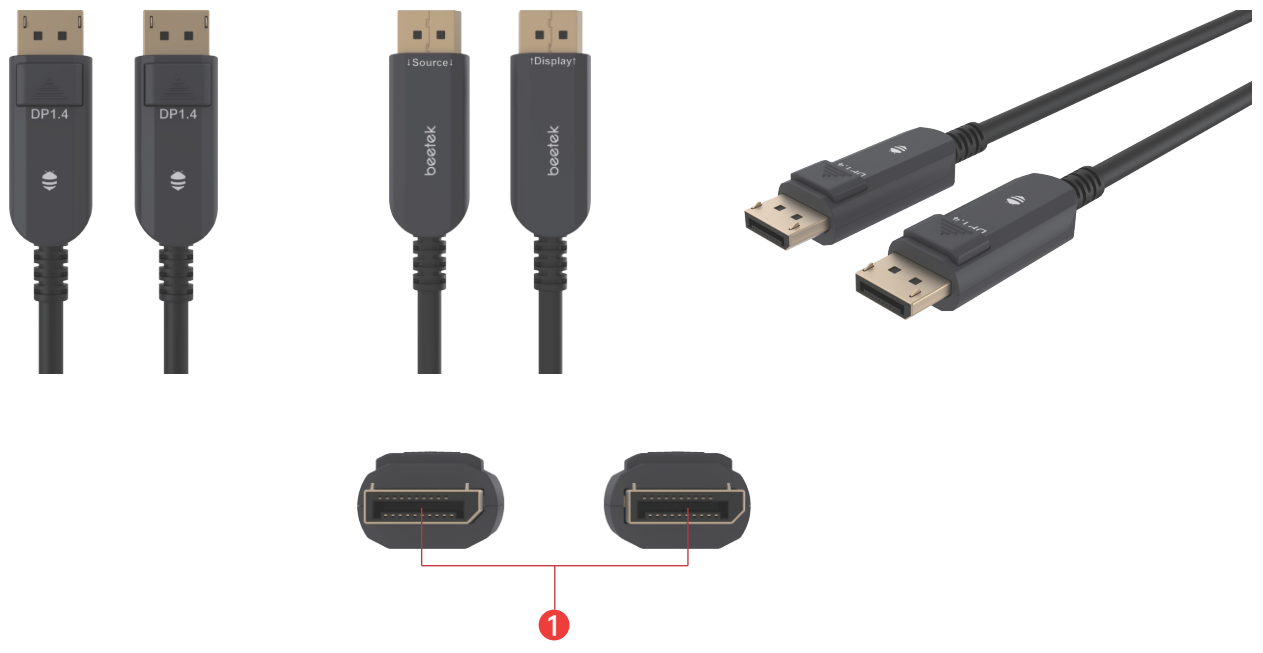
Product number:4.02

Summary

GDH02-xxM is a DisplayPort 1.4 long-distance active optical cable, which does not require external power and is plug and play like ordinary cable. The product transmits a DP1.4 signal over long distances via a hybrid cable of four optical fibers and eight copper wires using embedded optical engine technology, resulting in lossless transmission without compression or delay up to 7680×4320@30Hz 4:4:4. 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. Available in various lengths up to 100 meters. Suitable for rental and staging, fixed installation, residential and other applications.



Product view

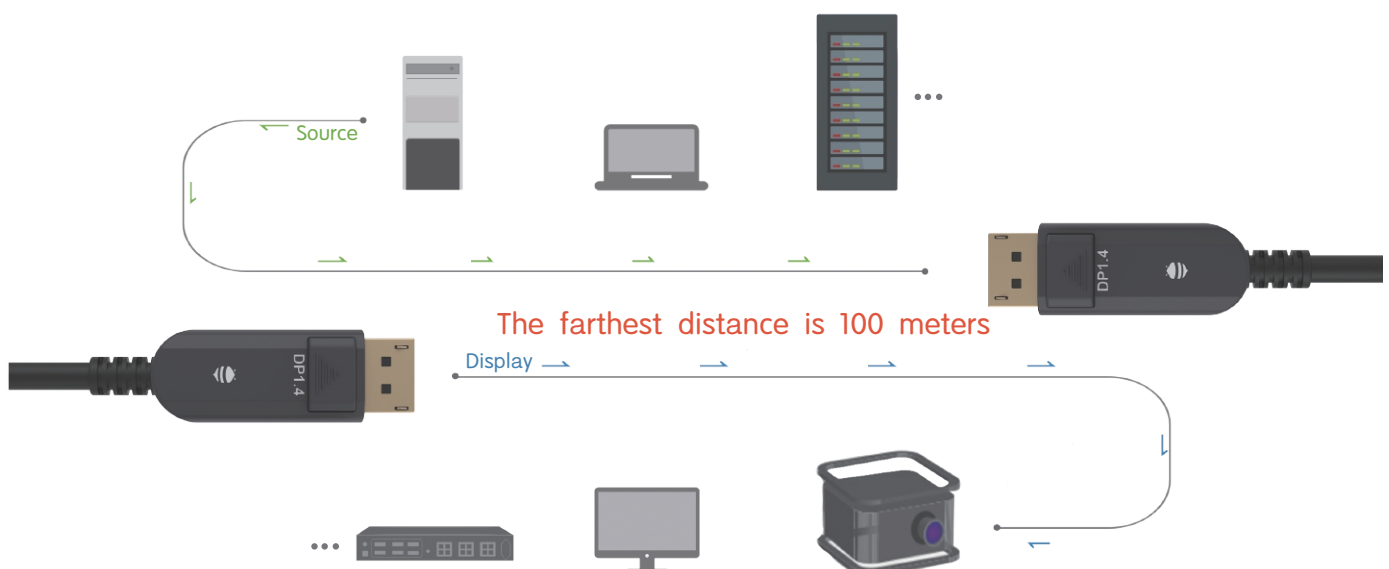


number	name	number	name
1	DP Male		

Technical Characteristics

- ◆ DP 1.4 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.
- ◆ 32.4Gbps transmission rate with maximum resolution of 7680×4320@30Hz.
- ◆ 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 DP1.4 interface supports HDR, HDCP, ARC, CEC, AUX and 3D.
- ◆ Suitable for rental and staging, fixed installation, and other applications.
- ◆ Pair with Beetek' s DF and PCD Series cable reels for easy deployment.

Product Details



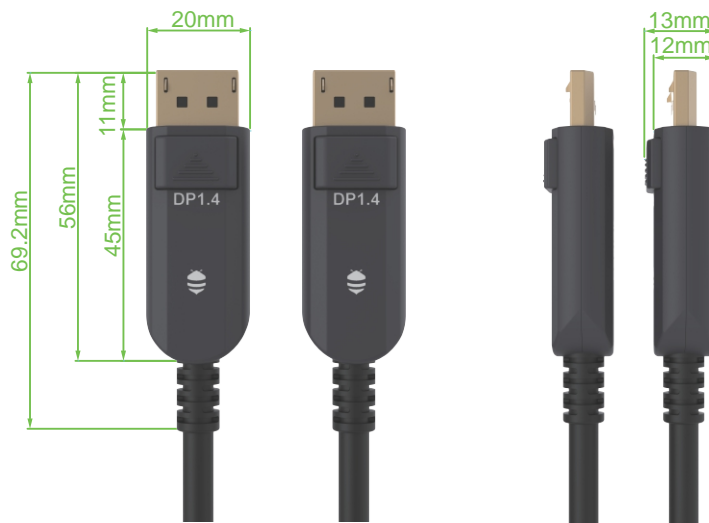
* GDH02-xxM is a unidirectional active optical cable, so please determine the correct direction before deploying cable (Connect the 'Source' end to the signal output device and the 'Display' end to the display device)

Product parameter

name	parameter
Signal Type	DPI.4
Input Connector Type	DP Male
Output Connector Type	DP Male
Connector Gold Plating	Gold-plated Copper Shell
Connector Structure	Zinc Alloy mold
In-wall Installation	Not supported
Connector Dimensions	DP Male, 69.2 * 20 * 13mm
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 * 4
Fiber Wavelength	850~1300nm
Copper Wire Material	8 multi-strand tinned copper wires
Copper Wire Specification	24AWG*1 、 26WAG*2、 28AWG*3、 30AWG*2,
Spiral Tube Diameter	2. 8mm ± 0. 1mm
Spiral Tube Color	Silver
Spiral Tube Material	Stainless steel
Cable Diameter	5.8mm
Jacket Material	TPU
Jacket Color	Black
EDID	Pass-through
3D	Yes
CEC	Yes
ARC	Yes
HDCP	HDCP2.3
HDR	Yes
AUX Channel	Yes
High-speed Ethernet	Yes
USB	USB2.0/USB3.1
Audio Channels	Yes
BT.2020 Color Space	Yes
Technical Characteristics	Photoelectric Conversion Technology
Optical Module Lifetime	100,000 hours
Resolution	7680×4320 30Hz
Clock Bandwidth	810MHZ*4
Transmission Rate	32.4Gbps
Power Amplification	Yes
Reclocking Chip	Support above 30 meters

name	parameter
Relocking Chip	Support above 30 meters
Pixel Relocking	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	Dynamic > 10D; Static > 20D (*D is the outer diameter of the cable)
Operating Temperature	-30~80℃

Dimensional drawing



- Connector Dimensions DP Male, 69.2 * 20 * 13mm
- Packing Dimensions
 - Short-length 10 – 40M: 240*230*75mm
 - Medium-length 50 – 60M: 290*280*75mm
 - Long-length 70 – 100M: 340*330*75mm