



DP1.4 TPU Armored Active Optical Cable

Product number: 990302

Product Overview

The 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@60Hz 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 Features

- 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@60Hz.
- 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, 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 Views

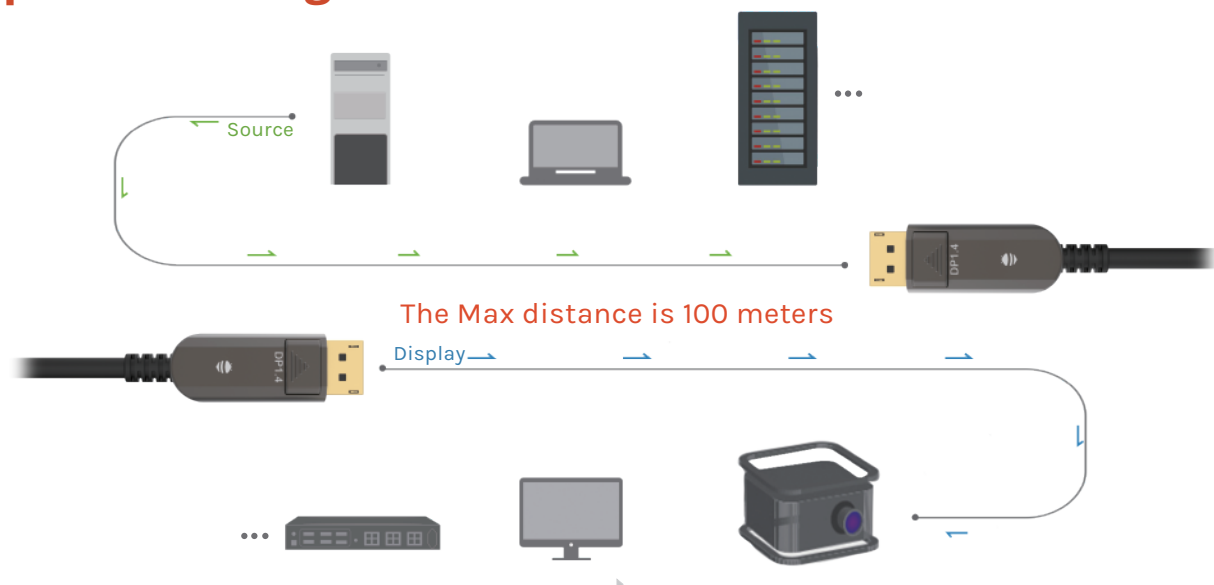


Product Specifications

Name	Specification
Signal Type	DP1.4
Input Connector Type	DP Male
Output Connector Type	DP Male
Connector Gold Plating	Shell: 3µm; Pins: 15 µm
Housing	Zinc Alloy
Connector Dimensions	69.2 * 20 * 13mm
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 + 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*2, 28AWG*3, 30AWG*2
Spiral Tube Material	Silver stainless steel
Spiral Tube Diameter	2.8mm±0.1mm
Cable Diameter	5.0mm
Jacket Material	TPU
Jacket Color	Black
EDID	Pass-through
3D	Yes
ARC	Yes
HDCP	Yes(HDCP2.3)
HDR	Yes

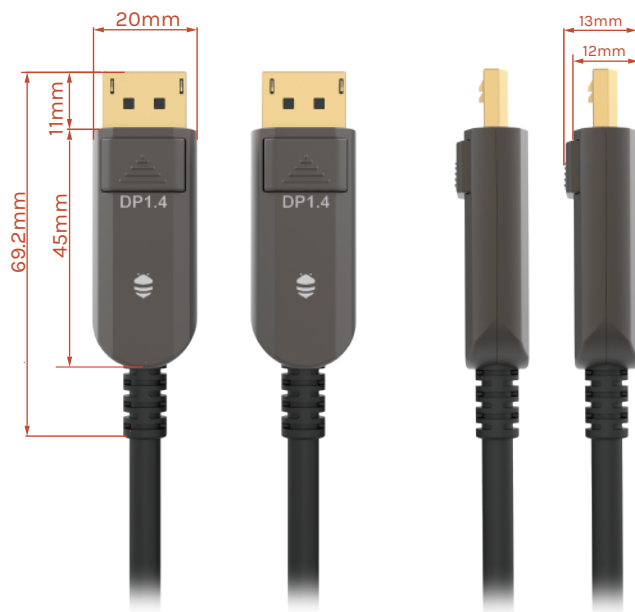
Name	Specification
AUX Channel	Yes
High-speed Ethernet	Yes
USB	USB2.0/USB3.1
Audio Channels	Yes
BT.2020 Color Space	Yes
Technical Characteristics	Photoelectric Conversion Technology
Optical Module Lifetime	100,000 hours
Resolution	7680*4320@60Hz
Clock Bandwidth	810MHz*3
Transmission Rate	32.4Gbps
Power Boosting	Yes
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	Dynamic > 10D; Static > 20D (*D is the outer diameter of the cable)
Operating Temperature	-30℃~80℃

Application Diagram



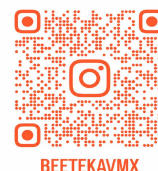
★ The GDH02-xxM is a unidirectional active optical cable, so please determine the correct direction before deploying cable
(Connect the 'Source' end to the signal output device and the 'Display' end to the display device)

Product Size



DP1.4 TPU Armored Active Optical Cable

Connector Type	GDH02
Connector Dimensions	DP Male: 69.2*20*13mm
Cable Diameter	5.0mm



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