

ADPHxx

DP – HDMI Active Optical Cable

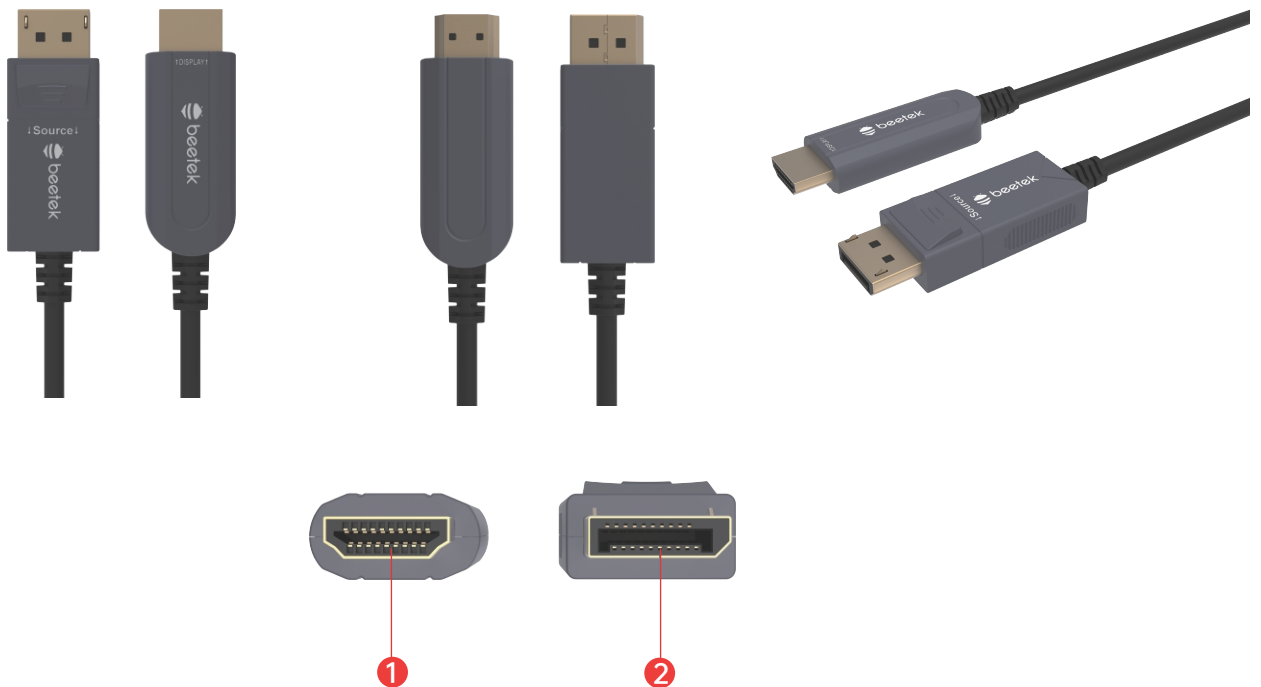
Product number:4.11

Summary

ADPHxx is a DP to HDMI long-distance active optical cable that does not require external power, and is plug-and-play like ordinary copper cables. By combining common fibers together with copper in the same cable, the product converts a DP 1.2 signal into an HDMI 2.0 signal, and then transmits the signal without compression or delay at a maximum resolution of 3840x2160@60Hz 4:4:4. Its PVC material sheath, zinc alloy shell, gold-plated copper shell connectors, and availability in different lengths up to 60 meters are suitable for fixed installation, residential and other applications.



Product view

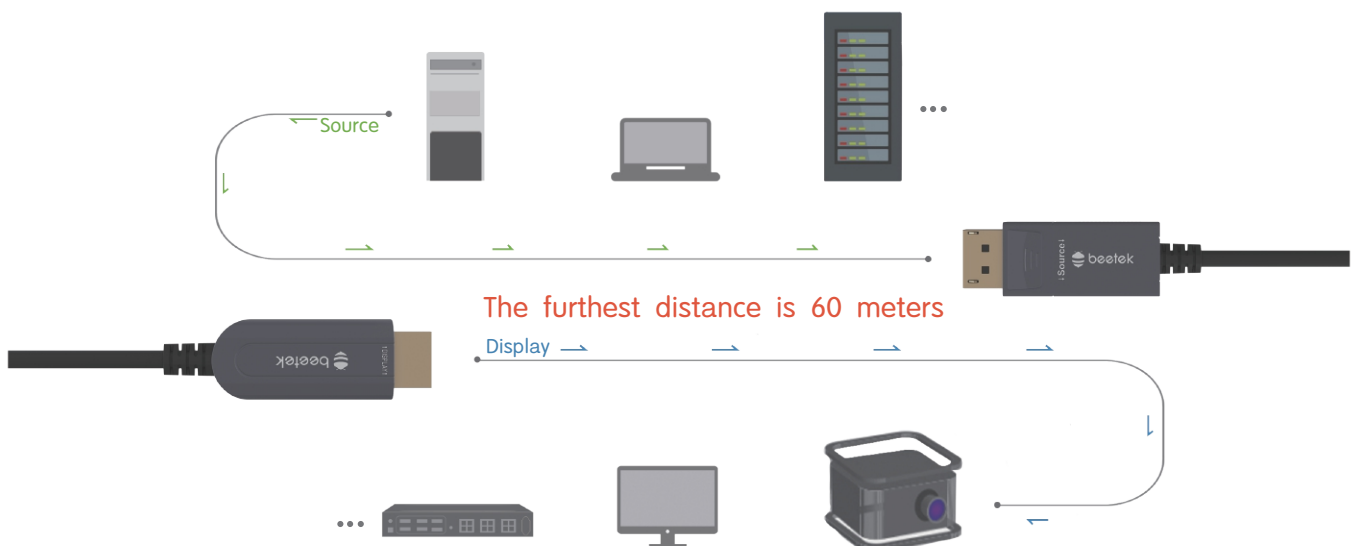


number	name	number	name
①	HDMI Type A Male	②	DP Male

Technical Characteristics

- ✦ DP–HDMI active optical cable in lengths up to 60 meters.
- ✦ No power supply needed, just plug and play like a common cable.
- ✦ Built-in active conversion of DP1.2 to HDMI 2.0.
- ✦ Lossless video extension without compression or delay, 100% restoration of source signal.
- ✦ The transmission rate is 18Gbps and supports up to 3840x2160@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.
- ✦ Supports HDR, HDCP, ARC, CEC, and 3D.
- ✦ Suitable for fixed installation, residential and other applications.
- ✦ Paired with Beetek' s DF and PCD Series cable reels for easy deployment.

Product Details



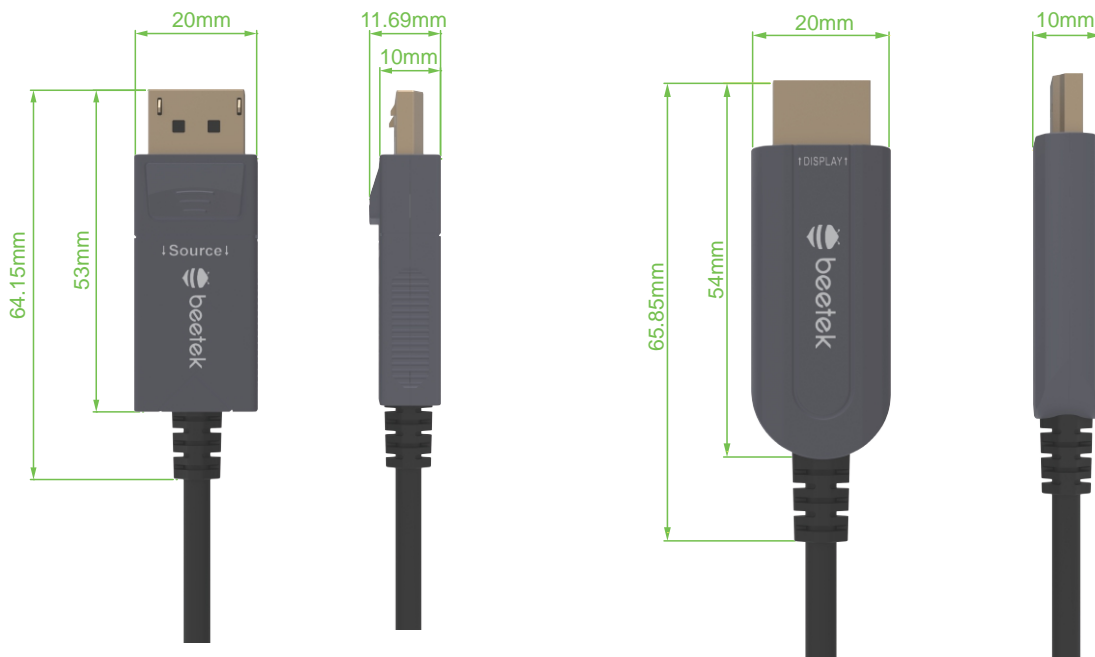
* ADP8Kxx is a unidirectional active optical cable, so please determine the correct direction before deploying cable
(Connect the 'Source' end to the signal output device and the 'Display' end to the display device)

Product parameter

name	parameter
Signal Type	HDMI2.0
Input Connector Type	DP Male
Output Connector Type	HDMI Type A Male
Connector Gold Plating	Gold-plated Copper Shell
Connector Structure	Zinc Alloy mold
Connector Dimensions	DP Male: 64.2*20*11.7mm; HDMI Type A Male :65.9*20*10mm
In-wall Installation	Not supported
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 + outer jacket
Fiber Type	Multi-mode OM3 * 4
Fiber Wavelength	850~1300nm
Copper Wire Material	7 multi-strand tinned copper wires
Copper Wire Specification	24AWG*1 、 26WAG*1、 28AWG*3、 30AWG*2,
Cable Diameter	4.5 mm
Jacket Material	80P PVC
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
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
ESD protection	Yes
Hot Swap	Yes
Delay	Zero frame delay
Compression	None

name	parameter
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	-30~80℃

Dimensional drawing



- Connector Dimensions DP Male: 64.2*20*11.7mm;
HDMI Type A Male :65.9*20*10mm
- Packing Dimensions Short-length 10 – 40M: 240*230*75mm
Medium-length 50 – 60M: 290*280*75mm
Long-length 70 – 100M: 340*330*75mm