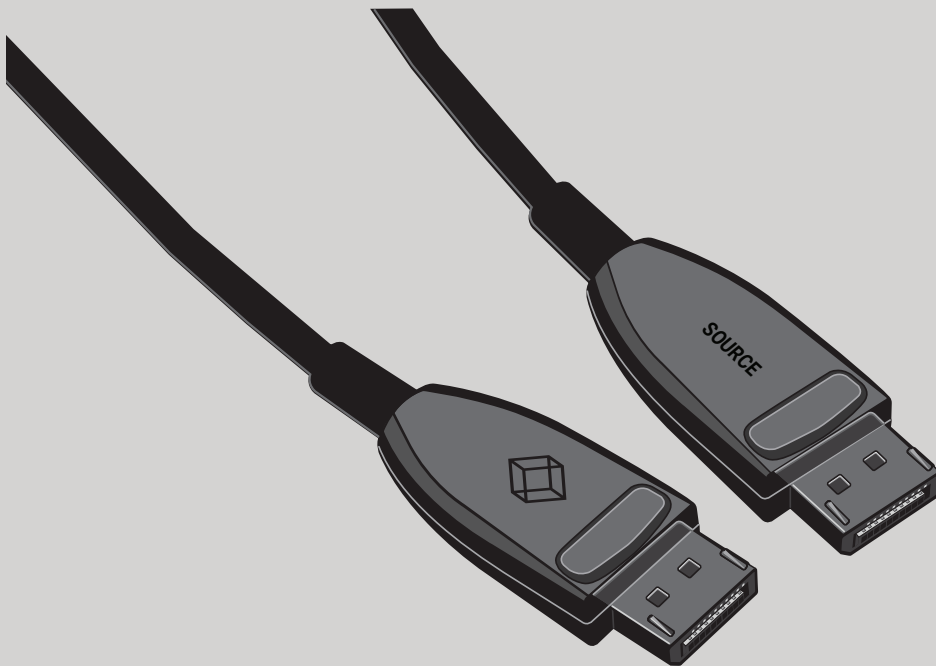


DATA SHEET

DISPLAYPORT 1.4 ACTIVE OPTICAL CABLE, 8K

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM



OVERVIEW

DISPLAYPORT 1.4 ACTIVE OPTICAL CABLE, 8K, 32.4 GBPS DATA SHEET



INTRODUCTION

Black Box DisplayPort Active Optical Cables flawlessly transmit uncompressed, full Ultra HD 8K video signals hundreds of meters. This all-in-one cable design is plug-and-play, and eliminates the need for a modular solution including a transmitter, receiver, copper cabling, power and all of the potential points of failure that come with it. Simply connect the cable between your source and display like a standard copper cable and leave it to flawlessly transmit your audio/video signal without worry of signal loss or degradation. The cable is unidirectional—the source side connector connects to the source and the display side connector connects to the display.

Built-in technology inside the connectors actively converts the electrical DisplayPort signal into an optical signal for transmission, and then back to electrical for display. They also use a hybrid design that includes both copper and fiber, in which the fiber technology allows for significantly increased bandwidth that supports transmission of full Ultra HD video resolutions at distances that the copper alternatives just can't come close to. It also provides higher immunity to EMI/RFI interference and electromagnetic noise. And the inclusion of copper wiring in the design allows for power to go over the cable, meaning no external power is required. This design also makes for a much thinner and more flexible cable with a tighter bend radius, making it easy to pull through tight spaces and more freely navigate around corners and bends, not to mention much lighter than its all-copper counterparts.

Black Box Active Optical Cables are the perfect A/V distribution solution for control rooms, digital signage, healthcare, conference rooms, mass transit and any other application where uncompromised, Ultra High Definition video is required at extended distances.

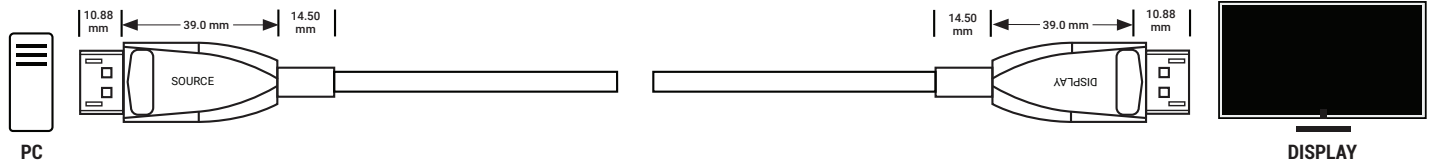
FEATURES

- UP TO FULL 7680 X 4320 (8K) VIDEO SIGNALS UP TO 100 M
- DATA TRANSFER RATES UP 32.4 GBPS
- HIGH DYNAMIC RANGE (HDR) VIDEO FOR EXPANSIVE CONTRAST RATIO AND COLOR ACCURACY
- SUPPORTS DELIVERY OF DUAL VIDEO STREAMS TO A DISPLAY (IF SUPPORTED BY DISPLAY)
- 21:9 CINEMA ASPECT RATIO
- SUPPORTS BT.2020 COLORIMETRY
- UP TO 32 AUDIO CHANNELS WITH 1536 KHZ SAMPLING RATE
- SUPPORT DPCP/EDID/CEC/DDC
- LATCHING CONNECTORS PREVENT ACCIDENTAL DISCONNECTION
- PLUG AND PLAY, NO SOFTWARE TO INSTALL. THE SOURCE SIDE CONNECTOR CONNECTS TO THE SOURCE, AND THE DISPLAY SIDE CONNECTOR CONNECTS TO THE DISPLAY
- HYBRID CONSTRUCTION USES BOTH COPPER AND FIBER. NO EXTERNAL POWER IS REQUIRED
- ULTRA-THIN, FLEXIBLE CABLING MAKES IT EASY TO PULL THROUGH TIGHT SPACES AND NAVIGATE CORNERS AND BENDS WITH LOW RISK OF SIGNAL LOSS
- FIBER TECHNOLOGY GREATLY REDUCES EMI/RFI EMISSIONS
- TRIPLE-SHIELDING FURTHER PROTECTS AGAINST INTERFERENCE TO ENSURE OPTIMAL SIGNAL QUALITY
- FEATURES ZINC ALLOY CONNECTORS FOR ENHANCED DURABILITY

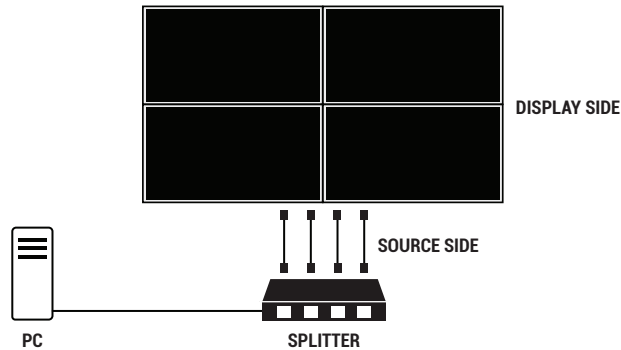


DIAGRAMS, SPECIFICATIONS, AND ORDERING INFORMATION

DISPLAYPORT 1.4 ACTIVE OPTICAL CABLE, 8K, 32.4 GBPS, LATCHING CONNECTORS



APPLICATION DIAGRAM



DISPLAYPORT 1.4 ACTIVE OPTICAL CABLE, 8K, 32.4 GBPS, LATCHING CONNECTORS	
CONNECTOR A	DisplayPort male
CONNECTOR B	DisplayPort male
CONNECTOR PLATING	Nickel
LENGTH	Up to 656 ft. (200 m)*
DISPLAYPORT SPECIFICATION	1.4
MAX. VIDEO RESOLUTION	7680 x 4320 (8K) @ 60 Hz (4:2:0)
MAX. COLOR DEPTH	30/36/48-bit Deep Color: 48-bit
BANDWIDTH	32.4 Gbps
JACKET TYPE	LSZH
FIBER TYPE	OM3 MMF
OUTER DIAMETER	0.189" (4.8 mm)
OPERATING TEMPERATURE RANGE	32 to 158° F (0 to 70 ° C)
STORAGE TEMPERATURE RANGE	14 to 158° F (-10 to 70° C)
OPERATING HUMIDITY RANGE	10 to 85% RH, condensing
STORAGE HUMIDITY RANGE	5 to 89% RH, noncondensing
POWER CONSUMPTION	250 mW
COMPLIANCE	FCC, CE, RoHS
WARRANTY	3-year limited warranty

LENGTH	MODEL
10-m	AOC-HL-DP4-10M
15-m	AOC-HL-DP4-15M
30-m	AOC-HL-DP4-30M
50-m	AOC-HL-DP4-50M
100-m	AOC-HL-DP4-100M

DISCLAIMER

Black Box Corporation shall not be liable for damages of any kind, including, but not limited to, punitive, consequential or cost of cover damages, resulting from any errors in the product information or specifications set forth in this document and Black Box Corporation may revise this document at any time without notice.

*NOTE: The longest length stock model is the 100 m AOC-HL-DP4-100M

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