

## TAKE ULTRA-HIGH-BANDWIDTH AUDIO/VIDEO THE DISTANCE

### FLAWLESSLY EXTEND VIDEO RESOLUTIONS UP TO 8K60

Perfect for control rooms, digital signage, healthcare, and conference rooms, Black Box Active Optical Cables (AOCs) transmit ultra-high-definition (UHD) audio/video signals to displays, video switches, or video wall controllers hundreds of meters away.

These all-in-one, reliable, easy-to-install, plug-and-play cables feature optical fiber technology that provides the ultra-high-bandwidth and distance needed for today's content. They have active components in their AV connectors that perform electrical-to-optical signal conversion.

Compared to their all-copper counterparts, AOCs are much thinner and more flexible, making it easy to pull them through tight spaces and navigate corners and bends with low risk of signal loss. They also provide higher immunity to EMI/RFI interference and electromagnetic noise. Active Optical Cables flawlessly transmit full UHD HDMI video with resolutions up to 4K60 (4:4:4) and DisplayPort video up to 8K60, guaranteeing signal quality at the required distance.



### UNCOMPRESSED ULTRA-HIGH-BANDWIDTH VIDEO

HDMI: full 4K UHD resolutions up to 4096 x 2160 at 60 Hz (4:4:4) with up to 18 Gbps bandwidth. DisplayPort: up to 8K at 60 Hz with up to 32.4 Gbps bandwidth. DVI is also available.

### FULL COMPLIANCE

Compliant with all HDMI 2.0 and DisplayPort 1.4 standards, including HDCP 2.2, HDR, EDID/CEC/DDC, 600-MHz clock frequency and more.

### IMMERSIVE AUDIO

Transmit PCM 8-Channel, DTS-HD and Dolby Digital True HD surround sound along with the video signals. HDMI AOCs are Audio Return Channel compatible.

### EASY INSTALLATION

Lightweight, thin 4.8 mm (0.189") glass fiber is easy to pull through tight spaces and features an impressive bend radius that allows easy navigation of corners and bends. No software required, and they are hot-swappable. They eliminate the need for extender units.

### NO EXTERNAL POWER

Hybrid construction utilizes both fiber and copper to send power over the cable.

### SECURE AND IMMUNE TO INTERFERENCE

Triple-shielded fiber provides immunity to EMI/RFI interference and electromagnetic noise. Temperature range from 32° to 158° F ensures cables work in the most extreme conditions. Low-smoke, zero-halogen (LZOH) coating reduces smoke and toxic emissions during fires.

### CONNECTION DIAGRAM



HDMI UP TO 4K AT 60 HZ  
DISPLAYPORT UP TO 8K AT 60 HZ



#### Black Box Advantages

- US-headquartered company
- Local contacts in your time zone
- TAA compliant & award winning products
- Product support & design expertise
- +45 years trusted partner for Military and Defense
- GSA pricing & IMPAC/GPC payments

