



BLACK BOX

ACTIVE OPTICAL CABLES

TAKE ULTRA-HIGH BANDWITH AUDIO/VIDEO THE DISTANCE

FLAWLESSLY EXTEND VIDEO RESOLUTIONS UP TO 8K60

Optical fibre technology provides the ultra-high bandwidth needed for today's content in addition to significantly longer transmission distances. Active components in the AV connectors perform electrical-to-optical signal conversion.

Transmit ultra-high-definition (UHD) audio/video signals between sources and displays, video switches or video wall controllers hundreds of metres away with Black Box Active Optical Cables (AOC).

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.

AOC provides an all-in-one, reliable, easy-to-install, plug-and-play solution for Pro AV installations in control rooms, digital signage, healthcare, conference rooms or any other application where ultra-high-definition video needs to go over long distance.



UNCOMPRESSED ULTRA-HIGH BANDWIDTH VIDEO

HDMI: full 4K UHD resolutions up to 4096 x 2160 @ 60 Hz, 4:4:4 with up to 18 Gbps bandwidth; DisplayPort: up to 8K @ 60 Hz or 32.4 Gbps; 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.

AUDIO

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

EASY INSTALLATION

Lightweight, thin (4.8-millimetre) glass fibre 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. Eliminate the need for extender units.

NO EXTERNAL POWER

Hybrid construction utilises both fibre and copper to send power over the cable.

SECURE AND IMMUNE TO INTERFERENCE

Triple-shielded fibre provides immunity to EMI/RFI interference and electromagnetic noise. Temperature range from 0° to 70°C ensures cables work in the most extreme conditions. Low smoke zero halogen (LZ0H) coating reduces smoke and toxic emissions during fires.

CONNECTION DIAGRAM

