

8K HDMI 2.1 Active Optical Cable

90M (295 ft.)

48Gbps | 8K@60Hz | 4K@120Hz | eARC | Dynamic HDR | 3-Year Warranty

MPN: CBL-AOCHDMI8K-90M



1 PRODUCT OVERVIEW

DESIGNED FOR

Professional AV integrators, IT infrastructure teams, broadcast engineers, and enterprise system designers deploying HDMI 2.1 sources over long cable runs (30–90m) in venues, campuses, studios, and facilities.

THE CHALLENGE

Standard HDMI cables fail beyond 5–10m at HDMI 2.1 speeds. HDBaseT extenders introduce latency, compression, and configuration complexity. Integrators need a single-cable, zero-config solution that preserves full 48Gbps bandwidth — including eARC — across long runs.

THE KANEXPRO ADVANTAGE

KanexPro AOC HDMI cables deliver true 48Gbps uncompressed HDMI 2.1 at up to 90m with eARC support, no external power, no configuration, and EMI-immune OM3 fiber construction — at a lower price point than comparable Tripp Lite fiber solutions.

2 PRODUCT POSITIONING

The CBL-AOCHDMI8K series is the plug-and-play long-run HDMI 2.1 cable for integrators who need full 8K@60Hz, 4K@120Hz, and eARC delivery without extenders, converters, or power injectors.

3 APPLICATIONS



Command & Control Rooms

Deliver 8K or 4K@120Hz HDMI 2.1 feeds from servers and workstations to operator displays up to 90m away — no repeaters, no signal degradation, no external power.



Digital Signage & Venue Displays

Connect media players and HDMI 2.1 sources to large-format displays across lobbies, arenas, and retail environments. eARC enables return audio from display to audio system.



Video Wall & Multi-Display

Feed HDMI 2.1 sources to splitters, processors, and video wall controllers over long runs — 48Gbps ensures full 8K resolution without compression.



Auditorium & Large Venue AV

Run HDMI 2.1 sources from AV racks to stage screens in auditoriums and boardrooms without active extenders or HDBaseT converters.



Broadcast & Production

Connect cameras, switchers, and replay servers to production monitors with full 4K@120Hz, HDR, and eARC over EMI-immune fiber runs.



Education & Visualization

Extend 8K content from media servers to large-format displays in lecture halls, simulation labs, and visualization suites up to 90m.

4 WHO THIS IS FOR

AV Integrators

IT Infrastructure

Digital Signage

Broadcast & Production

Hospitality

Higher Education

Ideal User	AV systems integrator or IT infrastructure lead specifying HDMI infrastructure for new-build or retrofit display installations across corporate, government, broadcast, or venue environments.
Project Types	Corporate AV, Government/Defense, Broadcast & Production, Higher Education, Digital Signage, Hospitality, Retail.
Typical Buyer	AV Project Engineer or IT Director specifying cable infrastructure BOM for display installations.

5 KANEXPRO PRODUCT COMPARISON

The CBL-AOCHDMI8K family covers 30M, 60M, and 90M — same HDMI 2.1 48Gbps performance and eARC support, scaled to project distance. All carry KanexPro's 3-year warranty.

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
CBL-AOCHDMI8K-30M	Long-run HDMI 2.1 AOC	30M (98 ft.) • 48Gbps • eARC	Choose by run length
CBL-AOCHDMI8K-60M	Long-run HDMI 2.1 AOC	60M (197 ft.) • 48Gbps • eARC	Choose by run length
CBL-AOCHDMI8K-90M ◀ This SKU	Long-run HDMI 2.1 AOC	90M (295 ft.) • 48Gbps • eARC	Choose by run length

▶ Select CBL-AOCHDMI8K-90M for 90M (295 ft.) runs.

Q: Why use an AOC cable instead of an HDBaseT extender for HDMI 2.1?

AOC delivers uncompressed, zero-latency HDMI 2.1 at full 48Gbps in a single cable with no configuration. HDBaseT extenders compress video, add latency, require external power on both ends, and cost significantly more for comparable distances.

Q: Does it support eARC for soundbar and AV receiver integration?

Yes — full eARC (Enhanced Audio Return Channel) is supported. Connect a display with eARC output to route Dolby Atmos, DTS:X, or uncompressed PCM audio back to an AV receiver or soundbar over the same cable.

Q: How is KanexPro priced vs. Tripp Lite for 30M HDMI fiber?

KanexPro MSRP for the 30M is \$199.95. Tripp Lite's comparable 8K HDMI fiber cable (P568F3-30M-8K6) lists at \$300–\$450+. KanexPro delivers HDMI 2.1 specs at a more competitive price point with full 3-year warranty coverage.

Q: Is the cable backward compatible with HDMI 2.0 and 1.4 devices?

Yes — the CBL-AOCHDMI8K cables are backward compatible with HDMI 2.0 and HDMI 1.4 source and display devices. Bandwidth will negotiate to the highest common specification supported by both endpoints.

Q: Does the cable require external power?

No. The optical transceivers draw 250mW maximum from the HDMI source connector — no wall adapters, PoE injectors, or USB power required. Truly plug-and-play.

Q: Is the cable directional?

Yes — directional AOC design. The SOURCE end must connect to the HDMI output device; the DISPLAY end connects to the monitor or processor. Each connector is clearly labeled. Reversing the cable will result in no signal.

Q: Does it support Dynamic HDR formats?

Yes — Dynamic HDR including HDR10, HDR10+, Dolby Vision, and HLG are all supported via HDMI 2.1 pass-through for end-to-end HDR signal delivery.