

8K DisplayPort 2.0 Active Optical Cable

90M (295 ft.)

40Gbps UHBR10 | 8K@60Hz | 4K@144Hz | AMD FreeSync® 2.0 | 3-Year Warranty

MPN: CBL-AOCDP8K-90M



1 PRODUCT OVERVIEW

DESIGNED FOR

Professional AV integrators, system designers, and enterprise IT teams deploying high-resolution DisplayPort sources across large venues, simulation facilities, broadcast studios, and corporate campuses where long cable runs (30–90m) are required.

THE CHALLENGE

Standard copper DisplayPort cables top out at 3–5m for DP 2.0 speeds. Active copper extenders at long distances require external power, complex configuration, and still risk signal degradation at 40Gbps. Integrators are forced into costly HDBaseT or fiber extender systems with latency, compression, and compatibility issues.

THE KANEXPRO ADVANTAGE

KanexPro AOC cables deliver full, uncompressed DP 2.0 UHBR10 bandwidth (40Gbps) at up to 90m with zero signal loss, no external power, no configuration, and no compression — in a single cable thinner than standard copper. Backed by a 3-year warranty and built with EMI-immune optical fiber for noise-sensitive environments.

2 PRODUCT POSITIONING

The CBL-AOCDP8K series is the plug-and-play long-run DisplayPort 2.0 cable for integrators who need full 8K@60Hz and 4K@144Hz signal delivery without extenders, power injectors, or signal compromise.

3 APPLICATIONS



Command & Control Rooms

Run 8K or 4K@144Hz feeds from high-performance workstations to operator displays up to 90m away — no repeaters, no power injectors, no signal compromise.



Digital Signage & Venues

Connect media servers to large-format displays across lobbies, arenas, and retail environments. DP 2.0 UHBR10 delivers full-bandwidth 8K without degradation.



Video Wall Source Runs

Feed DP 2.0 sources to video wall processors over long runs with MST (Multi-Stream Transport) support for multi-display daisy-chaining.



Simulation & Visualization

Defense, engineering, and training facilities need zero-latency 8K from rendering workstations to curved or multi-display rigs up to 90m.



Large Venue Conferencing

Extend PC or Mac sources from AV racks to main displays in boardrooms and auditoriums — no active extenders, no configuration.



Broadcast & Production

Connect GPU render nodes to grading monitors or reference displays where EMI immunity and 4K@144Hz refresh rates are non-negotiable.

4 WHO THIS IS FOR

AV Integrators

IT Infrastructure

Digital Signage

Broadcast & Production

Government / Defense

Higher Education

Ideal User

AV systems integrator or IT infrastructure lead managing display installations in corporate, government, broadcast, or venue environments.

Project Types

Corporate AV, Government/Defense, Broadcast & Production, Higher Education, Digital Signage, Simulation & Visualization.

Typical Buyer

AV Project Engineer or IT Director specifying cable infrastructure for new-build or retrofit display installations.

5 KANEXPRO PRODUCT COMPARISON

The CBL-AOCDP8K family covers 30M, 60M, and 90M run lengths — same DP 2.0 UHBR10 performance, same plug-and-play design, scaled to project distance requirements. All three SKUs carry KanexPro's 3-year warranty.

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
CBL-AOCDP8K-30M	Long-run 8K DP 2.0 source-to-display	30M (98 ft.) AOC, 40Gbps UHBR10	Choose by run length required
CBL-AOCDP8K-60M	Long-run 8K DP 2.0 source-to-display	60M (197 ft.) AOC, 40Gbps UHBR10	Choose by run length required
CBL-AOCDP8K-90M ◀ This SKU	Long-run 8K DP 2.0 source-to-display	90M (295 ft.) AOC, 40Gbps UHBR10	Choose by run length required

► Select CBL-AOCDP8K-90M for 90M (295 ft.) runs.

6 FREQUENTLY ASKED QUESTIONS

Q: Why use an AOC cable instead of an HDBaseT or fiber extender system?

AOC cables are a single-cable, plug-and-play solution with no latency, no compression, and no external power or configuration. HDBaseT extenders add cost, latency, and a compression layer. For uncompressed 8K DP 2.0, AOC is the cleaner path.

Q: Does my GPU need to support DP 2.0?

Yes — both source and display must support DP 2.0 (UHBR10) for full 8K@60Hz or 4K@144Hz performance. Current support includes Nvidia RTX 4000 series, AMD RX 7000 series, and Intel Arc. The cable is also backward-compatible with DP 1.4 sources.

Q: How is this cable priced vs. Tripp Lite?

KanexPro MSRP for the 30M is \$199.95 — significantly below Tripp Lite's P580F3-30M-8K6 list price of \$469–\$589. Note that the Tripp Lite is DP 1.4 (32.4Gbps), not DP 2.0 — KanexPro delivers the newer standard at a lower price point.

Q: Can it run in-wall? Is it CL3 or plenum rated?

The standard CBL-AOCDP8K cables use a PVC jacket. Confirm in-wall rating requirements with local code. For plenum/CL3 installs, reference InfiniteCables or Tripp Lite alternatives or consult KanexPro for project-specific guidance.

Q: Does the cable require external power?

No. The optical transceivers at each end draw under 0.5W from the 3.3V supplied by the DisplayPort source connector. No wall adapter, PoE injector, or USB power is needed.

Q: Is the cable directional?

Yes — this is a directional AOC cable. Each connector is labeled SOURCE and DISPLAY. The SOURCE end must connect to the PC or GPU; the DISPLAY end connects to the monitor or processor. Reversing the cable will result in no signal.

Q: Does it support AMD FreeSync and MST daisy-chaining?

Yes. The cable supports AMD FreeSync® 2.0 for variable refresh rate gaming and content delivery, and Multi-Stream Transport (MST) for daisy-chaining multiple displays from a single DP 2.0 output.