4K HDMI fiber cable Armored

Variants

3M Armored 50M Armored 20M Armored 15M Armored 10M Armored 5M Armored

Details

4K HDMI 2.1 Armored Fiber Optic Cable

The **4K HDMI 2.1 Armored Fiber Optic Cable** is a premium Active Optical Cable (AOC) engineered for ultra-high bandwidth audio and video transmission over long distances. Combining advanced photoelectric conversion technology with optical fiber transmission, it delivers exceptional signal quality while eliminating electromagnetic interference commonly found with traditional copper HDMI cables.

Designed with a **steel armored fiber construction**, gold-plated HDMI connectors, zinc alloy housing, and support for HDMI 2.1 features, this cable is ideal for home theaters, LED video walls, conference rooms, broadcasting, security monitoring, medical imaging, gaming, education, and professional AV installations requiring reliable long-distance 8K and 4K transmission.

Quick Specifications

HDMI Version
HDMI 2.1

Bandwidth

48 Gbps

Maximum Resolution

8K @ 60Hz

Transmission

Fiber Optic AOC

Key Features

- HDMI 2.1 Active Optical Cable (AOC)
- Ultra-high bandwidth up to 48Gbps
- Supports 8K@60Hz and 4K@60/120/144Hz
- Dynamic HDR and Dolby Vision support
- 3D stereoscopic video transmission
- Fiber optic signal transmission technology
- Steel armored cable protection
- Excellent EMI & RFI immunity
- Gold-plated HDMI connectors
- Zinc alloy connector housing
- Supports eARC, VRR, ALLM, QFT & QMS
- Professional long-distance AV solution

General Specifications

Parameter	Specification
Product Type	Active Optical HDMI Cable (AOC)
HDMI Version	HDMI 2.1
Bandwidth	Up to 48Gbps
Maximum Resolution	8K @ 60Hz
4K Resolution	4K @ 60Hz / 120Hz / 144Hz
HDR	Dynamic HDR Supported
3D Support	Yes

Transmission & Structure

Parameter	Specification
Technology	Photoelectric Conversion Chip
Signal Medium	Fiber Optic Transmission
Cable Structure	4 Optical Fibers + 7 Copper Wires
Armor Protection	Steel Armored Layer
EMI / RFI Protection	Excellent Electromagnetic Isolation

Build & Design

Parameter	Specification
Connector Housing	Zinc Alloy
Connector Plating	Gold-Plated HDMI Connectors
Flexibility	High Flexibility & Bend Resistant
Mechanical Strength	High Tensile Strength (Anti-Pull & Pressure)

Audio & Video Support

Feature	Specification
Audio Formats	Dolby Atmos, DTS:X
Video Formats	Dolby Vision, HDR
HDCP	HDCP 2.2 / HDCP 2.3
Advanced Features	eARC, VRR, ALLM, QFT, QMS

Applications

- Home Theater & Entertainment
- Conference Rooms
- LED Video Walls
- Education & Classrooms

Airports & Stadiums

Security Monitoring & Medical Systems

Professional Gaming & eSports

Important Installation Notes

Power off all devices before connecting the HDMI cable.

This cable is **directional**; always connect the **Source** end to the HDMI output device and the **Display** end to the HDMI input device.

Using HDMI adapters or converters is not recommended.

Do not place heavy objects on the cable or exceed its minimum bending radius.

Do not disassemble or open the HDMI connector housing.

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