

Fiber optic cable with HDMI panel



Overview

We offer a full range of fiber optic HDMI cables, including hybrid active optical and pure fiber optic options, compliant with HDMI 2.0 and HDMI 2.1 standards.

Key Takeaways

Fiber optic panel HDMI cables use optical fibers to transmit high-speed video and audio over long distances with minimal signal loss, supporting resolutions up to 8K and beyond.

Overview

Fiber optic HDMI cables, also known as Active Optical Cables (AOCs), integrate optical fibers for high-speed video/audio transmission and copper wires for low-speed signaling and power. They are directional, with one end labeled "Source" and the other "Display," and are ideal for long-distance HDMI runs where copper cables fail to maintain signal integrity ().

Panel-

Mount Features Panel-mount fiber HDMI cables are designed for modular installation, allowing the cable to pass through conduits and walls while connecting to standard HDMI panel cutouts. They often include: Detachable HDMI adapters (male/female) for flexible installation ().



Micro HDMI

I connectors for tight conduit runs.

Support for HDMI

I 2. 0 and 2. 1 features, including 4K@60Hz, 8K@60Hz, HDR, eARC, and HDCP 2.

2/2. 3 (). AdvantagesLong-distance capability: Fiber HDMI can reliably transmit signals over 10-100 meters, far exceeding copper HDMI limits ().

High bandwidth: Supports up to 48 Gbps for HDMI 2. 1, enabling 4K120Hz, 8K60Hz, HDR10+, Dolby Vision, and VRR ().

EM

I immunity: Optical fibers are unaffected by electromagnetic interference, ensuring stable signal quality (). Slim and flexible: Easier to route through walls, ceilings, or crowded AV racks (). Detachable terminations: Some panel-mount cables allow replacement of HDMI connectors without replacing the entire cable ().

Installation Considerations

Directional use: Always connect the "Source" end to the output device and the "Display" end to the monitor or projector (). Bend radius: Avoid sharp bends to prevent fiber damage. Power requirements: Some AOCs draw power from the HDMI source; longer runs may require auxiliary USB power ().

In-wall rating: For permanent installations, choose cables rated for in-wall or plenum use (CL3, LSZH, FT4) ().

Use Cases

Home theaters: Long HDMI runs to projectors or TVs without signal degradation.

Commercial A

V: Conference rooms, digital signage, and auditoriums. Professional setups: Broadcast, studio, and high-EMI environments. Gaming: High refresh rate 4K/8K gaming setups with zero-lag performance ().

Summary

Fiber optic panel HDMI cables provide high-speed, long-distance, and interference-free HDMI connectivity. They are particularly useful for installations requiring modular, in-wall, or conduit-friendly solutions while supporting the latest HDMI 2. 1 features.

When choosing a cable, consider length, HDMI version, bandwidth, directional labeling, and installation environment to ensure optimal performance ().

Article Content

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