

# 50M HDMI Active Optical Cable - 8K

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## Product Specifications

Product Type: HDMI Active Optical Cable (AOC)

Cable Length: 50 meters (164 feet)

Technology: Fiber optic transmission with electrical-to-optical conversion

Connector Type: HDMI Type A male on both ends

HDMI Version: HDMI 2.1

Maximum Resolution: 8K at 60Hz (7680 x 4320) or 4K at 120Hz

Supported Resolutions: 8K, 4K, 1080p, 1080i, 720p, 576p, 480p

Color Depth: 24-bit, 30-bit, 36-bit, 48-bit deep color

HDCP Support: HDCP 2.3 and HDCP 2.2 compliant

Audio Support: Enhanced Audio Return Channel (eARC), DTS-HD, Dolby Atmos, TrueHD

Bandwidth: Up to 48 Gbps data transfer rate

3D Support: Full 3D video format support

HDR Support: HDR10, HDR10+, Dolby Vision, HLG compatible

Variable Refresh Rate: VRR support for gaming

Quick Frame Transport: QFT for reduced latency

Auto Low Latency Mode: ALLM support

Signal Type: Directional cable (source to display marked on connectors)

Cable Core: Advanced optical fiber for ultra-long-distance signal transmission

Signal Loss: Near-zero signal degradation over 50 meters

EMI/RFI: Immune to electromagnetic interference

Power: Powered by HDMI source device (no external power needed)

Power Consumption: Maximum 300mA from source

Cable Diameter: 5.5mm slim and flexible design

Cable Material: Premium PVC outer jacket with fiber optic core

Bend Radius: Minimum 10x cable diameter

Connector Housing: Reinforced metal connectors with strain relief

Temperature Resistance: Fire-resistant and heat-resistant materials

Color: Black

Operating Temperature: -20°C to 60°C (-4°F to 140°F)

Storage Temperature: -30°C to 70°C (-22°F to 158°F)

Humidity: 10% to 90% non-condensing

Weight: Ultra-lightweight compared to copper cables

Application: High-end home theater, gaming, broadcasting, large venues, professional AV

Advantages: 8K support, no signal loss, lightweight, flexible, immune to interference

Compliance: CE, FCC, RoHS certified

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## About IT&E Electric

IT&E Electric is a Ghana-based electrical company delivering safe, reliable, and professional electrical services for residential, commercial, and industrial needs.

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