

USB 3.0 Active Optical Cable (AOC)

10Gbps Data Transfer • Up to 50M Transmission • External Power Supported • Plug & Play



1. Description

The EL-HG08 USB 3.0 Active Optical Cable (AOC) with External Power is engineered for long-distance USB connectivity up to 50 meters while maintaining high-speed data integrity.

Unlike passive copper extension cables, this cable uses Active Optical Cable technology and includes an external power port to ensure stable performance over extended distances, especially when powering devices that require more current than the USB host can supply.

- Supports SuperSpeed USB transfer rates up to 10Gbps
- Transmission distances up to 50 meters without signal degradation
- EMI/RFI resistant, lightweight, flexible fiber-optic construction

Ideal for industrial automation, machine vision, conference systems, digital signage, medical equipment, and professional AV setups

Available in multiple lengths with OEM/ODM customization support.

2. Features

High-Speed USB Performance

- USB 3.2 Gen2 SuperSpeed 10Gbps
- Backward compatible with USB 3.0 / 2.0
- Supports USB-A Male to USB-A Female connection

Long Distance Optical Transmission

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- Transmission distance up to 50 meters
- Overcomes traditional USB cable distance limitations
- Optional external power port for devices needing additional current

Plug & Play Operation

- Powered by USB host or external power port
- No driver installation required
- Easy installation, low setup complexity

Reliability & Durability

- EMI/RFI resistant for industrial and commercial environments
- Lightweight and flexible optical fiber construction
- Zinc alloy connectors with PVC jacket for durability

Flexibility & Maintenance

- Easy cable routing through conduits or cable trays
- Detachable power cable connection simplifies device support
- Ideal for professional AV, medical, industrial, and security applications

3. Specifications

Item	Specification
Model	EL-HG08
Product Name	USB 3.0 Active Optical Cable with External Power
Connector Type	USB-A Male to USB-A Female
USB Standard	USB 3.2 Gen2
Data Rate	Up to 10Gbps
Transmission Technology	Active Optical Cable (AOC)
Maximum Distance	Up to 50M
External Power	Supported via dedicated port
Driver Required	No
Plug & Play	Yes
EMI Protection	Yes
RFI Protection	Yes
Signal Loss	Zero Signal Loss
Connector Housing	Zinc Alloy
Cable Jacket	PVC
Operating Temperature	-20°C ~ +70°C
OEM / ODM	Supported

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4.Length Options

Model No.	Length
EL-HG08-05	5M
EL-HG08-10	10M
EL-HG08-15	15M
EL-HG08-20	20M
EL-HG08-30	30M
EL-HG08-40	40M
EL-HG08-50	50M

5.Applications

- Industrial Automation & Machine Vision
- Digital Signage & LED Displays
- Conference Room Systems
- Medical Imaging Equipment
- Security Monitoring Systems
- Broadcasting & AV Studios
- Data Acquisition & Professional Workstations

6. Key Selling Points

- USB 3.2 Gen2 SuperSpeed 10Gbps
- Long Distance up to 50M with External Power Support
- Active Optical Cable Technology
- Zero Signal Loss & EMI/RFI Resistant
- Plug & Play, No Driver Required
- Flexible & Durable Construction