



YDSAOC-5G-USB3-AM-AF 5Gbps Active Fiber Optical USB 3.0 Extension Cable

YDSAOC 5Gbps Active Fiber Optical USB 3.0 Extension Cable (Type-A Male to Type-A Female), also known as a USB 3.0 AOC, Fiber Optic USB Cable, or USB Active Optical Cable, is designed to address the growing demand for high-bandwidth connectivity. By combining fiber optic technology with USB connectivity, it overcomes the distance and interference limitations of traditional copper cables while delivering reliable, high-performance connections.



Highlight Features

- ♦ **High Bandwidth** – Complies with the latest USB 3.0 standard, delivering up to 5Gbps Super Speed
- ♦ **Backward Compatible** – Supports USB 3.0 @ 5Gbps up to 30 meters
- ♦ **Long-Distance Transmission** – Delivers lossless signals over a 30m maximum length
- ♦ **Power Supply** – Supports 5V / 900mA max to the remote device
- ♦ **Easy Installation** – Plug-and-play on both sides with unidirectional design
- ♦ **EMI Resistance** – High resistance to electromagnetic interference for a safe, radiation-free environment
- ♦ **Customizable** – Up to 30m maximum length; custom length, logo, and packaging available

Applications

- ♦ Machine Vision Camera Link
- ♦ Medical Imaging Equipment
- ♦ LED Signboards & Monitors
- ♦ Conference Room & Video Conference Equipment
- ♦ Digital Signage
- ♦ Home Theater, Blu-ray, 3D Video, Projectors & Set-top Boxes



ACTIVE OPTICAL CABLES

your best fiber optics partner

- ◆ Radio and TV Broadcast Stations
- ◆ Airplane On-board Video Systems
- ◆ Security Monitoring Systems
- ◆ DVR & Game Console Monitoring Connections

Best For

Environments requiring **extended data transmission distances without on-site power**, offering high reliability in electromagnetically complex environments.

Key Specifications

YDSAOC Model Number	YDSAOC-5G-USB3-AM-AF
Order Part Numbers	YDSAOC-5G-USB3-AM-AF-1003 YDSAOC-5G-USB3-AM-AF-2006 YDSAOC-5G-USB3-AM-AF-50015 YDSAOC-5G-USB3-AM-AF-100030 YDSAOC-5G-USB3-AM-AF-200060
Length	1m(3ft), 2m(6ft), 5m(15ft), 10m(30t), 20m(60ft)
Maximum Support Length	up to 30m(90ft)
Maximum Data Speed	up to 5Gbps
Connector A	USB 3.0 Type-A Male
Connector B	USB 3.0 Type-A Female
USB Protocols	USB 3.0, USB 2.0
Support Functions	Data Transfer, Power Transfer
Cable Diameter	4.8mm
Cable Jacket Type	PVC
Cable Color	Black
AOC Constructions	Hybrid, 2x Optical Fiber, 4x Copper Wire
Minimum Bending Radius	50mm
Operating Temperature	0°C to 70°C
Storage Temperature	- 40°C to 85°C
Installation Direction	Bidirectional, No Check on Directions
Power Connect	No External Power is Required

www.YDSAOC.com sales@ydsaoc.com Phone (WhatsApp, WeChat): +86-166 0302 9616

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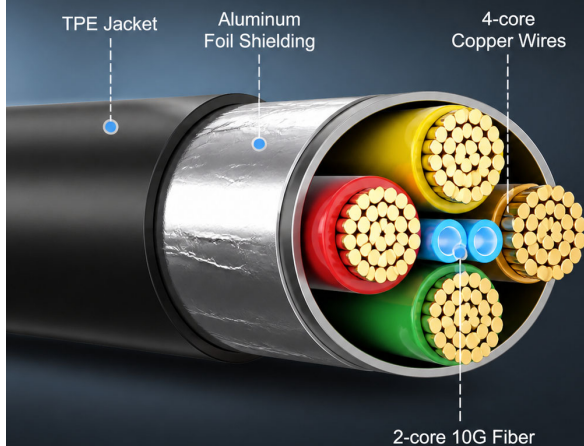
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10G Fiber: Zero Radiation Anti-Interference

Hybrid fiber-copper design for stable, interference-free signals.



Note: Internal structure is a render, refer to actual product.

Zinc Alloy Shell: Effectively Protects the Module

Adopts gun-gray zinc alloy shell with exquisite craftsmanship. It boasts high hardness and long-lasting durability, offering stronger protection for internal modules.



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Fiber Optic Extension Cable - Product Features

USB 3.0 Fast Transmission: 50m transmission with no delay, no radiation, and anti-interference

USB 3.0 Fast Transmission

5Gbps high-speed bandwidth for fast and stable data transfer

No Delay Over Long Distances

50m length; optical signals resist interference for delay-free transmission

No Radiation & Anti-Interference

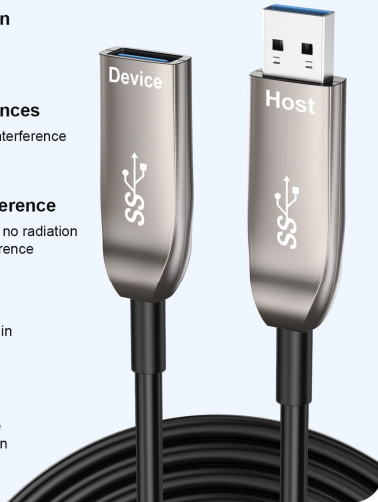
Fiber optic transmission generates no radiation and resists electromagnetic interference

Damage-Free Bending

Bending radius over 20mm results in nearly zero signal loss

Slim & Flexible Cable

4.8mm cable diameter; 10N tensile strength capacity, 20N compression strength capacity



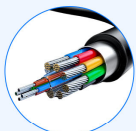
Tear-Resistant & Durable



Zinc Alloy Shell



Sturdy Connector



Tinned Copper Core



Flexible Cable Body



Connect to printer



Connect to camera



Extend distance for digital devices



Extend distance on office desk



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Extension & Expansion: Handled Easily with One Cable

Male Port



Female Port



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Connect to the TV without the hassle of finding ports

Plug-and-play (no drivers) – smooth, device-safe use. Extend your TV's USB to desktop for easier leisure.



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Product Specifications

Product Name: Fiber Optic USB 3.0 Extension Cable

Shell: Zinc Alloy Shell

Bandwidth: 5Gbps

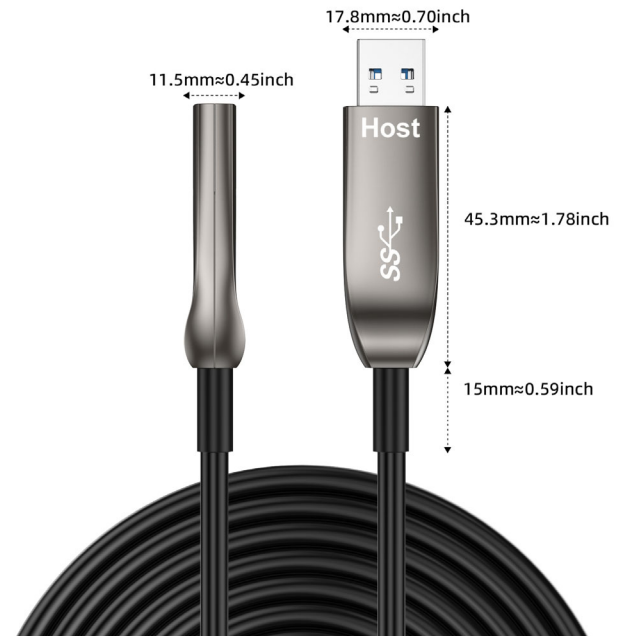
Material: PVC Sheath

Interface: USB 3.0

Warranty: 1 Year

Length: 15m/20m

PS: The dimensions marked for the product on this page are measured manually, so slight variations may occur.



YDSAOC

5Gbps Active Fiber Optical USB 3.0 Extension Cable

- 5Gbps**
Super Speed
- 30m**
Length
- 5V/900mA**
Power
- USB 3.0**
Backward Compatible

- Plug-and-Play**
No drivers required
- EMI Resistance**
Stable & reliable transmission
- Customizable**
Length & specs tailored to your needs

Long Distance. High Speed. Uncompromised Performance.

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YDSAOC



5Gbps



Stable
Transmission



Industrial
Grade



EMI
Protection

Row 1 - Legacy/USB 2.0 Connectors



USB Type A



USB Type B



USB Mini A



USB Mini B



USB Micro A



USB Micro B

Row 2 - Modern Connectors



USB Type C



USB Micro B 3.0



USB 3.0 Type A



USB 3.0 Type B



USB 3.0 Micro B

Applications of Active Optical Cable (AOC)

High-speed, long-distance connectivity across diverse industries.



1 Traffic Monitoring

Uninterrupted connectivity for real-time traffic data, safety and efficiency.



2 Security & Surveillance

HD/4K/8K video support, effective monitoring without downtime.



3 Control Rooms

Ultra-high bandwidth for instantaneous data and video switching.



4 Healthcare

EMI/RFI immunity ensures reliable transmission in medical environments.



5 Education

Connectivity in large lecture halls, overcoming copper cable limits.



6 Digital Signage

High-quality displays with consistent transmission of information.



7 Conference Rooms

Plug-and-play design makes connectivity easy for presenters.



8 Government Campuses

Thinner and more flexible than copper, reducing cable clutter.



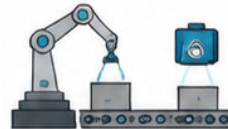
9 USB4 Applications

Extends reach while maintaining power and signal integrity.



10 Audio Visual Entertainment

Superior signal quality for home theaters and gaming.



11 Industrial & Machine Vision

Durable, high-performance for automated inspection.



12 Broadcast Systems

High bandwidth and low latency for seamless content delivery.



13 Simulation Systems

Real-time transmission for realistic training.



14 Data Centers & HPC

Pivotal for high-performance computing and extensive configurations.



15 Consumer Electronics & IT

High-res displays, VR devices, and high-bandwidth apps.



16 Aerospace, Defense & Automotive

High-speed, robust connectivity for critical sectors.

Core Benefits



Reliability



Long Distance



EMI Immunity



High Bandwidth



Flexible Installation



Power Delivery



Plug-and-Play