Model	**:**	ATZ AOC-USB3AB-xxM

Description: USB 3.2 Type A-Male to Type B-Male AOC, Downward compatible with USB2.0/1.1, 10Gbps, 5V/900mA
(5m/8m/10m/12m/15m/20m/25m/30m/35m/40m/45m/50m)

This USB3.2 A-Male to B-Male cable is the first Gen 2 Active Optical cable in the market to support Super-speed data transmission relying on hybrid Optical Fiber. Not only does it break the transmission distance barrier of up to 50m, the signal quality is also much more stable, with no RFI/EMI interference. It can support 10Gbps super speed, and meets USB3.2 standard, and downward compatible with USB 2.0/1.1. It is a mature & competitive solution in the high speed data transmission market. It is designed to be compliant with SuperSpeed USB electrical specifications, offering seamless interoperability between existing USB 3.0 hosts, hubs and devices, ensuring a trouble-free plug-and-play experience.

The intended use of this cable is to connect USB huddle cams and/or other USB conference devices, such as webcams or digital conference phones with the operating hardware located far away, e.g. in a separate rack room. These long distances can now be achieved and in combination with the AV connection.

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* **Note**: Most USB devices can be powered by the connected source device and may not require external power. If additional power is needed, a USB-A to micro cable is provided to supply buffer power externally — for high powered commercial USB cameras and devices.

Features:

- Meet USB 3.1 Gen2 Standard , bandwidth can reach to 10Gbps super speed;
- Support up to 50m.(Customized length is available);
- Support 5V 900mA max;
- Support downward compatible with USB2.0/1.1;
- Supports all major operating systems including Windows, Mac OS, and Linux
- Power adapter at host is not required
- No RF interference , working stable in complex environments;
- Ideal for a wire variety of USB devices, from printer, scanners, meeting cameras and other USB B type devices

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Applications:

- Industrial Control
- Digital Signage
- Home Network Integration
- Medical Device Connectivity
- KVM Extension
- Remote Desktop USB 3.0 Connections
- Security: camera, access control
- USB 3.0 Device Sharing: print, scan, storage

Specifications:

Description	USB 3.2 Gen2 Hybrid Active Optical Cable A-Male to B-Male downward compatible version
Connector	USB 3.0 Standard A-Male to B-Male connector
Max. data rate	10Gbps
Range	50m over multimode optical fiber
Optical Transceiver	850 nm VCSEL (multimode)
Cable diameter	4.5 mm
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F).
Humidity	5% to 90% (non-condensing)

Absolute Maximum Ratings

Parameter	Symbol	Minimum	Maximum	Units
Supply Voltage	VCC	-0.5	5.5	V
Operating Temperature	Top	0	70	°C
Storage Temperature	Ts	-40	85	°C
Storage Relative Humidity	Hs	10	85	%RH

Recommended Operating Conditions

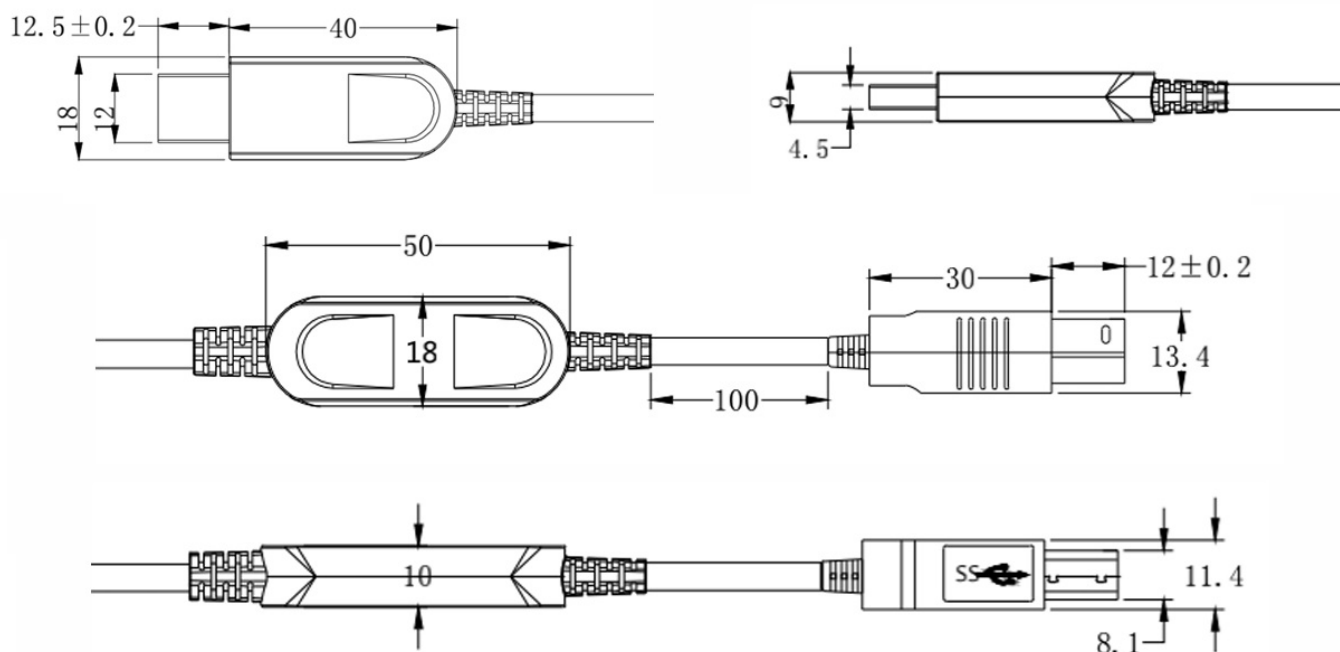| Parameter	Symbol	Minimum	Typical	Maximum	Units
Supply Voltage	VCC	4.75	5	5.25	V
Operating Temperature	Top	0		50	°C

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(5m/8m/10m/12m/15m/20m/25m/30m/35m/40m/45m/50m)

Characteristics

Parameter	Description	Minimum	Typical	Maximum	Units
VCC	Supply Voltage	4.75	5	5.25	V
I_{BUS}	Current at USB Bus Power	49.5	55	60.5	mA
R_{DIFF}	Differential impedance		90		Ω
USB3.0 AOC TX Characteristic					
P_{TX}	Optical TX output power	0			dBm
R_j	Random jitter			3	ps
D_j	Deterministic jitter			60	ps
T_j	Total jitter at a 10-12 BER			100	ps
USB3.0 AOC RX Characteristic					
S_{RX}	RX sensitivity	-7.5			dBm
$C_{AC\text{-}COUPLING}$	AC coupling capacitor on RXOUT	75	100	200	nF

Product Diagram:

Warranty: 2 Years

Warranty is effective from the date of original delivery.

This warranty shall be void if a serial number has been removed from the product.