

Model : ATZ AOC-UC3132D-xxM (xx=Length: 5/8/10/12/15)

Description: USB 3.2 Gen 2, Type A to C AOC data version, Downward compatible with USB 2.0/1.1, 10Gbps, Support max 5V/1.5A power to remote devices (Length: 5M/8M/10M/12M/15M/20M/25M/30M/35M/40M/50M)



USB3.2 Type A to USB-C Active Optical Cable (AOC) is a USB 3.2 electrical to optical conversion module that meets the USB3.2 Gen 2 standard. AOC offers a quick solution to support longer cable connections for USB3.2 application to exchange signals between USB 3.2 electrical and optical signals for more stable signal quality, without EMI issues. It support downward compatibility with USB 2.0/1.1 (for $\geq 20m$, downward compatible to USB2.0 only). It supports Superspeed data transmission up to 50m max. Chip technology is capable of realizing mutual conversion between USB3.0 and USB2.0/1.1 protocols on remote side device, so as to enable USB2.0/1.1 equipment to share the super speed bandwidth (10Gbps) of USB3.2. It is suitable for applications that do not have on-site power supply. This optical fibre cable can be applied to machine vision, Remote monitoring, etc

Features:

- Meet USB 3.2 Gen 2 Standard , bandwidth can reach to 10Gbps Super speed;

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- Support length up to 50m.(Custom length is available);
- Support 5V/1.5A max (for ≥20m support 5V/900mA)
- Plug and play, no need external power supply
- Support two sides plug and play on type C connector;
- Downward compatible with USB2.0/1.1 (for ≥20m, support downward compatibility for USB2.0 only)
- No RF interference, stable signal quality in complex environments.
- Support all major operating systems.
- Cable OD: 4.5mm, 4 fiber + 4 copper wire.

Applications

- Cameras
- Computers
- Tablets
- Smartphones
- Hard drives
- Monitors

***Remarks:** This is a uni-directional cable. Please ensure correct connection with connector ends labelled with → to “Host” and → to “Device”.
The cable will not be damaged, nor will it cause the connected devices to be damaged, due to wrong connection.

Specifications:

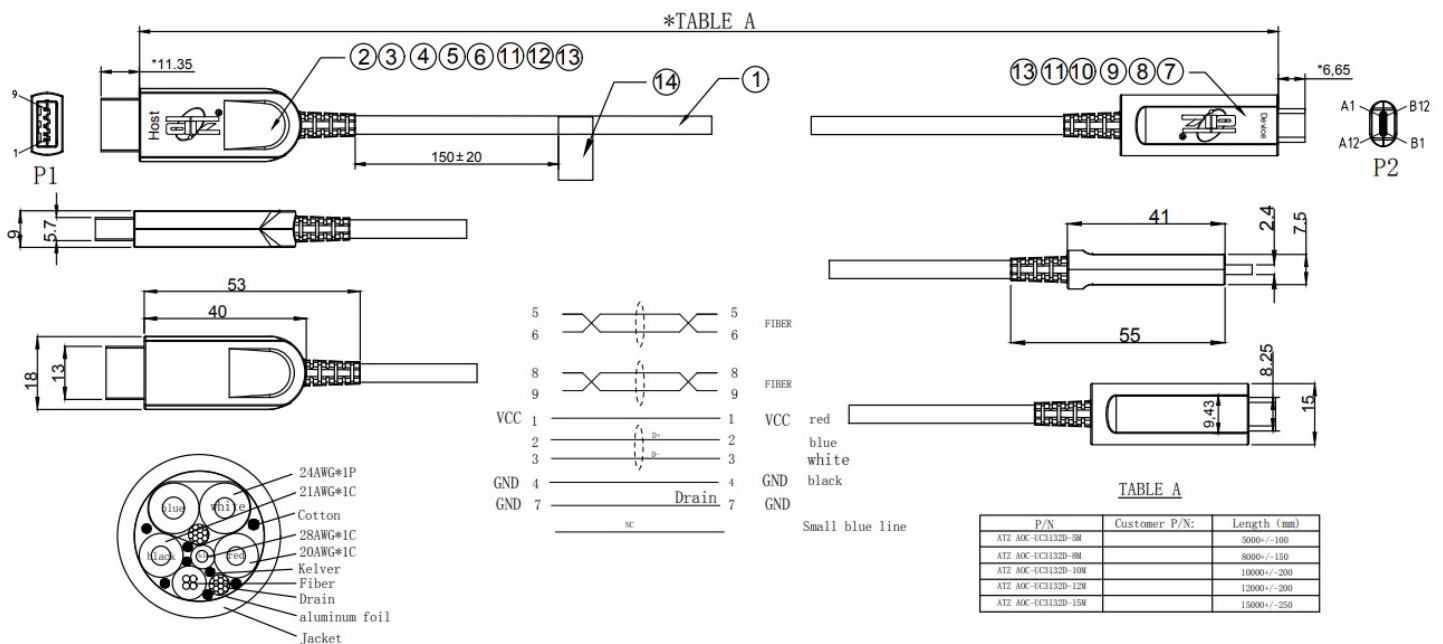
Parameter	Minimum	Typical	Maximum	Unit	Remark
USB3.2 Gen2 Transfer Rate		10Gbps	10Gbps		Uni-directional ,10Gbps
Operating Temperature	-20	25	70	°C	
Power Consumption	0.35	0.4	0.5	W	TX & RX AOC
Supply Voltage	4.5	5	5.5	V	
Working Current		90		mA	
Tensile strength		200		N	Short term 300N, Long term 150N
Crush resistance		100		N	Short term 500N/100mm, Long term 100N/100mm

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Minimum bending radius	20	40		mm	static (working) 40mm
Minimum bending radius (dynamic)		20000		cycle	180°swing, NO Open
Diameter		4.5		mm	
Cable length	0.2	3	50	M	
Wavelength	850			nm	
Execution error rate	1.00E-11				
VCSEL output power	Class 1				EN 60825-1 2007 EN 60825-2 A2 2010
Hot plug	Yes				
Wire Spec.	fiber	4*OM3-850		nm	G651 OM3
Flammability					UL13 Standard
Connector Structure	24			Pins	USB C Type Port
Connector Type	USB A Male to USB Type C Male				
RoHS directive	RoHS				

Product Diagram:



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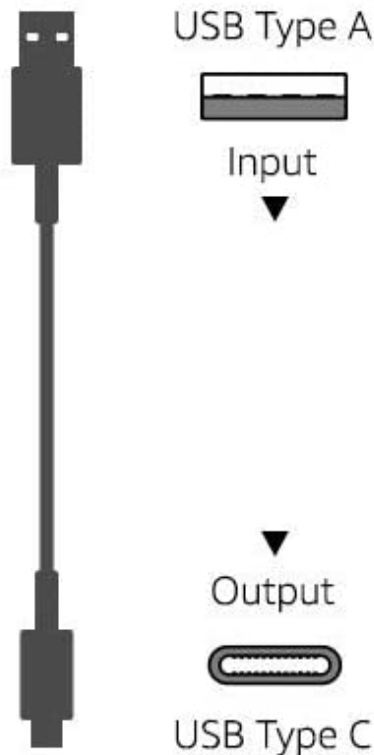
Laptop



Desktop



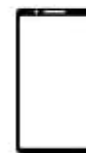
Charger



Laptop



Tablet



Smart Phone

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.