



Prestel UAC322-XXX

USB 3.2 Gen 2 A Male to C Male
Active Optical Cable
Supports Data Transfer, 5-40m



USER MANUAL

USB 3.2 Gen 2 Type-A male to Type-C male active optical cable, data transfer rate up to 10Gbps, backward compatible with USB 3.1/3.0/2.0, 5-40m (16-131ft), lossless transmission

This USB-A male to USB-C male AOC cable uses fiber optic for high-speed signals transmission and copper wire for low-speed signals transmission, solving the problem of traditional copper wire not being able to transmit signals over long distances. Moreover, fiber optic transmission of data can better resist electromagnetic and radio frequency interference, making it suitable for signal transmission over longer distances. Fiber optic cables are lighter and thinner than copper wires, giving this active cable the advantages of small diameter, small bending radius, light weight, and flexible and convenient wiring. It can be widely applied in various scenarios such as homes, conference rooms, and buildings. Plug and play, easy to install.

This product supports data transmission, with the maximum support of 10G and backward compatibility with USB 3.1/3.0/2.0. The advanced chip technology makes it possible for the completed USB signal spectrum to be transmitted.

Product Features

- ☆ USB 3.2 Gen 2 Type-A male to Type-C male connector
- ☆ USB 3.2 Gen 2 10Gbps, backward compatible with USB 3.1/3.0/2.0
- ☆ Utilizes fiber optic + copper hybrid cable for long-distance lossless transmission.
- ☆ Excellent compatibility: Fully meets the requirements of USB-A and USB-C ensuring seamless integration with various devices and systems.
- ☆ Extended Length: Supports cable lengths of up to 40m (131ft), providing flexibility for different environments and applications.
- ☆ Equipped with a Micro USB power supply port (mainly used for equipment auxiliary power supply with power consumption $>2W$).
- ☆ Zinc alloy shell, strong and durable.
- ☆ The transmission distance is 5-40m (16-131ft) without delay.
- ☆ With a wire diameter of 5.0mm, light weight, convenient wiring, supporting conduit installation

Product Specifications

Technical	
USB Transfer Rate	USB 3.2 Gen 2 10Gbps, backward compatible with USB 3.1/3.0/2.0
Wave Length	850nm
Optional Cable Length	5m (16ft) / 10m (33ft) / 15m (49ft) / 20m (66ft) / 25m (82ft) / 30m (98ft) / 35m (115ft) / 40m (131ft)
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	1× Host [USB Type A, male]
Output	1× Device [USB Type C, male]
Mechanical	
Outer Diameter	5.0mm
Cable Color	Black
Conductor	Optical Fiber + Tinned Copper
Chip	Optoelectronic conversion chip
Jacket	PVC
Connector Casing	Metal Enclosure
Connector Color	USB-A male connector: Nickel-plated USB-C male connector: Gold-plated
Power Supply	Standard USB-A port, 5V/900mA; When power supply is insufficient, it supports external power supply via the Micro-USB port.
Working Voltage	5V±0.25
Applicable Devices	Host: Desktop Computer, Laptop, miniPC, Game Console Device: Printer, Camera, VR Helmet, Hard Disk Drive
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%~80% (Relative Humidity, non-condensing)
Storage Humidity	10%~90% (Relative Humidity, non-condensing)

Connection Instructions



Host connector
of the AOC cable



Signal Source Devices



Laptop



mini PC



Desktop Computer



Game
Console



Display Devices



Camera



VR Helmet



Printer



Hard Disk Drive

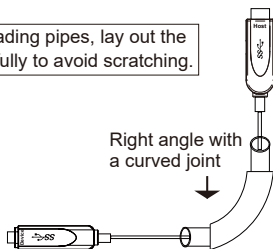


Note: When wiring and connecting, make sure to connect the Host connector to the USB Host device and the Device connector to the USB Device device. Don't get it backwards.

Wiring Precautions

- When threading pipes at a 90° angle, please use a right angle with a curved joint, as shown in the following figure.

When threading pipes, lay out the cable carefully to avoid scratching.



- When threading pipes, it is suggested to lay out the cable in a slot. Please do not forcefully pull, twist, or knot the cable.
- Please do not beat, heavily impact, or smash the connector to avoid damaging the chip.



⊗ No Twisting

⊗ No Knotting

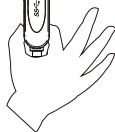


⊗ No Beating

⊗ No Smashing

- The tensile force does not exceed 10kg. Please do not pull the cable forcefully during wiring.
- When plugging/unplugging, please hold the zinc alloy part of the cable and do not pull the cable body.

← The tensile force does not exceed 10kg. →



Hold the zinc alloy part of the cable.