



USB 3.1 AOC Cable

TABLE OF CONTENTS

| CHAPTER | PAGE |
|---|-------------|
| Introduction | 3 |
| Intended Use | 3 |
| Safety Instructions | 4-5 |
| Delivery content | 5 |
| Features | 6 |
| Application | 6 |
| Specifications | 7-8 |
| Mechanical properties and Environmental performance | 7 |
| Specifications | 8 |
| Environmental Conditions | 8 |
| Cross Section | 9 |
| Construction | 9 |
| Cable Construction | 9 |
| Operation and connection diagram | 10 |
| Maintenance | 11 |
| Cleaning | 11 |
| Warranty and Liability | 12 |
| CE-Conformity | 13 |
| Disposal of the Device | 13 |
| Disclaimer | 14 |

INTRODUCTION

Thank you for purchasing the Fiber Optic USB 3.1 Gen 2 Type C-C AOC Cable. This Cable allows you to transmit USB signals to a distance of up to 30m without external power supply. This cable is a hybrid cable containing both fiber optic and copper cores.. It supports a maximum data rate of 10 Gbps per channel, is light weight, flexible, and has an ultra-small fixed installation bending radius of 20mm.

INTENDED USE

This product is intended for indoor use only. Do not use it outdoors. Contact with moisture, e.g. in bathrooms, must be avoided under all circumstances.

For safety and approval purposes (CE), you must not rebuild and/or modify this product. If you use the product for purposes other than those described above, the product may be damaged. In addition, improper use can cause hazards such as short circuiting, fire, electric shock etc.

Read the instructions carefully and keep them. Make this product available to third parties only together with its operating instructions.

SAFETY INSTRUCTIONS

Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling in this manual, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/ guarantee.

The device is not a toy. Keep it out of the reach of children and pets. Do not leave packaging material lying around carelessly. These may become dangerous playing material for children. Risk of suffocation!

The maximum pulling tensile load of the cable is 157N (16kg). Never pull the cable with higher load. The minimum bending radius of the hybrid cable is approximately 20mm, bending the cable to a smaller radius will irreversibly destroy the cable.

Pay attention to trip hazards; make sure that the cable is installed safely.

Protect the product from extreme temperatures, direct sunlight, strong jolts, high humidity, moisture, flammable gases, vapors and solvents.

Do not place the product under any mechanical stress. If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use.

Safe operation can no longer be guaranteed if the product:

- is visibly damaged
- is no longer working properly
- has been stored for an extended period in poor ambient conditions or
- has been subjected to any serious transport-related stresses.

Please handle the product carefully. Jolts, impacts or a fall even from a low height can damage the product.

Also observe the safety and operating instructions of any other devices which are connected to the product.

Consult an expert when in doubt about the operation, safety or connection of the device.

DELIVERY CONTENT

- 1x AOC Cable
- 1x User Manual DE/EN
- 1x Warning Insert

FEATURES

This AOC Cable has many features that enable it to perform in a superior manner. Among those features you will find:

- Meet USB 3.1 Gen2 Standard , bandwidth can reach to 10Gbps super speed
- Support length up to 30m .(Custom length is available)
- Hybrid optical cable with fiber and copper wire
- Support two sides plug and play
- No RF interference , working stable in complex environments

APPLICATION

This product is for example applicable to:

- Computers / PCs
 - Wearables
 - TVs / Displays
 - Projectors
 - Mobile phones
 - Power Banks
 - Cameras
 - Home Cinema
 - Medical applications
 - LED video walls
 - TV Stations
 - Digital Signage
- ... and more can be used

SPECIFICATIONS

Mechanical properties and Environmental performance:

| Item | Units | Specified values |
|-------------------------------------|---------|------------------|
| Tensile strength (Long-term) | N | bis zu 157N |
| Crush resistance (Long-term) | N/100mm | 1000N |
| Minimum bending radius (dynamic) | mm | 20 D* |
| Minimum bending radius (static) | mm | 10 D* |

*D = the diameter of the cable body, in this case it is 4.5mm

Specifications

| Item | Description | |
|-----------------------|--|--------------------|
| Units | Transmitter (Source) | Receiver (Display) |
| USB Version | USB 3.1 Gen 2 Standard | |
| Video Bandwidth | 10Gbps. | |
| O/E Converter | 2 channel 850 nm VCSEL array | 2 CH GaAs PD array |
| Connector Type | USB Type-C | |
| Cable Type | Hybrid type with OM3 fiber and copper wire | |
| Cable Outer Diameter | 4.5 mm | |
| Jacket Outer Material | PVC | |
| Differential Input | 100 Ohm | |
| Power Consumption | 0.5W | |
| Power Supply | Non external power required | |
| Passive Power Supply | 5V | |

Environmental Conditions:

| | |
|------------------------|-----------|
| Operating Temperature: | -10–50 °C |
| Storage Temperature: | -20–60 °C |
| Relative Humidity: | 10–80 %RH |

CROSS SECTION

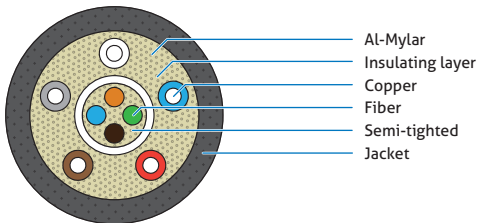
Construction:

Hybrid cable, fiber (high speed data) & copper (low speed signals)

Cable construction:

2 fiber cores and 2 copper conductors

| | |
|-----------------------|-------------|
| Cable jacket: | PVC / TPU |
| Diameter: | 4.5mm |
| Connector dimensions: | 39*15*9.5mm |
| Connector material: | zinc alloy |



OPERATION AND CONNECTION DIAGRAM

Attention:

The FX-I530 is designed for use with the + 5V passive power supply, provided by the host device through the USB connection. This +5V connection, as well as powering the internal fiber optic module, is also carried through to the other sink via a full standard copper connection. Please make sure, that the host device is capable of delivering more than 500mA.

Before using this cable, please make sure that all devices which will be connected with the AOC USB Cable are shut down and without power.

Then you can start to connect the "host side" of the USB plug to the transmitter and connect the "remote (device) side" of the other USB plug to the receiver/display.

This works without additional power supply.

We do not recommend using any intermediate cables or adapters between the connections, as the signal transmission performance maybe attenuated.

Switch on the power of the device of the type C host and the remote.

MAINTENANCE

There are no components located inside the product you need to maintain. Never open/dismantle the product.

Maintenance, modifications and repairs are to be performed exclusively by an expert or at a qualified shop.

If you have questions which remain unanswered by these operating instructions, contact our technical support service or other technical personnel.

CLEANING

Before cleaning the product it must be disconnected from all other connected products.

Do not use abrasive or solvents or any aggressive cleaning agents, rubbing alcohol or other chemical solutions as they can cause damage to the housing and malfunctioning.

To clean the product, a dry, soft and clean cloth is sufficient. Do not apply too much pressure to the housing as this may cause scratch marks. You can easily remove dust using a long-haired, soft and clean brush.

WARRANTY AND LIABILITY

The producer grants 2 years warranty to a new device.

As the manufacturer has no influence on installation, warranty only applies to the product itself.

If any fault or damage is detected on your product, please contact your dealer and provide your sales slip or invoice as evidence of the purchase, if necessary. Your dealer will repair the fault either on site, or send the device to the manufacturer. You make the work of our technicians considerably easier, describing possible faults in detail – only then you can be assured that faults, occurring only rarely, will be found and repaired with certainty!

The manufacturer is not liable for damages to persons or property caused by improper installation, operation or maintenance, not described in this manual.

Do not alter or modify the product or its accessories.

Any use other than described in this user`s manual is not permitted and causes loss of warranty, loss of guarantee, and non-liability.

CE CONFORMITY



PureLink GmbH hereby declares that the FX-I500 Series complies with Directive 2014/30/EU.

The full text of the EU Declaration of Conformity is available at the following Internet address:

www.purelink.de/ce/FX-I500-XXX_CE.pdf

DISPOSAL OF THE DEVICE



WEEE-Reg. Nr.: DE 93847290

According to the European WEEE directive, any electrical and electronic equipment must not be disposed with consumers waste. As a consumer, you are committed by law to deposit electrical and electronic devices to public collecting points or to the dealer for free at the end of the device's lifetime. Details are regulated in the respective national legislations. The garbage can symbol on the product, in the manual or on the packaging refers to these terms. With the return of your used devices you actively take part in protecting the environment.

DISCLAIMER

This product complies with the statutory national and European requirements. All company names and product names are trademarks of their respective owners.

All rights reserved.

We reserve our right for misprints and changes of the device, packing or user`s manual.



PureLink GmbH
Von-Liebig-Straße 10
48432 Rheine
Deutschland

Tel.: +49 (0) 5971 800 299-0
Fax: +49 (0) 5971 800 299-99
info@purelink.de
www.purelink.de