

## DL-PLUSB3.1AC-\*\*\*M Technical Specifications

Plenum USB 3.x Gen2 10Gbps Active Optical Cable

Rev. 180914

The DL-PLUSB3.1AC-\*\*\*M extends USB 2.0, 3.x signals via a plenum rated, Active Optical hybrid cable assembly. Utilizing active circuitry in the permanent USB connectors, USB signals can be transmitted on fixed length cables ranging from 3 meters up to 50 meters. The cables can deliver power up to 1.5W to 15m. The cable is a USB 3.2 Generation 2 cable for data transfer up to 10Gbps.

As a hybrid fiber optic cable, the DL-PLUSB3.1AC is immune to electromagnetic (EM) and radio frequency (RF) interference, which could degrade signal performance, the signals on the cable will not interfere with other sensitive electronic equipment.

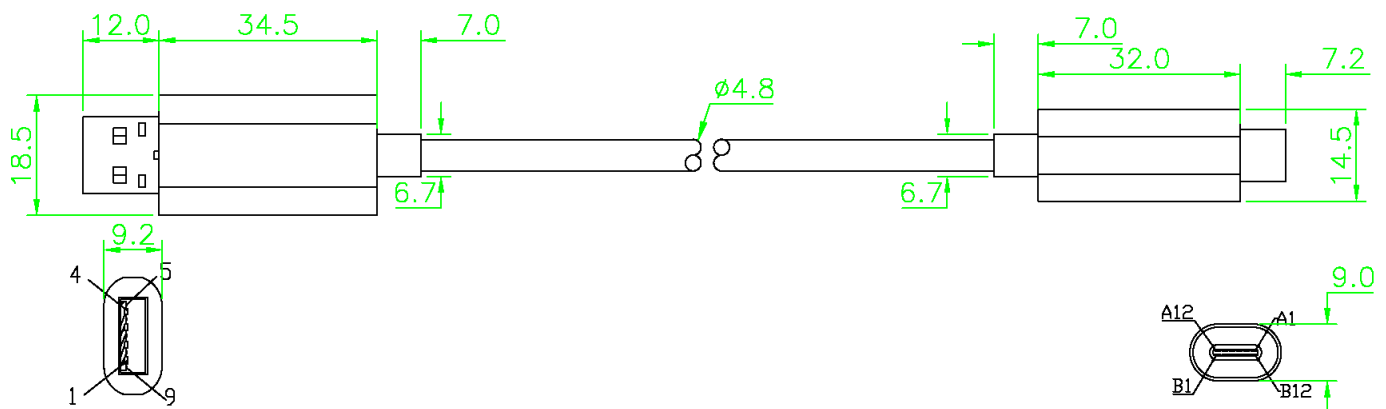
The USB A male USB C male format is a typical USB Host to Client connection. This cable not bi-directional and the C Connector cannot be used for Host connection. For best practices this cable should be connected directly from Host To Client. It should not be patched via a coupler or panel Connection.

### Key Features:

- Supports USB 2.0, 3.x signals
- USB 3.x Gen 2 10Gbps
- Immunity to EMI/RFI
- Plenum rated small diameter
- No external power needed

### Key Applications:

- USB Extension and Routing
- USB peripheral control
- Video over USB
- Boardroom, Collaboration
- Education



**Handling and Care:**

1. When plugging or unplugging from a receptacle, do not pull on the cable. Pull the connector by its housing to mate/de-mate.
2. Do not remove the connector housing or cut into the cable.
3. Discard cables with mechanically damaged housings or jackets properly

**Safety Considerations:**

1. Optical energy is contained within cable and the end housings there are no optical emissions exposed to the user
2. CAUTION: Do not cut optical cable Viewing the cut fiber ends, especially with certain optical instruments (for example, eye loupes, magnifiers, and microscopes) may pose an eye hazard

**Laser Information:**

This product is classified as a Class 1 Laser product in accordance with IEC 60825 1 1993 +A 1 +A 2 and complies with 21 CFR 1040 10 and 1040 11 except for deviations pursuant to laser notice N 0 50 dated 24 Jun 2007 Use or modification of this device other than those specified herein may result in hazardous radiation To meet laser safety requirements the cable shall be used within environmental specifications Tampering with or modifying the device will result in voiding of the product warranty.

INVISIBLE LASER RADIATION  
CLASS 1 LASER PRODUCT  
840-860nm, 700µW

Technical Specifications	
<b>I/O Connections</b>	
USB	Male USB Type A and Male Type C connectors, Gold Plated contacts
<b>Supported Signals</b>	
USB	USB 3.2 Gen 2 10Gbps, backwards compatible to USB 2.0 Full Speed
Formats Supported	Enumeration, Interrupt, Bulk, Isochronous
Power	Up to 15m supports 1.5W (5V 300mA), no support over 15m
Alt-Mode Video Support	No, USB data cable only
Maximum Bandwidth	10.0Gbps
<b>Cable Construction</b>	
USB Hood Material	Molded ABS
USB A Hood Dimensions	34.5mm x 18.5mm x 9.20mm. Strain relief is 7.0mm
USB C Hood Dimensions	32.0mm x 14.5mm x 9.0mm. Strain relief is 7.0mm
Fiber Jacket Material	Fluoropolymer (FEP)
Cable Construction	Hybrid GOF (Glass Optical Fiber) and Copper
Overall Cable Diameter	4.8 mm (0.189-inch)
Minimum Bend Radius	Unloaded: 48 mm (1.89"), Loaded: 96mm (3.78")
Maximum Tensile Load	20 kg (44 lbs.)
<b>Environmental Requirements</b>	
Operating Temperature	0° to 50° C (+32° to +122° F)
Operating Humidity	20% to 85%, Non-condensing
Storage Temperature	-30° to 75° C (-22° to +122° F)
Storage Humidity	20% to 85%, Non-condensing
<b>Power and Regulatory</b>	
Power Supply	USB BUS power supplied by Host/Client
Power Consumption	<0.50W both sides when not used to power remote client
Regulatory	NEC® rated CMP-OF, CEC rated CMP FT6, RoHS Compliant, CE
EMI/EMC	FCC Class B, CISPR32
Laser	Class 1 840-860nm, 700µW
<b>Other</b>	
Warranty	3 years

## Product Listing

Part Numbers	Part Description	Cable Length
DL-PLUSB3.1AC-003M	USB 3.2 GEN2 AOC AM-CM CMP 3M	3 meters / 10 feet
DL-PLUSB3.1AC-005M	USB 3.2 GEN2 AOC AM-CM CMP 5M	5 meters / 16 feet
DL-PLUSB3.1AC-008M	USB 3.2 GEN2 AOC AM-CM CMP 8M	8 meters / 25 feet
DL-PLUSB3.1AC-010M	USB 3.2 GEN2 AOC AM-CM CMP 10M	10 meters / 33 feet
DL-PLUSB3.1AC-015M	USB 3.2 GEN2 AOC AM-CM CMP 15M	15 meters / 50 feet

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