FireNEX™-uLINK-C2

Active USB 3.2 to USB-C Repeater Cable

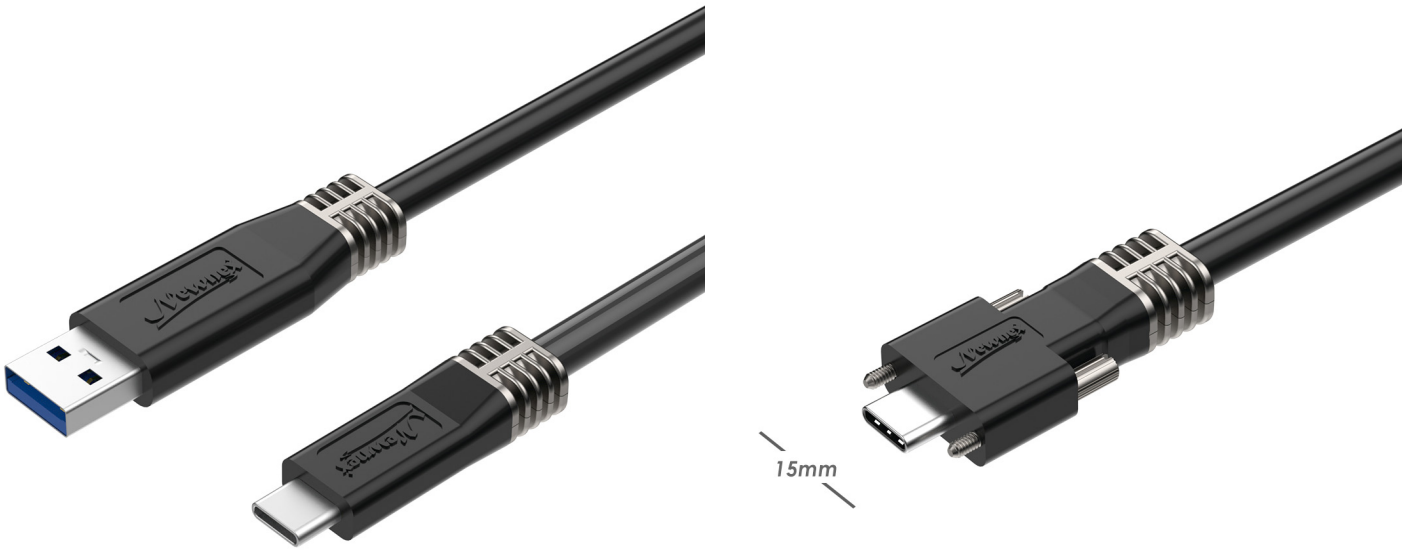
USB 3.2 Gen 1, 5Gbps, A to C, 5V/1.5A Bus Power, up to 30m

OVERVIEW

Introducing the FireNEX™-uLINK-C2, the latest active USB-C extension cable from Newnex, engineered to extend USB 3.2 Gen 1 (USB 3.0) data up to 5Gbps and deliver enhanced USB bus power at 5V/1.5A over distances up to 30m (100ft).

The FireNEX™-uLINK-C2 features a unique design with a repeater module embedded within the USB connectors, making it as compact and convenient as a regular USB cable. Its advanced USB repeater technology amplifies the 5Gbps USB signal, ensuring reliable performance and connectivity over extended distances.

This versatile cable also supports enhanced USB bus power up to 5V/1.5A and USB 2.0/1.1 backward compatibility, making it ideal for applications in computer vision, professional AV, medical imaging, and various other fields.



FEATURES

- Extend USB 3.2 data up to 30 m (100 ft) for USB-C devices
- USB 3.2 Gen 1 (USB 3.0) transfer support up to 5Gbps data rate
- Enhanced bus power; deliver power over USB cable at 5V/1.5A max. without additional power source
- USB 2.0/1.1 backward compatible
- Plug and play, no additional driver required
- Embedded repeater within USB connectors, conduit friendly
- USB-IF standard Type-C locking connector available
- Custom length available upon request

SPECIFICATIONS

Range	
USB 3.1 Gen 1 (USB 3.0)	Up to 30 m (98.4 ft)
Data Rate	
USB 3.1 Gen 1 (USB 3.0)	5 Gbps
USB 2.0 / 1.1	Fully Compatible
Mechanical	
Cable Diameter	6.4 mm (0.27”)
Jacket Material	PVC, Black
USB Connector on Host Side	USB Type-A
USB Connector on Device Side	USB Type-C *(Dual Screw Locking Connector available)*
Power	
Power Source	USB Bus Power
Available Power to Device	5V / 1.5A

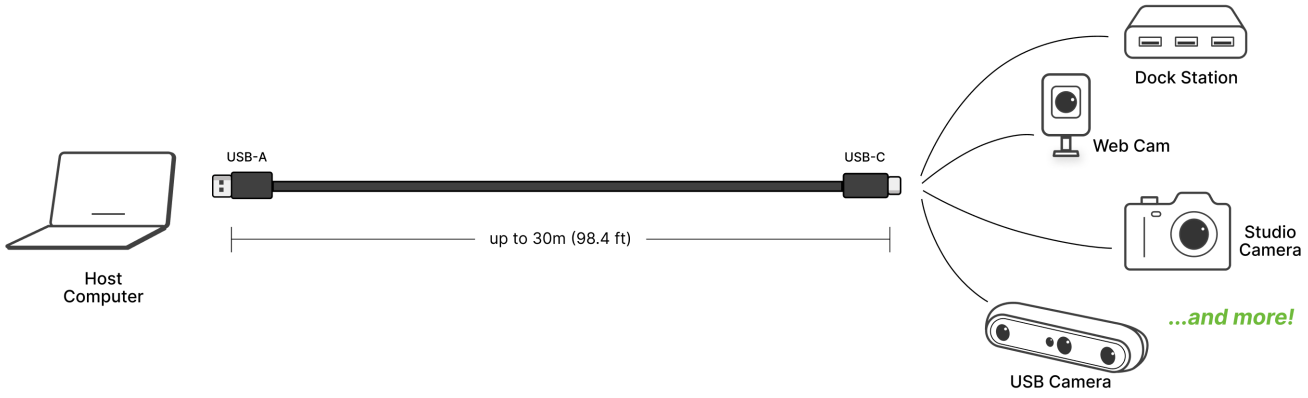
Environmental	
Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
Operating Humidity	20% to 80% relative humidity, non-condensing
Compliance and Compatibility	
EMC	FCC (Class B), CE (Class B)
Environmental	RoHS 2 & 3, REACH
Flammability	VW-1
Support	
Warranty	1-year

CONFIGURATIONS

(Other lengths and configurations are available upon request)

PN	Length	Configuration	Bus Power Delivery
ULU11MAC-10	10 m (32.8 ft)	USB 3.2 Gen 1, A/M to C/M	5V / 1.5A
ULU11MAC-18	18 m (59.1 ft)	USB 3.2 Gen 1, A/M to C/M	5V / 1.5A
ULU11MAC-30	30 m (98.4 ft)	USB 3.2 Gen 1, A/M to C/M	5V / 1.5A
ULU11MAC12-05	5 m (16.4 ft)	USB 3.2 Gen 1, A/M to C/M Locking	5V / 1.5A
ULU11MAC12-10	10 m (32.8 ft)	USB 3.2 Gen 1, A/M to C/M Locking	5V / 1.5A
ULU11MAC12-18	18 m (59.1 ft)	USB 3.2 Gen 1, A/M to C/M Locking	5V / 1.5A
ULU11MAC12-30	30 m (98.4 ft)	USB 3.2 Gen 1, A/M to C/M Locking	5V / 1.5A

APPLICATION DIAGRAM



FAQ

1. **Is FireNEX™-uLINK-C2 backward compatible with USB 2.0?**
   Yes, FireNEX™-uLINK-C2 is compatible with USB 2.0/1.1 data transfer.

2. **What is the maximum length of FireNEX™-uLINK-C2?**
   The FireNEX™-uLINK-C2 supports passive USB3 cables up to 5 meters. Compatibility with additional active cables is application-dependent; please contact Newnex for more information.

3. **Does FireNEX™-uLINK-C2 support USB PD (bus power) for the Orbecc Femto Bolt camera or Azure Kinect?**
   Yes, the enhanced bus-power feature of FireNEX™-uLINK-C2 can support bus-power delivery to the Orbbec Femto Bolt or Microsoft Azure Kinect cameras.

4. **Is FireNEX™-uLINK-C2 plenum rated?**
   Currently, FireNEX™-uLINK-C2 active cables are not plenum rated. When installing a FireNEX™-uLINK cable in plenum space, users can find a proper way, such as using a conduit, to intall the cable in order to meet the installation code.

ORDERING INFORMATION

Click here to learn more or order the FireNEX™-uLINK-C2.
For additional information, general inquiries, or technical support, please visit www.newnex.com.

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