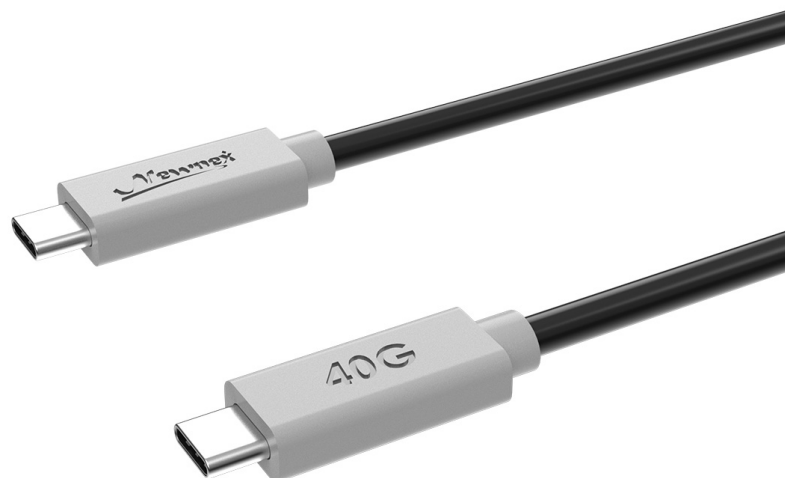


FireNEX™-uLINK-40G

40Gbps Active USB4 Cable, 4 m (13.1 ft)

USB 40Gbps, Thunderbolt Compatible, DisplayPort 2.0, 60W PD



OVERVIEW

[FireNEX™-uLINK-40G](#) is a 4-meter (13.1 ft.) active USB-C cable engineered with advanced repeater technology to deliver full-speed USB4 performance over extended distances. It supports data transfer rates up to 40Gbps, DisplayPort 2.0 video output (UHBR20), and USB Power Delivery (PD) up to 60W—all through a single cable.

Designed to extend USB-C and Thunderbolt™ connections without compromising performance, FireNEX™-uLINK-40G enables stable, long-distance connectivity between host systems and demanding USB4 devices such as high-resolution displays, multimedia docking stations, and high-speed external storage.

PRODUCT P/N

PN	ULK40GLCC-4M
Length	4 m (13.1 ft)
Configuration	C/M to C/M

FEATURES

- Actively extends high-performance USB-C connection up to 4 meters (13.1 ft)
- Bidirectional USB4 / Thunderbolt™ data transfer up to 40Gbps
- Backward compatible with USB 3.2 Gen 2 data rates up to 10Gbps
- Supports DisplayPort 2.0 video output up to UHBR20
- Compatible with DisplayPort 1.4 and 1.2
- Automatic switching between 4-lane and 2-lane DisplayPort modes
- USB Power Delivery 3.0 support up to 60W (20V / 3A), bidirectional power flow
- Plug-and-play operation with no drivers required for Windows®, macOS®, and Linux®

SPECIFICATIONS

USB

USB4	USB4 Gen 3x2 up to 40Gbps
USB 3.2 Gen 2	USB 3.2 Gen 2x2 up to 20Gbps USB 3.2 Gen 2x1 up to 10Gbps
USB 3.2 Gen 1	USB 3.2 Gen 1x1 up to 5Gbps (a.k.a. USB 3.1 Gen 1, USB 3.0)
USB 2.0/1.1	Up to 480Mbps

Thunderbolt

Thunderbolt 5 / 4 / 3	Compatible up to 40Gbps
-----------------------	-------------------------

Display

Single Display	16K @ 60Hz (with DSC) 10K @ 60Hz (uncompressed)
Dual Display	2x 8K @ 120Hz (with DSC) 2x 4K @ 144Hz (uncompressed)

Power

USB Power Delivery	USB PD 3.0 (via bus w/o additional power) both host to device & device to host
USB PD Profile	20 / 15 / 9 / 5V
Current	Up to 3A

Mechanical

Cable Diameter	4.8 +/- 0.2 mm (0.19 in)
Cable Jacket	TPE, Black
USB Connector	USB-C, Male, White

Environmental

Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity	20% to 80% relative humidity, non-condensing

Compliance and Compatibility

Environmental	RoHS
Flammability	VW-1

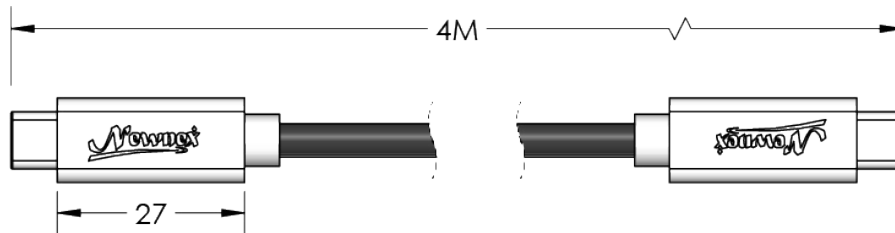
Support

Warranty	1-year manufacturer warranty
----------	------------------------------

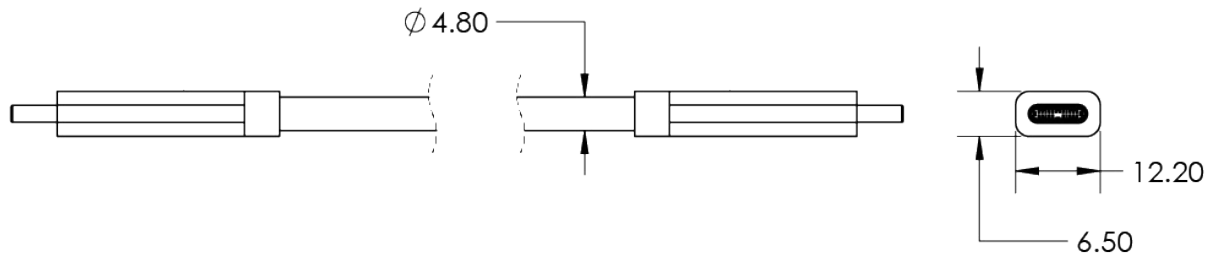
DIMENSIONAL DRAWING

units: mm
unless otherwise noted

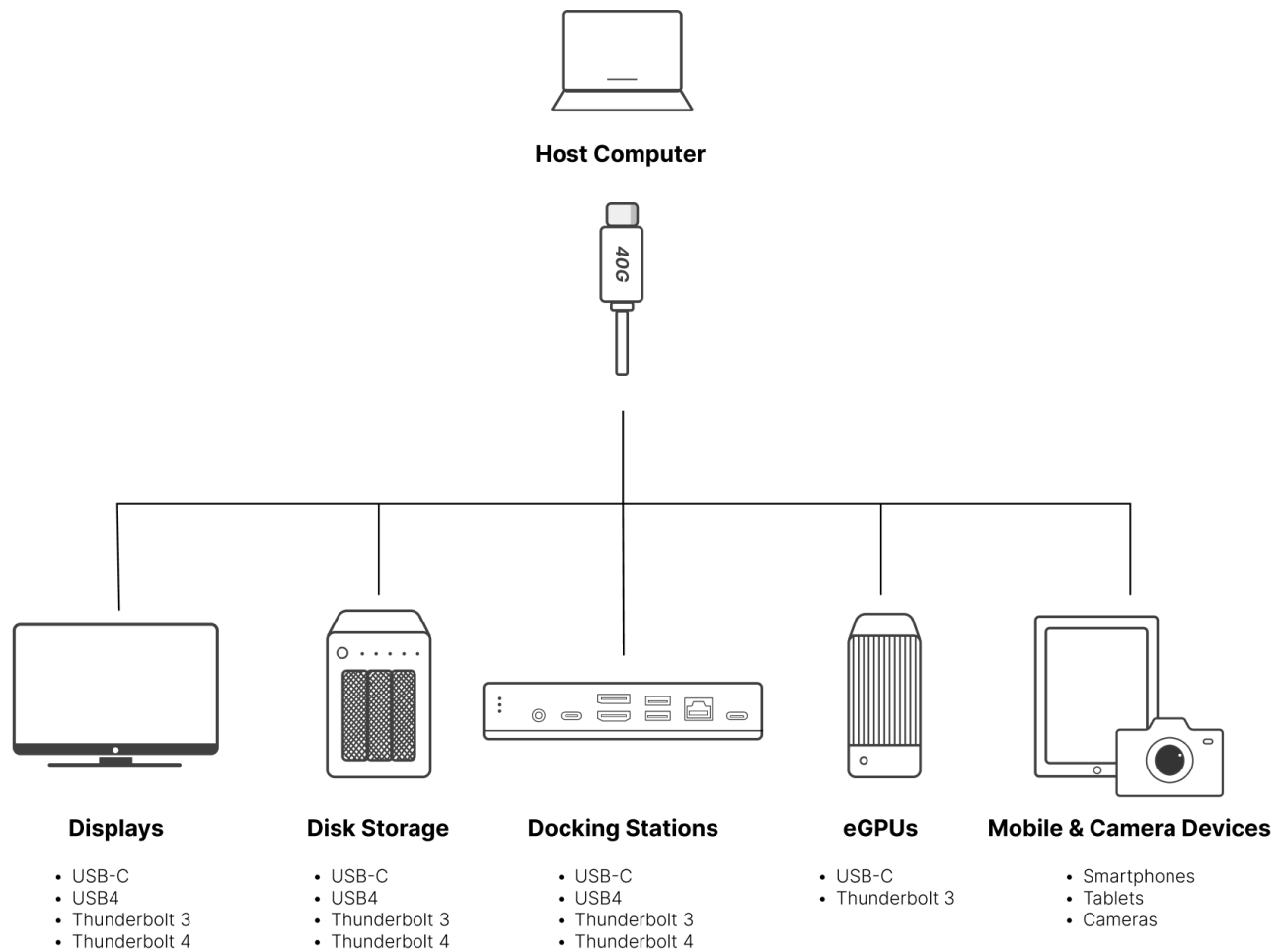
USB Type C
Male
White
Overmold



USB Type C Male
White
Overmold



APPLICATION DIAGRAM



ORDERING INFORMATION

Click [here](#) to learn more or order the FireNEX™-uLINK-40G.

For additional information, general inquiries, or technical support, please visit www.newnex.com.

Newnex Technology Corp.
3041 Olcott St., Santa Clara, CA 95054
www.newnex.com

FireNEX™-uLINK-40G Datasheet Rev 1.0
© 2026 Newnex. All Rights Reserved

Newnex
Connecting with Confidence™