

## 8K USB-C TO USB-C HYBRID ACTIVE OPTIC CABLE WITH PD

### DESCRIPTION

The DYNAMIX C-U32-LLF-CC is a full-featured hybrid USB Type-C Active Optical Cable (AOC) designed to deliver high-speed data, DisplayPort video, & Power Delivery through a single USB-C connection. By utilizing optical fiber for high-speed signal transmission & copper conductors for power delivery, it overcomes the bandwidth & distance limitations of traditional copper cables while maintaining excellent signal integrity. Supporting USB 3.2 Gen2 (10gbps) & DisplayPort 1.4 Alt Mode, the cable enables simultaneous video output, USB data transmission, & up to 60W PD charging. It operates in either 2-lane DP1.4 + USB 3.2 Gen2 mode or 4-lane DP + USB 2.0 mode, making it ideal for professional AV systems, medical imaging, broadcasting, machine vision, & high-performance computing applications.

### FEATURES

- Supports USB 3.2 Gen2 data up to 10gbps
- Supports DisplayPort 1.4 video (DP Alt Mode over USB-C)
- Supported modes:
  - 2-lane DP1.4 + USB 3.2 Gen2 (10gbps)
  - 4-lane DP + USB 2.0 (480mbps)
- Enables simultaneous video, data, & power transmission
- Power Delivery up to 60W (PD 3.0, 20V/3A)
- Backward compatible with USB 2.0 / 1.1
- Plug & Play
- Hybrid optical fiber + copper construction
- Thin, more flexible design
- Highly resistant to EMI & RFI
- Available lengths: 10m & 15m
- Resolution: 8K 60Hz (7680 x 4320)

**8K ULTRA HD 60Hz**



PRODUCT CODE	DESCRIPTION	PACK TYPE	LENGTH
C-U32-LLF-CC-10	USB-C 3.2 to USB-C Optic Cable with Power Delivery, Video 8K 60Hz	Carton Box	10m
C-U32-LLF-CC-15	USB-C 3.2 to USB-C Optic Cable with Power Delivery, Video 8K 60Hz	Carton Box	15m

## SPECIFICATIONS

Connector Type	USB-C Male	USB-C Male
Power Delivery	10m = 60W, 20V/3A	15m = 40W, 20V/2A
Functionality	Data + Video + Power	
Video Support	DisplayPort 1.4	
Resolution	8K@60Hz	
Configuration Modes	4-lane DP + USB 2.0 OR 2-lane DP1.4 + USB 3.2 Gen2	
USB Data Rate	Up to 10gbps (USB 3.2 Gen2)	
DP Bandwidth	8.1gbps per lane (DP1.4)	
Available Lengths	10m / 15m	
Power Delivery	PD 3.0, up to 60W	
Power Supply	3.0~5.5V	
Cable Outer Diameter	6.5mm	
Cable Structure	5-core optical fiber + 12 copper wires	
Jacket Material	TPE (Black)	
Cable Filler	Kevlar	
Cable Colour	Black	
Minimum Bend Radius	20mm (dynamic) / 10mm (static)	
Cable Pressure Resistance	200N (long term) / 400N (short term)	
EMI / RFI Resistance	High immunity to electromagnetic interference	
Operating Temperature	-20°C ~ 80°C	



Please note we took the up-most care to compile the information in this datasheet. To the best of our knowledge all info provided were correct at the time of creation. Should any specs change we try to update info accordingly. Information are subject to change without notice. In the case that you find any irregularity please inform our team at [contactus@dynamix.co.nz](mailto:contactus@dynamix.co.nz)  
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