

## USB-C TO USB-C HYBRID ACTIVE OPTICAL CABLE

### DESCRIPTION

The DYNAMIX C-U32-LL-CC is a USB 3.2 Gen2 Type-C to Type-C Active Optical Cable (AOC) designed for high-speed data transmission over extended distances. Utilizing a hybrid copper & fiber architecture, it enables stable 10gbps data transfer while minimising signal loss & eliminating electromagnetic interference (EMI), making it ideal for long-distance USB connectivity beyond traditional copper limitations.

Engineered for professional & commercial environments, the cable supports plug-and-play operation & is backward compatible with USB 2.0 & USB 1.1 standards. Support lengths up to 15m & wide system compatibility, the Dynamix C-U32-LL-CC provides a reliable solution for high-performance USB data transmission applications.

### FEATURES

- USB 3.2 Gen2 compliant
- Data transfer speeds up to 10gbps
- Hybrid fiber + copper construction
- Supports cable lengths up to 15m
- No external power required
- Plug-and-play design
- Supports charging up to 800mA/5V DC
- Backward compatible with USB 2.0/1.1
- No RF interference; stable in complex environments
- Data-only configuration



PRODUCT CODE	DESCRIPTION	PACK TYPE	LENGTH
C-U32-LL-CC-10	USB-C 3.2 Gen2 to USB-C Optic Cable (Data Only)	Carton Box	10m
C-U32-LL-CC-15	USB-C 3.2 Gen2 to USB-C Optic Cable (Data Only)	Carton Box	15m

## SPECIFICATIONS

Connector Type	Type C Male	Type C Male
USB Standard	USB 3.2 Gen2	
Maximum Data Rate	Up to 10gbps	
Backward Compatibility	USB 2.0/USB 1.1	
Cable Type	Hybrid Fiber & Copper Active Optical Cable (AOC)	
Optical Components	VCSEL laser & PIN photodetector	
Optical Wavelength	850nm	
Power Consumption	≤ 0.5W (TX & RX AOC)	
Supply Voltage	4.5 ~ 5.5V	
Power Delivery	DC 5V/0.8A	
Available Lengths	10m, 15m	
Power Supply	No external power required	
Cable O.D	4.8mm	
Tensile Strength (Short Term)	300N	
Tensile Strength (Long Term)	150N	
Crush Resistance (Short Term)	500N/100mm	
Crush Resistance (Long Term)	100N/100mm	
Dynamic Bend Life	20,000 cycles (180° swing, no open)	
Minimum Bend Radius (Static)	40 mm	
Minimum Bend Radius (Dynamic)	20 mm	
Operating Temperature	-40°C ~ +70°C	
Flammability Rating	UL13 Standard	
Jacket Material	PVC	
Compliance	CE, FCC, RoHS, REACH, UKCA	
Plug & Play	Yes	



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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