

USBC Pro 8K Series

USB-C® 8K/30 VIDEO OPTICAL CABLES
WITH USB 2.0 DATA & 60 W POWER DELIVERY



32.4 Gbps
DP Alt Mode

8K

The Extron USBC Pro 8K Series of active, hybrid optical-copper USB-C® cables simultaneously transmit DisplayPort AV, USB 2.0 data, and power over long distances. The feature-rich cables support 8K/30 video and audio on four DisplayPort lanes. These ultra-flexible, ultra-thin narrow bend radius cables are easy to install in tight spaces. They are active, unidirectional, and can draw power from either connected USB device. The USBC Pro 8K Series cables are ideal for devices that support 8K/30 video.

- ▶ Extends 8K/30 DisplayPort video and embedded audio signals
- ▶ USB 2.0 compliant
- ▶ Supports a USB data rate of 480 Mbps
- ▶ Power delivery of up to 60 watts
- ▶ Supports pass-through of EDID and HDCP-encrypted signals
- ▶ Ultra-flexible, ultra-thin 0.26" (6.5 mm) diameter cable
- ▶ No external power is needed
- ▶ Bidirectional USB power flow
- ▶ Highly resistant to EMI/RFI interference
- ▶ Color-coded and labeled ends
- ▶ Available in lengths from 12 feet to 30 feet (3.6 meters to 9.1 meters)

Extron

DESCRIPTION

The Extron **USBC Pro 8K Series** of active, hybrid optical-copper USB-C cables simultaneously transmit DisplayPort audio and video, USB 2.0 data rates, and power over distances up to 30 feet (9.1 meters). These feature-rich cables support 8K/30 video and audio on four DisplayPort lanes. The USBC Pro 8K cables support bidirectional power delivery of up to 60 watts. The ultra-flexible, 0.26" (6.5 mm) thin diameter and narrow bend radius cable construction allow for installation in tight spaces. These active cables are unidirectional and can draw power from either connected USB device. The USBC Pro 8K Series cables are ideal for USB-C enabled devices that support 8K/30 video.

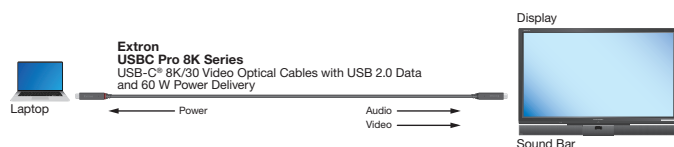
The USBC Pro 8K Series offers the benefits of fiber optics with the simplicity of traditional copper cables. Providing the best combination of price and performance, this cabling solution is ideal for sending DisplayPort video, embedded audio, USB data, and power signals over long cable runs while maintaining full signal integrity. It supports reliable operation in mission-critical applications.

For easy identification and cable orientation, a red-colored ring encircles the host connector neck and connector ends are molded with descriptive text to indicate source and display directionality.

KEY FEATURES

- ▶ Extends 8K/30 DisplayPort video and embedded audio signals
- ▶ Supports a USB data rate of 480 Mbps
- ▶ Power delivery of up to 60 watts
- ▶ Ultra-flexible, ultra-thin 0.26" (6.5 mm) diameter cable
- ▶ No external power is needed
- ▶ Bidirectional USB power flow
- ▶ Highly resistant to EMI/RFI Interference
- ▶ Gold-plated contacts
- ▶ Color-coded and labeled ends
- ▶ Available in lengths from 12 feet to 30 feet (3.6 meters to 9.1 meters)

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 8K SPECIFICATION

Max 8K Capabilities			
Resolution	Refresh Rate	Chroma Sampling	Max Bit Depth per Color
7680x4320	30 Hz	4:4:4	8 bit

Max 4K Capabilities			
Resolution	Refresh Rate	Chroma Sampling	Max Bit Depth per Color
4096x2160	60 Hz	4:4:4	12 bit
3840x2160	120 Hz		8 bit

Frame rate ¹	24, 25, 30, 50, 60, or 120 fps
Chroma sampling ¹	4:4:4 or 4:2:2
Color bit depth ¹	8, 10, or 12 bits per color
Signal Type	Up to DisplayPort 1.4 and HDCP 2.3
Max. video data rate	32.4 Gbps (8.1 Gbps Per Lane)

NOTE: ¹Subject to the maximum data rate limit. Use our calculator at www.extron.com/8Kdata to determine video parameters supported by this data rate.

VIDEO		
DisplayPort video	DisplayPort Alt Mode, DP 1.4 (4 lanes), up to HBR3/8.1 Gbps per lane	
Maximum data rate	32.4 Gbps (8.1 Gbps Per Lane)	
Resolution Range	640x480 ⁸ , 480p ^{7,8} , 576p ⁶ , 720p ^{3,4,5,6,7,8,9} , 1080p ^{6,7,8} , 1080p ^{1,2,3,4,5,6,7,8,9} , 2K ^{1,2,3,4,5,6,7,8} , 3840x2160 ^{1,2,3,4,5,6,7,8,9} , 4096x2160 ^{1,2,3,4,5,6,7,8,9} , 5120x2160 ⁸ , 7680x4320 ^{1,2,3,4,5}	
Frame rate	¹ 23.98 Hz, ² 24 Hz, ³ 25 Hz, ⁴ 29.97 Hz, ⁵ 30 Hz, ⁶ 50 Hz, ⁷ 59.94 Hz, ⁸ 60 Hz, ⁹ 120 Hz (depending on resolution)	
Standards	Up to DisplayPort 1.4 and HDCP 2.3	
DATA		
USB specification	USB 2.0 and USB 1.1 compatible	
USB data rate	Up to 480 Mbps	
Maximum built-in USB hubs		
USB 2.0	2	
POWER		
Maximum power delivery	60 W	
MECHANICAL		
Max pull strength	111 N (11.3 kg, 25 lbs)	
Cable outer diameter	0.26" (6.5 mm)	
Bend radius	0.79" (20 mm)	
GENERAL		
Regulatory compliance	CE, RoHS, UL-CMX, WEEE	
Warranty	Limited Lifetime Performance	
NOTE: All nominal levels are at ±10%.		
Model	Version Description	Part number
USBC Pro 8K/12	12' (3.6 m)	26-748-12
USBC Pro 8K/15	15' (4.5 m)	26-748-15
USBC Pro 8K/25	25' (7.6 m)	26-748-25
USBC Pro 8K/30	30' (9.1 m)	26-748-30

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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