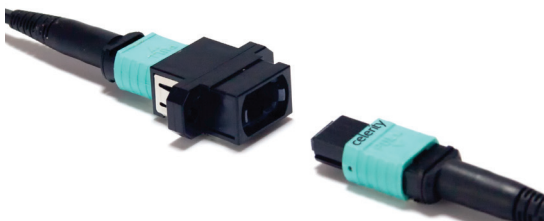


Universal Fiber Optic System

Production • Studio • Broadcast

Cables

Celerity Fiber Optic cables provide lossless signal transmission up to 8K resolution (DisplayPort 1.4) and require no fiber terminations. A plenum-rated small diameter (3mm x 2mm) outer jacket allows installation versatility and ease of movement for fixed stability cameras and studio production hardware.



Fiber Optics

Celerity UFO is installed with a simple two-step process; "Pre-Wire and Connect." This is made possible by Celerity's innovation with fiber optics so that fiber terminations, testing and tools are no longer necessary. This ensures reliability and efficient project deployment.

Mathematically Lossless

Unlike visually lossless codecs, Celerity is mathematically lossless, meaning that the video output is bit-by-bit identical to the original input. This means there is no transmission loss. Content is preserved without degradation.

No EMI and RFI

Celerity UFO is pure glass fiber construction so it may be placed without concern for other cabling and without interference to or from nearby components.



TX and RX Connector Cables

Celerity UFO Connector Cables apply the mathematically lossless logic to the video signal so that UHD video remains to its original standard. Each UFO-TX and UFO-RX Connector Cable has a compact head and 6 foot fiber optic pigtail pre-terminated to couple directly to the UFO fiber optic cable.

Light to Medium Duty Applications

- Patch panel
- Wall box connections
- PC interface
- Monitor displays
- Video wall
- Screening room
- Video distribution

Medium Duty Applications

- Fixed stability camera and jib
- ease of motion
- Mobile truck

Plenum Riser Applications

- UL OFNP rated, lengths up to 1000'
- 2 Steps to install - Prewire and Connect
- Facilities / video distribution

Universal Fiber Optic System



Celerity Technology

Employing advanced logic, laser and optical coupling, Celerity has developed a robust and versatile fiber optic interface for mission critical applications. Lossless signal transmission up to 1000 feet allows for ultra high video distribution in large facilities. Shorter length cables from 35 feet are ideal for studio applications for video editing, preview monitoring and main feed.

Future Proof

Celerity Universal Fiber Optic (UFO) cable has been developed with future upgrades, increased bandwidth to support a variety of connectivity interfaces. UFO may be installed and trimmed to the Celerity UFO Keystone wall plate with the TX and RX connectors added at a later date or upgraded such as from HDMI 2.0 to HDMI 2.1 or changed between HDMI and DisplayPort.

Fiber Optic Cable Jacket Options

Celerity's standard fiber optic cable jacket is plenum-rated OFNP. Internal strength layer or aramid yarn and a nylon ribbon protect the fiber conductors from damage under normal light to medium-duty applications. Armored Celerity Fiber Optic Cables are planned for the future to address medium to heavy duty applications during 2018.

Industry Experience

Celerity Technologies develops high performance, easy to use fiber optic products for audio and video system connections. Celerity's first breakthrough innovation, Detachable Fiber Optic HDMI has become successful with professional AV technicians for single and multi-room video systems. Celerity's slim fiber optic cable with detachable connectors and high bandwidth makes it easy for installation and provides the ultimate video performance. Today, Celerity Universal Fiber Optic HDMI further enhances performance with its all optical interface connectors and updated technology.

Universal Fiber Optic HDMI

Specifications

Distance	up to 1000 feet
Data rate	up to 18 Gbps
Resolution	up to 4K@60Hz UltraHD
Chroma sampling rate	up to 4:4:4
Supported features	HDMI High Speed HDR HDCP v2.2 EDID CEC BT.2020 Deep Color
Audio Return Channel	Yes
LED status indicator	at TX & RX HDMI connectors powered LED verifies connectivity
Power	TX: 0.5W RX: 0.5W; 5V DC
Temperature / Humidity	-04°F - 158°F (-20°C - 70°C) / 0% - 90% RH
Cable Jacket	Plenum rated
Cable pull strength	60 pounds
Bend radius	0.20" / 5mm
HDMI connector dims	0.33" x 0.66" x 0.96" / 8.5 x 16.7 x 24.5 mm
Fiber optic connector dims	0.31" x 0.51" x 1.77" / 8.2 x 12.9 x 1.77 mm

Universal Fiber Optic DisplayPort

Specifications

Distance	up to 1000 feet
Data rate	21.6 Gbps
Resolution	8Kx4K with use of 4:2:0 or VESA Display Stream Compression 5K without compression 4K@60Hz 24-bit without compression
Supported features	HDR HDCP v2.2 BT.2020
LED status indicator	at TX & RX HDMI connectors powered LED verifies connectivity
Power	TX: 0.5W RX: 0.5W; 5V DC
Temperature / Humidity	-04°F - 158°F (-20°C - 70°C) / 0% - 90% RH
Cable Jacket	Plenum rated
Cable pull strength	60 pounds
Bend radius	0.20" / 5mm
DisplayPort connector dims	0.37" x 0.87" x 1.20" / 9.4 x 22.1 x 30.5 mm
Fiber optic connector dims	0.31" x 0.51" x 1.77" / 8.2 x 12.9 x 1.77 mm

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