

celeritytechnologies



ct • fiber optic hdmi
detachable connector



Celerity Fiber Optic HDMI

Celerity Fiber Optic HDMI cables are an easy-to-use, plug and play connection between your Blu-ray, DVD, game console, computer, professional video and HDTV. Fiber optic provides the speed and bandwidth needed for the best picture quality for high definition video. Celerity works up to 1000 feet and supports 3D and 4K. Your high definition connections are future-proof with Celerity.

Celerity is HDMI High Speed certified and supports Audio Return Channel (ARC) so you don't have to connect a second cable for TV audio to your home theater system. The sleek cable can be easily concealed or

installed in walls. For AV professionals, the Detachable Fiber Optic HDMI connector makes it ultra-easy to pre-wire your home or business for high definition fiber optic connections between all of your HDMI sources and HDTV displays.

Fiber Optic HDMI versus Copper HDMI

Long distance runs of HDMI are common as the demand for high definition content for entertainment, information and data continues to rise. Until now, the method for long distance and multi-point distribution of high definition video has been over copper cabling with sender/receiver systems. With these systems, video quality and HDMI handshake can be compromised. DVI cables somewhat solve this but their large size and lack of audio channel support pose limitations. Copper cable systems are prone to interference, inferior connections and cumbersome power supplies.

Bandwidth and data speeds at 16Gbps and beyond support high-resolution images and overcome the limitations of copper cable which can adversely affect HDMI handshake in long distance runs. Celerity Fiber optic HDMI cables may be installed in concealed locations, conduit, plenum spaces and cabling raceways.



Typical
HDMI
cable

Celerity
fiber optic
HDMI

Celerity Technology

Celerity converts HDMI to optical signals in the Celerity fiber optic HDMI connectors. Precision embedded technology sends light, carrying the HDMI data stream through the fiber optic cables to the display. The application of fiber optic for HDMI allows the signals to be 100% EMI-free and without signal loss. No HDMI cable or extender system can do this nor can they match the compact size and sleek cable offered by Celerity.

Audio Return Channel (ARC)

Celerity is the world's first fiber optic HDMI cable with Audio Return Channel. ARC eliminates the need for an additional cable connection between the HDTV and the main audio system to provide TV source audio such as an internal tuner or TV smart application to the system loudspeakers.

Engineered for the Installer

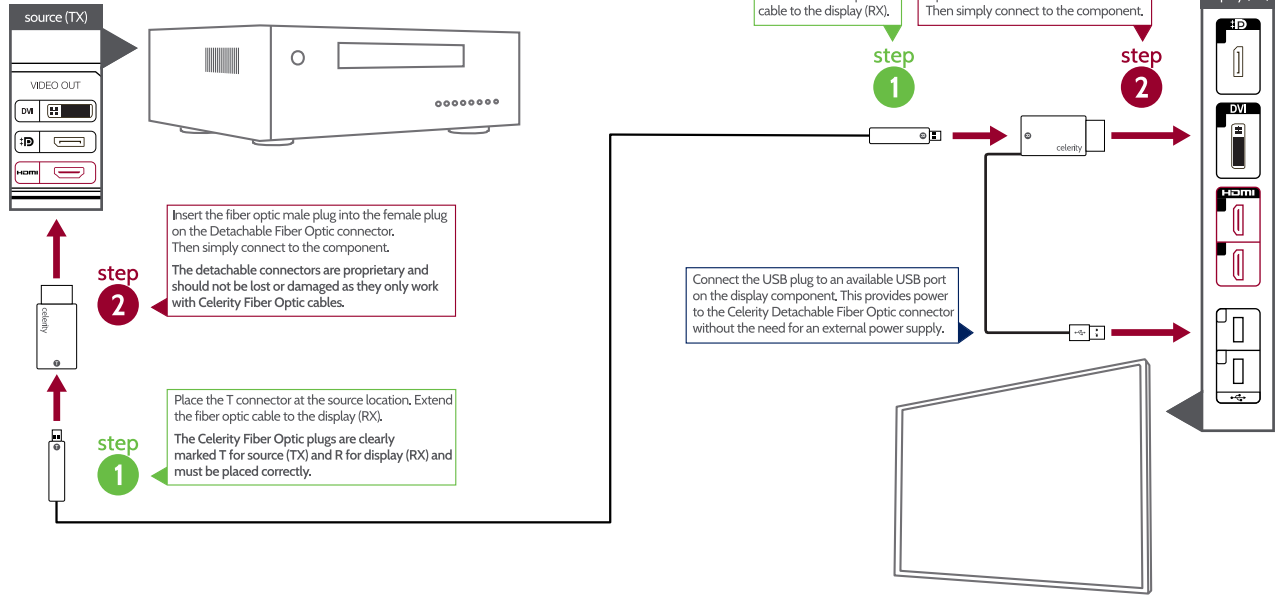
For professional AV installations in homes, commercial systems and digital signage applications, the benefits of fiber optic can sometimes be outweighed by the extremely time consuming and costly fiber termination process. Celerity has solved this problem for HDMI applications.

Detachable Fiber Optic HDMI

Celerity's 2-step process of prewire and connect simplifies the fiber optic connection between HDMI source and display. Celerity's fiber optic prewire cable is available in multiple lengths and is finished with a small fiber optic plug ensuring the fiber to electronic connection is to spec while eliminating the need for fiber terminations. Then simply attach the Celerity detachable HDMI connector at each location.



2 steps to fiber optic HDMI



Specifications

Supported distance	up to 1,000 feet
Data rate	18 Gbps
Supported resolutions	4K@60Hz UltraHD
Supported features	High Speed HDMI® HDCP v2.2 EDID CEC Deep Color
Audio Return Channel	Yes
LED status indicator	at TX & RX HDMI connectors; powered LED verifies system connectivity
Power	TX: DC5V 0.5W / RX: DC5V 0.5W
Humidity	0% - 90% RH
Cable jacket	plenum rated
Fiber optic cable pull strength	60 pounds
Fiber optic plug dimension	7 x 9 x 25 mm / .27" x .35" x .98"
HDMI connector dimension	8 x 20 x 28 mm / .31" x .78" x 1.10"

Available lengths

12.2m	40f
18.2m	60f
24.3m	80f
30.4m	100f
48.7m	160f
60.9m	200f
152.4m	500f
304.8m	1000f

Custom lengths

Available in 50' (15.2m)
increments from 250' to
950' (76.2m to 290m)

About Celerity Technologies

Founded in 2011, Celerity, the inventor of the first HDMI-certified fiber optic cable to support Audio Return Channel, is dedicated to providing the best quality connection between high-definition audio and video components for the home and business. Celerity possesses extensive experience in fiber optics, ASIC engineering, HDMI, electrical and mechanical engineering.

For more information, please visit celeritytek.com.