

## HDMI CABLES

# 4K UHD HDMI with HDR – Are you Ready?

In the spirit of the true cinephile, Gordon J Gow Technologies, Inc. developed Tributaries UHD HDMI cables, the most advanced line of Ultra High Definition HDMI cables available today. Designed by film lovers for film lovers, Tributaries UHD HDMI cables were developed using meticulous electronic engineering designed to exceed HDMI specifications by a minimum 20% providing headroom to overcome possible system inadequacies.

### UHD HDMI Cable Design

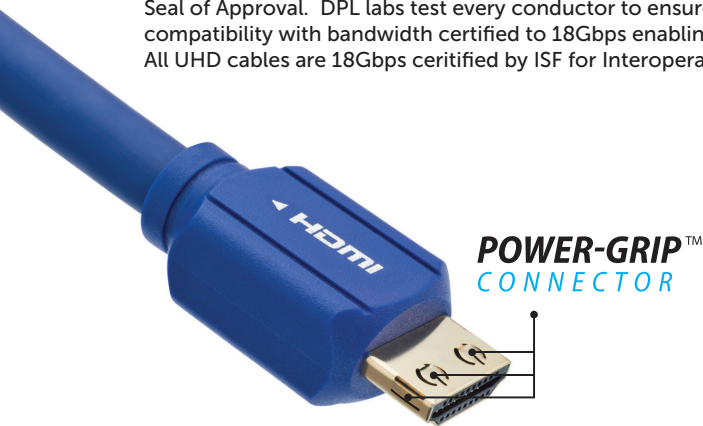
Tributaries offers the most advanced line of UHD HDMI cables available today. These cables have been custom designed to provide optimal operational 18Gbps performance. Every conductor in each cable length was electronically analyzed for its data rate capability with the result balanced against its gauge and flexibility. To guarantee optimal performance, VEGA, TITAN, X-TEND, PRO and SLIM models have undergone rigorous testing by DPL Labs and have earned the coveted 18Gbps Seal of Approval. DPL labs test every conductor to ensure 4K compatibility with bandwidth certified to 18Gbps enabling HDR. All UHD cables are 18Gbps certified by ISF for Interoperability.

### Focus on DDC

When a source and sink are connected the Display Data Channel (DDC) line communicates the EDID information and a HDCP handshake takes place. This handshake is required at start-up and is repeated continuously; if there is an error, the system will stop operation. The EDID data is transmitted via signal pulses. Due to the effect of capacitance, these pulses will degrade when they pass through a cable. The longer the cable, the greater the degradation. A cable with excessive capacitance will slow down the voltage Rise Time for each pulse, effectively degrading the data to the point of error and signal failure. All Tributaries UHD HDMI cables are designed with low capacitance on the DDC line to ensure error-free performance.

### Stay Connected

**Power-Grip:** Every Tributaries VEGA, TITAN, X-TEND, PRO and SLIM cable have the patented Power-Grip™ connector. Multi-locational raised elements provide proper tension top-to-bottom and side-to-side. We guarantee our connector will not shift in the electronics causing signal drop outs.



### Testing HDMI Cables

At Tributaries, testing cables is taken very seriously. We are the only cable company in the industry that tests every HDMI cable after it arrives from the factory using the Murideo Fresco Six-G HDMI 2.0 and HDCP 2.2 generator. This portable hand held UHD generator will produce an HDMI 2.0, 18Gbps signal of 2160p/60Hz with 8-bit color and 4:4:4 color sampling. In addition, the Fresco Six-G also tests the recessed pin #19: Hot Plug Detect. We confirm HDMI 2.0 and HDCP 2.2 compliance of every cable. Tributaries: Totally Tested, Tried and Trusted!



### DPL Labs Seal of Approval

Tributaries VEGA, TITAN, X-TEND, PRO and SLIM models have received DPL Labs 4K Cable Certification. The certification has 2 levels: 10.2Gbps and the coveted 18Gbps level. Tributaries is proud to be one of the first cable companies to receive this prestigious 18Gbps certification. To learn more about DPL Labs go to: [www.dpllabs.com](http://www.dpllabs.com)

## PASSIVE HDMI CABLES

HDMI (High-Definition Multimedia Interface) is a propriety interface for transmitting video/audio/control data between HDMI compliant devices. HDMI is the digital replacement for analog video. Why is passive so important? Passive HDMI cables are always preferred over active. In addition to incompatibility issues with other electronics, active cables are directional and will not work if reversed. The active cable requires power to supply the on-board electronics; typically, these cables harvest their power from unused TMDS voltages. This method works well if the source which drives the 5V line has an adequate output. If the source voltage is too low, it will draw down the vital 5-volt line. Passive cables are bi-directional and voltage agnostic, making any installation simpler and more stable. HDMI cables are sold in each.



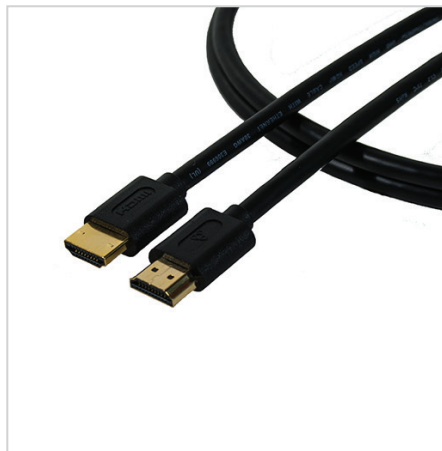
### UHD SERIES PASSIVE HDMI CABLE

## MODEL: UHD

Best Basic "Go-to" 18G UHD HDMI cable

The UHD HDMI cable is Tributaries basic go-to HDMI cable. The UHD is Tributaries no frills, economical level 18Gbps UHD HDMI cable but it is no slouch. Engineered for low noise signal transmission, the 30AWG digital signal conductors are precision twisted and have three layers of shielding. The connector is protected from EMI and RFI interference by an overall copper foil shield while boss elements provide a firm connection, keeping the connector seated in your electronics. The UHD is engineered to provide accurate 4K 18Gbps digital transmission with Deep Color and High Dynamic Range (HDR).

The UHD Series Passive HDMI cable is stocked in each in lengths from 1/2 meter to 4 meter



#### Model UHD Highlights

Made in China. Designed, packaged and tested in Orlando Florida, USA
Certified to support Ethernet, 3D, 4K and ARC
Certified to support UHD HDMI 4K/60 HDR signals
Guaranteed to pass data rates of 18Gbps
Earned ISF 18Gbps UHD HDMI cable certification
Tight fit connectors with boss elements stay in place
Available in lengths of 1/2 meter to 4 meter

