

# Hyper

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## WIDEBAND

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### 4K ACTIVE\* HDMI

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Product Information  
& User Instructions.



#### STATE OF THE ART PERFORMANCE

The Hyper wideband 4k HDMI with Ethernet has been designed from the bottom up to pass the most exacting bandwidth requirements, allowing the full unimpeded 18Gbps signal capability of the HDMI 2.0 specification to be delivered with ease at lengths of up to 15m.

- Resolutions up to 3840x2160
- Frame rates of 60Hz
- Colour depth of HDR requirements (12 bits)

#### ACTIVE/PASSIVE CONFIGURATION

\* The 7m version is an all passive design, whilst the 10, 12 and 15m cables feature an adaptive low noise 'Active' electronic design. The active cables **must** be connected with the correct orientation – the connector marked 'Display' (red connector cap) must be connected to your tv or display device. The passive version (clear connector caps) is non-directional and can be connected either way round.

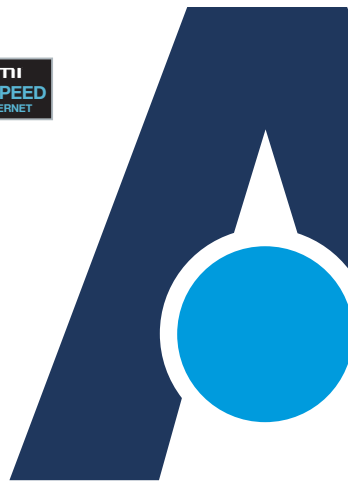
4K



ULTRA  
HD

HDMI  
HIGH SPEED  
with ETHERNET

**ATLAS**<sup>®</sup>  
the performance connection



## ACTIVE VERSUS PASSIVE TECHNOLOGY

Passive HDMI cables have a natural limitation, that being the attenuation characteristics of the base cable. Once the optimum length has been exceeded an exponential increase in data errors occur. Typically we consider around 8-10m is the maximum length for a passive HDMI cable, under the less-demanding HDMI 1.4a specification (lower resolution & bandwidth than the newer HDMI 2.0 requirements).

To meet the more stringent performance requirements (ultra high resolution & wide bandwidth) of HDMI 2.0, Atlas has implemented 'Active' HDMI technology.

Sophisticated electronics are built into the 'Display' end of the cable, which effectively extends the operational performance of longer cables. This adaptive technology is used effectively to keep the cable's outside diameter to a reasonable size whilst extending the length of the cable.

Hyper Active HDMI is available in 10, 12 and 15m lengths with no loss of performance.

Coupled with our installation grade precision connectors, Hyper is superbly suited to 'high-end' video installations.

NB. Active cables are **directional by manufacture** and must be connected the correct way around (see overleaf).

## LOW JITTER DESIGN FOR OPTIMUM SOUND QUALITY

As you'd expect given our passion for audio, the Hyper 4k HDMI is designed to give optimum sound as well as video quality.

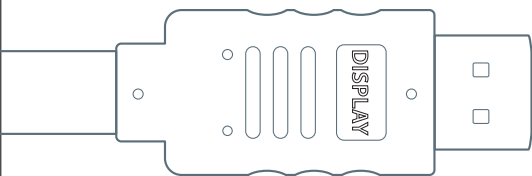
'Jitter' is basically digital noise, which introduces errors in the signal, causing a subtle but important deterioration in a cable's dynamic range.

Atlas' expertise in world-class digital audio interconnects means jitter is kept to extremely low levels.

## Atlas Cables

Unit 5, Block 8,  
Moorfield Industrial Estate,  
Troon Road, Kilmarnock,  
Ayrshire, Scotland KA2 0BA

0800 023 7370 (UK only); or  
+44 (0)1563 572666



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[atlas cables.com](http://atlas cables.com)