4K JAVELIN™
ACTIVE PLENUM HDMI CABLE

Model:
CHD-APxx

- Available in standard lengths of 33, 50, 75, 100, 150, 200 & 330 feet
- Supports all HDMI and DVI Resolutions Including 4K UHD
- Thin, flexible and lightweight (only 12 oz for 50ft cable)
- Hybrid Fiber / Copper Cable Construction
- Plug and Play, No Power Supply Required

4K JAVELIN
WHERE TECHNOLOGY MEETS MAGIC™

Hall Research 4K Javelin™ Active Plenum HDMI extension cables utilize the latest in optoelectronics to send HDMI signals to 200ft with zero loss. The HDCP compliant cables also support DDC and CEC for a truly plug-and-play experience.

CELEBRATING 30 YEARS OF INNOVATION

1984 30 2014

HALL RESEARCH
A NEW WAVE IN CONNECTIVITY

www.hallresearch.com
714.641.6607

Description:

Hall Research 4K Javelin™ Active Plenum HDMI extension cables utilize the latest in optoelectronic technology to transmit HDMI signals far beyond the typical limitations of copper cables. The cable is a hybrid of fiber and copper that allows HDMI signals to be extended 200 ft or more with zero loss. All PC and HDTV resolutions are supported including 4K Ultra HD. The HDCP compliant cables also support DDC and CEC. Proprietary circuitry is conveniently incorporated inside the HDMI connectors to convert the video signals to light pulses and back.

The plug-n-play cable requires no external power supply. Power is drawn from the 5v signal pin of the source HDMI output. The cable draws less than 0.25w of power from the source. Per HDMI specifications all HDMI compliant sources must at least provide 0.25 watts of power.

Among the impressive features of the 4K Javelin™ is its indifference to the resolution that is being extended. It has the ability to handle any resolution or color depth including non-standard video formats as long as the maximum data rate is less than 10.2 Gbps. No compression is used so the image at the far end of the cable is 100% identical to the source.

Since the video is sent using light pulses, the cable provides higher immunity to EMI or RFI interference and there is less chance of video dropouts due to environmental electromagnetic noise. The 4K Javelin™ Plenum cable can be used as a regular HDMI cable but without the worry of boosters or equalizers; being Plenum, also makes it possible to be used in any installation environment. Applications include, home theater, conference rooms, schools, airports, hospitals and more.

Features

- Plenum Rated
- Resolutions to UHD (4K)
- Offers fiber-optic noise immunity
- No additional power supply required
- Video supports 3D, Deep color, xvYCC Color
- Audio supports PCM, Dolby, True HD, DTS-HD
- Supports DDC for HDCP and EDID, CEC
- Thin and flexible with bend radius of 0.2 inch

Specifications

Performance Characteristics

Input	Male HDMI connector
Output	Male HDMI connector
Available lengths	CHD-AP15 – 15 meters (approx. 50 ft) ● CHD-AP23 – 23 meters (approx. 75 ft) ● CHD-AP30 – 30 meters (approx. 100 ft) ● CHD-AP46 – 46 meters (approx. 150 ft) ● CHD-AP60 – 60 meters (approx. 200 ft)
Video Standards	All Single Link and HDMI resolutions upto 3840x2160 @ 30 (4K UHD), Supports 3D, Deep color, xvYCC Color
Bandwidth	10.2 Gbps max (or channel rate of 3.4 Gbps max)
Aux Data	Supports DDC for HDCP and EDID, CEC
Audio Standards	Supports PCM, Dolby, True HD, DTS-HD

Electrical Characteristics

Supply Voltage	Powered from HDMI 5v pin 18. Nominal: 5v (operating range: 4.7v ~ 5.3 v) Damage will occur if 5v input is greater than 6v
Supply Current	Nominal: 40 ma, max: 47 ma
Power Consumption	Nominal: 0.23 watts (range: 0.2w ~ 0.25w)

Cable Characteristics

Grade	Plenum (UL)
Color	Grey
Cross section	5 mm x 3 mm (0.20 inch x 0.12 inch)
Bend Radius	5mm (0.2 inch) minimum
Connector Pull Strength	10 Kg (22 lbs) maximum

General

Connector Housing	Without the HDMI
Dimensions	1.4 inch x 0.8 inch x 0.4 inch (35.0mm x 20mm x 10 mm) Total length including HDMI plug and Strain relief: 2.6 inch
Power	Nominal: 0.23 watts (range: 0.2w ~ 0.25w)
Temp/humidity	Storage: -4 to +158 °F (-20 to +70 °C) / 5% to 90%, non-condensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 85%, non-condensing
Regulatory	CE, RoHS
EMI/EMC	CE, FCC Class A

4K™ JAVELIN