

The VDH HDMI (Halogen Free)

The VDH HDMI is a quality HDMI™ standard digital AV interface cable built according to, and fully compliant with the 1.3 specification for the High-Definition Multimedia Interface (HDMI™).

Offering exceptional performance and value for money, The VDH HDMI delivers clear sharp images, accurate colour definition, vivid contrast and lots of fine detail. Sound from DVD and DVD-Audio is pristine.

The applied materials in The VDH HDMI are halogen free and provide a long term stability of the cable's mechanical and electrical properties. The VDH HDMI furthermore exceeds all performance criteria for the strictest HDMI™ standards and is produced under licence from the HDMI organization.

Note: To convert from HDMI™ to DVI with this cable, we have a separate HDMI to DVI Adapter available.

Furthermore, to recondition the HDMI signal in A/V installations where the cable lengths are significant, we have a separate HDMI Repeater available.



Features:

- Fully HDMI™ 1.3 standard compliant
- Handles 1080p resolution up to 7.5 meter and 1080i resolution up to 15 meter
- Sky HDTV High-definition ready
- High-density-coated Oxygen Free Copper conductors
- High-quality HDMI 'Type A' connectors with heavy gold plated contacts
- Completely halogen free
- Ultra-low jitter for stable picture and sound
- Exceptionally wide bandwidth for clear detail
- Double outer shield; Almost totally immune to interference
- Shielded internal signal groups; Cable crosstalk almost zero
- Very low signal attenuation; Improved performance on longer runs up to 15 meter
- Decades of service life for install use

About the High-Definition Multimedia Interface (HDMI™) standard:

HDMI™ is able to transfer high quality uncompressed multi-channel audio data and all consumer electronics' video formats between DVD players, television sets, video displays, projectors and other compatible electronic equipment. The same interface also carries status and control information in both directions.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

HDMI™ brings advantages to the customer. Instead of connecting equipment with many different connectors and cables, HDMI™ replaces this maze of cabling by just a few easy to use connectors and cables. These cables transfer uncompressed digital audio and video data in superior quality. The all-digital rendering of video and audio skips the quality losses which are involved with the digital-to-analog and analog-to-digital conversions mostly associated with analog interfaces. Because of the interface's built-in content protection, the major motion picture producers are able to distribute high definition digital content towards the customer's hometheatres and domestic settings. HDMI™ supports intelligent communication between devices, which enables new functionality and a grow path towards a fully integrated home communication and entertainment system.

The HDMI™ system architecture is defined to consist of sources and sinks. A source - like a DVD player - will provide a HDMI™ output, and a sink - like a video display - is a device receiving a HDMI™ transferred signal. Basically the HDMI™ cable and connectors carry four differential signal pairs that make up the TMDS data and clock channels, transferring video, audio and auxiliary data. The additional VESA DDC channel is used for configuration and status exchange between a single source and a single sink. High level control functions between the various audiovisual products in a user's home are handled by the optional CEC protocol. Three TMDS data channels are transmitting video, audio and auxiliary data. HDMI™ is able to recover data transmitted across the data channels, which will give a reliable data transfer.

A word on high performance cables; What really matters:

We, at van den Hul, are not interested in producing the next 'very expensive' cable. We strongly believe in high performance for a modest and reasonable price. Quality and a long term reliability do not necessarily relate to sky high prices. The materials used in The VDH HDMI cable are halogen free and applied around optimised cable architectures. The high performance secret lies in experience and the combination of materials, comparable with the Haute Cuisine. Although we use the best materials available, building high quality cables has just as much to do with experience, knowledge, listening, judging, visual content, a well balanced production environment and, most

important: motivated, enthusiastic and knowledgeable people in our factories and design department. Basically, most of the ingredients that really make a difference in producing great cables are not inside the product's retail box. You will, however, gain awareness about these goodies when listening and watching audio visuals powered by our high standard cable technology.

We wish you a lot of pleasure with The VDH HDMI !

A summary of our HDMI cables' performance:	
The VDH HDMI:	HDMI™ 1.3 compliant Handles 1080p resolution up to 7.5 meter and 1080i resolution up to 12.5 meter
The VDH HDMI HQ:	HDMI™ 1.2 compliant and HDMI™ 1.3 compatible up to 7.5 meter Handles 1080i resolution up to 15 meter
The VDH HDMI Flat:	HDMI™ 1.4 compliant up to 10.0 meter Handles 1080i resolution up to 15.0 meter
The VDH HDMI Flat 180:	HDMI™ 1.4 compliant up to 10.0 meter Handles 1080i resolution up to 15.0 meter
The VDH HDMI Ultimate:	HDMI™ 1.3b compliant up to 15 meter Handles 1080i resolution up to 25 meter
Please note:	The lengths mentioned above are the minimum distances up to which the given performances are warranted. However, in most situations larger distances can be accomplished.

Related Articles & Papers:

» [VDH HDMI - Audio Video SA Aug 2005.pdf](#)

Cable Type:	HDMI
Conductor Material:	High density coated high purity OFC
Design Purpose/ Application Area(s):	HDMI™ standard digital AV interface
Eff. Conductor Ø/Eq. AWG No./Strands:	Data available on request
External Diameter / -Dimensions:	8.2 mm.
Insulation / Dielectric Strength / Test Voltage:	Internal conductors: Polypropylene; Jacket: HULLIFLEX® / - / 500 Vrms
Connector Types Suitable:	As ready mounted: 19 pin HDMI Type A (all required HDMI signals wired)
Standard Sales Units / -Lengths:	Single packed, fit with HDMI connectors in 1, 1.5, 2, 3, 5, 7.5, 10, 12.5 and 15 meter lengths.
Jacket Colours Available:	Purple-blue

Remarks:

Additional Specifications:

Maximum Cable Assembly Intra-Pair Skew:
112 pS (0.25 T_{bit})

Maximum Cable Assembly Inter-Pair Skew:
1.78 nS (0.4 T_{pixel})

Far-end Crosstalk:
< -26 dB

Attenuation:
300 kHz - 825 MHz: < 5 dB
825 MHz - 2.475 GHz: < 12 dB
2.475 GHz - 4.125 GHz: < 20 dB
4.125 GHz - 5.100 GHz: < 25 dB

Differential Impedance:
- Connection point and transition area:
Up to 1 nS (*): 100 Ohm ± 15%
- Cable area:
1 nS - 2.5 nS (*): 100 Ohm ± 10%

(*: Measurement point for TDR measurement of impedance)

Maximum Frequency:
> 165 MHz

Pixel Rate:
Signals up to 340 Mpixels/S

This cable is fully compliant with the 1.3 specification for the High-Definition Multimedia Interface (HDMI™).

Handles 1080p resolution up to 7.5 meter and 1080i resolution up to 15 meter.

Connectors need to be factory mounted.

Our HDMI to DVI Adapter is available as a separate accessory.

Our HDMI Repeater is available as a separate accessory.

Our The VDH HDMI HQ HYBRID is a technically extended version of this cable.

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