

Connectivity.Assured

## PRS<sup>3</sup> 4K UHD 18Gbps Active HDMI<sup>®</sup> Cable

Kordz PRS<sup>3</sup> features a narrow profile full metal die-cast shell assembly behind a unique grip tab HDMI connector for 3kg receptacle retention capacity. Engineered to mitigate connector dropout potential - not suitable for repeated plug/unplug events.

- ▶ DPL Certified 4K 18G-DC,
- ▶ High Speed with Ethernet, all lengths,
- ▶ Spectra7 active 7.5m - 15m, individually optimised with VerifEYE™,
- ▶ Engineered to fit through 1" conduit,
- ▶ Infrared soldered pin transitions for benchmark inter-terminal uniformity,
- ▶ Unique grip tab connectors for permanent installations,
- ▶ 100% of units tested on the production line for electrical continuity on all pins, with Bit Error Rate (BER) application test,
- ▶ UL CMG fire rated in all lengths,
- ▶ Limited 2 year warranty on active lengths,



Source end



Display end



www.kordz.com

### Technical Specifications

#### HDMI Compliance

HDMI CTS Certification.....	High Speed with Ethernet
Certified Data Rate .....	6.0Gbps, 17.82Gbps agg
Supported Data Rate.....	> 6.0Gbps, 17.82Gbps agg (4K UHD)
Supported HDMI Clock .....	27-340MHz

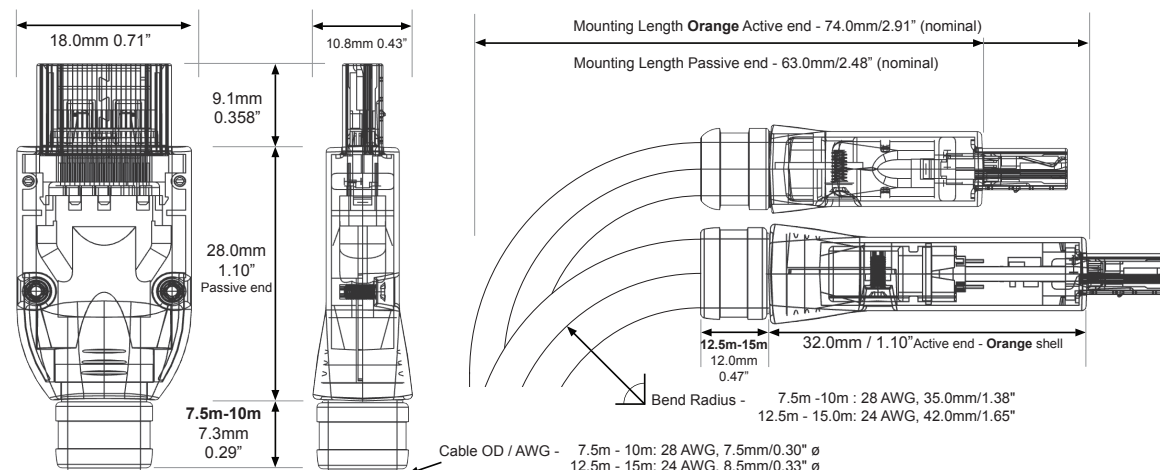
#### 7.5m - 15m ACTIVE

#### Construction

Primary Conductors .....	Solid 24-28 AWG OFC, length dependent	
Insulation	TMDS .....	HDPE
	4C + HEAC Pairs .....	HDPE / Foamed-PE / Polyolefin, length dependent
Shielding	TMDS Pairs .....	Al/Mylar
	Overall .....	AL/Mylar + AL braid 80% coverage
Cable Jacket .....	UL CMG fire rated PVC	
HDMI Connector Shell .....	Pressed steel with dual grip tabs, 1µ" 24K Gold plated	
HDMI Connector Pins .....	Solid OFC, 15µ" 24K Gold plated	
Active Technology (7.5m-15.0m).....	Directional, Spectra7 in-shell module	
Termination .....	Contactless IR induction soldering	
HDMI Backshell .....	Charcoal powder coated with stoving varnish die-cast zinc alloy shell assembly	
HDMI Active Backshell .....	Orange powder coated with stoving varnish die-cast zinc alloy shell assembly	

#### Mechanical

Cable Diameter.....	.28 AWG 7.5mm/0.30"   24 AWG 8.5mm/0.33"	
Mounting Depth.....	Source end: 28 AWG, 63.0mm/2.48"   Display end: 24 AWG, 74.0mm/2.91"	
Cable Bend Radius.....	Source end: 28 AWG, 35.0mm/1.38"   Display end: 24 AWG, 42.0mm/1.65"	
Retention Force (nom).....	29.7N (3kg / 6.6lbs) +10/-5%	



## Applications

- For permanent, standards compliant medium to long length High Speed HDMI connectivity installations\*,
- Installations where desired connector retention exceeds that of standard or die-cast connectors\*, (grip tabs provide 50% more retention force at 29.7N/3kg nominal),
- 7.5m+ lengths with Spectra7 technology for direct interconnection between AV devices†,
- In-wall cabling, fits through 1" Ø conduit,
- Hotel room AV systems and bars,
- Digital signage & video walls,
- UHD video and professional graphics up to 2160 Vres,
- 1080p & 2160p (UHD) projector installations,
- HDMI 2.0 scaleable.

\* Proprietary grip tabs are NOT suitable for repetitive plug/unplug events, as tabs will fatigue - for permanent installs only.

† Active cables (7.5m-15.0m) are custom tuned to length. Cable extensions or adapters at either end should be avoided.

## Application Specifications

### Video Format Support

### Data rate per channel / Aggregate, TMDS Bandwidth

<b>480i/p, 576i/p</b> .....	≤ 540Mbps/1.62Gbps, 270MHz
<b>720p/1080i</b> .....	742.5Mbps/2.22Gbps, 371.25MHz
<b>1080p</b>	
8-bit RGB/YCbCr 4:4:4, 10/12-bit 4:2:2 or 4:2:0	
23.98/24/29.97/30.....	742.5Mbps/2.22Gbps, 371.25MHz
50/59.94/60.....	1.485Gbps/4.455Gbps, 742.5MHz
3D-24/30.....	1.485Gbps/4.455Gbps, 742.5MHz
3D-50/60.....	2.97Gbps/8.91Gbps, 1.485GHz
10/12/16-bit RGB/YCbCr 4:4:4	
50/59.94/60fps.....	1.86-2.97Gbps/5.57-8.91Gbps, ≤ 1.485GHz
<b>2160p (UHD/4K)</b>	
HDMI 1.4b, 8-bit RGB/YCbCr 4:4:4, 10/12-bit 4:2:2 or 4:2:0	
4096x2160p/24 (SMPTE).....	2.97Gbps/8.91Gbps, 1.485GHz
3840x2160p/23.98/24/29.97/30.....	2.97Gbps/8.91Gbps, 1.485GHz
HDMI 2.0, 8-bit YCbCr 4:2:0	
2160p*/50/59.94/60.....	2.97Gbps/8.91Gbps, 1.485GHz

<b>VESA graphics</b> .....	Supports all as defined by HDMI specification, up to 17.82Gbps
<b>Color Spaces</b> .....	RGB, YCbCr, xvYCC, Adobe sRGB, sYCC601, ITU-BT.2020
<b>Audio Formats Support</b> .....	PCM 2.0-7.1, DD/DTS HD 7.1, 3D Audio (10.2   22.2   30.2ch)
<b>HDMI Ethernet Channel</b> .....	Supported, system dependent
<b>HDMI Audio Return Channel</b> .....	Supported, Single Mode & Common Mode

## Models



Length	Model	AWG	Technology
7.5m   24' 7"	K36136-0750-CH	28	Spectra7 Active, Directional
10.0m   32' 9"	K36136-1000-CH	28	Spectra7 Active, Directional
12.5m   41' 0"	K36136-1250-CH	24	Spectra7 Active, Directional
15.0m   49' 2"	K36136-1500-CH	24	Spectra7 Active, Directional

