

# R.3 4K UHD 18Gbps Rack Install HDMI® Cable

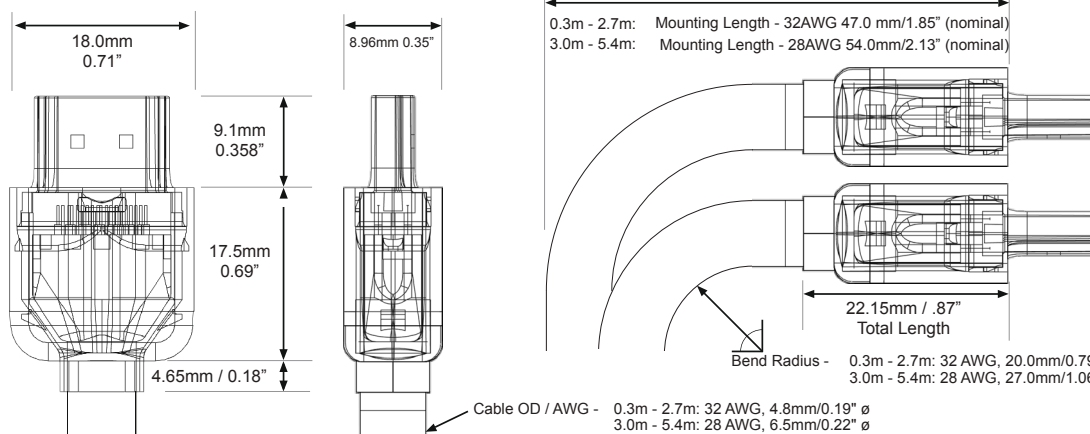
Kordz R.3 is engineered for bespoke commercial AV rack and critical application installations. The unique combination of the die-cast HDMI connector, flexible halogen free cable and small profile lightweight design results in unrivalled installation flexibility and robustness. Beyond this, the R.3 cables have increased shielding to prevent electromagnetic interference (EMI) which often occurs in rack environments.

- Engineered and built to deliver maximum commercial up-time
- 0.3 - 3.0m lengths in 0.3m increments for precision rack fit-offs
- 3.6 - 5.4m lengths in 0.6m increments
- High bandwidth solid OFC conductors
- Induction soldered pin transitions for benchmark inter-terminal uniformity
- Anti-fatigue Die-cast Zn alloy connectors tested to  $\geq 1,000$  cycles & 2kg retention force
- 100% of units tested for zero bit error rate @ 340Mcsc, <0.05% in-field failure rate
- Halogen-free construction
- DPL Certified 4K 18G-DC
- Limited lifetime warranty



## Technical Specifications

HDMI Certification		≤ 5.4m PASSIVE
HDMI CTS (Certified Test Specification)		High Speed with Ethernet
DPL Labs Certified Data Rate		6.0Gbps, 17.82Gbps agg
DPL Labs Certified Data Rate		≥ 6.0Gbps, 17.82Gbps agg (4K UHD)
HDMI Clock		27-340MHz
Construction		
Primary Conductors		Solid 32/28AWG OFC, length dependent
Insulation	TMDS	Foamed PE / Polyolefin
	4C + HEAC Pairs	Foamed PE / Polyolefin
Shielding	TDMS Pairs	Al / Mylar
	Overall	Al/Mylar + CU braid 90% coverage
Cable Jacket		Halogen-free TPE
HDMI Connector Shell		Anti-fatigue die-cast Zn alloy, 1μ" 24K Gold plated
HDMI Connector Pins		Solid OFC, 15μ" 24K Gold plated
Termination		Contactless IR induction soldering
HDMI Backshell		Al anodised front with Halogen-free TPE strain relief
Mechanical		
Cable Diameter		0.3m - 2.7m: 32 AWG, 4.8mm/0.19"ø   3.0m - 5.4m: 28 AWG, 6.5mm/0.22" ø
Mounting Depth		0.3m - 2.7m: 32 AWG, 47.0mm/1.85"ø   3.0m - 5.4m: 28 AWG, 54.0mm/2.13"ø
Cable Bend Radius		0.3m - 2.7m: 32 AWG, 20.0mm/0.79"ø   3.0m - 5.4m: 28 AWG, 27.0mm/1.06"ø
Retention Force (nom)		20N (approx 2kg / 4.4lbs) +10/-5%



HALOGEN  
FREE  
FIRE RATED

HDMI®  
2.0 Adopter



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Application Specifications							
Video Format Support		Data rate per channel / Aggregate, TMDS Bandwidth					
480i/p, 576i/p		≤ 540Mbps/1.62Gbps, 270MHz					
720p/1080i		742.5Mbps/2.22Gbps, 371.25MHz					
1080p - 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					
1080p - 10/12/16-bit RGB/YCbCr 4:4:4							
	50/59.94/60fps	1.86-2.97Gbps/5.57-8.91Gbps, ≤ 1.485GHz					
2160p (UHD/4K)							
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					
HDMI 2.0Mode, 8-bit 4:4:4, 10/12-bit 4:2:2 or 16-bit 4:2:0							
	2160p*/50/59.94/60-2D 9CEA-861-F	5.94Gbps/17.82Gbps, 2.97GHz					
	2160p*30-3D	5.94Gbps/17.82Gbps, 2.97GHz					
VESA Graphics		Supports all as defined by HDMI 2.0 specification, up to 17.82Gbps					
Color Spaces		RGB, YCbCr, xvYCC, Adobe sRGB, sYCC601, ITU-BT.2020					
Audio Formats Support		PCM 2.0-7.1, DD/DTS HD 7.1, 3D Audio (10.2   22.2   30.2ch)					
HDMI Audio Return Channel		Supported, System Dependant					
Commercial Range Comparison Features		ONE	PRO <sup>3</sup>	PRS <sup>3</sup>	R.3		
1080p60 On all Lengths		✓	✓	✓	✓		
4K24 4:2:2 HDR12		to 3m	✓	✓	✓		
4K60 4:4:4 8 Bit		✖	✓	✓	✓		
10.2 Gbps Guaranteed Bandwidth		to 3m	✓	✓	✓		
18.0 Gbps Guaranteed Bandwidth		✖	✓	✓	✓		
Connector Retention Force		<1kg	1kg	3kg	2kg		
Dual wrap Al/Mylar + industry leading 90% coverage copper braid shield		✖	✖	✖	✓		
DPL Labs Certified		✖	✖	✓	✓		
Lifetime Warranty		✓	✓	✓ <sup>②</sup>	✓		
Jacket Material - fire rating		UL CM/G <sup>④</sup>	UL CMG	UL CMG <sup>③</sup>	HF <sup>①</sup>		
① Refers to Halogen Free Jacket Material ② 5 Year Warranty on All Active Cables ③ Available in LSZH and CMP for AOC Cables Only							
Part No:	Length	AWG	Technology	Inner Ctn Qty	Inner Ctn Weight Kgs	Master Ctn Qty	Master Ctn Weight Kgs
R.3-HD0030	0.3m   0’ 11.8”	32	Passive	18	0.88	108	5.3
R.3-HD0060	0.6m   1’ 11.6”	32	Passive	15	0.93	90	5.3
R.3-HD0090	0.9m   2’ 11.4”	32	Passive	12	0.88	72	5.2
R.3-HD0120	1.2m   3’ 11.2”	32	Passive	12	0.98	72	5.8
R.3-HD0150	1.5m   4’ 11.0”	32	Passive	10	0.97	60	5.6
R.3-HD0180	1.8m   5’ 10.8”	32	Passive	10	1.05	60	6.1
R.3-HD0210	2.1m   6’ 10.6”	32	Passive	8	0.98	48	5.7
R.3-HD0240	2.4m   7’ 10.5”	32	Passive	8	1.05	48	6.0
R.3-HD0270	2.7m   8’ 10.3”	32	Passive	6	0.92	36	5.5
R.3-HD0300	3.0m   9’ 10.1”	28	Passive	8	1.87	24	5.8
R.3-HD0360	3.6m   11’ 9.7”	28	Passive	8	2.07	24	6.5
R.3-HD0420	4.2m  13’ 9.3”	28	Passive	8	2.30	24	6.9
R.3-HD0480	4.8m   15’ 9.0”	28	Passive	6	2.03	18	6.3
R.3-HD0540	5.4m   17’ 8.6”	28	Passive	6	2.20	18	6.9

Kordz products are sold with a limited warranty as outlined at: [www.kordz.com](http://www.kordz.com)

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