



## Cable Guide

All lengths  
in metres

3.0

2.0

1.5

1.0



5.0

4.0

3.0

2.0

1.5

1.0



### Guaranteed Bandwidth

32.4 Gbps

48.0 Gbps

# kordz®

## Connectivity.Assured

## Bravo HDMI®

## PRO DisplayPort®



HDMI 2.1 supports legacy TMDS mode and introduces Fixed Rate Link (FRL) mode which uses 3 Lanes operating at 3 or 6Gbps (max 18Gbps) or 4 Lanes at 6, 8, 10 or 12 Gbps (max 48Gbps). Bandwidth and optional DSC compression allow for a wide range of 4K, 5K Wide, 8K and 10K Wide resolutions, 8,10 & 12bit colour depths and frame rates up to 120fps. New Category 3 HDMI cables will be required to support all 2.1 features.



DisplayPort 1.4 uses the transmission mode HBR3 (32.4 Gbit/s) as introduced in version 1.3 and is still the highest available mode. DisplayPort 1.4 adds support for 4K, 5K & 8K resolutions with frame rates up to 240fps, Display Stream Compression 1.2 (DSC), Forward Error Correction, 8, 10 & 12 bit colour space including static and dynamic HDR. It also includes Rec.2020 colour space for HDMI interoperability. Audio capabilities extend to a maximum number of 32 audio channels.

# 8K Bandwidth Guide



HDMI <sup>®</sup> Resolution		Frame Rate	Color depth (bits)	Chroma Subsampling	Speed	Data Rate (Gbps)	
HDMI 2.1 - 2019-2020	4K	60	HDR10	4:4:4/RGB	Ultra High Speed	20.05	
			HDR12			24.06	
		100/120	8, HDR10 or 12	4:2:0/4:2:2		32.08	
				8-bit		32.08	
			HDR10	4:4:4/RGB		40.10	
				HDR12		48.11	
	5K	48/60	8, HDR10 or 12	4:2:0/4:2:2	Ultra High Speed	20.05	
						8-bit	20.05
			HDR10	25.06			
		HDR12		30.07			
		100/120	8, HDR10 or 12	4:2:0/4:2:2		Ultra + DSC	40.10
							8-bit
	HDR10		50.12				
	8K	7680 x 4320p	24/30	8-bit	4:2:0	Ultra High Speed	17.82
				HDR10 or 12	4:2:0/4:2:2		32.08
					HDR10		40.10
			HDR12	4:4:4/RGB	48.11		
				HDR10	40.10		
				HDR12	48.11		
		48/60	HDR10 or 12	4:2:0/4:2:2	Ultra + DSC	64.15	
HDR10				80.19			
HDR12			96.23				
10K		10240 x 4320p	100/120	HDR10 or 12	4:2:0/4:2:2	Ultra High Speed	128.30
							HDR10
			24/30	HDR12	4:4:4/RGB		50.12
	HDR10 or 12	60.10					
	48/60	HDR10	4:2:0/4:2:2	Ultra + DSC	80.19		
			HDR12		100.24		
HDR10		120.29					
100/120	HDR12	4:2:0	100.24				
		HDR12	120.29				
DisplayPort <sup>®</sup> Resolution	Frame Rate	Color depth (bits)	Chroma Subsampling	DSC 1.2 <sup>[1]</sup>	Data Rate (Gbps)		
DisplayPort 1.4 2018-2019	4K	3840 x 2160	8-bit	4:4:4/RGB	No	15.68	
						19.74	
						32.28	
					DSC or 4:2:2	39.19 or 26.16	
						DSC or 4:2:0	68.55 or 30.92
	5K	5120 x 2880	8-bit	4:4:4/RGB	No	13.68	
						27.73	
						DSC or 4:2:0	57.08 or 27.36
					DSC	69.30	
						DSC + 4:2:2	80.91
	8K	7680 x 4320	8-bit	4:4:4/RGB	No	30.60	
						DSC or 4:2:0	62.06 or 30.60
						DSC + 4:2:2	85.28
					4:2:2	DSC + 4:2:0	77.56
							DSC + 4:2:0

[1] - Display Stream Compression (DSC1.2) is a VESA-developed low-latency compression algorithm to overcome the limitations posed by sending high-resolution video over physical media of limited bandwidth. It is a visually lossless low-latency algorithm based on delta PCM coding and YCoCg-R colour space; it allows increased resolutions and colour depths and reduced power consumption.