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HDMI® Cable Guide

Lengths
in metres

Guaranteed Bandwidth

- 48.0 Gbps
- 18.0 Gbps
- 10.2 Gbps
- 4.56 Gbps

Active Copper Cable (ACC)			Active Optical Cable (AOC)								
		12.5	100	328ft							
			75	246ft							
			50	164ft							
			30	98.4ft							
		12.5	25	82.0ft							
			20	65.6ft							
			15	49.2ft							
		12.5	12.5	41.0ft							
10	9.0	10	10	32.8ft	9.0	29.5ft	9.0				
	7.0	7.5	7.5	24.6ft	7.0	23.0ft	7.0				
5.0	5.0		5.0	16.4ft	5.0		5.0	18ft	5.4		
								16ft	4.8		
	4.0		4.0	13.1ft	4.0		4.0	14ft	4.2		
								12ft	3.6		
3.0	3.0		3.0	9.8ft	3.0		3.0	10ft	3.0	3.0	
								9ft	2.7		
								8ft	2.4		
								7ft	2.1		
2.0	2.0		2.0	6.6ft	2.0		2.0			2.0	
								6ft	1.8		
	1.5		1.5	4.9ft	1.5		1.5	5ft	1.5	1.5	
								4ft	1.2		
1.0	1.0		1.0	3.3ft	1.0		1.0	3ft	0.9	1.0	
								2ft	0.6		
0.5	0.5		0.5	1.6ft	0.5		0.5	1ft	0.3		

ONE	PRO³	PRO⁴	PRS⁴	R.3	Bravo
					

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HDMI® Bandwidth Guide

	Resolution	Frame Rate	Color depth (bits)	Chroma Subsampling	HDMI Certified Test Specification	Data Rate (Gbps)
HD*	1920 x 1080p	24	8-bit	4:2:0 / 4:2:2	Standard with Ethernet	2.22
		60		4:4:4 / 4:2:0 / 4:2:2		4.45
HD*	1920 x 1080p	120	8-bit	4:4:4 / 4:2:0 / 4:2:2	High Speed with Ethernet	8.91
4K*	3840 x 2160p	24	8-bit, HDR10 or 12	4:2:0 / 4:2:2		8.91
		24	8-bit	4:4:4 / RGB		8.91
		60		4:2:0		8.91
4K†	3840 x 2160p	24	HDR12	4:4:4 / RGB	Premium	11.14
		60	HDR10	4:2:0		11.14
			HDR12	4:2:2		17.82
			8-bit	4:4:4 / RGB		17.82
4K‡	3840 x 2160p	60	HDR10	4:4:4 / RGB	Ultra High Speed	20.05
			HDR12			24.06
		100 / 120	8-bit, HDR10 or 12	4:2:0 / 4:2:2		32.08
			8-bit	4:4:4 / RGB		32.08
			HDR10			40.10
			HDR12			48.11
5K‡	5120 x 2160p	48 / 60	8-bit, HDR10 or 12	4:2:0 / 4:2:2	Ultra High Speed	20.05
			8-bit	4:4:4 / RGB		20.05
			HDR10			25.06
			HDR12			30.07
		100 / 120	8-bit, HDR10 or 12	4:2:0 / 4:2:2		40.10
			8-bit	4:4:4 / RGB		40.10
			HDR10		Ultra + DSC	50.12
			HDR12			60.14
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	4:4:4 / RGB		40.10
			HDR12			48.11
		48 / 60	HDR10	4:2:0		40.10
			HDR12			48.11
			HDR10 or 12	4:2:0 / 4:2:2	Ultra + DSC	64.15
			HDR10	4:4:4 / RGB		80.19
			HDR12			96.23
		100 / 120	HDR10 or 12	4:2:0 / 4:2:2		128.30
10K‡	10240 x 4320p	24 / 30	HDR10 or 12	4:2:0 / 4:2:2	Ultra High Speed	40.10
			HDR10	4:4:4 / RGB	Ultra + DSC	50.12
			HDR12			60.10
		48 / 60	HDR10 or 12	4:2:0 / 4:2:2		80.19
			HDR10	4:4:4 / RGB		100.24
			HDR12			120.29
		100 / 120	HDR10	4:2:0		100.24
			HDR12			120.29

* HDMI 1.4 - 2009 † HDMI 2.0 - 2013 ‡ HDMI 2.1 - 2019 HDMI 2.2 released Jan 2025, CTS pending.

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