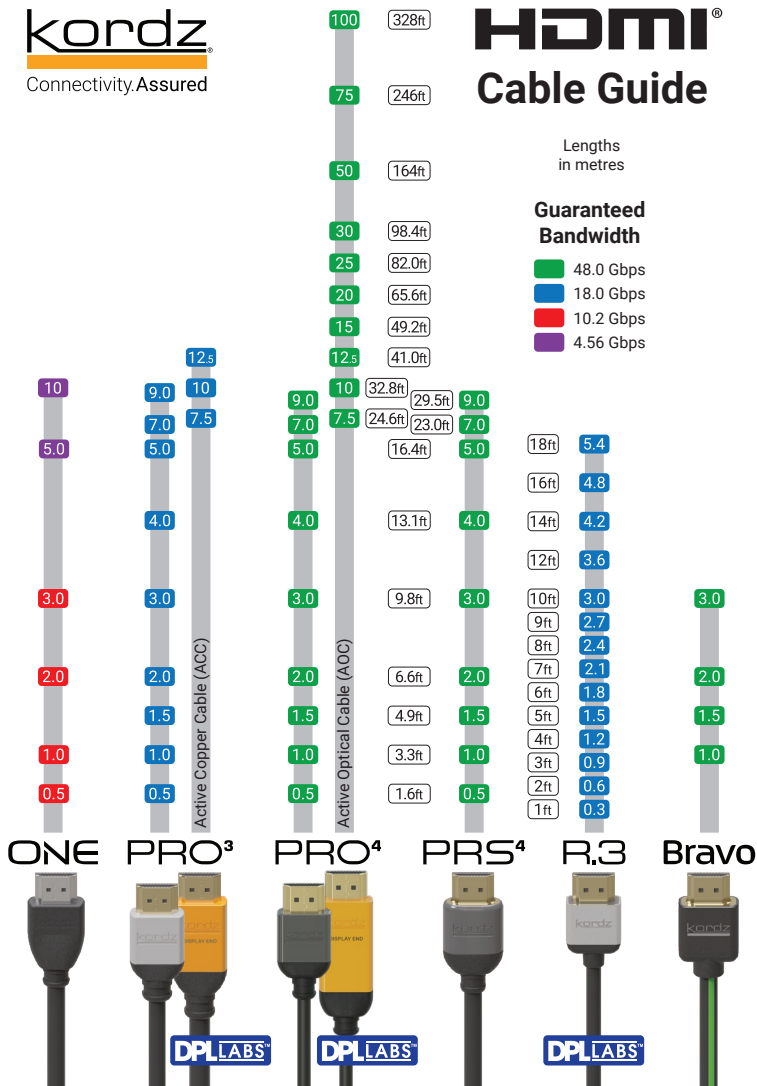


HDMI® Cable Guide

Lengths
in metres

Guaranteed Bandwidth

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



	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
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	Ultra + DSC	40.10
			8-bit	4:4:4 / RGB		40.10
			HDR10			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	Ultra High Speed	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
HDR10	4:4:4 / RGB				50.12	
HDR12				4:4:4 / RGB	60.10	
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.