



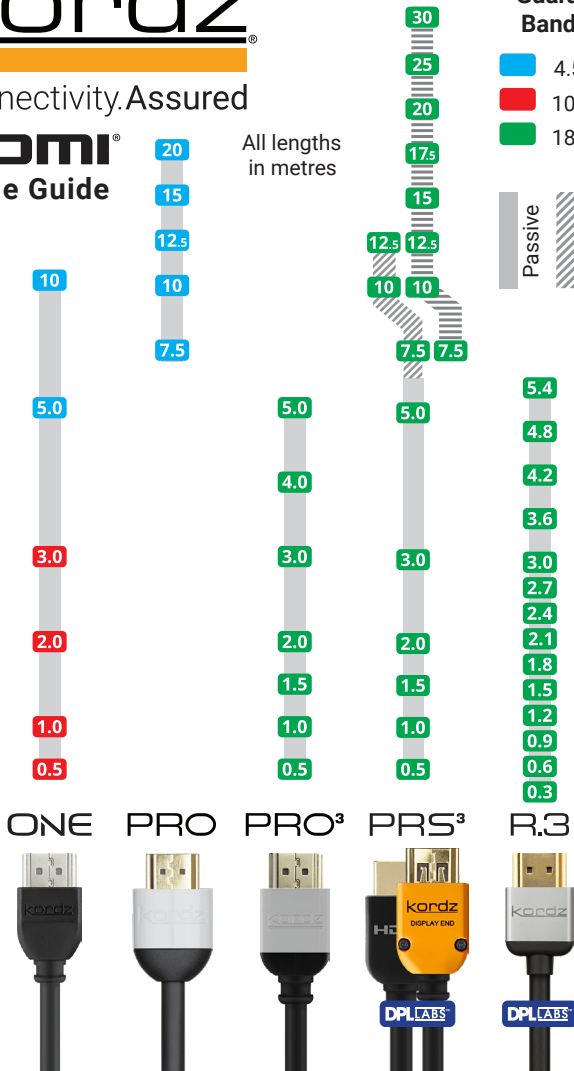
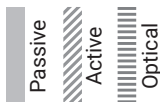
Connectivity.Assured

HDMI[®] Cable Guide

All lengths
in metres

Guaranteed Bandwidth

- 4.56 Gbps
- 10.2 Gbps
- 18.0 Gbps



ONE

PRO

PRO³

PRS³

R.3



	Resolution	Frame Rate	Color depth (bits)	Chroma Subsampling	TMDS Clock (MHz)	Data Rate (Gbps)	Bandwidth (Hz)
HDMI 1.4 - 2009	1080p	24	8/HDR10	4:4:4/RGB	74.25	2.22	371.25M
	1080p	24	8/HDR10/12	4:2:0/4:2:2	74.25	2.22	371.25M
	1080p	24	HDR12	4:4:4/RGB	148.5	4.455	742.5M
	1080p	24 3D	8/HDR10	4:4:4/RGB	148.5	4.455	742.5M
	1080p	24 3D	8/HDR10/12	4:2:0/4:2:2	148.5	4.455	742.5M
	1080p	60	8	4:4:4/RGB	148.5	4.455	742.5M
	1080p	60	8/HDR10/12	4:2:0/4:2:2	148.5	4.455	742.5M
HDMI 1.4 - 2009	1080p	24 3D	HDR12	4:4:4/RGB	185.63	5.56	928.15M
	1080p	60	HDR10	4:4:4/RGB	185.63	5.56	928.15M
	1080p	60	HDR12	4:4:4/RGB	222.75	6.68	1.114G
	1080p	120	8/HDR10/12	4:2:0/4:2:2	297	8.91	1.485G
	1080p	120	8	4:4:4/RGB	297	8.91	1.485G
	2160p	24	8/HDR10	4:4:4/RGB	297	8.91	1.485G
	2160p	24	8/HDR10/12	4:2:0/4:2:2	297	8.91	1.485G
HDMI 2.0 - 2013	2160p	60	8	4:2:0	297	8.91	1.485G
	1080p	120	HDR10	4:4:4/RGB	92.81	11.14	1.86G
	2160p	24	HDR12	4:4:4/RGB	92.81	11.14	1.86G
	2160p	60	HDR10	4:2:0	92.81	11.14	1.86G
	1080p	120	HDR12	4:4:4/RGB	111.38	13.365	2.28G
	2160p	60	HDR12	4:2:2	148.5	17.82	2.97G
HDMI 2.1 - 2019	2160p	60	8	4:4:4/RGB	148.5	17.82	2.97G
	8K / 4320p	24/30	8	4:2:0	Imbedded	17.82	6.0G
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, 8-12bit colour depths and frame rates up to 120FPS. New Category 3 HDMI cables will be required to support all 2.1 features. Refer to our 8K Cable Guide for the HDMI 2.1 bandwidth guide.							