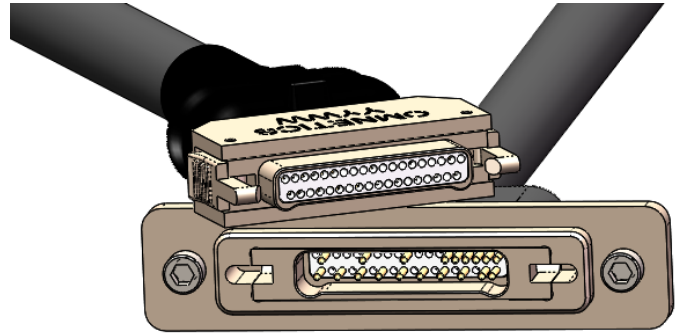


Omnetics Nano-D HDMI Connector

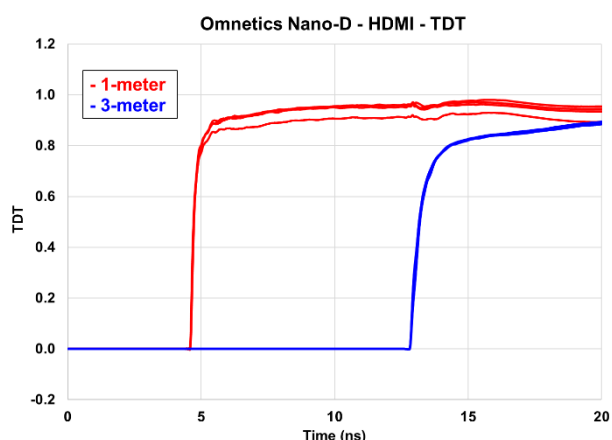
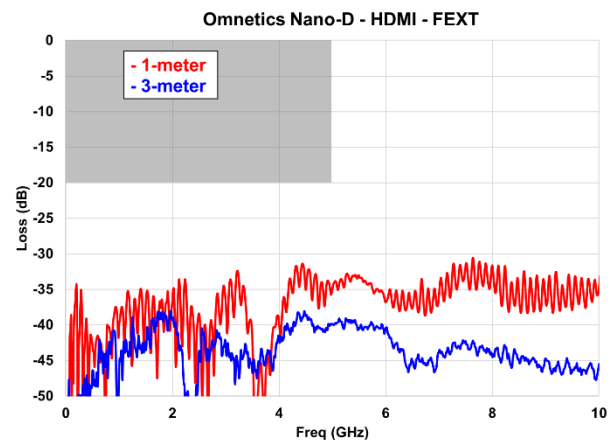
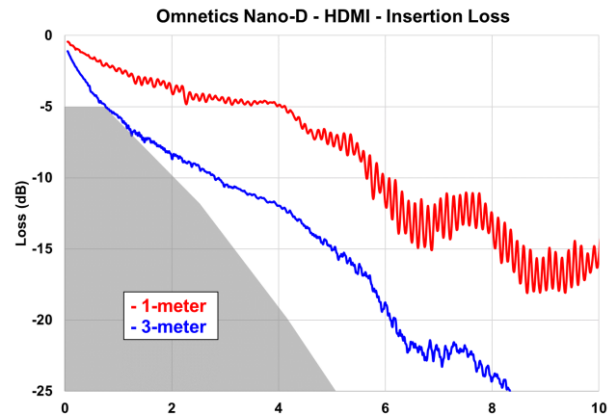
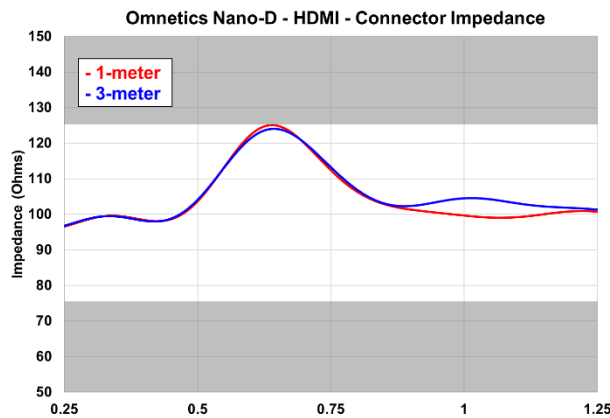
Omnetics Nano-D HDMI connectors are designed to meet HDMI 2.0 specifications while using standard Omnetics parts. Using both simulation and measurement, performance was maximized through a carefully designed signal pinout. This provides excellent crosstalk and impedance performance and yields maximum data transmission that meets the requirements, per the HDMI 2.0 specification.



Omnetics Nano-D HDMI Connector.

Electrical Specifications¹

	Parameter	Spec	1-METER	3-METER	
2.1	Connector Differential Impedance	Z _{MIN}	75 Ω	98 Ω	98 Ω
		Z _{MAX}	125 Ω	124 Ω	124 Ω
2.2	Cable Differential Impedance	Z _{MIN}	90 Ω	96 Ω	96 Ω
		Z _{MAX}	100 Ω	105 Ω	106 Ω
2.3	Differential Insertion Loss	0.825 GHz	5 dB	5 dB	2 dB
		2.475 GHz	12 dB	9 dB	5 dB
		4.125 GHz	20 dB	12 dB	5 dB
		5.100 GHz	25 dB	15 dB	8 dB
2.4	Differential Far-End Crosstalk	FEXT _{MAX}	< -20dB	-31 dB	-38 dB
2.5	Intra-Pair Skew	Skew _{MAX}	112ps	15 ps	47 ps



¹ Various cable options are available. Measurements shown above with cables manufactured in Asia.