

Samtec Cable Bandwidth Performance Selector

Single Ended - Flex Cable

Differential Pair - Flex Cable

Series	Pitch	Stack Height	7dB Insertion Loss Point	Series	Pitch	Stack Height	7dB Insertion Loss Point
ERDL2	.8mm	5" 10"	6.40 GHz 3.99 GHz	ERDL2	.8mm	5" 10"	7.18 GHz 4.56 GHz
FFDL2	1,27mm	5" 10"	900 MHz 930 MHz	FFDL2	1,27mm	5" 10"	5.28 GHz 3.78 GHz
HFEM	.8mm	5" 10"	>4.00 GHz 3.80 GHz	HFEM	.8mm	5" 10"	10.30 GHz 5.81 GHz
HFEM2	.8mm	5" 10"	4.70 GHz 3.66 GHz	HFEM2	.8mm	5" 10"	5.96 GHz 3.98 GHz
HFHM2	.5mm	5" 10"	5.05 GHz 3.01 GHz	HFHM	.5mm	5" 10"	8.03 GHz 5.53 GHz
HSF8	.8mm	5" 10"	7.01 GHz 5.04 GHz	HFHM2	.5mm	5" 10"	7.54 GHz 5.31 GHz
RFDL2	.5mm	5" 10"	13.68 GHz 11.77 GHz	HSF8	.8mm	5" 10"	6.98 GHz 5.91 GHz
TCDL2	2mm	5" 10"	960 MHz 470 MHz	TCDL2	1,27mm	5" 10"	5.37 GHz 3.54 GHz
ZHDL2	.5mm	5" 10"	3.99 GHz 2.37 GHz	ZFHF Z1 to Z1	.8mm	5" 10"	3.89 GHz 3.38 GHz
				ZFHF Z1 to Q1	.8mm	5" 10"	5.44 GHz 3.93 GHz
				ZHDL2	.5mm	5" 10"	9.00 GHz 4.14 GHz

The information contained in this chart does not represent the potential maximum performance of the interconnect system. If your application appears to exceed the cable assembly's rating from the chart, the cable assembly solution may still work. Please contact our Signal Integrity Group at sig@samtec.com for additional support.

The data reflects the point where an insertion loss of 7dB occurs within the cable assembly. The data is based from a test circuit with a characteristic impedance of 50 ohm single-ended and a wiring pattern of Q-S-Q (where Q = quiet line terminated to Zc; S - active single line) within the pin field of the connector. Resonances in the loss data which may be caused by impedance mismatches at the ends of the cable assemblies are not included in the loss calculations.

For more information on any of the products included in this chart, click on the series name in the Key to get complete testing information, visit our website at www.samtec.com, or contact our High Speed Cable Group at hdrgroup@samtec.com.

+ DOES NOT INCLUDE TEST BOARD EFFECTS