

## Samtec Cable Bandwidth Performance Selector

### Single-Ended - RF Cable

### Differential Pair - I/O Cable

Series	Pitch	Stack Height	7dB Insertion Loss Point	Series	Pitch	Stack Height	7dB Insertion Loss Point
GRF1-C	5mm	152mm	5.31 GHz	EPLSP		1000mm	3.90 GHz
		229mm	5.31 GHz			2000mm	2.70 GHz
		305mm	5.10 GHz			3000mm	1.96 GHz
		500mm	4.59 GHz			4000mm	1.08 GHz
		750mm	3.93 GHz			5000mm	820 MHz
IJ5C		100mm	9.50 GHz	HDLSP		1000mm	6.44 GHz
		300mm	8.50 GHz			2000mm	2.56 GHz
		1000mm	3.50 GHz	HPDPI		152mm	7.20 GHz
IJ5H	305mm	10.0 GHz	229mm			6.38 GHz	
			305mm			6.22 GHz	
			500mm			6.20 GHz	
			750mm			4.59 GHz	
			1000mm			5.59 GHz	
2540mm	1.64 GHz						
HPLSP						1000mm	5.84 GHz
						2000mm	3.11 GHz
						3000mm	1.65 GHz
						5000mm	690 MHz
HPSTP						1000mm	4.56 GHz
						2000mm	2.82 GHz
						3000mm	1.62 GHz
						5000mm	990 MHz
VPSTP						1000mm	1.82 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 connector's rating from the chart below, the connector solution may still work. Please contact our Signal Integrity Group at [sig@samtec.com](mailto: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 and a wiring pattern of G-S-G (where G = return; S = active differential pair) within the pin field of the connector. Please note that performance may not be linear to stack height.

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](http://www.samtec.com), or contact our Signal Integrity Group at [sig@samtec.com](mailto:sig@samtec.com). Click here for more information on our High Speed Characterization Report Test Procedures.

+ DOES NOT INCLUDE TEST BOARD EFFECTS