

Samtec Cable Bandwidth Performance Selector

Differential Pair High Speed Twin-Ax

Series	Pitch	Stack Height	7dB Insertion Loss Point	Series	Pitch	Stack Height	7dB Insertion Loss Point				
6QDP	.635mm	6"	9.24 GHz	PCIEC		95mm	5.18 GHz				
		9"	8.29 GHz			152mm	4.70 GHz				
		12"	6.16 GHz			229mm	4.78 GHz				
		19.68"	5.27 GHz			305mm	4.83 GHz				
		29.53"	5.32 GHz			500mm	4.64 GHz				
39.37"	5.19 GHz	750mm	4.54 GHz								
6QDPS	.635mm	6"	9.29 GHz			PCRF		1000mm	4.47 GHz		
		9"	6.24 GHz					305mm	3.69 GHz		
		12"	6.15 GHz					457mm	3.87 GHz		
		19.68"	6.06 GHz					500mm	3.53 GHz		
		29.53"	6.01 GHz					750mm	3.88 GHz		
39.37"	5.28 GHz	1000mm	3.59 GHz								
EEDP	.8mm	6"	11.40 GHz								
		9"	10.60 GHz								
		12"	9.68 GHz								
		19.68"	7.25 GHz								
		29.53"	4.75 GHz								
39.37"	3.42 GHz										
EQDP	.8mm	6"	10.05 GHz								
		9"	9.95 GHz								
		12"	9.96 GHz								
		19.68"	9.95 GHz								
		29.53"	5.90 GHz								
39.37"	4.92 GHz										
EQRF	.8mm	6"	4.62 GHz								
		9"	4.62 GHz								
		12"	4.53 GHz								
		19.68"	4.53 GHz								
		39.37"	4.47 GHz								
EQRP	.8mm	6"	5.82 GHz								
		9"	5.79 GHz								
		12"	5.40 GHz								
		19.68"	5.58 GHz								
		29.53"	5.01 GHz								
39.37"	5.10 GHz										
ERDP	.8mm	6"	7.56 GHz								
		9"	7.38 GHz								
		12"	6.00 GHz								
		19.68"	6.00 GHz								
		29.53"	6.00 GHz								
39.37"	5.13 GHz										
GCCA	1.27mm	6"	11.00 GHz								
		9"	10.20 GHz								
		12"	10.80 GHz								
		29.53"	6.58 GHz								
		39.37"	5.86 GHz								
HQDP	.5mm	6"	9.07 GHz								
		9"	9.20 GHz								
		12"	8.79 GHz								
		19.68"	9.20 GHz								
		29.53"	7.06 GHz								
39.37"	6.30 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 100 ohm differential pair and a wiring pattern of Q-S-Q (where Q = quiet line terminated to Zc; S - active differential pair) 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