

Samtec Cable Bandwidth Performance Selector Differential Pair

High Speed Twin-Ax

Series	Pitch	Cable Length	7dB Insertion Loss Point	Series	Pitch	Cable Length	7dB Insertion Loss Point
6QDP	.635mm	6"	9.24 GHz	ERDP	.8mm	6"	7.56 GHz
		9"	8.29 GHz			9"	7.38 GHz
		12"	6.16 GHz			12"	6.00 GHz
		19.68"	5.27 GHz			19.68"	6.00 GHz
		29.53"	5.32 GHz			29.53"	6.00 GHz
		39.37"	5.19 GHz			39.37"	5.13 GHz
6QDPS	.635mm	6"	9.29 GHz	GCCA	1.27mm	6"	11.00 GHz
		9"	6.24 GHz			9"	10.20 GHz
		12"	6.15 GHz			12"	10.80 GHz
		19.68"	6.06 GHz			29.53"	6.58 GHz
		29.53"	6.01 GHz			39.37"	5.86 GHz
		39.37"	5.28 GHz				
EEDP	.8mm	6"	11.40 GHz	HQDP	.5mm	6"	9.07 GHz
		9"	10.60 GHz			9"	9.20 GHz
		12"	9.68 GHz			12"	8.79 GHz
		19.68"	7.25 GHz			19.68"	9.20 GHz
		29.53"	4.75 GHz			29.53"	7.06 GHz
		39.37"	3.42 GHz			39.37"	6.30 GHz
EQDP	.8mm	6"	10.05 GHz	PCIEC		95mm	5.18 GHz
		9"	9.95 GHz		152mm	4.70 GHz	
		12"	9.96 GHz		229mm	4.78 GHz	
		19.68"	9.95 GHz		305mm	4.83 GHz	
		29.53"	5.90 GHz		500mm	4.64 GHz	
		39.37"	4.92 GHz		750mm	4.54 GHz	
EQRF	.8mm	6"	4.62 GHz	PCRF		305mm	3.69 GHz
		9"	4.62 GHz		457mm	3.87 GHz	
		12"	4.53 GHz		500mm	3.53 GHz	
		19.68"	4.53 GHz		750mm	3.88 GHz	
		39.37"	4.47 GHz		1000mm	3.59 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				

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.