

Table 3-1 Electrical Conductor Spacing

Voltage Between Conductors (DC or AC Peak)	Minimum Spacing [in]						
	Bare Board				Assembly		
	B1	B2	B3	B4	A5	A6	A7
0 – 15	0.1 mm [0.004]	0.64 mm [0.025]	0.64 mm [0.025]	0.13 mm [0.005]	0.13 mm [0.005]	0.13 mm [0.005]	0.13 mm [0.005]
16 – 30	0.1 mm [0.004]	0.64 mm [0.025]	0.64 mm [0.025]	0.13 mm [0.005]	0.13 mm [0.005]	0.25 mm [0.010]	0.13 mm [0.005]
31 – 50	0.1 mm [0.004]	0.64 mm [0.025]	0.64 mm [0.025]	0.13 mm [0.005]	0.13 mm [0.005]	0.38 mm [0.015]	0.13 mm [0.005]
51 – 100	0.1 mm [0.004]	0.64 mm [0.025]	1.50 mm [0.060]	0.13 mm [0.005]	0.13 mm [0.005]	0.5 mm [0.020]	0.13 mm [0.005]
101 – 150	0.2 mm [0.008]	0.64 mm [0.025]	3.18 mm [0.125]	0.38 mm [0.015]	0.038 mm [0.015]	0.75 mm [0.030]	0.38 mm [0.015]
151 – 170	0.2 mm [0.008]	1.27 mm [0.050]	3.18 mm [0.125]	0.38 mm [0.015]	0.38 mm [0.015]	0.75 mm [0.030]	0.38 mm [0.015]
171 – 250	0.2 mm [0.008]	1.27 mm [0.050]	6.4 mm [0.250]	0.38 mm [0.015]	0.38 mm [0.015]	0.75 mm [0.030]	0.38 mm [0.015]
251 – 300	0.2 mm [0.008]	1.27 mm [0.050]	12.7 mm [0.500]	0.38 mm [0.015]	0.38 mm [0.015]	0.75 mm [0.030]	0.38 mm [0.015]
301 – 500	0.25 mm [0.010]	2.54 mm [0.100]	12.7 mm [0.500]	0.75 mm [0.030]	0.75 mm [0.030]	1.50 mm [0.060]	0.75 mm [0.030]
Greater than 500	0.0025 mm [0.0001] /Volt	0.005 mm [0.0002] /Volt	0.0254 mm [0.001] /Volt	0.00305 mm [0.00012] /Volt	0.00305 mm [0.00012] /Volt	0.00305 mm [0.00012] /Volt	0.00305 mm [0.00012] /Volt

B1 – Internal Conductors

B2 – External Conductors, uncoated, sea level to 10,000 feet

B3 – External Conductors, uncoated, over 10,000 feet

B4 – External Conductors, with permanent polymer coating (any elevation)

A5 – External Conductors, with conformal coating over assembly (any elevation)

A6 – External Component lead/termination, uncoated

A7 – External Component lead/termination, with conformal coating (any elevation)