

## COPPER

Dimension, In.	Area		Weight Per Ft in Lb.	DC Resistance at 20° C, Microhms/Ft	30° C Rise		50° C Rise		65° C Rise	
					Skin Effect Ratio at 90° C	60 Hz Ampacity Amp*	Skin Effect Ratio at 90° C	60 Hz Ampacity Amp*	Skin Effect Ratio at 90° C	60 Hz Ampacity Amp*
	Sq. In	Circ Mills Thousands								
1/16 x 1/2	0.0312	39.7	0.121	264	1	103	1	136	1	157
1/16 x 3/4	0.0469	59.7	0.181	175	1	145	1	193	1	225
1/16 x 1	0.0625	79.6	0.241	132	1	187	1	250	1	285
1/16 x 1 1/2	0.0938	119	0.362	87.7	1	270	1	355	1	410
1/16 x 2	0.125	159	0.483	65.8	1.01	345	1.01	460	1.01	530
1/8 x 1/2	0.0625	79.6	0.241	132	1	153	1	205	1	235
1/8 x 3/4	0.0938	119	0.362	87.7	1	215	1	285	1	325
1/8 x 1	0.125	159	0.483	65.8	1.01	270	1.01	360	1.01	415
1/8 x 1 1/2	0.188	239	0.726	43.8	1.01	385	1.01	510	1.01	590
1/8 x 2	0.25	318	0.966	32.9	1.02	495	1.02	660	1.02	760
1/8 x 2 1/2	0.312	397	1.21	26.4	1.02	600	1.02	800	1.02	920
1/8 x 3	0.375	477	1.45	21.9	1.03	710	1.03	940	1.03	1100
1/8 x 3 1/2	0.438	558	1.69	18.8	1.04	810	1.03	1100	1.03	1250
1/8 x 4	0.5	636	1.93	16.5	1.04	900	1.04	1200	1.04	1400
3/16 x 1/2	0.0938	119	0.362	87.7	1	195	1	260	1	300
3/16 x 3/4	0.141	179	0.545	58.4	1.01	270	1.01	360	1.01	415
3/16 x 1	0.188	239	0.726	43.8	1.01	340	1.01	455	1.01	520
3/16 x 1 1/2	0.281	358	1.09	29.3	1.02	480	1.02	630	1.02	730
3/16 x 2	0.375	477	1.45	21.9	1.03	610	1.03	810	1.03	940
3/16 x 2 1/2	0.469	597	1.81	17.5	1.04	740	1.04	980	1.03	1150
3/16 x 3	0.562	715	2.17	14.6	1.05	870	1.05	1150	1.04	1350
3/16 x 3 1/2	0.656	835	2.53	12.5	1.07	990	1.06	1300	1.06	1500
3/16 x 4	0.75	955	2.9	11	1.09	1100	1.08	1450	1.07	1700
1/4 x 1/2	0.125	159	0.483	65.8	1.01	240	1.01	315	1.01	360
1/4 x 3/4	0.188	239	0.726	43.8	1.01	320	1.01	425	1.01	490
1/4 x 1	0.25	318	0.966	32.9	1.02	400	1.02	530	1.02	620
1/4 x 1 1/2	0.375	477	1.45	21.9	1.03	560	1.03	740	1.03	860
1/4 x 2	0.5	637	1.93	16.5	1.04	710	1.04	940	1.04	1100
1/4 x 2 1/2	0.625	796	2.41	13.2	1.06	850	1.06	1150	1.06	1300
1/4 x 3	0.75	955	2.9	11	1.08	990	1.08	1300	1.07	1550
1/4 x 3 1/2	0.875	1110	3.38	9.4	1.1	1150	1.09	1500	1.09	1750

## ALUMINUM (6101)

Weight Per Ft in Lb.	DC Resistance at 20° C, Microhms/Ft	30° C Rise		50° C Rise		65° C Rise	
		Skin Effect Ratio at 90° C	60 Hz Ampacity Amp*	Skin Effect Ratio at 90° C	60 Hz Ampacity Amp*	Skin Effect Ratio at 90° C	60 Hz Ampacity Amp*
0.037	494		58		76		88
0.055	327		81		108		126
0.073	247		105		140		160
0.110	164		151		199		230
0.146	123		193		258		297
0.073	247		86		115		132
0.110	164		120		160		182
0.146	123		151		202		232
0.220	82		216		286		330
0.293	62		277		370		426
0.365	49		336		448		515
0.439	41		398		526		616
0.512	35		454		616		700
0.585	31		504		672		784
0.110	164		109		146		168
0.165	109		151		202		232
0.220	82		190		255		291
0.329	55		269		353		409
0.439	41		342		454		526
0.549	33		414		549		644
0.658	27		487		644		756
0.768	23		554		728		840
0.878	21		616		812		952
0.146	123		134		176		202
0.220	82		179		238		274
0.293	62		224		297		347
0.439	41		314		414		482
0.585	31		398		526		616
0.731	25		476		644		728
0.878	21		554		728		868
1.024	18		644		840		980