

TABLE I METRIC CONVERSIONS		
To Convert From	To	Multiply By
Area		
Circular Mils	Square Inches	0.0000007854
Circular Mils	Square Mils	0.7854
Circular Mils	Square Millimeters	0.0005066
Square Centimeters	Square Inches	0.155
Square Feet	Square Meters	0.0929
Square Inches	Circular Mils	1,273,240
Square Inches	Square Centimeters	6.4516
Square Inches	Square Millimeters	645.16
Square Inches	Square Mils	1,000,000
Square Meters	Square Feet	10,764
Square Millimeters	Square Inches	0.00155
Square Millimeters	Square Mils	1973.51
Square Mils	Square Mils	1.2732
Square Mils	Square Inches	0.0000001
Length		
Centimeters	Inches	0.3937
Centimeters	Feet	0.03281
Feet	Centimeters	30.48
Feet	Meters	0.3048
Inches	Centimeters	2.54
Inches	Meters	0.0254
Inches	Millimeters	25.4
Inches	Mils	1,000
Kilometers	Miles	0.6214
Meters	Feet	3.2808
Meters	Inches	39.3701
Meters	Yards	1.0936
Miles	Kilometers	1.6093
Millimeters	Inches	0.03937
Millimeters	Mils	39.3701
Mils	Inches	0.001
Mils	Millimeters	0.0254
Yards	Meters	0.9144
Miscellaneous		
Kilograms	Pounds	2.205
Kilograms per Kilometers	Pounds per 1000 Feet	0.6719
Ohms per Kilometer	Ohms per 1000 Feet	0.3048
Ohms per 1000 Feet	Ohms per Kilometer	3.2808
Ohms per 1000 Yards	Ohms per Kilometer	1.0936
Picofarads per Foot	Picofarads per Meter	3.285
Pounds	Kilograms	0.4536
Pounds per 1000 Feet	Kilograms per Kilometer	1.488
Pounds per 1000 Yards	Kilograms per Kilometer	0.496
Pounds per 1000 Yards	Pounds per Kilometer	1.0936
Diam. Circle	Circumference Circle	3.1416
Diam. Circle	Side of Equal Square	0.8862
Diam. Sphere-Cubed	Volume of Sphere	0.5236
U.S. Gallons	Imperial Gallons (British)	83.27
U.S. Gallons	Cubic Feet	0.1337
U.S. Gallons	Pounds of Water (20°C)	8.33
Cubic Feet	Pounds of Water (4°C)	32.427
Feet of Water (4°C)	Pounds per Square Inch	0.4336
Inches of Mercury (0°C)	Pounds per Square Inch	0.4912
Knots	Miles per Hour	1.1516

TABLE II WIRE GAUGE CONVERSIONS (Based on Solid Conductors)					
Size	Circular Mils	Nominal Cross Section Area mm ²	Nominal Diameter Inches	Nominal Diameter mm	Lbs. per M'
AWG/kcmil					
36	25.00	0.0123	0.0050	0.127	0.0757
35	31.52	0.0161	0.00561	0.143	0.0954
34	39.75	0.0200	0.00630	0.160	0.1203
33	50.13	0.0252	0.00708	0.180	0.1517
32	63.21	0.0320	0.00795	0.202	0.1913
31	79.70	0.0400	0.00893	0.227	0.2413
30	100.5	0.0503	0.01003	0.255	0.3042
29	126.7	0.0646	0.01126	0.286	0.3836
28	159.8	0.0804	0.01264	0.321	0.4837
27	201.5	0.102	0.01420	0.361	0.6100
26	254.1	0.128	0.01594	0.405	0.7692
25	320.4	0.163	0.01790	0.455	0.9699
24	404.0	0.205	0.02010	0.511	1.2230
23	509.5	0.259	0.02257	0.573	1.5420
22	642.4	0.325	0.02535	0.644	1.9450
21	810.1	0.412	0.02846	0.723	2.4520
20	1,020	0.519	0.03196	0.812	3.1540
18	1,620	0.832	0.04030	1.024	5.0150
16	2,580	1.31	0.0508	1.29	7.9740
14	4,110	2.08	0.0641	1.63	12.68
12	6,530	3.31	0.0808	2.05	20.16
10	10,380	5.27	0.1019	2.59	32.06
9	13,090	6.62	0.1144	2.91	40.42
8	16,510	8.35	0.1285	3.26	51.0
6	26,240	13.3	0.1620	4.11	80.9
4	41,740	21.2	0.2043	5.19	129
3	52,620	26.7	0.2294	5.83	162
2	66,630	33.6	0.2576	6.54	205
1	83,690	42.4	0.2893	7.35	259
1/0	105,600	53.4	0.3249	8.25	326
2/0	133,100	67.5	0.3648	9.27	411
3/0	167,800	85.0	0.4096	10.40	518
4/0	211,600	107.2	0.4600	11.68	653
250,000	250,000	136.0	0.4999	12.70	772
300,000	300,000	161.0	0.5476	13.91	925
350,000	350,000	193.0	0.5917	15.03	1080
400,000	400,000	225.0	0.6322	16.06	1236
500,000	500,000	257.0	0.7070	17.96	1542
600,000	600,000	322.0	0.7744	19.67	1850
750,000	750,000	386.0	0.8661	22.00	2316
1,000,000	1,000,000	483.0	0.9999	25.40	3086

TABLE III TEMPERATURE CONVERSIONS					
Conversion Formula: °C x 1.8 plus 32 equals ...°F or °F - 32 ÷ 1.8 equals ...°C					
Celsius	Fahrenheit	Celsius	Fahrenheit	Celsius	Fahrenheit
-50	-58.0	30	86.00	150	302.0
-40	-40.0	35	95.00	160	320.0
-30	-22.0	40	104.00	170	338.0
-24	-13.0	45	113.00	180	356.0
-20	-4.0	50	122.00	190	374.0
-15	5.0	60	140.00	200	392.0
-10	14.0	70	158.00	210	410.0
-5	23.0	80	176.00	220	428.0
0	32.0	90	194.00	230	446.0
5	41.0	100	212.00	240	464.0
10	50.0	110	230.00	250	482.0
15	59.0	120	248.00	537.7	1,000.0
20	68.0	130	266.00		
25	77.0	140	284.00		