

# Metric Conversion Table

## Square Millimeters to Square Inches / Circular Mils



Sq. mm	Sq. in.	Cir. mils	Sq. mm	Sq. in.	Cir. mils	Sq. mm	Sq. in.	Cir. mils
1000	1.550	1,974,000						
975	1.511	1,924,700	95	0.1472	187,530	9.5	0.01472	18,753
950	1.472	1,875,300	90	0.1395	177,660	9.0	0.01395	17,766
925	1.434	1,826,000	85	0.1317	167,790	8.5	0.01317	16,779
900	1.395	1,776,600	80	0.1240	157,920	8.0	0.01240	15,792
875	1.356	1,727,300	75	0.1163	148,050	7.5	0.01163	14,805
850	1.317	1,677,900	70	0.1085	138,180	7.0	0.01085	13,818
825	1.240	1,579,200	60	0.0930	118,440	6.0	0.00930	11,844
775	1.201	1,529,900	55	0.0853	108,570	5.5	0.00853	10,857
750	1.163	1,480,500	50	0.0775	98,700	5.0	0.00775	9,870
725	1.124	1,431,200	45	0.0698	88,830	4.75	0.00736	9,377
700	1.085	1,381,800	40	0.0620	78,960	4.50	0.00698	8,883
675	1.046	1,332,500	35	0.0542	69,090	4.25	0.00659	8,390
650	1.008	1,283,100	30	0.0465	59,220	4.00	0.00620	7,896
625	0.969	1,233,800	25	0.0388	49,350	3.75	0.00581	7,403
600	0.930	1,184,400	20	0.0310	39,480	3.50	0.00542	6,909
575	0.891	1,135,100	19.5	0.0302	38,490	3.25	0.00504	6,416
550	0.891	1,085,700	19.0	0.0294	37,510	3.00	0.00465	5,922
525	0.814	1,036,400	18.5	0.0287	35,530	2.75	0.00426	4,935
500	0.775	987,000	18.0	0.0279	35,530	2.50	0.00388	4,935
475	0.736	937,700	17.5	0.0271	34,550	2.25	0.00349	4,442
450	0.698	888,300	17.0	0.0264	33,560	2.00	0.00310	3,948
425	0.659	839,000	16.5	0.0256	32,560	1.75	0.00271	3,455
400	0.620	789,600	16.0	0.0248	31,580	1.50	0.00233	2,961
375	0.581	740,300	15.5	0.0240	30,600	1.25	0.00194	2,468
350	0.542	690,900	15.0	0.0233	29,610	1.00	0.00155	1,974
325	0.504	641,600	14.5	0.0225	28,620	0.90	0.00140	1,777
300	0.465	592,200	14.0	0.0217	27,640	0.80	0.00124	1,579
275	0.426	542,900	13.5	0.0209	26,650	0.75	0.00116	1,481
250	0.388	493,500	13.0	0.0201	26,650	0.70	0.00109	1,481
225	0.349	444,200	12.5	0.0194	24,680	0.60	0.000930	1,184
200	0.310	394,800	12.0	0.0186	23,690	0.50	0.000775	987
175	0.291	345,500	11.5	0.0178	22,700	-	-	-
150	0.233	296,100	11.0	0.0171	21,700	-	-	-
125	0.1938	246,800	10.5	0.0163	20,730	-	-	-
100	0.1550	197,400	10.0	0.0155	19,740	-	-	-

\*Based on 1000 sq. mm = 1,974,000 circular mils.

Length	Area	Volume	Mass
Inch x 25.40 = Millimeters	Sq. Inch x 6.452 = Sq. Centimeter	Cu. Inch x 16.39 = Cu. Centimeter	Ounce x 28.35 = Gram
Millimeters x 0.03937 = Inches	Sq. Centimeter x 0.1550 = Sq. Inch	Cu. Centimeter x 0.06102 = Cu. Inch	Gram x 0.03527 = Ounce
Feet x 0.3048 = Meters	Sq. Foot x 0.0929 = Sq. Meter	Cu. Foot x 0.02832 = Cu. Meter	Pound x 0.4536 = Kilogram
Meters x 3.281 = Feet	Sq. Meter x 10.76 = Sq. Foot	Cu. Meter x 35.31 = Cu. Foot	Kilogram x 2.205 = Pound
Miles x 1.609 = Kilometers	Sq. Mile x 2.590 = Sq. Kilometer		Kilogram/km x 0.6214 = Pounds/kft
Kilometers x 0.6214 = Miles	Sq. Kilometer x 0.3861 = Sq. Mile		Pounds/kft x 1.4881 = Kilogram/km
Ohms/km x 0.3048 = Ohms/kft	Circular Mil x 0.7854 = Sq. Mil		

Circular Mil Area (CMA) =

(average strand size in Mils)<sup>2</sup> x 1,000,000 x total number of strands