

Conversion Factors

Length			
millimeter (mm)	= inch × 25.40	inch (in)	= millimeter × 0.0394
meter (m)	= foot × 0.3048	foot (ft)	= meter × 3.281
kilometer (km)	= mile × 1.609	mile (mi)	= kilometer × 0.6214
Ω/km	= Ω/mft × 0.3048	Ω/mft	= Ω/km × 3.281
Mass			
gram (g)	= ounce × 28.35	ounce (oz)	= gram × 0.0353
kilogram (kg)	= pound × 0.4536	pound (lb)	= kilogram × 2.205
kg/km	= lb/mft × 1.488	lb/mft	= kg/km × 0.6720
Area			
sq. centimeter (cm ²)	= sq. inch × 6.452	sq. inch (in ²)	= sq. centimeter × 0.1550
sq. meter (m ²)	= sq. foot × 0.0929	sq. foot (ft ²)	= sq. meter × 10.76
sq. kilometer (km ²)	= sq. mile × 2.590	sq. mile (mi ²)	= sq. kilometer × 0.3861
circular mil	= square mil × 1.273	square mil	= circular mil × 0.7854
mm ² = (strand mm) ² × (# strands) × 0.7854			
Volume			
cu. centimeter (cm ³)	= cu. inch × 16.39	cu. inch (in ³)	= cu. centimeter × 0.0610
cu. meter (m ³)	= cu. foot × 0.0283	cu. foot (ft ³)	= cu. meter × 35.31

American Wire Gauge (AWG) to mm²

AWG	mm ²	AWG	mm ²
30	0.05	2	35
28	0.08	1	50
26	0.14	1/0	50
24	0.25	2/0	70
22	0.34	3/0	95
20	0.50	4/0	120
19	0.75	250	150
18	1.0	300	150
16	1.5	350	185
14	2.5	400	185
12	4	450	240
10	6	500	240
8	10	600	300
6	16	750	400
4	25		

mm² to American Wire Gauge (AWG)

mm ²	AWG	mm ²	AWG
0.14	26	25	4
0.25	24	35	2, 1
0.34	22	50	1/0
0.50	20	70	2/0, 3/0
0.75	19	95	4/0
1.0	18	120	250
1.5	16	150	300
2.5	14	185	350, 400
4	12	240	450, 500
6	10	300	600
10	8	400	750, 800
16	6		