

CONVERSION FROM mm² TO AWG

This table allows you to convert from metric mm² to US AWG

<u>CROSS SECTION</u>	<i>FINE WIRE STRANDS</i>	<i>EXTRA FINE WIRE</i>
	(<u>No.x Diam, in mm</u>)	<u>STRANDS</u>
0.14 mm ²	26 awg	18 x 0.1
0.25 mm ²	24 awg	32 x 0.1
0.34 mm ²	22 awg	42 x 0.1
0.50 mm ²	20 awg	28 x 0.15
0.75 mm ²	18 awg	42 x 0.15
1.00 mm ²	17 awg	56 x 0.15
1.50 mm ²	16 awg	84 x 0.15
2.50 mm ²	14 awg	140 x 0.15
4.00 mm ²	12 awg	224 x 0.15
6.00 mm ²	10 awg	192 x 0.20
10.00 mm ²	8 awg	320 x 0.20
16.00 mm ²	6 awg	512 x 0.20
25.00 mm ²	4 awg	800 x 0.20
35.00 mm ²	2 awg	1120 x 0.20
50.00 mm ²	1 awg	705 x 0.30
70.00 mm ²	2/0 awg	900 x 0.30

Conductor Size, AWG/kcmil	Ampacity,A
30	0.5
28	0.8
26	1
24	2
22	3
20	5
18	7
16	10
14	15
12	20
10	30
8	50
6	65
4	85
3	100
2	115
1	130
1/0	150
2/0	175
3/0	200
4/0	230
250	255
300	285
350	310
400	335
500	380
600	420
700	460
750	475
800	490
900	520
1000	545

Size of conductor, AWG	Diameter of solid conductor				Cross-sectional area of stranded conductor			
	Nominal,		Minimum,		Nominal,		Minimum,	
	Mils	(mm)	Mils	(mm)	Cmils	(mm ²)	Cmils	(mm ²)
50	0.99	0.0251	0.98	0.025	0.980	0.000497	0.960	0.000486
49	1.11	0.0282	1.10	0.028	1.23	0.000624	1.21	0.000613
48	1.24	0.0315	1.23	0.031	1.54	0.000768	1.51	0.000765
47	1.40	0.0356	1.39	0.035	1.96	0.000993	1.92	0.000973
46	1.57	0.0399	1.55	0.029	2.46	0.00125	2.41	0.00122
45	1.76	0.0447	1.74	0.044	3.10	0.00157	3.04	0.00154
44	2.0	0.051	1.98	0.050	4.00	0.00203	3.92	0.00198
43	2.2	0.056	2.18	0.055	4.84	0.00245	4.74	0.00240
42	2.5	0.064	2.48	0.063	6.25	0.00317	6.13	0.003115
41	2.8	0.071	2.77	0.070	7.84	0.00397	7.68	0.00389
40	3.1	0.079	3.07	0.078	9.61	0.00487	9.42	0.00477
39	3.5	0.089	3.47	0.088	12.2	0.00621	11.9	0.00603
38	4.0	0.102	3.96	0.101	16.0	0.00811	15.7	0.00796
37	4.5	0.114	4.46	0.113	20.2	0.0103	19.8	0.0100
36	5.0	0.127	4.95	0.126	25.0	0.0127	24.5	0.0124
35	5.6	0.142	5.54	0.141	31.4	0.0159	30.8	0.0156
34	6.3	0.160	6.24	0.158	39.7	0.020	38.9	0.0197
33	7.1	0.180	7.03	0.179	50.4	0.0255	49.4	0.0250
32	8.0	0.203	7.92	0.201	64.0	0.0324	62.7	0.0318
31	8.9	0.226	8.81	0.244	79.2	0.0401	77.6	0.0393
30	10.0	0.254	9.9	0.251	100	0.0507	98	0.0497
29	11.3	0.287	11.2	0.284	128	0.0647	125	0.0633
28	12.6	0.320	12.5	0.318	159	0.0804	156	0.0790
27	14.2	0.361	14.1	0.358	202	0.102	198	0.100
26	15.9	0.404	15.7	0.399	253	0.128	248	0.126
25	17.9	0.455	17.7	0.450	320	0.162	314	0.159
24	20.1	0.511	19.9	0.506	404	0.205	396	0.201
23	22.6	0.574	22.4	0.568	511	0.259	501	0.254
22	25.3	0.643	25.0	0.637	640	0.324	627	0.318
21	28.5	0.724	28.2	0.717	812	0.412	796	0.404
20	32.0	0.813	31.7	0.805	1020	0.519	1000	0.509
19	35.9	0.912	35.6	0.904	1290	0.653	1264	0.641
18	40.3	1.02	40.0	1.016	1620	0.823	1588	0.807
17	45.3	1.15	44.9	1.140	2050	1.04	2009	1.02
16	50.8	1.29	50.3	1.278	2580	1.31	2528	1.28
15	57.1	1.45	56.5	1.435	3260	1.65	3195	1.62
14	64.1	1.63	63.5	1.613	4110	2.08	4028	2.04
13	72.0	1.83	71	1.81	5180	2.63	5076	2.58
12	80.8	2.05	80	2.03	6530	3.31	6399	3.24
11	90.7	2.30	90	2.28	8230	4.17	8065	4.09
10	101.9	2.588	101	2.56	10380	5.261	10172	5.16
9	114.4	2.906	113	2.88	13090	6.631	12828	6.50
8	128.5	3.264	127	3.23	16510	8.367	16180	8.20
7	144.3	3.665	143	3.63	20820	10.55	20404	10.34
6	162.0	4.115	160	4.07	26240	13.30	25715	13.03