

Conductors

Table 4: Metric / Imperial / AWG Equivalents

(Square Millimeters / Square Inches / Circular Mils / AWG)

Sq. mm	Sq. in.	Cir. mils	AWG	Sq. mm	Sq. in.	Cir. mils	AWG	Sq. mm	Sq. in.	Cir. mils	AWG
1000	1.550	1974000		55	.0853	108570		5.00	.00775	9870	
975	1.511	1924700		—	—	105600	1/0	4.75	.00736	9377	
950	1.472	1875300		50	.0775	98700		4.50	.00698	8883	
925	1.434	1826000		45	.0698	88830		4.25	.00659	8390	
900	1.395	1776600		—	—	83690	1	—	—	8230	11
875	1.356	1727300		40	.0620	78960		4.00	.00620	7896	
850	1.317	1677900		35	.0542	69090		3.75	.00581	7403	
825	1.279	1628600		—	—	66360	2	3.50	.00542	6909	
800	1.240	1579200		30	.0465	59220		—	—	6530	12
775	1.201	1529900		—	—	52620	3	3.25	.00504	6416	
750	1.163	1480500		25	.0388	49350		3.00	.00465	5922	
725	1.124	1431200		—	—	41740	4	2.75	.00426	5429	
700	1.085	1381800		20.0	.0310	39480		—	—	5180	13
675	1.046	1332500		19.5	.0302	38490		2.50	.00388	4935	
650	1.008	1283100		19.0	.0294	37510		2.25	.00349	4422	
625	.969	1233800		18.5	.0287	36520		—	—	4110	14
600	.930	1184400		18.0	.0279	35530		2.00	.00310	3948	
575	.891	1135100		17.5	.0271	34550		1.75	.00271	3455	
550	.853	1085700		17.0	.0264	33560		—	—	3260	15
525	.814	1036400		—	—	33090	5	1.50	.00233	2961	
500	.775	987000		16.5	.0256	32560		—	—	2580	16
475	.736	937700		16.0	.0248	31580		1.25	.00194	2468	
450	.698	888300		15.5	.0240	30600		—	—	2050	17
425	.659	839000		15.0	.0233	29610		1.00	.00155	1974	
400	.620	789600		14.5	.0225	28620		.90	.00140	1777	
375	.581	740300		14.0	.0217	27640		—	—	1620	18
350	.542	690900		13.5	.0209	26650		.80	.00124	1579	
325	.504	641600		—	—	26420	6	.75	.00116	1481	
300	.465	592200		13.0	.0201	25660		.70	.00109	1382	
275	.426	542900		12.5	.0194	24680		—	—	1290	19
250	.388	493500		12.0	.0186	23690		.60	.00093	1184	
225	.349	444200		11.5	.0178	22700		—	—	1029	20
200	.310	394800		11.0	.0171	21710		.50	.000775	987	
175	.271	345500		—	—	20820	7	—	—	—	
150	.233	296100		10.5	.0163	20730		9.5	.01472	18753	
125	.1938	246800		10.0	.0155	19740		9.0	.01395	17766	
—	—	211600	4/0	8.5	.01317	16779		8.5	.01317	16779	
100	.1550	197400		—	—	16510	8	—	—	16510	8
95	.1472	187530		8.0	.01240	15792		8.0	.01240	15792	
90	.1395	177660		7.5	.01163	14805		7.5	.01163	14805	
—	—	167800	3/0	7.0	.01085	13818		7.0	.01085	13818	
85	.1317	167790		—	—	13090	9	—	—	13090	9
80	.1240	157920		6.5	.01008	12831		6.5	.01008	12831	
75	.1163	148050		6.0	.00930	11844		6.0	.00930	11844	
70	.1085	138180		5.5	.00853	10857		5.5	.00853	10857	
—	—	133100	2/0	—	—	10380	10	—	—	10380	10
65	.1008	128310		—	—	—		—	—	—	
60	.0930	118440		—	—	—		—	—	—	

To Convert:	Multiply by:
Inches to millimeters	25.4
Millimeters to inches	.03937