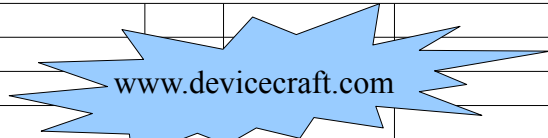


Wire Gauge, Diameter Resistance Table



Wire Gauge AWG	Diameter inches	Area /Cross Mils ²	Ohms/1000 feet Copper	Ohms/Foot Copper	Diameter mm	Ohms/Meter Copper
2	0.25762	52097.87	0.16	0.00016	6.5435	0.00051
3	0.22941	41315.52	0.2	0.00020	5.8271	0.00065
4	0.20430	32764.71	0.25	0.00025	5.1892	0.00082
5	0.18193	25983.62	0.31	0.00031	4.6211	0.00103
6	0.16202	20605.96	0.4	0.00040	4.1152	0.00130
7	0.14428	16341.28	0.5	0.00050	3.6647	0.00164
8	0.12849	12959.23	0.63	0.00063	3.2635	0.00206
9	0.11442	10277.14	0.79	0.00079	2.9063	0.00260
10	0.10189	8150.15	1	0.00100	2.5881	0.00328
11	0.09074	6463.37	1.26	0.00126	2.3048	0.00414
12	0.08081	5125.69	1.59	0.00159	2.0525	0.00521
13	0.07196	4064.86	2	0.00200	1.8278	0.00657
14	0.06408	3223.58	2.53	0.00253	1.6277	0.00829
15	0.05707	2556.42	3.19	0.00319	1.4495	0.01045
16	0.05082	2027.33	4.02	0.00402	1.2908	0.01318
17	0.04526	1607.75	5.07	0.00507	1.1495	0.01662
18	0.04030	1275	6.39	0.00639	1.0237	0.02096
19	0.03589	1011.12	8.06	0.00806	0.9116	0.02643
20	0.03196	801.86	10.16	0.01016	0.8118	0.03333
21	0.02846	635.9	12.81	0.01281	0.7229	0.04203
22	0.02535	504.29	16.15	0.01615	0.6438	0.05300
23	0.02257	399.92	20.37	0.02037	0.5733	0.06683
24	0.02010	317.15	25.69	0.02569	0.5105	0.08427
25	0.01790	251.51	32.39	0.03239	0.4547	0.10626
26	0.01594	199.46	40.84	0.04084	0.4049	0.13399
27	0.01420	158.18	51.5	0.05150	0.3606	0.16896
28	0.01264	125.44	64.94	0.06494	0.3211	0.21306
29	0.01126	99.48	81.89	0.08189	0.2859	0.26866
30	0.01002	78.89	103.26	0.10326	0.2546	0.33877
31	0.00893	62.56	130.21	0.13021	0.2268	0.42718
32	0.00795	49.62	164.19	0.16419	0.2019	0.53867
33	0.00708	39.35	207.03	0.20703	0.1798	0.67925
34	0.00630	31.2	261.07	0.26107	0.1601	0.85652
35	0.00561	24.75	329.2	0.32920	0.1426	1.08005
36	0.00500	19.62	415.11	0.41511	0.1270	1.36191
37	0.00445	15.56	523.44	0.52344	0.1131	1.71734
38	0.00397	12.34	660.05	0.66005	0.1007	2.16552
39	0.00353	9.79	832.31	0.83231	0.0897	2.73067
40	0.00314	7.76	1049.52	1.04952	0.0799	3.44331
41	0.00280	6.16	1323.42	1.32342	0.0711	4.34193
42	0.00249	4.88	1668.8	1.66880	0.0633	5.47507

43	0.00222	3.87	2104.32	2.10432		0.0564	6.90393
44	0.00198	3.07	2653.49	2.65349		0.0502	8.70569
45	0.00176	2.43	3345.99	3.34599		0.0447	10.97766
46	0.00157	1.93	4219.21	4.21921		0.0398	13.84257
47	0.00140	1.53	5320.33	5.32033		0.0355	17.45514
48	0.00124	1.21	6708.8	6.70880		0.0316	22.01051
49	0.00111	0.96	8459.64	8.45964		0.0281	27.75473
50	0.00099	0.76	10667.4	10.66740		0.0251	34.99804
51	0.00088	0.61	13451.34	13.45134		0.0223	44.13169
52	0.00078	0.48	16961.81	16.96181		0.0199	55.64900
53	0.00070	0.38	21388.44	21.38844		0.0177	70.17204
54	0.00062	0.3	26970.31	26.97031		0.0158	88.48526
55	0.00055	0.24	34008.91	34.00891		0.0140	111.57778
56	0.00049	0.19	42884.41	42.88441		0.0125	140.69689
57	0.00044	0.15	54076.21	54.07621		0.0111	177.41539
58	0.00039	0.12	68188.8	68.18880		0.0099	223.71653
59	0.00035	9.47E-002	85984.43	85.98443		0.0088	282.10116
60	0.00031	7.51E-002	108424.3	108.42430		0.0079	355.72277

Note: Diameter of next gauge is a multiple of mult=.890526