AWG Wire Gauge Chart

AWG 0000–40 · solid copper at 20 °C

d = 0.005 in × 92^((36 - AWG)/39). Resistance from IACS copper, 1.7241 µohm·cm at 20 °C. No ampacity: use NFPA 70 (NEC) or your local code.

AWG	Diameter (in)	Diameter (mm)	Area (kcmil)	Area (mm²)	ohm per 1000 ft	ohm per km
0000 (4/0)	0.4600	11.684	211.6	107.2	0.04901	0.1608
000 (3/0)	0.4096	10.405	167.8	85.03	0.06180	0.2028
00 (2/0)	0.3648	9.266	133.1	67.43	0.07793	0.2557
0 (1/0)	0.3249	8.251	105.5	53.48	0.09827	0.3224
1	0.2893	7.348	83.69	42.41	0.1239	0.4066
2	0.2576	6.544	66.37	33.63	0.1563	0.5127
3	0.2294	5.827	52.63	26.67	0.1970	0.6464
4	0.2043	5.189	41.74	21.15	0.2485	0.8152
5	0.1819	4.621	33.10	16.77	0.3133	1.028
6	0.1620	4.115	26.25	13.30	0.3951	1.296
7	0.1443	3.665	20.82	10.55	0.4982	1.634
8	0.1285	3.264	16.51	8.366	0.6282	2.061
9	0.1144	2.906	13.09	6.634	0.7921	2.599
10	0.1019	2.588	10.38	5.261	0.9988	3.277
11	0.0907	2.305	8.234	4.172	1.260	4.132
12	0.0808	2.053	6.530	3.309	1.588	5.211
13	0.0720	1.828	5.178	2.624	2.003	6.571
14	0.0641	1.628	4.107	2.081	2.525	8.285
15	0.0571	1.450	3.257	1.650	3.184	10.45
16	0.0508	1.291	2.583	1.309	4.015	13.17
17	0.0453	1.150	2.048	1.038	5.063	16.61
18	0.0403	1.024	1.624	0.8230	6.385	20.95
19	0.0359	0.912	1.288	0.6527	8.051	26.41
20	0.0320	0.812	1.022	0.5176	10.15	33.31
21	0.0285	0.723	0.8101	0.4105	12.80	42.00
22	0.0253	0.644	0.6424	0.3255	16.14	52.96
23	0.0226	0.573	0.5095	0.2582	20.36	66.78
24	0.0201	0.511	0.4040	0.2047	25.67	84.21
25	0.0179	0.455	0.3204	0.1624	32.37	106.2
26	0.0159	0.405	0.2541	0.1288	40.81	133.9
27	0.0142	0.361	0.2015	0.1021	51.47	168.9
28	0.0126	0.321	0.1598	0.08098	64.90	212.9
29	0.0113	0.286	0.1267	0.06422	81.83	268.5
30	0.0100	0.255	0.1005	0.05093	103.2	338.5
31	0.0089	0.227	0.07970	0.04039	130.1	426.9
32	0.0080	0.202	0.06321	0.03203	164.1	538.3
33	0.0071	0.180	0.05013	0.02540	206.9	678.8
34	0.0063	0.160	0.03975	0.02014	260.9	856.0
35	0.0056	0.143	0.03152	0.01597	329.0	1079
36	0.0050	0.127	0.02500	0.01267	414.8	1361
37	0.0045	0.113	0.01983	0.01005	523.1	1716
38	0.0040	0.101	0.01572	0.007967	659.6	2164
39	0.0035	0.090	0.01247	0.006318	831.8	2729
40	0.0031	0.080	0.009888	0.005010	1049	3441