

Solid Conductors- AWG

AWG	Diameter		Cross-Sectional Area		DCR @ 20°C-OHMS/mft		Weight	Break Strength
	Inches	mm ²	CMA*	mm ²	Bare Cu.	Tinned Cu	lbs./ mft	Lbs./ Max
40	.0031	0.078740	9.61	0.0049	1552	1236.6	0.0291	0.3106
39	.0035	0.088900	12.3	0.0062	897.1	963.0	0.0371	0.3917
38	.0040	0.101600	16.0	0.0081	681.9	732.0	0.0484	0.4939
37	.0045	0.114300	20.3	0.0103	535.7	575.1	0.0613	0.6228
36	.0050	0.127000	25.0	0.0127	431.9	463.6	0.0757	0.7854
35	.0056	0.142240	31.4	0.0159	342.8	368.0	0.0949	0.9904
34	.0063	0.160020	39.7	0.0201	269.8	289.6	0.120	1.249
33	.0071	0.180340	50.4	0.0255	211.7	227.3	0.153	1.575
32	.0080	0.203200	64.0	0.0324	166.2	178.4	0.194	1.986
31	.0089	0.226060	79.2	0.0401	133.9	143.7	0.240	2.504
30	.0100	0.254000	100	0.0506	105.8	113.6	0.3042	3.157
29	.0113	0.287020	128	0.0647	82.9	88.0	0.387	3.981
28	.0126	0.320040	159	0.0804	66.7	70.8	0.481	5.020
27	.0142	0.360680	202	0.1021	52.5	55.8	0.610	6.331
26	.0159	0.403860	253	0.1280	41.9	44.5	0.765	7.983
25	.0179	0.454660	320	0.1623	33.0	35.0	0.970	10.07
24	.0201	0.510540	404	0.2046	26.2	27.2	1.22	12.69
23	.0226	0.574040	511	0.2587	20.7	21.5	1.55	15.41
22	.0253	0.642620	640	0.3242	16.5	17.2	1.94	19.43
21	.0285	0.723900	812	0.4114	13.0	13.5	2.46	24.50
20	.0320	0.812800	1020	0.5186	10.3	10.7	3.10	30.89
19	.0359	0.911860	1290	0.6527	8.21	8.54	3.90	38.95
18	.0403	1.023620	1620	0.8225	6.52	6.78	4.92	49.12
17	.0453	1.150620	2050	1.0393	5.16	5.37	6.21	61.93
16	.0508	1.290320	2580	1.3070	4.10	4.26	7.81	78.10
15	.0571	1.450340	3260	1.6512	3.25	3.38	9.87	98.48
14	.0641	1.628140	4110	2.0809	2.58	2.68	12.4	124.2
13	.0720	1.828800	5180	2.6254	2.04	2.12	15.7	156.6
12	.0808	2.052320	6530	3.3064	1.62	1.68	19.8	197.5
11	.0907	2.303780	8230	4.1663	1.29	1.34	24.9	249.0
10	.1019	2.588260	10380	5.2588	1.02	1.06	31.4	314.0
9	.1144	2.905760	13090	6.6281	.809	.833	39.6	380.5
8	.1285	3.263900	16510	8.3626	.641	.660	50.0	479.8
7	.1443	3.665220	20820	10.5456	.508	.523	63.0	605.0
6	.1620	4.114800	26240	13.2913	.403	.415	79.4	762.9
5	.1819	4.620260	33090	16.7572	.320	.329	100	961.9
4	.2043	5.189220	41740	21.1385	.254	.261	126	1213
3	.2294	5.826760	52620	26.6516	.201	.206	159	1530
2	.2593	6.586220	66360	34.0520	.157	.161	201	1929
1	.2893	7.348220	83690	42.3871	.126	.129	253	2432
1/0	.3249	8.252460	105600	53.4609	.100	.102	319	2984
2/0	.3648	9.265920	133100	67.3980	.0795	.0814	403	3763
3/0	.4096	10.43084	167800	84.9683	.0631	.0616	508	4745
4/0	.4600	11.68400	211600	107.1649	.0500	.0512	641	5983

* CMA-Circular Mil Area