



Charlotte™
Wire & Cable Company Inc.

“Taking Care of Business”

toll free: 800-929-9473

SOLID COPPER WIRE, AMERICAN WIRE GAGE

Gage (AWG)	Diameter of Wire		Circular Mil Area (circular mils)	Wire Weight (Lbs/1000ft)	Approximate Feet Per pound	Resistance At 20C/68F (Ohms/1000ft)
	(in.)	(mm)				
4	.2043	5.189	41738	126.3	8	.2485
5	.1819	4.620	33088	100.2	10	.3134
6	.1620	4.115	26244	79.44	13	.3952
7	.1443	3.665	20822	63.03	16	.4981
8	.1285	3.264	16512	49.98	20	.6281
9	.1144	2.906	13087	39.62	25	.7924
10	.1019	2.588	10384	31.43	32	.9988
11	.09074	2.305	8234	24.92	40	1.260
12	.08081	2.053	6530	19.77	51	1.588
13	.07196	1.828	5178	15.67	64	2.003
14	.06408	1.628	4106	12.43	80	2.526
15	.05707	1.450	3257	9.86	101	3.184
16	.05082	1.291	2583	7.82	128	4.016
17	.04526	1.150	2048	6.20	161	5.063
18	.04030	1.024	1624	4.92	203	6.386
19	.03589	.912	1288	3.899	256	8.051
20	.03196	.812	1021	3.092	323	10.15
21	.02845	.723	809.4	2.450	408	12.81
22	.02535	.644	642.6	1.945	514	16.14
23	.02257	.573	509.4	1.542	649	20.36
24	.02010	.511	404.0	1.223	818	25.67
25	.01790	.455	320.4	.9699	1031	32.37
26	.01594	.405	254.1	.7691	1300	40.82
27	.01420	.361	201.5	.6100	1639	51.46
28	.01264	.321	159.8	.4836	2068	64.91
29	.01126	.286	126.8	.3838	2606	81.80
30	.01025	.260	105.1	.3180	3144	98.71
31	.00893	.227	79.74	.2414	4143	130.1
32	.00795	.202	63.20	.1913	5227	164.1
33	.00708	.180	50.13	.1517	6591	206.9
34	.00631	.160	39.82	.1205	8297	260.5
35	.00562	.143	31.58	.0956	10460	328.4
36	.00500	.127	25.00	.0757	13214	414.8
37	.00445	.113	19.80	.0599	16683	523.7
38	.00397	.101	15.76	.0477	20961	658.0
39	.00353	.090	12.46	.0377	26512	832.3
40	.00315	.080	9.923	.0300	33294	1045
42	.00249	.063	6.220	.0188	53112	1667
44	.00198	.050	3.912	.0118	84437	2651
46	.00157	.040	2.459	.0074	134368	4218

Specification: ASTM B-3 (Soft Drawn Bare Copper)