

DIMENSIONS, WEIGHT AND RESISTANCE OF COPPER WIRE

Gauge No. A.W.G.	Dia. In	Area Circular Mils. (d ²) 1 Mil = .001 in.	Lb. per 1000 Feet Bare Wire	Length Feet per lb.	Resistance at 77° F. Ohms per 1000 ft.	
Stranded	1.151	1000000.	3090.	.3235	.0108	
	1.029	800000.	2470.	.4024	.0135	
	.963	700000.	2160.	.4628	.0154	
	.891	600000.	1850.	.5400	.0180	
	.814	500000.	1540.	.6488	.0216	
	.726	400000.	1240.	.8060	.0270	
	.574	250000.	772.	1.30	.0431	
Solid	0000	.4600	211600.	640.5	1.55	.0500
	000	.4096	167800.	507.9	1.97	.0630
	00	.3648	133100.	402.8	2.48	.0795
	0	.3248	105500.	319.5	3.13	.1002
	1	.2893	83690.	253.3	3.95	.1264
	2	.2578	66370.	200.9	4.98	.1593
	3	.2294	52640.	159.3	6.28	.2009
	4	.2043	41740.	126.4	7.91	.2533
	6	.1620	26250.	79.46	12.58	.4028
	8	.1284	16510.	49.98	20.01	.6405
	10	.1018	10380.	31.43	31.82	1.018
	12	.0808	6530.	19.77	50.59	1.619
	14	.0640	4107.	12.43	80.44	2.575
	16	.0508	2583.	7.82	127.90	4.094
	18	.0403	1624.	4.92	203.40	6.510
	20	.0319	1022.	3.09	323.4	10.35
	22	.0254	642.	1.95	514.2	16.46
	24	.0201	404.	1.22	817.7	26.17
	26	.0159	254.	.77	1300.	41.62
	28	.0126	159.8	.48	2067.	66.17
	30	.0100	100.5	.30	3287.	105.2
	32	.0080	63.2	.19	5227.	167.3
	34	.0063	39.7	.12	8310.	266.0
	36	.0050	25.0	.076	13210.	423.0
	38	.0040	15.7	.047	21010.	672.6
40	.0031	9.89	.030	33410.	1069.0	
42	.0025	6.22	.019	52800.	1701.	
44	.0020	3.91	.012	82500.	2703.	
46	.0016	2.46	.008	128800.	4299.	
48	.0012	1.55	.004	229600.	6836.	
50	.0010	0.97	.003	330000.	10870.	