

# HSM Wire International, Inc.

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## Bare Copper Wire Table Weight and Resistance

To be used as a guideline only

AWG	Diameter (inches)	Diameter (mm)	Weight		Resistance @20°C	
			Pounds/1000ft	Feet/lb	Ohms/1000ft	Ohms/lb
4/0	.4600	11.684	640.5	1.561	.04901	.00007652
3/0	.4100	10.404	507.9	1.968	.06180	.00012170
2/0	.3650	9.266	402.8	2.482	.07793	.00019350
1/0	.3250	8.253	319.5	3.13	.09827	.00030760
1	.2890	7.348	253.3	3.947	.12390	.00048910
2	.2580	6.543	200.9	4.977	.15630	.0007780
3	.2290	5.827	189.3	6.276	.19700	.0012370
4	.2040	5.189	126.4	7.914	.24850	.0019660
5	.1820	4.620	100.2	9.98	.31330	.0031270
6	.1620	4.115	79.46	12.58	.39510	.0049720
7	.1440	3.665	63.02	15.87	.49820	.0079050
8	.1280	3.264	49.98	20.01	.62820	.0125700
9	.1140	2.906	36.63	25.23	.79210	.0199900
10	.1020	2.588	31.43	31.82	.99890	.0317800
11	.0910	2.305	24.92	40.12	1.2600	.0505300
12	.0810	2.053	17.77	50.59	1.5880	.0803500
13	.0720	1.828	15.68	63.8	2.0030	.1278000
14	.0640	1.628	12.43	80.44	2.5250	.2032000
15	.0570	1.450	9.858	101.4	3.1840	.3230000
16	.0510	1.291	7.818	127.9	4.0160	.5136000
17	.0450	1.150	6.2	161.3	5.0640	.8167000
18	.0400	1.024	4.917	203.4	6.3850	1.29900
19	.0360	.912	3.899	256.5	8.0510	2.06500
20	.0320	.812	3.092	323.4	10.1500	3.28300
21	.0285	.723	2.452	407.8	12.8000	5.22100
22	.0253	.644	1.945	514.2	16.1400	8.31010
23	.0226	.573	1.842	648.2	20.3600	13.2000
24	.0201	.511	1.223	817.7	25.6700	20.9900
25	.0179	.455	.969	1031	32.3700	33.3700
26	.0159	.404	.799	1300	40.1800	53.0600
27	.0142	.361	.610	1639	51.4700	84.3700
28	.0126	.320	.484	2067	64.9000	134.200