

HM 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 / 1000 ft.	Feet / lb.	OHMS / 1000 ft.	OHMS / lb.
4 / 0	0.4600	11.684	640.500	1.561	0.04901	0.00007652
3 / 0	0.4100	10.404	507.900	1.968	0.06180	0.00012170
2 / 0	0.3650	9.266	402.800	2.482	0.07793	0.00019350
1 / 0	0.3250	8.253	319.500	3.130	0.09827	0.000307600
1	0.2890	7.348	253.300	3.947	0.12390	0.00048910
2	0.2580	6.543	200.900	4.977	0.15630	0.0007780
3	0.2290	5.827	189.300	6.276	0.19700	0.0012370
4	0.2040	5.189	126.400	7.914	0.24850	0.0019660
5	0.1820	4.620	100.200	9.980	0.31330	0.0031270
6	0.1620	4.115	79.460	12.580	0.39510	0.0049720
7	0.1440	3.665	63.020	15.870	0.49820	0.0079050
8	0.1280	3.264	49.980	20.010	0.62820	0.0125700
9	0.1140	2.906	39.630	25.230	0.79210	0.0199900
10	0.1020	2.588	31.430	31.820	0.99890	0.0317800
11	0.0910	2.305	24.920	40.120	1.26000	0.0505300
12	0.0810	2.053	17.770	50.590	1.5880	0.0803500
13	0.0720	1.828	15.680	63.800	2.0030	0.127800
14	0.0640	1.628	12.430	80.440	2.5250	0.203200
15	0.0570	1.450	9.858	101.400	3.1840	0.323000
16	0.0510	1.291	7.818	127.900	4.0160	0.513600
17	0.0450	1.150	6.200	161.300	5.0640	0.816700
18	0.0400	1.024	4.917	203.400	6.3850	1.29900
19	0.0360	0.912	3.899	256.500	8.0510	2.06500
20	0.0320	0.812	3.092	323.400	10.1500	3.28300
21	0.0285	0.723	2.452	407.800	12.8000	5.22100
22	0.0253	0.644	1.945	514.200	16.1400	8.31010
23	0.0226	0.573	1.842	648.200	20.3600	13.20000
24	0.0201	0.511	1.223	817.700	25.6700	20.99000
25	0.0179	0.455	0.969	1031.000	32.3700	33.37000
26	0.0159	0.404	0.799	1300.000	40.1800	53.06000
27	0.0142	0.361	0.610	1639.000	51.4700	84.3700
28	0.0126	0.320	0.484	2067.000	64.9000	134.2000

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