

HM Wire International, Inc.

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Aluminum Round Wire Chart

Size (AWG)	Circular Mils	Diameter (Inches)			Ft Per Lb.	Lbs Per 1000 Ft.	Resistance (Ohms per 1000 ft. @ 20° C)		
		MIN	NOM	MAX			MIN	NOM	MAX
8	16510	0.1272	0.1285	0.1298	65.8	15.2	0.9929	1.013	1.034
9	13090	0.1133	0.1144	0.1155	83	12.04	1.254	1.278	1.303
10	10380	0.1009	0.1019	0.1029	104	9.56	1.58	1.611	1.643
11	8230	0.0898	0.0907	0.0916	132	7.57	1.99	2.03	2.07
12	6530	0.0800	0.0808	0.0816	166	6.01	2.51	2.56	2.61
13	5190	0.0713	0.0720	0.0727	210	4.77	3.17	3.23	3.29
14	4110	0.0635	0.0641	0.0647	264	3.78	4.00	4.07	4.15
15	3260	0.0565	0.0571	0.0577	333	3.00	5.02	5.13	5.24
16	2580	0.0503	0.0508	0.0513	421	2.38	6.36	6.48	6.61
17	2050	0.0448	0.0453	0.0458	529	1.89	7.97	8.15	8.33
18	1620	0.0399	0.0403	0.0407	669	1.49	10.1	10.3	10.5
19	1290	0.0355	0.0359	0.0363	843	1.19	12.7	13.0	13.3
20	1020	0.0317	0.0320	0.0323	1060	0.942	16.0	16.3	16.6
21	812	0.0282	0.0285	0.0288	1340	0.748	20.2	20.6	21
22	640	0.0250	0.0253	0.0256	1700	0.589	25.5	26.1	26.8
23	510	0.0224	0.0226	0.0228	2130	0.470	32.2	32.8	33.3
24	404	0.0199	0.0201	0.0203	2690	0.372	40.6	41.4	42.2
25	320	0.0177	0.0179	0.0181	3390	0.295	51.1	52.2	53.4
26	253	0.0157	0.0159	0.0161	4300	0.233	64.5	66.2	67.9
27	202	0.0141	0.0142	0.0143	5390	0.186	81.8	83.0	84.1
28	158.8	0.0125	0.0126	0.0127	6845	0.1461	103.7	105.3	107
29	127.7	0.0112	0.0113	0.0114	8503	0.1176	128.7	131.0	133.4
30	100	0.0099	0.0100	0.0101	10870	0.0920	164.0	167.3	170.7
31	79.21	0.0088	0.0089	0.0090	13717	0.0729	206.5	211.2	216
32	64	0.0079	0.0080	0.0081	16978	0.0589	255.0	261.4	268
33	50.41	0.0070	0.0071	0.0072	21552	0.0464	322.7	331.8	341.4
34	39.69	0.0062	0.0063	0.0064	27397	0.0365	408.4	421.5	435.2
35	31.36	0.0055	0.0056	0.0057	34602	0.0289	514.9	533.4	553
36	25	0.0049	0.0050	0.0051	43478	0.0230	643.1	669.1	696.7
37	20.25	0.0044	0.0045	0.0046	53763	0.0186	790.5	826.1	864
38	16	0.0039	0.0040	0.0041	68027	0.0147	995.1	1046	1100
39	12.250	0.0034	0.0035	0.0036	88496	0.0113	1291	1366	1447
40	9.610	0.0030	0.0031	0.0032	113636	0.0088	1634	1741	1859
41	7.840	0.0027	0.0028	0.0029	138889	0.0072	1989	2134	2295
42	6.250	0.0024	0.0025	0.0026	172414	0.0058	2475	2676	2904
43	4.840	0.0021	0.0022	0.0023	222222	0.0045	3162	3456	3793
44	4	0.0019	0.0020	0.0021	270270	0.0037	3793	4182	4634

**This is to be used as a guideline only

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