



# EN-	007-0209
NAME:	John Palahnuk
REV:	B

Engineering Note

SUBJECT: CURRENT RATING GUIDE FOR WIRE

Please see the current rating guide below. You may use this guide to obtain estimated current ratings for wire.

This guide is for reference only. Current ratings will vary depending on each individual application. Careful calculations must be taken to assure proper current loads on wire. Always implement circuit interruption for the protection of wire and cable.

Cicoil Current Rating Guide

AWG gauge	Diameter Inches	Diameter mm	Ohms/ 1000 ft	Ohms/ km	Maximum amps for chassis wiring
0000	0.46	11.684	0.049	0.16072	380
000	0.4096	10.40384	0.0618	0.202704	328
00	0.3648	9.26592	0.0779	0.255512	283
0	0.3249	8.25246	0.0983	0.322424	245
1	0.2893	7.34822	0.1239	0.406392	211
2	0.2576	6.54304	0.1563	0.512664	181
3	0.2294	5.82676	0.197	0.64616	158
4	0.2043	5.18922	0.2485	0.81508	135
5	0.1819	4.62026	0.3133	1.027624	118
6	0.162	4.1148	0.3951	1.295928	101
7	0.1443	3.66522	0.4982	1.634096	89
8	0.1285	3.2639	0.6282	2.060496	73
9	0.1144	2.90576	0.7921	2.598088	64
10	0.1019	2.58826	0.9989	3.276392	55
11	0.0907	2.30378	1.26	4.1328	47
12	0.0808	2.05232	1.588	5.20864	41
13	0.072	1.8288	2.003	6.56984	35
14	0.0641	1.62814	2.525	8.282	32
15	0.0571	1.45034	3.184	10.44352	28
16	0.0508	1.29032	4.016	13.17248	22
17	0.0453	1.15062	5.064	16.60992	19
18	0.0403	1.02362	6.385	20.9428	16
19	0.0359	0.91186	8.051	26.40728	14
20	0.032	0.8128	10.15	33.292	11
21	0.0285	0.7239	12.8	41.984	9



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AWG gauge	Diameter Inches	Diameter mm	Ohms/ 1000 ft	Ohms/ km	Maximum amps for chassis wiring
22	0.0254	0.64516	16.14	52.9392	7
23	0.0226	0.57404	20.36	66.7808	4.7
24	0.0201	0.51054	25.67	84.1976	3.5
25	0.0179	0.45466	32.37	106.1736	2.7
26	0.0159	0.40386	40.81	133.8568	2.2
27	0.0142	0.36068	51.47	168.8216	1.7
28	0.0126	0.32004	64.9	212.872	1.4
29	0.0113	0.28702	81.83	268.4024	1.2
30	0.01	0.254	103.2	338.496	0.86
31	0.0089	0.22606	130.1	426.728	0.7
32	0.008	0.2032	164.1	538.248	0.53
Metric 2.0	0.00787	0.200	169.39	555.61	0.51
33	0.0071	0.18034	206.9	678.632	0.43
Metric 1.8	0.00709	0.180	207.5	680.55	0.43
34	0.0063	0.16002	260.9	855.752	0.33
Metric 1.6	0.0063	0.16002	260.9	855.752	0.33
35	0.0056	0.14224	329	1079.12	0.27
Metric 1.4	.00551	.140	339	1114	0.26
36	0.005	0.127	414.8	1360	0.21
Metric 1.25	.00492	0.125	428.2	1404	0.20
37	0.0045	0.1143	523.1	1715	0.17
Metric 1.12	.00441	0.112	533.8	1750	0.163
38	0.004	0.1016	659.6	2163	0.13
Metric 1	.00394	0.1000	670.2	2198	0.126
39	0.0035	0.0889	831.8	2728	0.11
40	0.0031	0.07874	1049	3440	0.09

Please contact CICOIL for more information.

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