

### Electrical Properties of Standard Annealed Copper Wire

Bare Wire Gauge* AWG	Diameter (Nominal) in	Area, Circular Mils	Ohms/1000 ft	Ft/ohm	Ampacity Outside Engine Space	Ampacity Inside Engine Space
0000	0.4600	211,600	0.04901	20,400	445	378.3
000	0.4096	167,800	0.06180	16,180	385	327.3
00	0.3648	133,100	0.07793	12,830	330	280.5
0	0.3249	105,500	0.09827	10,180	285	242.3
2	0.2576	66,370	0.1563	6,400	210	178.5
4	0.2043	41,740	0.2485	4,025	160	136
6	0.1620	26,250	0.3951	2,531	120	102
8	0.1285	16,510	0.6282	1,592	80	68
10	0.1019	10,380	0.9989	1,001	60	51
12	0.08081	6,530	1.588	630	45	38.3
14	0.06408	4,107	2.525	396	35	29.8
16	0.05082	2,583	4.016	249	25	21.3
18	0.04030	1,624	6.385	157	20	17
20	0.03196	1,022	10.15	98.5	-	-
22	0.02535	642.4	16.14	61.95	-	-
24	0.02010	404.0	25.67	38.96	-	-
26	0.01594	254.1	40.81	24.50	-	-
28	0.01264	159.8	64.90	15.41	-	-
30	0.01003	100.5	103.2	9.691	-	-
32	0.00795	63.21	164.1	6.095	-	-
36	0.00500	25.00	414.8	2.411	-	-
40	0.003145	9.888	1,049	0.9534	-	-