

British Standard Wire Gauge			American Wire Gauge		
SWG Gauge #	Area (mm ²)	Copper wire resistance / m	AWG Gauge #	Area (mm ²)	Copper wire resistance / m
		(mΩ/m)			(mΩ/m)
0000000 (7/0)	127	0.447			
000000 (6/0)	109	0.519			
00000 (5/0)	94.6	0.598			
0000 (4/0)	81.1	0.698	0000 (4/0)	107	0.1608
000 (3/0)	70.1	0.807	000 (3/0)	85	0.2028
00 (2/0)	61.4	0.922	00 (2/0)	67.4	0.2557
0 (1/0)	53.2	1.06	0 (1/0)	53.5	0.3224
1	45.6	1.24	1	42.4	0.4066
2	38.6	1.47	2	33.4	0.5127
3	32.2	1.76	3	26.7	0.6465
4	27.3	2.07	4	21.2	0.8152
5	22.8	2.48	5	16.8	1.028
6	18.7	3.03	6	13.3	1.296
7	15.7	3.6	7	10.5	1.634
8	13	4.36	8	8.37	2.061
9	10.5	5.38	9	6.63	2.599
10	8.3	6.81	10	5.26	3.277
11	6.82	8.3	11	4.17	4.132
12	5.48	10.3	12	3.31	5.211
13	4.29	13.2	13	2.62	6.571
14	3.24	17.4	14	2.08	8.286
15	2.63	21.5	15	1.65	10.45
16	2.08	27.3	16	1.31	13.17
17	1.59	35.6	17	1.04	16.61
18	1.17	48.5	18	0.823	20.95
19	0.811	69.8	19	0.653	26.42
20	0.657	86.1	20	0.518	33.31
21	0.519	109	21	0.41	42
22	0.397	142	22	0.326	52.96
23	0.292	194	23	0.258	66.79
24	0.245	231	24	0.205	84.22
25	0.203	279	25	0.162	106.2
26	0.164	345	26	0.129	133.9
27	0.136	415	27	0.102	168.9
28	0.111	510	28	0.081	212.9
29	0.0937	604	29	0.0642	268.5

30	0.0779	726	30	0.0509	338.6
31	0.0682	830	31	0.0404	426.9
32	0.0591	957	32	0.032	538.3
33	0.0507	1120	33	0.0254	678.8
34	0.0429	1320	34	0.0201	856
35	0.0358	1580	35	0.016	1079
36	0.0293	1930	36	0.0127	1361
37	0.0234	2410	37	0.01	1716
38	0.0182	3100	38	0.00797	2164
39	0.0137	4130	39	0.00632	2729
40	0.0117	4850	40	0.00501	3441
41	0.00981	5770			
42	0.00811	6980			
43	0.00657	8610			
44	0.00519	10900			
45	0.00397	14200			
46	0.00292	19400			
47	0.00203	27900			
48	0.0013	43600			
49	730μ	77500			
50	507μ	112000			