

Wire Gauge Data and Conversion Chart

Version 1.1
(With Current Capacities)

AWG MM SWG	Unit	Bare Diameter Inches	Bare Diameter MM	Nearest Equivalent Size AWG	SWG	BWG	Area in Circular Mils	Milli-Ohms Per Foot	Milli-Ohms Per Meter	Max Current @ 60 CM/A	Max Current @ 75 CM/A	Max Current @ 300 CM/A
6/0	AWG	0.580000	14.7320	6/0	-	-	336,390	0.0308	0.1011	5,606.5	4485.2	1121.3
5/0	AWG	0.516500	13.1191	5/0	7/0	-	266,765	0.0389	0.1275	4,446.1	3556.9	889.22
7/0	SWG	0.500000	12.7000	5/0	7/0	-	249,993	0.0415	0.1361	4,166.5	3333.2	833.31
6/0	SWG	0.464000	11.7856	4/0	6/0	4/0	215,290	0.0482	0.1580	3,588.2	2870.5	717.63
4/0	AWG	0.460000	11.6840	4/0	4/0	4/0	211,594	0.0490	0.1608	3,526.6	2821.3	705.31
4/0	BWG	0.454000	11.5316	4/0	4/0	4/0	206,110	0.0503	0.1651	3,435.2	2748.1	687.03
5/0	SWG	0.432000	10.9728	4/0	5/0	3/0	186,619	0.0556	0.1823	3,110.3	2488.2	622.06
3/0	BWG	0.425000	10.7950	3/0	3/0	3/0	180,620	0.0574	0.1883	3,010.3	2408.3	602.07
3/0	AWG	0.409600	10.4038	3/0	3/0	3/0	167,767	0.0618	0.2028	2,796.1	2236.9	559.22
4/0	SWG	0.400000	10.1600	4/0	4/0	4/0	159,995	0.0648	0.2126	2,666.6	2133.3	533.32
2/0	BWG	0.380000	9.6520	2/0	2/0	2/0	144,396	0.0718	0.2356	2,406.6	1925.3	481.32
3/0	SWG	0.372000	9.4488	3/0	3/0	3/0	138,380	0.0749	0.2458	2,306.3	1845.1	461.27
2/0	AWG	0.364800	9.2659	2/0	2/0	2/0	133,075	0.0779	0.2556	2,217.9	1774.3	443.58
2/0	SWG	0.348000	8.8392	2/0	2/0	2/0	121,101	0.0856	0.2809	2,018.3	1614.7	403.67
0	BWG	0.340000	8.6360	0	0	0	115,597	0.0897	0.2943	1,926.6	1541.3	385.32
0	AWG	0.324900	8.2525	0	0	0	105,557	0.0982	0.3223	1,759.3	1407.4	351.86
0	SWG	0.324000	8.2296	0	0	0	104,973	0.0988	0.3241	1,749.5	1399.6	349.91
1	SWG	0.300000	7.6200	1	1	1	89,997.4	0.1152	0.3780	1,500.0	1200.0	299.99
1	BWG	0.300000	7.6200	1	1	1	89,997.4	0.1152	0.3780	1,500.0	1200.0	299.99
1	AWG	0.289300	7.3482	1	1	1	83,692.1	0.1239	0.4065	1,394.9	1115.9	278.97
2	BWG	0.283000	7.1882	2	2	2	80,086.7	0.1295	0.4248	1,334.8	1067.8	266.96
2	SWG	0.276000	7.0104	2	2	2	76,173.8	0.1361	0.4466	1,269.6	1015.7	253.91
1.5	AWG	0.273003	6.9343	1.5	2	2	74,528.5	0.1391	0.4565	1,242.1	993.71	248.43
3	BWG	0.259000	6.5786	2	3	3	67,079.1	0.1546	0.5071	1,118.0	894.39	223.60
2	AWG	0.258000	6.5532	2	2	3	66,562.1	0.1558	0.5111	1,109.4	887.49	221.87
3	SWG	0.252000	6.4008	2	3	3	63,502.2	0.1633	0.5357	1,058.4	846.70	211.67
2.5	AWG	0.243116	6.1752	2.5	3	4	59,103.7	0.1754	0.5756	985.06	788.05	197.01
4	BWG	0.238000	6.0452	3	4	4	56,642.4	0.1831	0.6006	944.04	755.23	188.81
4	SWG	0.232000	5.8928	3	4	4	53,822.5	0.1927	0.6321	897.04	717.63	179.41
3	AWG	0.229000	5.8166	3	4	5	52,439.5	0.1977	0.6487	873.99	699.19	174.80
5	BWG	0.220000	5.5880	3	5	5	48,398.6	0.2142	0.7029	806.64	645.31	161.33
3.5	AWG	0.216501	5.4991	3.5	4	6	46,871.3	0.2212	0.7258	781.19	624.95	156.24

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				AWG	SWG	BWG						
5	SWG	0.212000	5.3848	4	5	5	44,942.7	0.2307	0.7569	749.05	599.24	149.81
4	AWG	0.204000	5.1816	4	5	6	41,614.8	0.2492	0.8175	693.58	554.86	138.72
6	BWG	0.203000	5.1562	4	6	6	41,207.8	0.2516	0.8255	686.80	549.44	137.36
4.5	AWG	0.192800	4.8971	4.5	6	7	37,170.8	0.2790	0.9152	619.51	495.61	123.90
5	AWG	0.182000	4.6228	5	7	7	33,123.0	0.3130	1.027	552.05	441.64	110.41
7	BWG	0.179000	4.5466	5	8	7	32,040.1	0.3236	1.062	534.00	427.20	106.80
5.5	AWG	0.171693	4.3610	5.5	7	8	29,477.6	0.3518	1.154	491.29	393.04	98.259
8	BWG	0.164000	4.1656	6	8	8	26,895.2	0.3855	1.265	448.25	358.60	89.651
6	AWG	0.162023	4.1154	6	7	8	26,250.7	0.3950	1.296	437.51	350.01	87.502
6.5	AWG	0.152897	3.8836	6.5	9	9	23,376.8	0.4436	1.455	389.61	311.69	77.923
9	BWG	0.147000	3.7338	7	9	9	21,608.4	0.4799	1.574	360.14	288.11	72.028
7	AWG	0.144285	3.6648	7	9	9	20,817.6	0.4981	1.634	346.96	277.57	69.392
9	SWG	0.144000	3.6576	7	9	9	20,735.4	0.5001	1.641	345.59	276.47	69.118
7.5	AWG	0.136459	3.4661	7.5	9	10	18,620.5	0.5569	1.827	310.34	248.27	62.068
10	BWG	0.134000	3.4036	8	10	10	17,955.5	0.5775	1.895	299.26	239.41	59.852
3.35	MM	0.131890	3.3500	8	9	10	17,394.3	0.5961	1.956	289.91	231.92	57.981
8	AWG	0.128500	3.2639	8	10	10	16,511.8	0.6280	2.060	275.20	220.16	55.039
10	SWG	0.128000	3.2512	8	10	10	16,383.5	0.6329	2.076	273.06	218.45	54.612
3.15	MM	0.124016	3.1500	8	10	11	15,379.4	0.6742	2.212	256.32	205.06	51.265
8.5	AWG	0.121253	3.0798	8.5	10	11	14,701.9	0.7053	2.314	245.03	196.02	49.006
11	BWG	0.120000	3.0480	9	11	11	14,399.6	0.7201	2.362	239.99	191.99	47.999
3	MM	0.118110	3.0000	9	10	11	13,949.6	0.7433	2.439	232.49	185.99	46.499
11	SWG	0.116000	2.9464	9	11	11	13,455.6	0.7706	2.528	224.26	179.41	44.852
9	AWG	0.114400	2.9058	9	11	11	13,087.0	0.7923	2.599	218.12	174.49	43.623
2.8	MM	0.110236	2.8000	9	11	12	12,151.6	0.8533	2.800	202.53	162.02	40.505
12	BWG	0.109000	2.7686	10	12	12	11,880.7	0.8728	2.863	198.01	158.41	39.602
9.5	AWG	0.107979	2.7427	9.5	11	12	11,659.1	0.8893	2.918	194.32	155.46	38.864
2.65	MM	0.104331	2.6500	10	11	12	10,884.5	0.9526	3.125	181.41	145.13	36.282
12	SWG	0.104000	2.6416	10	12	12	10,815.7	0.9587	3.145	180.26	144.21	36.052
10	AWG	0.101900	2.5883	10	12	12	10,383.3	0.9986	3.276	173.06	138.44	34.611
2.5	MM	0.098425	2.5000	10	12	13	9,687.20	1.070	3.512	161.45	129.16	32.291
10.5	AWG	0.096158	2.4424	10.5	12	13	9,246.10	1.121	3.679	154.10	123.28	30.820

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				AWG	SWG	BWG						
13	BWG	0.095000	2.4130	11	13	13	9,024.74	1.149	3.770	150.41	120.33	30.082
2.36	MM	0.092913	2.3600	11	12	13	8,632.61	1.201	3.941	143.88	115.10	28.775
13	SWG	0.092000	2.3368	11	13	13	8,463.76	1.225	4.019	141.06	112.85	28.213
11	AWG	0.090700	2.3038	11	13	13	8,226.25	1.260	4.135	137.10	109.68	27.421
2.24	MM	0.088189	2.2400	11	13	14	7,777.04	1.333	4.374	129.62	103.69	25.923
11.5	AWG	0.085800	2.1793	11.5	13	14	7,361.43	1.409	4.621	122.69	98.152	24.538
2.12	MM	0.083464	2.1200	12	14	14	6,966.11	1.488	4.884	116.10	92.881	23.220
14	BWG	0.083000	2.1082	12	14	14	6,888.80	1.505	4.938	114.81	91.851	22.963
12	AWG	0.080800	2.0523	12	14	14	6,528.45	1.588	5.211	108.81	87.046	21.762
14	SWG	0.080000	2.0320	12	14	14	6,399.82	1.620	5.316	106.66	85.331	21.333
2	MM	0.078740	2.0000	12	14	15	6,199.81	1.672	5.487	103.33	82.664	20.666
12.5	AWG	0.076400	1.9406	12.5	14	15	5,836.79	1.776	5.828	97.280	77.824	19.456
1.9	MM	0.074803	1.9000	13	15	15	5,595.33	1.853	6.080	93.255	74.604	18.651
13	AWG	0.072000	1.8288	13	15	15	5,183.85	2.000	6.562	86.398	69.118	17.280
15	SWG	0.072000	1.8288	13	15	15	5,183.85	2.000	6.562	86.398	69.118	17.280
15	BWG	0.072000	1.8288	13	15	15	5,183.85	2.000	6.562	86.398	69.118	17.280
1.8	MM	0.070866	1.8000	13	15	16	5,021.85	2.065	6.774	83.697	66.958	16.739
13.5	AWG	0.068100	1.7297	13.5	15	16	4,637.48	2.236	7.336	77.291	61.833	15.458
1.7	MM	0.066929	1.7000	14	16	16	4,479.36	2.315	7.595	74.656	59.725	14.931
16	BWG	0.065000	1.6510	14	16	16	4,224.88	2.454	8.052	70.415	56.332	14.083
14	AWG	0.064100	1.6281	14	16	16	4,108.69	2.524	8.280	68.478	54.783	13.696
16	SWG	0.064000	1.6256	14	16	16	4,095.88	2.532	8.306	68.265	54.612	13.653
1.6	MM	0.062992	1.6000	14	16	17	3,967.88	2.613	8.574	66.131	52.905	13.226
14.5	AWG	0.060500	1.5367	14.5	16	17	3,660.14	2.833	9.294	61.002	48.802	12.200
1.5	MM	0.059055	1.5000	15	17	17	3,487.39	2.973	9.755	58.123	46.499	11.625
17	BWG	0.058000	1.4732	15	17	17	3,363.90	3.082	10.113	56.065	44.852	11.213
15	AWG	0.057100	1.4503	15	17	17	3,260.32	3.180	10.434	54.339	43.471	10.868
17	SWG	0.056000	1.4224	15	17	17	3,135.91	3.307	10.848	52.265	41.812	10.453
1.4	MM	0.055118	1.4000	15	17	18	3,037.91	3.413	11.198	50.632	40.505	10.126
15.5	AWG	0.053900	1.3691	15.5	16	18	2,905.13	3.569	11.710	48.419	38.735	9.6838
1.32	MM	0.051968	1.3200	16	17	18	2,700.64	3.839	12.597	45.011	36.008	9.0021
1.3	MM	0.051200	1.3005	16	18	18	2,621.36	3.956	12.978	43.689	34.952	8.7379

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				AWG	SWG	BWG						
16	AWG	0.050800	1.2903	16	18	18	2,580.57	4.018	13.183	43.009	34.408	8.6019
1.25	MM	0.049213	1.2500	16	18	18	2,421.80	4.282	14.047	40.363	32.291	8.0727
18	BWG	0.049000	1.2446	16	18	18	2,400.93	4.319	14.169	40.016	32.012	8.0031
18	SWG	0.048000	1.2192	16	18	18	2,303.93	4.501	14.766	38.399	30.719	7.6798
16.5	AWG	0.048000	1.2192	16.5	17	19	2,303.93	4.501	14.766	38.399	30.719	7.6798
1.2	MM	0.047200	1.1989	17	18	19	2,227.78	4.654	15.270	37.130	29.704	7.4259
1.18	MM	0.046457	1.1800	17	18	19	2,158.15	4.805	15.763	35.969	28.775	7.1938
17	AWG	0.045300	1.1506	17	18	19	2,052.03	5.053	16.578	34.201	27.360	6.8401
1.15	MM	0.045275	1.1500	17	18	19	2,049.77	5.059	16.597	34.163	27.330	6.8326
1.12	MM	0.044094	1.1200	17	19	19	1,944.26	5.333	17.497	32.404	25.923	6.4809
1.1	MM	0.043300	1.0998	17	19	20	1,874.84	5.531	18.145	31.247	24.998	6.2495
17.5	AWG	0.042700	1.0846	17.5	18	20	1,823.24	5.687	18.659	30.387	24.310	6.0775
19	BWG	0.042000	1.0668	18	19	19	1,763.95	5.878	19.286	29.399	23.519	5.8798
1.06	MM	0.041732	1.0600	18	19	20	1,741.53	5.954	19.534	29.025	23.220	5.8051
18	AWG	0.040300	1.0236	18	19	20	1,624.04	6.385	20.947	27.067	21.654	5.4135
19	SWG	0.040000	1.0160	18	19	19	1,599.95	6.481	21.262	26.666	21.333	5.3332
1	MM	0.039370	1.0000	18	20	20	1,549.95	6.690	21.948	25.833	20.666	5.1665
18.5	AWG	0.038000	0.9652	18.5	19	21	1,443.96	7.181	23.560	24.066	19.253	4.8132
0.95	MM	0.037402	0.9500	19	20	21	1,398.83	7.413	24.320	23.314	18.651	4.6628
20	SWG	0.036000	0.9144	19	20	20	1,295.96	8.001	26.250	21.599	17.280	4.3199
19	AWG	0.035900	0.9119	19	20	21	1,288.77	8.046	26.396	21.480	17.184	4.2959
0.9	MM	0.035433	0.9000	19	20	21	1,255.46	8.259	27.097	20.924	16.739	4.1849
20	BWG	0.035000	0.8890	19	20	20	1,224.96	8.465	27.771	20.416	16.333	4.0832
19.5	AWG	0.033900	0.8611	19.5	20	22	1,149.18	9.023	29.603	19.153	15.322	3.8306
0.85	MM	0.033465	0.8500	20	21	21	1,119.84	9.259	30.378	18.664	14.931	3.7328
20	AWG	0.032000	0.8128	20	21	21	1,023.97	10.126	33.223	17.066	13.653	3.4132
21	SWG	0.032000	0.8128	20	21	21	1,023.97	10.126	33.223	17.066	13.653	3.4132
0.8	MM	0.031496	0.8000	20	21	22	991.970	10.453	34.294	16.533	13.226	3.3066
21	BWG	0.031000	0.7874	20	21	21	960.972	10.790	35.401	16.016	12.813	3.2032
20.5	AWG	0.030200	0.7671	20.5	21	22	912.014	11.369	37.301	15.200	12.160	3.0400
0.75	MM	0.029528	0.7500	21	22	22	871.848	11.893	39.019	14.531	11.625	2.9062
21	AWG	0.028500	0.7239	21	22	22	812.227	12.766	41.884	13.537	10.830	2.7074

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22	SWG	0.028000	0.7112	21	22	22	783.977	13.226	43.393	13.066	10.453	2.6133
22	BWG	0.028000	0.7112	21	22	22	783.977	13.226	43.393	13.066	10.453	2.6133
0.71	MM	0.027953	0.7100	21	22	22	781.331	13.271	43.540	13.022	10.418	2.6044
0.7	MM	0.027600	0.7010	21	22	23	761.738	13.612	44.660	12.696	10.157	2.5391
21.5	AWG	0.026900	0.6833	21.5	22	23	723.589	14.330	47.014	12.060	9.6479	2.4120
0.65	MM	0.025600	0.6502	22	23	23	655.341	15.822	51.910	10.922	8.7379	2.1845
22	AWG	0.025300	0.6426	22	23	23	640.072	16.200	53.149	10.668	8.5343	2.1336
23	BWG	0.025000	0.6350	22	23	23	624.982	16.591	54.432	10.416	8.3331	2.0833
0.63	MM	0.024803	0.6300	22	23	23	615.176	16.855	55.300	10.253	8.2023	2.0506
23	SWG	0.024000	0.6096	22	23	23	575.983	18.002	59.062	9.5997	7.6798	1.9199
22.5	AWG	0.023900	0.6071	22.5	23	24	571.194	18.153	59.558	9.5199	7.6159	1.9040
0.6	MM	0.023622	0.6000	23	23	24	557.983	18.583	60.968	9.2997	7.4398	1.8599
24	BWG	0.023000	0.5842	23	24	24	528.985	19.602	64.310	8.8164	7.0531	1.7633
23	AWG	0.022600	0.5740	23	24	24	510.745	20.302	66.607	8.5124	6.8099	1.7025
0.56	MM	0.022100	0.5613	23	24	24	488.396	21.231	69.655	8.1399	6.5119	1.6280
24	SWG	0.022000	0.5588	23	24	24	483.986	21.424	70.289	8.0664	6.4531	1.6133
0.55	MM	0.021700	0.5512	24	25	25	470.876	22.021	72.246	7.8479	6.2784	1.5696
23.5	AWG	0.021300	0.5410	23.5	24	25	453.677	22.855	74.985	7.5613	6.0490	1.5123
24	AWG	0.020100	0.5105	24	25	25	403.998	25.666	84.206	6.7333	5.3866	1.3467
25	SWG	0.020000	0.5080	24	25	25	399.989	25.923	85.050	6.6665	5.3332	1.3333
25	BWG	0.020000	0.5080	24	25	25	399.989	25.923	85.050	6.6665	5.3332	1.3333
0.5	MM	0.019685	0.5000	24	25	25	387.488	26.760	87.794	6.4581	5.1665	1.2916
24.5	AWG	0.019000	0.4826	24.5	25	26	360.990	28.724	94.238	6.0165	4.8132	1.2033
26	SWG	0.018000	0.4572	25	26	26	323.991	32.004	105.000	5.3998	4.3199	1.0800
26	BWG	0.018000	0.4572	21	22	26	323.991	32.004	105.000	5.3998	4.3199	1.0800
25	AWG	0.017900	0.4547	25	26	26	320.401	32.363	106.176	5.3400	4.2720	1.0680
0.45	MM	0.017717	0.4500	25	26	27	313.865	33.036	108.387	5.2311	4.1849	1.0462
25.5	AWG	0.016900	0.4293	25.5	26	27	285.602	36.306	119.113	4.7600	3.8080	0.95201
0.425	MM	0.016732	0.4250	26	27	27	279.960	37.037	121.514	4.6660	3.7328	0.93320
27	SWG	0.016400	0.4166	26	27	27	268.952	38.553	126.487	4.4825	3.5860	0.89651
27	BWG	0.016000	0.4064	26	27	27	255.993	40.505	132.891	4.2665	3.4132	0.85331
26	AWG	0.015900	0.4039	26	27	27	252.803	41.016	134.567	4.2134	3.3707	0.84268

Wire Gauge Data and Conversion Chart

Version 1.1
(With Current Capacities)

AWG MM SWG	Unit	Bare Diameter Inches	Bare Diameter MM	Nearest AWG	Equivalent Size SWG	Equivalent Size BWG	Area in Circular Mils	Milli-Ohms Per Foot	Milli-Ohms Per Meter	Max Current @ 60 CM/A	Max Current @ 75 CM/A	Max Current @ 300 CM/A
0.4	MM	0.015748	0.4000	26	27	28	247.992	41.812	137.178	4.1332	3.3066	0.82664
26.5	AWG	0.015000	0.3810	26.5	27	28	224.994	46.086	151.200	3.7499	2.9999	0.74998
28	SWG	0.014800	0.3759	27	28	28	219.034	47.340	155.314	3.6506	2.9204	0.73011
27	AWG	0.014200	0.3607	27	28	28	201.634	51.425	168.716	3.3606	2.6885	0.67211
0.355	MM	0.013976	0.3550	27	28	29	195.333	53.084	174.159	3.2555	2.6044	0.65111
29	SWG	0.013600	0.3454	27	29	29	184.955	56.062	183.932	3.0826	2.4661	0.61652
28	BWG	0.013500	0.3429	28	28	28	182.245	56.896	186.667	3.0374	2.4299	0.60748
27.5	AWG	0.013400	0.3404	27.5	29	29	179.555	57.748	189.463	2.9926	2.3941	0.59852
29	BWG	0.013000	0.3302	28	29	29	168.995	61.357	201.302	2.8166	2.2533	0.56332
28	AWG	0.012600	0.3200	28	30	29	158.755	65.314	214.286	2.6459	2.1167	0.52918
0.315	MM	0.012402	0.3150	28	30	30	153.794	67.421	221.198	2.5632	2.0506	0.51265
30	SWG	0.012400	0.3150	28	30	30	153.756	67.438	221.254	2.5626	2.0501	0.51252
30	BWG	0.012000	0.3048	29	30	30	143.996	72.009	236.250	2.3999	1.9199	0.47999
28.5	AWG	0.011900	0.3023	28.5	30	30	141.606	73.224	240.237	2.3601	1.8881	0.47202
0.31	MM	0.011800	0.2997	29	31	31	139.236	74.471	244.326	2.3206	1.8565	0.46412
31	SWG	0.011600	0.2946	29	31	31	134.556	77.061	252.824	2.2426	1.7941	0.44852
29	AWG	0.011300	0.2870	29	31	30	127.686	81.207	266.426	2.1281	1.7025	0.42562
0.28	MM	0.011024	0.2800	29	32	32	121.516	85.330	279.954	2.0253	1.6202	0.40505
32	SWG	0.010800	0.2743	29	32	32	116.637	88.900	291.666	1.9439	1.5552	0.38879
29.5	AWG	0.010600	0.2692	29.5	32	31	112.357	92.286	302.777	1.8726	1.4981	0.37452
30	AWG	0.010000	0.2540	30	33	31	99.9971	103.69	340.20	1.6666	1.3333	0.33332
33	SWG	0.010000	0.2540	30	33	33	99.9971	103.69	340.20	1.6666	1.3333	0.33332
31	BWG	0.010000	0.2540	30	33	31	99.9971	103.69	340.20	1.6666	1.3333	0.33332
0.25	MM	0.009843	0.2500	30	33	32	96.8720	107.04	351.17	1.6145	1.2916	0.32291
30.5	AWG	0.009500	0.2413	30.5	33	32	90.2474	114.90	376.95	1.5041	1.2033	0.30082
34	SWG	0.009200	0.2337	31	34	34	84.6376	122.51	401.94	1.4106	1.1285	0.28213
32	BWG	0.009000	0.2286	31	31	32	80.9977	128.02	420.00	1.3500	1.0800	0.26999
31	AWG	0.008900	0.2261	31	34	32	79.2077	130.91	429.49	1.3201	1.0561	0.26403
0.224	MM	0.008819	0.2240	31	35	33	77.7704	133.33	437.43	1.2962	1.0369	0.25923
35	SWG	0.008400	0.2134	32	35	35	70.5580	146.96	482.14	1.1760	0.94077	0.23519
31.5	AWG	0.008400	0.2134	31.5	34	33	70.5580	146.96	482.14	1.1760	0.94077	0.23519
32	AWG	0.008000	0.2032	32	35	33	63.9982	162.02	531.56	1.0666	0.85331	0.21333

Wire Gauge Data and Conversion Chart

Version 1.1
(With Current Capacities)

AWG MM SWG	Unit	Bare Diameter Inches	Bare Diameter MM	Nearest Equivalent Size			Area in Circular Mils	Milli-Ohms Per Foot	Milli-Ohms Per Meter	Max Current @ 60 CM/A	Max Current @ 75 CM/A	Max Current @ 300 CM/A
				AWG	SWG	BWG						
33	BWG	0.008000	0.2032	32	35	33	63.9982	162.02	531.56	1.0666	0.85331	0.21333
0.2	MM	0.007874	0.2000	32	36	34	61.9981	167.25	548.71	1.0333	0.82664	0.20666
36	SWG	0.007600	0.1930	32	36	36	57.7583	179.52	588.99	0.9626	0.77011	0.19253
32.5	AWG	0.007500	0.1905	32.5	35	34	56.2484	184.34	604.80	0.9375	0.74998	0.18749
33	AWG	0.007100	0.1803	33	36	34	50.4086	205.70	674.87	0.8401	0.67211	0.16803
0.18	MM	0.007087	0.1800	33	36	35	50.2185	206.48	677.42	0.8370	0.66958	0.16739
35	BWG	0.007000	0.1778	33	36	35	48.9986	211.62	694.29	0.8166	0.65331	0.16333
37	SWG	0.006800	0.1727	33	37	34	46.2387	224.25	735.73	0.7706	0.61652	0.15413
33.5	AWG	0.006700	0.1702	33.5	36	34	44.8887	230.99	757.85	0.7481	0.59852	0.14963
34	AWG	0.006300	0.1600	34	37	34	39.6889	261.26	857.14	0.6615	0.52918	0.13230
0.16	MM	0.006299	0.1600	34	37	36	39.6788	261.32	857.36	0.6613	0.52905	0.13226
38	SWG	0.006000	0.1524	34	38	36	35.9990	288.04	945.00	0.6000	0.47999	0.12000
34.5	AWG	0.005900	0.1499	34.5	37	35	34.8090	297.88	977.30	0.5802	0.46412	0.11603
35	AWG	0.005600	0.1422	35	38	35	31.3591	330.65	1,084.82	0.5227	0.41812	0.10453
0.14	MM	0.005512	0.1400	35	38	35	30.3791	341.32	1,119.82	0.5063	0.40505	0.10126
35.5	AWG	0.005300	0.1346	35.5	38	35	28.0892	369.15	1,211.11	0.4682	0.37452	0.093631
39	SWG	0.005200	0.1321	36	39	35	27.0392	383.48	1,258.14	0.4507	0.36052	0.090131
36	AWG	0.005000	0.1270	36	39	35	24.9993	414.77	1,360.80	0.4167	0.33332	0.083331
35	BWG	0.005000	0.1270	36	39	35	24.9993	414.77	1,360.80	0.4167	0.33332	0.083331
0.125	MM	0.004921	0.1250	36	39	35	24.2180	428.15	1,404.70	0.4036	0.32291	0.080727
40	SWG	0.004800	0.1219	36	40	35	23.0393	450.06	1,476.56	0.3840	0.30719	0.076798
36.5	AWG	0.004700	0.1194	36.5	39	35	22.0894	469.41	1,540.06	0.3682	0.29452	0.073631
37	AWG	0.004500	0.1143	37	40	35	20.2494	512.06	1,680.00	0.3375	0.26999	0.067498
0.112	MM	0.004409	0.1120	37	40	36	19.4426	533.31	1,749.71	0.3240	0.25923	0.064809
41	SWG	0.004400	0.1118	37	41	36	19.3594	535.60	1,757.23	0.3227	0.25813	0.064531
37.5	AWG	0.004200	0.1067	37.5	41	36	17.6395	587.83	1,928.57	0.2940	0.23519	0.058798
38	AWG	0.004000	0.1016	38	42	36	15.9995	648.08	2,126.25	0.2667	0.21333	0.053332
42	SWG	0.004000	0.1016	38	42	36	15.9995	648.08	2,126.25	0.2667	0.21333	0.053332
36	BWG	0.004000	0.1016	38	40	36	15.9995	648.08	2,126.25	0.2667	0.21333	0.053332
0.1	MM	0.003937	0.1000	38	42	-	15.4995	668.99	2,194.84	0.2583	0.20666	0.051665
38.5	AWG	0.003700	0.0940	38.5	42	-	13.6896	757.44	2,485.02	0.2282	0.18253	0.045632
43	SWG	0.003600	0.0914	39	43	-	12.9596	800.10	2,625.00	0.2160	0.17280	0.043199

Wire Gauge Data and Conversion Chart

Version 1.1
(With Current Capacities)

AWG MM SWG	Unit	Bare Diameter Inches	Bare Diameter MM	Nearest AWG	Equivalent Size SWG	Size BWG	Area in Circular Mils	Milli-Ohms Per Foot	Milli-Ohms Per Meter	Max Current @ 60 CM/A	Max Current @ 75 CM/A	Max Current @ 300 CM/A
0.09	MM	0.003543	0.0900	39	43	-	12.5546	825.91	2,709.68	0.2092	0.16739	0.041849
39	AWG	0.003500	0.0889	39	43	-	12.2496	846.47	2,777.14	0.2042	0.16333	0.040832
39.5	AWG	0.003300	0.0838	39.5	43	-	10.8897	952.19	3,123.96	0.1815	0.14520	0.036299
44	SWG	0.003200	0.0813	40	44	-	10.2397	1,012.6	3,322.3	0.1707	0.13653	0.034132
0.08	MM	0.003150	0.0800	40	44	-	9.9197	1,045.3	3,429.4	0.1653	0.13226	0.033066
40	AWG	0.003100	0.0787	40	44	-	9.6097	1,079.0	3,540.1	0.1602	0.12813	0.032032
40.5	AWG	0.003000	0.0762	40.5	44	-	8.9997	1,152.1	3,780.0	0.1500	0.12000	0.029999
41	AWG	0.002800	0.0711	41	45	-	7.8398	1,322.6	4,339.3	0.1307	0.10453	0.026133
45	SWG	0.002800	0.0711	41	45	-	7.8398	1,322.6	4,339.3	0.1307	0.10453	0.026133
0.071	MM	0.002795	0.0710	41	45	-	7.8133	1,327.1	4,354.0	0.1302	0.10418	0.026044
41.5	AWG	0.002600	0.0660	41.5	45	-	6.7598	1,533.9	5,032.5	0.1127	0.090131	0.022533
42	AWG	0.002500	0.0635	42	46	-	6.2498	1,659.1	5,443.2	0.1042	0.083331	0.020833
0.063	MM	0.002480	0.0630	42	46	-	6.1518	1,685.5	5,530.0	0.1025	0.082023	0.020506
46	SWG	0.002400	0.0610	42	46	-	5.7598	1,800.2	5,906.2	0.0960	0.076798	0.019199
42.5	AWG	0.002400	0.0610	42.5	46	-	5.7598	1,800.2	5,906.2	0.0960	0.076798	0.019199
43	AWG	0.002200	0.0559	43	46	-	4.8399	2,142.4	7,028.9	0.0807	0.064531	0.016133
43.5	AWG	0.002100	0.0533	43.5	47	-	4.4099	2,351.3	7,714.3	0.0735	0.058798	0.014700
44	AWG	0.002000	0.0508	44	47	-	3.9999	2,592.3	8,505.0	0.0667	0.053332	0.013333
47	SWG	0.002000	0.0508	44	47	-	3.9999	2,592.3	8,505.0	0.0667	0.053332	0.013333
0.05	MM	0.001969	0.0500	44	47	-	3.8749	2,676.0	8,779.4	0.0646	0.051665	0.012916
44.5	AWG	0.001866	0.0474	44.5	47	-	3.4819	2,978.0	9,770.4	0.0580	0.046425	0.011606
45	AWG	0.001761	0.0447	45	47	-	3.1010	3,343.7	10,970.2	0.0517	0.041347	0.010337
45.5	AWG	0.001662	0.0422	45.5	48	-	2.7622	3,753.9	12,316.1	0.0460	0.036829	0.0092072
48	SWG	0.001600	0.0406	45.5	48	-	2.5599	4,050.5	13,289.1	0.0427	0.034132	0.0085331
46	AWG	0.001568	0.0398	46	48	-	2.4586	4,217.5	13,837.0	0.0410	0.032781	0.0081952
46.5	AWG	0.001480	0.0376	46.5	48	-	2.1903	4,734.0	15,531.4	0.0365	0.029204	0.0073011
47	AWG	0.001397	0.0355	47	48	-	1.9516	5,313.2	17,431.8	0.0325	0.026021	0.0065052
47.5	AWG	0.001318	0.0335	47.5	48	-	1.7371	5,969.2	19,584.1	0.0290	0.023161	0.0057902
48	AWG	0.001244	0.0316	48	49	-	1.5475	6,700.5	21,983.3	0.0258	0.020633	0.0051583
49	SWG	0.001200	0.0305	48	49	-	1.4400	7,200.9	23,625.0	0.0240	0.019199	0.0047999
48.5	AWG	0.001174	0.0298	48.5	49	-	1.3782	7,523.4	24,683.0	0.0230	0.018376	0.0045941
49	AWG	0.001108	0.0281	49	49	-	1.2276	8,446.4	27,711.1	0.0205	0.016368	0.0040921

Wire Gauge Data and Conversion Chart

Version 1.1
(With Current Capacities)

AWG MM SWG	Unit	Bare Diameter Inches	Bare Diameter MM	Nearest Equivalent Size AWG	SWG	BWG	Area in Circular Mils	Milli-Ohms Per Foot	Milli-Ohms Per Meter	Max Current @ 60 CM/A	Max Current @ 75 CM/A	Max Current @ 300 CM/A
49.5	AWG	0.001045	0.0265	49.5	49	-	1.0920	9,495.5	31,153.1	0.0182	0.014560	0.0036400
50	SWG	0.001000	0.0254	49	50	-	1.0000	10,369.3	34,020.0	0.0167	0.013333	0.0033332
50	AWG	0.000986	0.0251	50	50	-	0.9728	10,659.4	34,971.6	0.0162	0.012970	0.0032425
50.5	AWG	0.000931	0.0236	50.5	50	-	0.8664	11,968.4	39,266.4	0.0144	0.011552	0.0028879
51	AWG	0.000878	0.0223	51	-	-	0.7714	13,442.0	44,101.0	0.0129	0.010285	0.0025713
51.5	AWG	0.000829	0.0211	51.5	-	-	0.6871	15,092.0	49,514.2	0.0115	0.009161	0.0022902
52	AWG	0.000782	0.0199	52	-	-	0.6118	16,947.8	55,603.0	0.0102	0.008158	0.0020394
52.5	AWG	0.000738	0.0188	52.5	-	-	0.5448	19,033.5	62,445.8	0.0091	0.007264	0.0018159
53	AWG	0.000697	0.0177	53	-	-	0.4852	21,368.9	70,107.9	0.0081	0.006470	0.0016175
53.5	AWG	0.000657	0.0167	53.5	-	-	0.4320	24,000.6	78,742.0	0.0072	0.005760	0.0014401
54	AWG	0.000620	0.0158	54	-	-	0.3848	26,949.2	88,415.9	0.0064	0.005130	0.0012825
54.5	AWG	0.000585	0.0149	54.5	-	-	0.3427	30,258.3	99,272.5	0.0057	0.004569	0.0011423
55	AWG	0.000552	0.0140	55	-	-	0.3051	33,981.5	111,487.6	0.0051	0.004068	0.0010171
55.5	AWG	0.000521	0.0132	55.5	-	-	0.2717	38,157.0	125,186.8	0.0045	0.003623	0.0009058
56	AWG	0.000492	0.0125	56	-	-	0.2420	42,854.4	140,598.2	0.0040	0.003226	0.0008065
56.5	AWG	0.000464	0.0118	56.5	-	-	0.2155	48,121.6	157,879.1	0.0036	0.002873	0.0007183
57	AWG	0.000438	0.0111	57	-	-	0.1919	54,026.0	177,250.6	0.0032	0.002559	0.0006398
57.5	AWG	0.000413	0.0105	57.5	-	-	0.1709	60,674.7	199,063.8	0.0028	0.002279	0.0005697
58	AWG	0.000390	0.0099	58	-	-	0.1522	68,139.1	223,553.3	0.0025	0.002029	0.0005072
58.5	AWG	0.000368	0.0094	58.5	-	-	0.1355	76,527.4	251,073.8	0.0023	0.001807	0.0004516
59	AWG	0.000347	0.0088	59	-	-	0.1207	85,919.3	281,887.3	0.0020	0.001609	0.0004023
59.5	AWG	0.000328	0.0083	59.5	-	-	0.1075	96,500.7	316,603.1	0.0018	0.001433	0.0003582
60	AWG	0.000309	0.0079	60	-	-	0.0957	108,319.6	355,378.9	0.0016	0.001276	0.0003191