

Wire Dimension Chart

AWG • MM • SWG	Bare Dia Inch	Bare Dia MM	Approx. Nearest or Actual			Circular Mils
			AWG Nbr	SWG Nbr	BWG Nbr	
6/0 AWG	0.580000	14.73200	6/0	--	--	336,390.338592
5/0 AWG	0.516500	13.11910	5/0	7/0	--	266,764.588301
7/0 SWG	0.500000	12.70000	5/0	7/0	--	249,992.820000
6/0 SWG	0.464000	11.78560	4/0	6/0	4/0	215,289.816699
4/0 AWG	0.460000	11.68400	4/0	4/0	4/0	211,593.922848
4/0 BWG	0.454000	11.53160	4/0	4/0	4/0	206,110.080348
5/0 SWG	0.432000	10.97280	4/0	5/0	3/0	186,618.640159
3/0 BWG	0.425000	10.79500	3/0	3/0	3/0	180,619.812450
3/0 AWG	0.409600	10.40384	3/0	3/0	3/0	167,767.341584
4/0 SWG	0.400000	10.16000	4/0	4/0	4/0	159,995.404800
2/0 BWG	0.380000	9.65200	2/0	2/0	2/0	144,395.852832
3/0 SWG	0.372000	9.44880	3/0	3/0	3/0	138,380.025612
2/0 AWG	0.364800	9.26592	2/0	2/0	2/0	133,075.217970
2/0 SWG	0.348000	8.83920	2/0	2/0	2/0	121,100.521893
0 BWG	0.340000	8.63600	0	0	0	115,596.679968
0 AWG	0.324900	8.25246	0	0	0	105,556.978317
0 SWG	0.324000	8.22960	0	0	0	104,972.985089
1 SWG	0.300000	7.62000	1	1	1	89,997.415200
1 BWG	0.300000	7.62000	1	1	1	89,997.415200
1 AWG	0.289300	7.34822	1	1	1	83,692.086294
2 BWG	0.283000	7.18820	2	2	2	80,086.699844
2 SWG	0.276000	7.01040	2	2	2	76,173.812225
1.5 AWG	0.273003	6.93428	1.5	2	2	74,528.497489
3 BWG	0.259000	6.57860	2	3	3	67,079.073434
2 AWG	0.258000	6.55320	2	2	3	66,562.088282
3 SWG	0.252000	6.40080	2	3	3	63,502.176165
2.5 AWG	0.243116	6.17515	2.5	3	4	59,103.691949
4 BWG	0.238000	6.04520	3	4	4	56,642.373184
4 SWG	0.232000	5.89280	3	4	4	53,822.454175
3 AWG	0.229000	5.81660	3	4	5	52,439.493894
5 BWG	0.220000	5.58800	3	5	5	48,398.609952

Cir Mils or CMA = Circular Mil Area which is equal to 1/1000 (0.001) of an inch in diameter or 0.000507 MM².

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3.5 AWG	0.216501	5.49913	3.5	4	6	46,871.336818
5 SWG	0.212000	5.38480	4	5	5	44,942.709208
4 AWG	0.204000	5.18160	4	5	6	41,614.804788
6 BWG	0.203000	5.15620	4	6	6	41,207.816478
4.5 AWG	0.192800	4.89712	4.5	6	7	37,170.772425
5 AWG	0.182000	4.62280	5	7	7	33,123.048679
7 BWG	0.179000	4.54660	5	8	7	32,040.079782
5.5 AWG	0.171693	4.36100	5.5	7	8	29,477.639627
8 BWG	0.164000	4.16560	6	8	8	26,895.227547
6 AWG	0.162023	4.11538	6	7	8	26,250.698587
6.5 AWG	0.152897	3.88358	6.5	9	9	23,376.821207
9 BWG	0.147000	3.73380	7	9	9	21,608.379390
7 AWG	0.144285	3.66484	7	9	9	20,817.563327
9 SWG	0.144000	3.65760	7	9	9	20,735.404462
7.5 AWG	0.136459	3.46606	7.5	9	10	18,620.523884
10 BWG	0.134000	3.40360	8	10	10	17,955.484304
3.35 MM	0.131890	3.34999	8	9	10	17,394.340630
8 AWG	0.128500	3.26390	8	10	10	16,511.775768
10 SWG	0.128000	3.25120	8	10	10	16,383.529452
3.15 MM	0.124016	3.14999	8	10	11	15,379.402531
8.5 AWG	0.121253	3.07983	8.5	10	11	14,701.867759
11 BWG	0.120000	3.04800	9	11	11	14,399.586432
3 MM	0.118110	2.99999	9	10	11	13,949.571457
11 SWG	0.116000	2.94640	9	11	11	13,455.613544
9 AWG	0.114400	2.90576	9	11	11	13,086.984131
2.8 MM	0.110236	2.79999	9	11	12	12,151.626691
12 BWG	0.109000	2.76860	10	12	12	11,880.658778
9.5 AWG	0.107979	2.74267	9.5	11	12	11,659.129581
2.65 MM	0.104331	2.64999	10	11	12	10,884.540617
12 SWG	0.104000	2.64160	10	12	12	10,815.689364
10 AWG	0.101900	2.58826	10	12	12	10,383.311783
2.5 MM	0.098425	2.50000	10	12	13	9,687.202401

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10.5 AWG	0.096158	2.44241	10.5	12	13	9,246.095409
13 BWG	0.095000	2.41300	11	13	13	9,024.740802
2.36 MM	0.092913	2.36000	11	12	13	8,632.614798
13 SWG	0.092000	2.33680	11	13	13	8,463.756914
11 AWG	0.090700	2.30378	11	13	13	8,226.253735
2.24 MM	0.088189	2.24000	11	13	14	7,777.041082
11.5 AWG	0.085800	2.17932	11.5	13	14	7,361.428574
2.12 MM	0.083464	2.12000	12	14	14	6,966.105995
14 BWG	0.083000	2.10820	12	14	14	6,888.802148
12 AWG	0.080800	2.05232	12	14	14	6,528.452497
14 SWG	0.080000	2.03200	12	14	14	6,399.816192
2 MM	0.078740	2.00000	12	14	15	6,199.809536
12.5 AWG	0.076400	1.94056	12.5	14	15	5,836.792363
1.9 MM	0.074803	1.90000	13	15	15	5,595.328107
13 AWG	0.072000	1.82880	13	15	15	5,183.851116
15 SWG	0.072000	1.82880	13	15	15	5,183.851116
15 BWG	0.072000	1.82880	13	15	15	5,183.851116
1.8 MM	0.070866	1.80000	13	15	16	5,021.845724
13.5 AWG	0.068100	1.72974	13.5	15	16	4,637.476808
1.7 MM	0.066929	1.70000	14	16	16	4,479.362390
16 BWG	0.065000	1.65100	14	16	16	4,224.878658
14 AWG	0.064100	1.62814	14	16	16	4,108.691995
16 SWG	0.064000	1.62560	14	16	16	4,095.882363
1.6 MM	0.062992	1.60000	14	16	17	3,967.878103
14.5 AWG	0.060500	1.53670	14.5	16	17	3,660.144878
1.5 MM	0.059055	1.50000	15	17	17	3,487.392864
17 BWG	0.058000	1.47320	15	17	17	3,363.903386
15 AWG	0.057100	1.45034	15	17	17	3,260.316361
17 SWG	0.056000	1.42240	15	17	17	3,135.909934
1.4 MM	0.055118	1.40000	15	17	18	3,037.906673
15.5 AWG	0.053900	1.36906	15.5	16	18	2,905.126562
1.32 MM	0.051968	1.32000	16	17	18	2,700.637034

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1.3 MM	0.051200	1.30048	16	18	18	2,621.364712
16 AWG	0.050800	1.29032	16	18	18	2,580.565884
1.25 MM	0.049213	1.25000	16	18	18	2,421.800600
18 BWG	0.049000	1.24460	16	18	18	2,400.931043
18 SWG	0.048000	1.21920	16	18	18	2,303.933829
16.5 AWG	0.048000	1.21920	16.5	17	19	2,303.933829
1.2 MM	0.047200	1.19888	17	18	19	2,227.776016
1.18 MM	0.046457	1.18000	17	18	19	2,158.153700
17 AWG	0.045300	1.15062	17	18	19	2,052.031064
1.15 MM	0.045275	1.14999	17	18	19	2,049.766754
1.12 MM	0.044094	1.12000	17	19	19	1,944.260271
1.1 MM	0.043300	1.09982	17	19	20	1,874.836153
17.5 AWG	0.042700	1.08458	17.5	18	20	1,823.237635
19 BWG	0.042000	1.06680	18	19	19	1,763.949338
1.06 MM	0.041732	1.06000	18	19	20	1,741.526499
18 AWG	0.040300	1.02362	18	19	20	1,624.043356
19 SWG	0.040000	1.01600	18	19	19	1,599.954048
1 MM	0.039370	1.00000	18	20	20	1,549.952384
18.5 AWG	0.038000	0.96520	18.5	19	21	1,443.958528
.95 MM	0.037402	0.95000	19	20	21	1,398.832027
20 SWG	0.036000	0.91440	19	20	20	1,295.962779
19 AWG	0.035900	0.91186	19	20	21	1,288.772985
.9 MM	0.035433	0.90000	19	20	21	1,255.461431
20 BWG	0.035000	0.88900	19	20	20	1,224.964818
19.5 AWG	0.033900	0.86106	19.5	20	22	1,149.176995
.85 MM	0.033465	0.85000	20	21	21	1,119.840598
20 AWG	0.032000	0.81280	20	21	21	1,023.970591
21 SWG	0.032000	0.81280	20	21	21	1,023.970591
.8 MM	0.031496	0.80000	20	21	22	991.969526
21 BWG	0.031000	0.78740	20	21	21	960.972400
20.5 AWG	0.030200	0.76708	20.5	21	22	912.013806
.75 MM	0.029528	0.75000	21	22	22	871.848216

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21 AWG	0.028500	0.72390	21	22	22	812.226672
22 SWG	0.028000	0.71120	21	22	22	783.977484
22 BWG	0.028000	0.71120	21	22	22	783.977484
.71 MM	0.027953	0.71000	21	22	22	781.330997
.7 MM	0.027600	0.70104	21	22	23	761.738122
21.5 AWG	0.026900	0.68326	21.5	22	23	723.589218
.65 MM	0.025600	0.65024	22	23	23	655.341178
22 AWG	0.025300	0.64262	22	23	23	640.071617
23 BWG	0.025000	0.63500	22	23	23	624.982050
.63 MM	0.024803	0.63000	22	23	23	615.176101
23 SWG	0.024000	0.60960	22	23	23	575.983457
22.5 AWG	0.023900	0.60706	22.5	23	24	571.193595
.6 MM	0.023622	0.60000	23	23	24	557.982858
24 BWG	0.023000	0.58420	23	24	24	528.984807
23 AWG	0.022600	0.57404	23	24	24	510.745331
.56 MM	0.022100	0.56134	23	24	24	488.395973
24 SWG	0.022000	0.55880	23	24	24	483.986100
.55 MM	0.021700	0.55118	24	25	25	470.876476
23.5 AWG	0.021300	0.54102	23.5	24	25	453.676970
24 AWG	0.020100	0.51054	24	25	25	403.998397
25 SWG	0.020000	0.50800	24	25	25	399.988512
25 BWG	0.020000	0.50800	24	25	25	399.988512
.5 MM	0.019685	0.50000	24	25	25	387.488096
24.5 AWG	0.019000	0.48260	24.5	25	26	360.989632
26 SWG	0.018000	0.45720	25	26	26	323.990695
26 BWG	0.018000	0.45720	21	22	26	323.990695
25 AWG	0.017900	0.45466	25	26	26	320.400798
.45 MM	0.017717	0.45000	25	26	27	313.865358
25.5 AWG	0.016900	0.42926	25.5	26	27	285.601797
.425 MM	0.016732	0.42500	26	27	27	279.960149
27 SWG	0.016400	0.41656	26	27	27	268.952275
27 BWG	0.016000	0.40640	26	27	27	255.992648

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26 AWG	0.015900	0.40386	26	27	27	252.802739
.4 MM	0.015748	0.40000	26	27	28	247.992381
26.5 AWG	0.015000	0.38100	26.5	27	28	224.993538
28 SWG	0.014800	0.37592	27	28	28	219.033709
27 AWG	0.014200	0.36068	27	28	28	201.634209
.355 MM	0.013976	0.35500	27	28	29	195.332749
29 SWG	0.013600	0.34544	27	29	29	184.954688
28 BWG	0.013500	0.34290	28	28	28	182.244766
27.5 AWG	0.013400	0.34036	27.5	29	29	179.554843
29 BWG	0.013000	0.33020	28	29	29	168.995146
28 AWG	0.012600	0.32004	28	30	29	158.755440
.315 MM	0.012402	0.31500	28	30	30	153.794025
30 SWG	0.012400	0.31496	28	30	30	153.755584
30 BWG	0.012000	0.30480	29	30	30	143.995864
28.5 AWG	0.011900	0.30226	28.5	30	30	141.605933
.31 MM	0.011800	0.29972	29	31	31	139.236001
31 SWG	0.011600	0.29464	29	31	31	134.556135
29 AWG	0.011300	0.28702	29	31	30	127.686333
.28 MM	0.011024	0.28000	29	32	32	121.516267
32 SWG	0.010800	0.27432	29	32	32	116.636650
29.5 AWG	0.010600	0.26924	29.5	32	31	112.356773
30 AWG	0.010000	0.25400	30	33	31	99.997128
33 SWG	0.010000	0.25400	30	33	33	99.997128
31 BWG	0.010000	0.25400	30	33	31	99.997128
.25 MM	0.009843	0.25000	30	33	32	96.872024
30.5 AWG	0.009500	0.24130	30.5	33	32	90.247408
34 SWG	0.009200	0.23368	31	34	34	84.637569
32 BWG	0.009000	0.22860	31	31	32	80.997674
31 AWG	0.008900	0.22606	31	34	32	79.207725
.224 MM	0.008819	0.22400	31	35	33	77.770411
35 SWG	0.008400	0.21336	32	35	35	70.557974
31.5 AWG	0.008400	0.21336	31.5	34	33	70.557974

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32 AWG	0.008000	0.20320	32	35	33	63.998162
33 BWG	0.008000	0.20320	32	35	33	63.998162
.2 MM	0.007874	0.20000	32	36	34	61.998095
36 SWG	0.007600	0.19304	32	36	36	57.758341
32.5 AWG	0.007500	0.19050	32.5	35	34	56.248385
33 AWG	0.007100	0.18034	33	36	34	50.408552
.18 MM	0.007087	0.18000	33	36	35	50.218457
35 BWG	0.007000	0.17780	33	36	35	48.998593
37 SWG	0.006800	0.17272	33	37	34	46.238672
33.5 AWG	0.006700	0.17018	33.5	36	34	44.888711
34 AWG	0.006300	0.16002	34	37	34	39.688860
.16 MM	0.006299	0.16000	34	37	36	39.678781
38 SWG	0.006000	0.15240	34	38	36	35.998966
34.5 AWG	0.005900	0.14986	34.5	37	35	34.809000
35 AWG	0.005600	0.14224	35	38	35	31.359099
.14 MM	0.005512	0.14000	35	38	35	30.379067
35.5 AWG	0.005300	0.13462	35.5	38	35	28.089193
39 SWG	0.005200	0.13208	36	39	35	27.039223
36 AWG	0.005000	0.12700	36	39	35	24.999282
35 BWG	0.005000	0.12700	36	39	35	24.999282
.125 MM	0.004921	0.12500	36	39	35	24.218006
40 SWG	0.004800	0.12192	36	40	35	23.039338
36.5 AWG	0.004700	0.11938	36.5	39	35	22.089366
37 AWG	0.004500	0.11430	37	40	35	20.249418
.112 MM	0.004409	0.11200	37	40	36	19.442603
41 SWG	0.004400	0.11176	37	41	36	19.359444
37.5 AWG	0.004200	0.10668	37.5	41	36	17.639493
38 AWG	0.004000	0.10160	38	42	36	15.999540
42 SWG	0.004000	0.10160	38	42	36	15.999540
36 BWG	0.004000	0.10160	38	40	36	15.999540
.1 MM	0.003937	0.10000	38	42	--	15.499524
38.5 AWG	0.003700	0.09398	38.5	42	--	13.689607

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43 SWG	0.003600	0.09144	39	43	--	12.959628
.09 MM	0.003543	0.09000	39	43	--	12.554614
39 AWG	0.003500	0.08890	39	43	--	12.249648
39.5 AWG	0.003300	0.08382	39.5	43	--	10.889687
44 SWG	0.003200	0.08128	40	44	--	10.239706
.08 MM	0.003150	0.08000	40	44	--	9.919695
40 AWG	0.003100	0.07874	40	44	--	9.609724
40.5 AWG	0.003000	0.07620	40.5	44	--	8.999742
41 AWG	0.002800	0.07112	41	45	--	7.839775
45 SWG	0.002800	0.07112	41	45	--	7.839775
.071 MM	0.002795	0.07100	41	45	--	7.813310
41.5 AWG	0.002600	0.06604	41.5	45	--	6.759806
42 AWG	0.002500	0.06350	42	46	--	6.249821
.063 MM	0.002480	0.06300	42	46	--	6.151761
46 SWG	0.002400	0.06096	42	46	--	5.759835
42.5 AWG	0.002400	0.06096	42.5	46	--	5.759835
43 AWG	0.002200	0.05588	43	46	--	4.839861
43.5 AWG	0.002100	0.05334	43.5	47	--	4.409873
44 AWG	0.002000	0.05080	44	47	--	3.999885
47 SWG	0.002000	0.05080	44	47	--	3.999885
.05 MM	0.001969	0.05000	44	47	--	3.874881
44.5 AWG	0.001866	0.04740	44.5	47	--	3.481856
45 AWG	0.001761	0.04473	45	47	--	3.101032
45.5 AWG	0.001662	0.04221	45.5	48	--	2.762165
48 SWG	0.001600	0.04064	45.5	48	--	2.559926
46 AWG	0.001568	0.03983	46	48	--	2.458553
46.5 AWG	0.001480	0.03759	46.5	48	--	2.190337
47 AWG	0.001397	0.03548	47	48	--	1.951553
47.5 AWG	0.001318	0.03348	47.5	48	--	1.737074
48 AWG	0.001244	0.03160	48	49	--	1.547492
49 SWG	0.001200	0.03048	48	49	--	1.439959
48.5 AWG	0.001174	0.02982	48.5	49	--	1.378236

Cir Mills or CMA = Circular Mil Area which is equal to 1/1000 (0.001) of an inch in diameter or 0.000507 MM².

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BWG = Birmingham Wire Gauge, an old British wire measurement system that was widely used throughout the world.

Wire Dimension Chart

AWG • MM • SWG	Bare Dia Inch	Bare Dia MM	Approx. Nearest or Actual			Circular Mills
			AWG Nbr	SWG Nbr	BWG Nbr	
49 AWG	0.001108	0.02814	49	49	--	1.227629
49.5 AWG	0.001045	0.02654	49.5	49	--	1.091994
50 SWG	0.001000	0.02540	49	50	--	0.999971
50 AWG	0.000986	0.02505	50	50	--	0.972760
50.5 AWG	0.000931	0.02364	50.5	50	--	0.866364
51 AWG	0.000878	0.02231	51	--	--	0.771389
51.5 AWG	0.000829	0.02105	51.5	--	--	0.687055
52 AWG	0.000782	0.01987	52	--	--	0.611819
52.5 AWG	0.000738	0.01875	52.5	--	--	0.544776
53 AWG	0.000697	0.01769	53	--	--	0.485238
53.5 AWG	0.000657	0.01670	53.5	--	--	0.432031
54 AWG	0.000620	0.01576	54	--	--	0.384761
54.5 AWG	0.000585	0.01487	54.5	--	--	0.342683
55 AWG	0.000552	0.01403	55	--	--	0.305137
55.5 AWG	0.000521	0.01324	55.5	--	--	0.271746
56 AWG	0.000492	0.01249	56	--	--	0.241959
56.5 AWG	0.000464	0.01179	56.5	--	--	0.215475
57 AWG	0.000438	0.01113	57	--	--	0.191926
57.5 AWG	0.000413	0.01050	57.5	--	--	0.170895
58 AWG	0.000390	0.00991	58	--	--	0.152174
58.5 AWG	0.000368	0.00935	58.5	--	--	0.135494
59 AWG	0.000347	0.00882	59	--	--	0.120683
59.5 AWG	0.000328	0.00833	59.5	--	--	0.107450
60 AWG	0.000309	0.00786	60	--	--	0.095726

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