Joyal Wire Dimension Chart

AWG•MM•SWG	Bare Dia Inch	Bare Dia MM	Approx. Nearest or Actual AWG Nbr	SWG Nbr	BWG Nbr	Circular Mils
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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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AWG•MM•SWG	Bare Dia Inch	Bare Dia MM	Approx. Nearest or Actual AWG Nbr	SWG Nbr	BWG Nbr	Circular Mils
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
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

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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
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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