



WIRE GAUGE SYSTEMS AND OTHER DATA

| GAUGE NUMBERS | | | | DIAMETER | | | SECTIONAL AREA | | LENGTH: |
|------------------|-------------------------------|--------------------|---------------------------|--------------------|-----------|-------------------------|----------------|---------------|----------------|
| Steel Wire Gauge | American Wire Gauge (B. & S.) | Birmingham or Subs | British Imperial Standard | INCHES | | | Square Inches | Circular Mils | Feet per Pound |
| | | | | Reduction by 64ths | Decimally | Mill-meters (Decimally) | | | |
| 1 | 1 | 2 | | 19/64 | .3000 | 7.620 | .070686 | 90000 | 4.118 |
| | | | | | .296875 | 7.541 | .0692 | 88135 | 4.205 |
| | | | | | .2893 | 7.348 | .065733 | 83694 | 4.428 |
| | | | | | .2840 | 7.214 | .063347 | 80656 | 4.595 |
| 2 | | 3 | 2 | 9/32 | .28125 | 7.144 | .062126 | 79102 | 4.685 |
| | | | | | .2760 | 7.010 | .059829 | 76176 | 4.865 |
| | | | | | .265625 | 6.747 | .055415 | 70557 | 5.252 |
| | | | | | .2625 | 6.668 | .054119 | 68906 | 5.378 |
| | | | | | .2590 | 6.579 | .052685 | 67081 | 5.525 |
| 3 | | 4 | 3 | 1/4 | .2576 | 6.543 | .052117 | 66358 | 5.585 |
| | | | | | .2520 | 6.401 | .049876 | 63504 | 5.836 |
| | | | | | .2500 | 6.350 | .049087 | 62500 | 5.930 |
| | | | | | .2437 | 6.190 | .046645 | 59390 | 6.240 |
| 4 | | 5 | 4 | 15/64 | .2380 | 6.045 | .044488 | 56644 | 6.543 |
| | | | | | .234375 | 5.953 | .043144 | 54932 | 6.745 |
| | | | | | .2320 | 5.893 | .042273 | 53824 | 6.885 |
| | | | | | .2294 | 5.827 | .041331 | 52624 | 7.042 |
| 5 | | 6 | 5 | 7/32 | .2253 | 5.723 | .039967 | 50760 | 7.301 |
| | | | | | .2200 | 5.588 | .038013 | 48400 | 7.657 |
| | | | | | .21875 | 5.556 | .037583 | 47852 | 7.745 |
| | | | | | .2120 | 5.385 | .035299 | 44944 | 8.2446 |
| 6 | | 7 | 6 | 3/16 | .2070 | 5.258 | .033654 | 42849 | 8.649 |
| | | | | | .2043 | 5.189 | .032781 | 41738 | 8.879 |
| | | | | | .203125 | 5.159 | .032405 | 41260 | 8.984 |
| | | | | | .2030 | 5.156 | .032366 | 41209 | 8.993 |
| 7 | | 8 | 7 | 11/64 | .1920 | 4.877 | .028953 | 36864 | 10.05 |
| | | | | | .1875 | 4.763 | .027612 | 35156 | 10.54 |
| | | | | | .1819 | 4.620 | .025987 | 33088 | 11.20 |
| | | | | | .1800 | 4.572 | .02544 | 32400 | 11.44 |
| 8 | | 9 | 8 | 7/32 | .1770 | 4.496 | .024606 | 31329 | 11.83 |
| | | | | | .1760 | 4.470 | .024329 | 30976 | 11.96 |
| | | | | | .171875 | 4.366 | .023201 | 29541 | 12.54 |
| | | | | | .1650 | 4.191 | .021883 | 27225 | 13.61 |
| 9 | | 10 | 9 | 5/32 | .1620 | 4.115 | .020612 | 26244 | 14.12 |
| | | | | | .1600 | 4.064 | .020106 | 25600 | 14.48 |
| | | | | | .15625 | 3.969 | .019175 | 24414 | 15.18 |
| | | | | | .1483 | 3.767 | .017273 | 21993 | 16.85 |
| 10 | | 11 | 10 | 9/64 | .1480 | 3.759 | .017203 | 21904 | 16.92 |
| | | | | | .1443 | 3.665 | .016354 | 20822 | 17.80 |
| | | | | | .1440 | 3.658 | .016286 | 20736 | 17.87 |
| | | | | | .140625 | 3.572 | .015532 | 19775 | 18.75 |
| 11 | | 12 | 11 | 1/8 | .1350 | 3.429 | .014314 | 18225 | 20.33 |
| | | | | | .1340 | 3.404 | .014103 | 17956 | 20.64 |
| | | | | | .1285 | 3.264 | .012969 | 16512 | 22.44 |
| | | | | | .1280 | 3.251 | .012868 | 16384 | 22.62 |
| 12 | | 13 | 12 | 7/64 | .1250 | 3.175 | .012272 | 15625 | 23.72 |
| | | | | | .1205 | 3.061 | .011404 | 14520 | 25.52 |
| | | | | | .1200 | 3.048 | .011310 | 14400 | 25.74 |
| | | | | | .1160 | 2.946 | .010588 | 13456 | 27.54 |
| 13 | | 14 | 13 | 3/32 | .1144 | 2.906 | .010279 | 13087 | 28.32 |
| | | | | | .109375 | 2.778 | .009396 | 11963 | 30.97 |
| | | | | | .1090 | 2.769 | .009331 | 11881 | 31.19 |
| | | | | | .1055 | 2.680 | .008741 | 11130 | 33.80 |
| 14 | | 15 | 14 | 5/64 | .1040 | 2.642 | .008499 | 10816 | 34.26 |
| | | | | | .1019 | 2.588 | .008153 | 10384 | 35.69 |
| | | | | | .0950 | 2.413 | .007088 | 9025.0 | 41.06 |
| | | | | | .09375 | 2.381 | .006902 | 8789.1 | 42.17 |
| 15 | | 16 | 15 | | .0920 | 2.337 | .006647 | 8464.0 | 43.79 |
| | | | | | .0915 | 2.324 | .006575 | 8372.3 | 44.27 |
| | | | | | .0907 | 2.304 | .006461 | 8226.5 | 45.05 |
| | | | | | .0830 | 2.108 | .005410 | 6889.0 | 53.80 |
| 16 | | 17 | 16 | 1/16 | .0808 | 2.052 | .005127 | 6528.6 | 56.77 |
| | | | | | .0800 | 2.032 | .005026 | 6400.0 | 57.91 |
| | | | | | .078125 | 1.984 | .004793 | 6103.5 | 60.72 |
| | | | | | .0720 | 1.829 | .004075 | 5184.0 | 71.49 |
| 17 | | 18 | 17 | | .0650 | 1.651 | .003318 | 4225.0 | 87.42 |
| | | | | | .0641 | 1.626 | .003227 | 4108.8 | 90.20 |
| | | | | | .0640 | 1.626 | .003217 | 4096.0 | 90.48 |
| | | | | | .0625 | 1.588 | .003068 | 3906.3 | 94.87 |
| 18 | | 19 | 18 | 3/64 | .0580 | 1.473 | .002642 | 3364.0 | 110.2 |
| | | | | | .0571 | 1.450 | .002567 | 3260.4 | 113.7 |
| | | | | | .0560 | 1.422 | .002463 | 3136.0 | 118.2 |
| | | | | | .0540 | 1.372 | .002290 | 2916.0 | 127.1 |
| 19 | | 20 | 19 | | .0508 | 1.290 | .002026 | 2580.6 | 143.6 |
| | | | | | .0490 | 1.245 | .001885 | 2401.0 | 154.4 |
| | | | | | .0480 | 1.219 | .001809 | 2304.0 | 160.9 |
| | | | | | .0475 | 1.207 | .001772 | 2256.3 | 164.3 |
| 20 | | 21 | 20 | | .046875 | 1.191 | .001725 | 2197.3 | 168.7 |
| | | | | | .0453 | 1.151 | .001611 | 2052.1 | 180.6 |
| | | | | | .0420 | 1.067 | .001385 | 1764.0 | 210.1 |
| | | | | | .0410 | 1.041 | .001320 | 1681.0 | 220.5 |

| GAUGE NUMBERS | | | | DIAMETER | | | SECTIONAL AREA | | LENGTH: | | | |
|------------------|-------------------------------|--------------------|---------------------------|--------------------|-----------|-------------------------|----------------|---------------|----------------|------------|--------|---------|
| Steel Wire Gauge | American Wire Gauge (B. & S.) | Birmingham or Subs | British Imperial Standard | INCHES | | | Square Inches | Circular Mils | Feet per Pound | | | |
| | | | | Reduction by 64ths | Decimally | Mill-meters (Decimally) | | | | | | |
| 18 | 18 | 20 | | 19 | .0403 | 1.024 | .0012756 | 1624.1 | 228.2 | | | |
| | | | | | .0400 | 1.016 | .0012566 | 1600.0 | 231.6 | | | |
| | | | | | .0360 | 9144 | .0010179 | 1296.0 | 286.0 | | | |
| | | | | | .0359 | 9119 | .0010122 | 1288.8 | 287.6 | | | |
| 19 | 19 | 21 | | 20 | .0350 | 8890 | .00096211 | 1225.0 | 302.5 | | | |
| | | | | | 20 | 21 | 21 | .0348 | 8839 | .00095115 | 1211.0 | 306.0 |
| | | | | | | | | .0320 | 8128 | .00080425 | 1024.0 | 361.9 |
| | | | | | | | | .0317 | 8052 | .00078924 | 1004.9 | 368.8 |
| .03125 | 7938 | .00076699 | 976.56 | 379.5 | | | | | | | | |
| 20 | 20 | 22 | 21 | 1/32 | .0285 | 7239 | .00063794 | 812.25 | 456.3 | | | |
| | | | | | .0280 | 7112 | .00061575 | 784.00 | 472.7 | | | |
| | | | | | .0258 | 6553 | .00052279 | 665.64 | 556.8 | | | |
| | | | | | .0253 | 6426 | .00050273 | 640.09 | 579.0 | | | |
| 21 | 21 | 23 | 22 | | .0250 | 6350 | .00049087 | 625.00 | 593.0 | | | |
| | | | | | 22 | 23 | 23 | .0240 | 6096 | .00045239 | 576.00 | 643.4 |
| | | | | | | | | .0230 | 5842 | .00041548 | 529.00 | 700.6 |
| | | | | | | | | .0226 | 5740 | .00040115 | 510.76 | 725.6 |
| .0220 | 5588 | .00038013 | 484.00 | 765.7 | | | | | | | | |
| 22 | 22 | 24 | 24 | | .0204 | 5182 | .00032685 | 416.16 | 890.5 | | | |
| | | | | | 24 | 25 | 25 | .0201 | 5105 | .00031731 | 404.01 | 917.3 |
| | | | | | | | | .0200 | 5080 | .00031416 | 400.00 | 926.5 |
| | | | | | | | | .0181 | 4597 | .00025730 | 327.61 | 1131.1 |
| .0180 | 4572 | .00025447 | 324.00 | 1144.4 | | | | | | | | |
| 23 | 23 | 26 | 26 | | .0179 | 4547 | .00025165 | 320.41 | 1157.7 | | | |
| | | | | | 26 | 27 | 27 | .0173 | 4394 | .00023506 | 299.29 | 1238.1 |
| | | | | | | | | .0164 | 4166 | .00021124 | 268.96 | 1378.1 |
| | | | | | | | | .0162 | 4115 | .00020612 | 262.44 | 1412.2 |
| .0160 | 4064 | .00020106 | 256.00 | 1448.1 | | | | | | | | |
| 24 | 24 | 29 | 29 | 1/64 | .0159 | 4039 | .00019856 | 252.81 | 1466.1 | | | |
| | | | | | 29 | 30 | 30 | .015625 | 3969 | .00019175 | 244.14 | 1518.1 |
| | | | | | | | | .0150 | 3810 | .00017671 | 225.00 | 1647.1 |
| | | | | | | | | .0148 | 3759 | .00017203 | 219.04 | 1711.1 |
| .0142 | 3607 | .00015837 | 201.64 | 1860.1 | | | | | | | | |
| 25 | 25 | 30 | 30 | | .0140 | 3556 | .00015394 | 196.00 | 1912.1 | | | |
| | | | | | 30 | 31 | 31 | .0136 | 3454 | .00014527 | 184.96 | 2004.1 |
| | | | | | | | | .0132 | 3353 | .00013685 | 174.24 | 2127.1 |
| | | | | | | | | .0130 | 3302 | .00013273 | 169.00 | 2193.1 |
| .0128 | 3251 | .00012868 | 163.84 | 2262.1 | | | | | | | | |
| 26 | 26 | 32 | 32 | | .0126 | 3200 | .00012489 | 158.75 | 2334.1 | | | |
| | | | | | 32 | 33 | 33 | .0124 | 3150 | .00012076 | 153.76 | 2410.1 |
| | | | | | | | | .0120 | 3048 | .00011310 | 144.00 | 2574.1 |
| | | | | | | | | .0118 | 2997 | .00010936 | 139.24 | 2662.1 |
| .0116 | 2946 | .00010568 | 134.56 | 2754.1 | | | | | | | | |
| 27 | 27 | 34 | 34 | | .0113 | 2870 | .00010229 | 127.69 | 2902.1 | | | |
| | | | | | 34 | 35 | 35 | .0108 | 2743 | .000091609 | 116.64 | 3177.1 |
| | | | | | | | | .0104 | 2642 | .000084949 | 108.16 | 3426.1 |
| | | | | | | | | .0100 | 2540 | .000078540 | 100.00 | 3706.1 |
| .0095 | 2413 | .000070882 | 90.25 | 4106.1 | | | | | | | | |
| 28 | 28 | 35 | 35 | | .0092 | 2337 | .000066476 | 84.64 | 4379.1 | | | |
| | | | | | 35 | 36 | 36 | .0092 | 2286 | .000063617 | 81.00 | 4575.1 |
| | | | | | | | | .00893 | 2268 | .000062631 | 79.74 | 4647.1 |
| | | | | | | | | .0085 | 2159 | .000056745 | 72.25 | 5129.1 |
| .0084 | 2134 | .000055418 | 70.56 | 5252.1 | | | | | | | | |
| 29 | 29 | 36 | 36 | | .0080 | 2032 | .000050266 | 64.00 | 5791.1 | | | |
| | | | | | 36 | 37 | 37 | .00795 | 2019 | .000049639 | 63.20 | 5864.1 |
| | | | | | | | | .0076 | 1930 | .000045365 | 57.76 | 6416.1 |
| | | | | | | | | .0075 | 1905 | .000044179 | 56.25 | 6588.1 |
| .00708 | 1798 | .000039369 | 50.13 | 7393.1 | | | | | | | | |
| 30 | 30 | 37 | 37 | | .0070 | 1778 | .000038485 | 49.00 | 7563.1 | | | |
| | | | | | 37 | 38 | 38 | .0068 | 1727 | .000036317 | 46.24 | 8015.1 |
| | | | | | | | | .0066 | 1676 | .000034212 | 43.56 | 8508.1 |
| | | | | | | | | .0063 | 1600 | .000031173 | 39.69 | 9337.1 |
| .0062 | 1575 | .000030191 | 38.44 | 9641.1 | | | | | | | | |
| 31 | 31 | 38 | 38 | | .0060 | 1524 | .000028274 | 36.00 | 10294.1 | | | |
| | | | | | 38 | 39 | 39 | .0058 | 1473 | .000026421 | 33.64 | 11017.1 |
| | | | | | | | | .00581 | 1425 | .000024718 | 31.47 | 11776.1 |
| | | | | | | | | .0055 | 1397 | .000023758 | 30.24 | 12251.1 |
| .0052 | 1321 | .000021237 | 27.04 | 13706.1 | | | | | | | | |
| 32 | 32 | 40 | 40 | | .0050 | 1270 | .000019365 | 25.00 | 14824.1 | | | |
| | | | | | 40 | 41 | | | | | | |