

WIRE conversion table

From Felix HB9ABX @ HB9EAS.CHE.EU

(Reformatted by G8MNY Dec 05)

WIRE Conversion Table SWG/W&M/AWG/BWG

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For homebrewing, the correct wire size is frequently required
 This is somewhat simplified from my homepage <http://home.tiscali.ch/hb9abx>

- SWG = Standard Wire Gauge (British)
- W&M = Washburn & Moen
- AWG = American Wire Gauge or B&S = Brown & Sharpe
- BWG = Birmingham Wire Gauge or Stubs' Wire Gauge

| Durchm mm | Durchm Inches | Querschnitt mm*mm | SWG --- | BWG --- | W&M --- | AWG --- |
|--------------|------------------|----------------------|------------|------------|------------|------------|
| 7.7 | 0.3031 | 46.57 | | | | |
| 7.62 | 0.3 | 45.6 | 1 | 1 | | |
| 7.541 | 0.2969 | 44.666 | | | | |
| 7.5 | 0.2953 | 44.18 | | | | |
| 7.4 | 0.2913 | 43 | | | | |
| 7.348 | 0.2893 | 42.41 | | | | 1 |
| 7.2136 | 0.284 | 40.87 | | 2 | | |
| 7.188 | 0.283 | 40.58 | | | 1 | |
| 7.142 | 0.2812 | 40.07 | | | | |
| 7.01 | 0.276 | 38.59 | 2 | | | |
| 7.0 | 0.2756 | 38.48 | | | | |
| 6.9 | 0.2717 | 37.39 | | | | |
| 6.746 | 0.2656 | 35.74 | | | | |
| 6.667 | 0.2625 | 34.92 | | | 2 | |
| 6.6 | 0.2598 | 34.21 | | | | |
| 6.579 | 0.259 | 33.99 | | 3 | | |
| 6.543 | 0.2576 | 33.62 | | | | 2 |
| 6.5 | 0.2559 | 33.18 | | | | |
| 6.4 | 0.252 | 32.17 | 3 | | | |
| 6.3 | 0.25 | 31.67 | | | | |
| 6.2 | 0.2441 | 30.19 | | | | |
| 6.19 | 0.2437 | 30.09 | | | 3 | |
| 6.1 | 0.2402 | 29.22 | | | | |
| 6.045 | 0.238 | 28.7 | | 4 | | |
| 6.0 | 0.2362 | 29.27 | | | | |
| 5.94 | 0.2344 | 27.84 | | | | |
| 5.89 | 0.232 | 27.25 | 4 | | | |
| 5.827 | 0.2294 | 26.66 | | | | 3 |
| 5.8 | 0.2283 | 26.42 | | | | |
| 5.723 | 0.2253 | 25.72 | | | 4 | |
| 5.588 | 0.22 | 24.52 | | 5 | | |
| 5.55625 | 0.21875 | 24.246 | | | | |
| 5.38 | 0.212 | 22.73 | 5 | | | |
| 5.3 | 0.2087 | 22.06 | | | | |
| 5.258 | 0.207 | 21.71 | | | 5 | |
| 5.2047 | 21.237 | | | | | |
| 5.189 | 0.2043 | 21.15 | | | | 4 |
| 5.156 | 0.203 | 20.88 | | 6 | | |
| 5.1 | 0.2008 | 20.428 | | | | |
| 5.0 | 0.1968 | 19.635 | | | | |

| | | | | | |
|--------|---------|---------|----|----|-----|
| 4.9 | 0.1929 | 18.857 | | | |
| 4.88 | 0.192 | 18.7 | 6 | 6 | |
| 4.8 | 0.189 | 18.095 | | | |
| 4.7625 | 0.1875 | 17.81 | | | |
| 4.7 | 0.185 | 17.349 | | | |
| 4.8 | 0.1819 | 18.1 | | | 5 |
| 4.572 | 0.18 | 16.42 | | 7 | |
| 4.496 | 0.177 | 15.875 | | | 7 |
| 4.47 | 0.176 | 15.69 | 7 | | |
| 4.4 | 0.1732 | 15.2 | | | |
| 4.366 | 0.1719 | 14.97 | | | |
| 4.3 | 0.1693 | 14.52 | | | |
| 4.19 | 0.165 | 13.795 | | 8 | |
| 4.115 | 0.162 | 13298 | | | 8 6 |
| 4.1 | 0.1614 | 13.2 | | | |
| 4.06 | 0.16 | 12.9 | | | |
| 4.0 | 0.1575 | 12.566 | | | |
| 3.969 | 0.15625 | 12.37 | | | |
| 3.9 | 0.1535 | 11.946 | | | |
| 3.8 | 0.1496 | 11.34 | | | |
| 3.76 | 0.148 | 11.099 | | 9 | 9 |
| 3.7338 | 0.147 | 10.949 | | | |
| 3.66 | 0.144 | 10.52 | 9 | | 7 |
| 3.57 | 0.1406 | 10.02 | | | |
| 3.5 | 0.1378 | 9.62 | | | |
| 3.429 | 0.135 | 9.23 | | | 10 |
| 3.4 | 0.134 | 9.098 | | 10 | |
| 3.3 | 0.1299 | 8.553 | | | |
| 3.25 | 0.128 | 8.296 | 10 | | 8 |
| 3.175 | 0.125 | 7.917 | | | |
| 3.048 | 0.12 | 7.2966 | | 11 | 11 |
| 3.0 | 0.1181 | 7.068 | | | |
| 2.95 | 0.116 | 6.835 | 11 | | |
| 2.9 | 0.1144 | 6.63 | | | 9 |
| 2.85 | 0.1122 | 6.379 | | | |
| 2.8 | 0.1102 | 6.153 | | | |
| 2.769 | 0.109 | 6.022 | | | |
| 2.7 | 0.1063 | 5.725 | | | |
| 2.68 | 0.1055 | 5.64 | | | 12 |
| 2.64 | 0.104 | 5.474 | 12 | | |
| 2.6 | 0.1024 | 5.31 | | | |
| 2.586 | 0.1018 | 5.25 | | | 10 |
| 2.55 | 0.1004 | 5.1 | | | |
| 2.5 | 0.0984 | 4.9 | | | |
| 2.45 | 0.0965 | 4.71 | | | |
| 2.413 | 0.095 | 4.573 | | 13 | |
| 2.38 | 0.0938 | 4.458 | | | |
| 2.34 | 0.092 | 4.3 | 13 | | |
| 2.324 | 0.0915 | 4.242 | | | 13 |
| 2.3 | 0.0907 | 4.168 | | | 11 |
| 2.2 | 0.0866 | 3.8 | | | |
| 2.108 | 0.083 | 3.49 | | 14 | |
| 2.1 | 0.0827 | 3.46 | | | |
| 2.05 | 0.0807 | 3.3 | | | |
| 2.03 | 0.08 | 3.237 | 14 | 14 | 12 |
| 2.0 | 0.0787 | 3.14159 | | | |

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|---------|---------|---------|----|----|----|-------|
| 1.98 | 0.0781 | 3.09 | | | | |
| 1.95 | 0.0768 | 2.986 | | | | |
| 1.85 | 0.0728 | 2.688 | | | | |
| 1.83 | 0.072 | 2.63 | 15 | 15 | 15 | 13 |
| 1.784 | 0.0702 | 2.5 | | | | |
| 1.7 | 0.0669 | 2.269 | | | | |
| 1.651 | 0.065 | 2.14 | | 16 | | |
| 1.63 | 0.064 | 2.086 | 16 | | | 14 |
| 1.6 | 0.063 | 2.011 | | | | |
| 1.5875 | 0.0625 | 1.98 | | | 16 | |
| 1.5 | 0.059 | 1.767 | | | | |
| 1.473 | 0.058 | 1.7 | | 17 | | |
| 1.448 | 0.057 | 1.646 | | | | 15 |
| 1.42 | 0.056 | 1.584 | 17 | | | |
| 1.4 | 0.055 | 1.539 | | | | |
| 1.382 | 0.0544 | 1.5 | | | 17 | |
| 1.3 | 0.0512 | 1.327 | | | | |
| 1.29 | 0.0508 | 1.3 | | | | 16 |
| 1.2446 | 0.049 | 1.2166 | | 18 | | |
| 1.22 | 0.048 | 1.169 | 18 | | | |
| 1.2065 | 0.0475 | 1.143 | | | 18 | |
| 1.181 | 0.0465 | 1.0956 | | | | |
| 1.148 | 0.0452 | 1.035 | | | | 17 |
| 1.128 | 0.0444 | 1 | | | | |
| 1.1 | 0.0433 | 0.95 | | | | |
| 1.067 | 0.042 | 0.8938 | | 19 | | |
| 1.041 | 0.041 | 0.852 | | | 19 | |
| 1.02 | 0.04 | 0.8171 | 19 | | | 18 |
| 1.0 | 0.0394 | 0.787 | | | | |
| 0.98 | 0.0386 | 0.754 | | | | |
| 0.95 | 0.0374 | 0.709 | | | | |
| 0.9144 | 0.036 | 0.6567 | 20 | | | 19 |
| 0.889 | 0.035 | 0.6207 | | 20 | | |
| 0.9652 | 0.0348 | 0.732 | | | 20 | |
| 0.85 | 0.0335 | 0.569 | | | | |
| 0.813 | 0.032 | 0.519 | 21 | 21 | | |
| 0.81 | 0.0319 | 0.5156 | | | 21 | 20 |
| 0.79 | 0.0312 | 0.49 | | | | |
| 0.75 | 0.0295 | 0.442 | | | | |
| 0.71112 | 0.028 | 0.3973 | 22 | 22 | 22 | 21 |
| 0.66 | 0.026 | 0.3425 | | | 23 | |
| 0.635 | 0.025 | 0.3167 | | 23 | | 22 |
| 0.61 | 0.024 | 0.2922 | 23 | | | |
| 0.579 | 0.0228 | 0.2634 | | | 24 | |
| 0.5715 | 0.0225 | 0.2565 | | | | 23 |
| 0.5588 | 0.022 | 0.2453 | 24 | 24 | | |
| 0.52 | 0.0205 | 0.21237 | | | | |
| 0.508 | 0.02 | 0.2027 | 25 | 25 | 25 | 24 |
| 0.4572 | 0.018 | 0.16417 | 26 | 26 | 26 | 25 |
| 0.45 | 0.0177 | 0.159 | | | | |
| 0.44168 | 0.01739 | 0.1532 | | | | 25.25 |
| 0.439 | 0.0173 | 0.152 | | | 27 | |
| 0.42906 | 0.01689 | 0.14458 | | | | 25.5 |
| 0.417 | 0.0164 | 0.1366 | 27 | | 28 | 25.75 |
| 0.406 | 0.016 | 0.1297 | | 27 | | 26 |

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|---------|---------|----------|----|----|----------|
| 0.3988 | 0.0157 | 0.1249 | | | |
| 0.396 | 0.0156 | 0.1232 | | | |
| 0.39332 | 0.01549 | 0.1215 | | | 26.25 |
| 0.38209 | 0.01504 | 0.11466 | | | 26.5 |
| 0.378 | 0.0149 | 0.111 | | | 29 |
| 0.3759 | 0.0148 | 0.1109 | 28 | | |
| 0.37117 | 0.01461 | 0.1082 | | | 26.75 |
| 0.3569 | 0.01405 | 0.1 | | 28 | 30 |
| 0.35027 | 0.01379 | 0.09636 | | | 27.25 |
| 0.345 | 0.0136 | 0.0935 | 29 | | |
| 0.34026 | 0.0134 | 0.09093 | | | 27.5 |
| 0.33 | 0.013 | 0.0856 | | 29 | 31 27.75 |
| 0.325 | 0.0128 | 0.083 | | | 32 |
| 0.32 | 0.0126 | 0.0805 | | | 28 |
| 0.315 | 0.0124 | 0.07791 | | 30 | |
| 0.31192 | 0.01228 | 0.07641 | | | 28.25 |
| 0.3048 | 0.012 | 0.073 | | 30 | |
| 0.30301 | 0.01193 | 0.07211 | | | 28.5 |
| 0.2998 | 0.0118 | 0.07055 | | | 33 |
| 0.295 | 0.0116 | 0.06835 | 31 | | 28.75 |
| 0.2845 | 0.0112 | 0.06356 | | | 29 |
| 0.27777 | 0.01094 | 0.060598 | | | 29.25 |
| 0.2743 | 0.0108 | 0.0591 | 32 | | |
| 0.26984 | 0.01062 | 0.05719 | | | 29.5 |
| 0.2641 | 0.0104 | 0.0548 | | | 34 |
| 0.26213 | 0.01032 | 0.053966 | | | 29.75 |
| 0.254 | 0.01 | 0.05067 | 33 | 31 | 30 |
| 0.24736 | 0.00974 | 0.04805 | | | 30.25 |
| 0.2413 | 0.0095 | 0.04573 | | | 35 |
| 0.2403 | 0.00946 | 0.45352 | | | 30.5 |
| 0.2337 | 0.0092 | 0.04289 | 34 | | 30.75 |
| 0.226 | 0.0089 | 0.0401 | | 32 | 36 31 |
| 0.22028 | 0.00867 | 0.0381 | | | 31.25 |
| 0.213 | 0.0084 | 0.03563 | 35 | | 37 31.5 |
| 0.20788 | 0.00818 | 0.03394 | | | 31.75 |
| 0.2 | 0.0079 | 0.03162 | | 33 | 38 32 |
| 0.19617 | 0.00772 | 0.03022 | | | 32.25 |
| 0.193 | 0.0076 | 0.02927 | 36 | | 39 |
| 0.19056 | 0.0075 | 0.2852 | | | 32.5 |
| 0.18512 | 0.00729 | 0.0269 | | | 32.75 |
| 0.1778 | 0.007 | 0.0248 | | 34 | 40 33 |
| 0.17469 | 0.00688 | 0.2397 | | | 33.25 |
| 0.173 | 0.0068 | 0.0235 | 37 | | |
| 0.1697 | 0.00668 | 0.0226 | | | 33.5 |
| 0.1676 | 0.0066 | 0.02207 | | | 41 |
| 0.16485 | 0.00649 | 0.02134 | | | 33.75 |
| 0.16 | 0.0063 | 0.02 | | | 42 34 |
| 0.15557 | 0.00612 | 0.019 | | | 34.25 |
| 0.1524 | 0.006 | 0.018241 | 38 | | 43 |
| 0.15112 | 0.00595 | 0.01794 | | | 34.5 |
| 0.1473 | 0.0058 | 0.017 | | | 44 34.75 |
| 0.142 | 0.0056 | 0.01589 | | | 45 35 |
| 0.13854 | 0.00545 | 0.01507 | | | 35.25 |
| 0.13458 | 0.0053 | 0.01422 | | | 35.5 |
| 0.132 | 0.0052 | 0.013685 | 39 | | 46 |
| 0.13074 | 0.00515 | 0.013425 | | | 35.75 |
| 0.127 | 0.005 | 0.0127 | | 35 | 47 36 |
| 0.1219 | 0.0048 | 0.011675 | 40 | | 48 |

| | | | | | |
|---------|---------|----------|----|----|------|
| 0.11985 | 0.00472 | 0.01128 | | | 36.5 |
| 0.1168 | 0.0046 | 0.01072 | | 49 | |
| 0.112 | 0.0044 | 0.00985 | 41 | 50 | 37 |
| 0.10673 | 0.0042 | 0.00895 | | | 37.5 |
| 0.102 | 0.004 | 0.00817 | 42 | 36 | 38 |
| 0.09504 | 0.00374 | 0.00709 | | | 38.5 |
| 0.091 | 0.0036 | 0.0065 | 43 | | 39 |
| 0.08464 | 0.00333 | 0.005626 | | | 39.5 |
| 0.081 | 0.0032 | 0.005153 | 44 | | 40 |
| 0.071 | 0.0028 | 0.003959 | 45 | | 41 |
| 0.06325 | 0.00249 | 0.003142 | | | 42 |
| 0.061 | 0.0024 | 0.002922 | 46 | | |
| 0.0564 | 0.00222 | 0.0025 | | | 43 |
| 0.051 | 0.002 | 0.00204 | 47 | | 44 |
| 0.0447 | 0.00176 | 0.00157 | | | 45 |
| 0.041 | 0.0016 | 0.00132 | 48 | | 46 |
| 0.03556 | 0.0014 | 0.000993 | | | 47 |
| 0.0315 | 0.00124 | 0.000779 | | | 48 |
| 0.03 | 0.0012 | 0.000707 | 49 | | |
| 0.282 | 0.00111 | 0.000624 | | | 49 |
| 0.025 | 0.001 | 0.000491 | 50 | | 50 |
| 0.022 | 0.00088 | 0.000392 | | | 51 |
| 0.0198 | 0.00078 | 0.000308 | | | 52 |
| 0.8 | 0.0007 | 0.000248 | | | 53 |
| 0.0157 | 0.00062 | 0.000195 | | | 54 |
| 0.014 | 0.00055 | 0.000153 | | | 55 |
| 0.0125 | 0.00049 | 0.000122 | | | 56 |

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