

Conductors

Table 1: Solid Copper Wire, American Wire Gage

| Gage (AWG) | Nominal OD | | Nominal Circular MIL Area | Nominal Weight (Lbs. per 1000 Ft.) | Nominal Resistance @ 68°F (Ω /1000 Ft.) |
|---------------|------------|------|------------------------------|---------------------------------------|---|
| | Inches | mm | | | |
| 10 | .1019 | 2.60 | 10380.0 | 31.43 | .9989 |
| 11 | .0907 | 2.30 | 8234.0 | 24.92 | 1.260 |
| 12 | .0808 | 2.05 | 6530.0 | 19.77 | 1.588 |
| 13 | .0720 | 1.83 | 5178.0 | 15.68 | 2.003 |
| 14 | .0641 | 1.63 | 4107.0 | 12.43 | 2.525 |
| 15 | .0571 | 1.45 | 3260.0 | 9.858 | 3.184 |
| 16 | .0508 | 1.29 | 2583.0 | 7.818 | 4.016 |
| 17 | .0453 | 1.15 | 2050.0 | 6.200 | 5.064 |
| 18 | .0403 | 1.02 | 1620.0 | 4.917 | 6.385 |
| 19 | .0359 | .912 | 1200.0 | 3.899 | 8.051 |
| 20 | .0320 | .813 | 1020.0 | 3.092 | 10.15 |
| 21 | .0285 | .724 | 812.1 | 2.452 | 12.80 |
| 22 | .0253 | .643 | 640.4 | 1.945 | 16.14 |
| 23 | .0226 | .574 | 511.5 | 1.542 | 20.36 |
| 24 | .0201 | .511 | 404.0 | 1.223 | 25.67 |
| 25 | .0179 | .455 | 320.4 | .9699 | 32.37 |
| 26 | .0159 | .404 | 253.0 | .7692 | 40.81 |
| 27 | .0142 | .361 | 201.5 | .6100 | 51.47 |
| 28 | .0126 | .320 | 159.8 | .4837 | 64.90 |
| 29 | .0113 | .287 | 126.7 | .3836 | 81.83 |
| 30 | .0100 | .254 | 100.5 | .3042 | 103.2 |
| 31 | .0089 | .226 | 79.7 | .2413 | 130.1 |
| 32 | .0080 | .203 | 63.21 | .1913 | 164.1 |
| 33 | .0071 | .180 | 50.13 | .1517 | 206.9 |
| 34 | .0063 | .160 | 39.75 | .1203 | 260.9 |
| 35 | .0056 | .142 | 31.52 | .09542 | 331.0 |
| 36 | .0050 | .127 | 25.00 | .07568 | 414.8 |
| 37 | .0045 | .114 | 19.83 | .0613 | 512.1 |
| 38 | .0040 | .102 | 15.72 | .04759 | 648.6 |
| 39 | .0035 | .089 | 12.20 | .03774 | 847.8 |
| 40 | .0031 | .079 | 9.61 | .02993 | 1080.0 |

Information from National Bureau of Standards Copper Wire Tables — Handbook 100.

Unparalleled Performance

Belden is one of only a very few cable manufacturers to draw and anneal its own conductors. This is a time-consuming process, but it allows us to ensure signal integrity, as well as proper physical characteristics.

In addition, the standards under which we design and manufacture our fiber optic cabling are among the strictest in the industry. The result is a comprehensive offering of products which give unparalleled performance and can satisfy your most demanding operating and environmental challenges.