

Solid & Stranded Conductor Properties

| AWG Size | Total Strands/ Strand Size | Type | STRAND DETAIL | | NOMINAL DIAMETER | | NOMINAL CROSS SECTION | | | | APPROX. WEIGHT | | NOM. BREAK STRENGTH | | MAX. DC RESISTANCE | |
|----------|-------------------------------|------|---------------|-------------|------------------|-------|-----------------------|---------|-----------|-------|----------------|--------|---------------------|-------|--------------------|----------|
| | | | Lay-up | Strand Size | Inches | mm | Circ Mils | % Solid | Sq Inches | Sq mm | Lbs/ 1,000' | Kg/ Km | Lbs | Kg | Ohms/ 1,000' | Ohms/ Km |
| 13 | 210/36 | RB | 7 x 30 / | 36 | 0.0921 | 2.339 | 5250.0 | 101.27% | 0.004123 | 2.660 | 17.0 | 25.3 | 144.00 | 65.5 | 2.203 | 7.228 |
| 13 | 504/40 | RB | 7 x 72 / | 40 | 0.0884 | 2.245 | 4843.4 | 93.43% | 0.003804 | 2.454 | 15.7 | 23.4 | 133.00 | 60.4 | 2.449 | 8.034 |
| 13 | 525/40 | RB | 7 x 75 / | 40 | 0.0902 | 2.291 | 5045.3 | 97.32% | 0.003963 | 2.557 | 16.4 | 24.3 | 139.00 | 62.9 | 2.351 | 7.713 |
| 13 | 546/40 | RB | 7 x 3 x 26 / | 40 | 0.10040 | 2.550 | 5247.1 | 101.22% | 0.004121 | 2.659 | 17.9 | 26.6 | 144.00 | 65.4 | 2.373 | 7.787 |
| 13 | 805.42 | RB | 7 x 115 / | 42 | 0.0901 | 2.289 | 5031.3 | 97.05% | 0.003952 | 2.550 | 16.3 | 24.2 | 138.00 | 62.7 | 2.395 | 7.860 |
| 13 | 1296/44 | RB | 4 x 4 x 81 / | 44 | 0.0998 | 2.535 | 5184.0 | 100.00% | 0.004072 | 2.627 | 17.6 | 26.2 | 143.00 | 64.6 | 2.493 | 8.179 |
| 13 | 1323/44 | RB | 7 x 7 x 27 / | 44 | 0.1008 | 2.560 | 5292.0 | 102.08% | 0.004156 | 2.682 | 18.0 | 26.8 | 145.00 | 66.0 | 2.442 | 8.012 |
| 12 | 1/12 | S | 1 / | 12 | 0.0808 | 2.052 | 6528.6 | 100.00% | 0.005128 | 3.308 | 19.8 | 29.4 | 179.00 | 81.4 | 1.620 | 5.317 |
| 12 | 7/20 | C | 7 / | 20 | 0.096 | 2.438 | 7168.0 | 109.79% | 0.005630 | 3.632 | 22.4 | 33.3 | 197.00 | 89.4 | 1.519 | 4.983 |
| 12 | 19/25 | C | 19 / | 25 | 0.0895 | 2.273 | 6087.8 | 93.25% | 0.004781 | 3.085 | 19.0 | 28.2 | 167.00 | 75.9 | 1.795 | 5.888 |
| 12 | 37/28 | C | 37 / | 28 | 0.0882 | 2.240 | 5874.1 | 89.97% | 0.004614 | 2.977 | 18.3 | 27.3 | 161.00 | 73.2 | 1.848 | 6.062 |
| 12 | 41/28 | B | 41 / | 28 | 0.0932 | 2.367 | 6509.2 | 99.70% | 0.005112 | 3.298 | 20.1 | 29.9 | 179.00 | 81.2 | 1.651 | 5.418 |
| 12 | 49/29 | RC | 7 x 7 / | 29 | 0.1017 | 2.583 | 6256.8 | 95.84% | 0.004914 | 3.171 | 20.5 | 30.5 | 172.00 | 78.0 | 1.825 | 5.987 |
| 12 | 63/30 | RB | 7 x 9 / | 30 | 0.1008 | 2.560 | 6300.0 | 96.50% | 0.004948 | 3.192 | 20.4 | 30.4 | 173.00 | 78.6 | 1.799 | 5.902 |
| 12 | 65/30 | B | 65 / | 30 | 0.0931 | 2.365 | 6500.0 | 99.46% | 0.005105 | 3.294 | 20.1 | 29.9 | 179.00 | 81.0 | 1.660 | 5.448 |
| 12 | 168/34 | RB | 7 x 24 / | 34 | 0.1037 | 2.634 | 6667.9 | 102.13% | 0.005237 | 3.379 | 21.6 | 32.2 | 183.00 | 83.1 | 1.720 | 5.643 |
| 12 | 259/36 | RB | 7 x 37 / | 36 | 0.1022 | 2.596 | 6475.0 | 99.18% | 0.005085 | 3.281 | 21.0 | 31.2 | 178.00 | 80.7 | 1.786 | 5.860 |
| 12 | 413/38 | RB | 7 x 59 / | 38 | 0.1033 | 2.624 | 6608.0 | 101.22% | 0.005190 | 3.349 | 21.4 | 31.9 | 182.00 | 82.4 | 1.768 | 5.801 |
| 12 | 665/40 | RB | 7 x 95 / | 40 | 0.1016 | 2.581 | 6390.7 | 97.89% | 0.005190 | 3.238 | 20.7 | 30.8 | 176.00 | 79.7 | 1.856 | 6.089 |
| 12 | 672/40 | RB | 7 x 95 / | 40 | 0.1021 | 2.593 | 6457.9 | 98.92% | 0.005072 | 3.272 | 20.9 | 31.2 | 178.00 | 80.5 | 1.837 | 6.026 |
| 12 | 704/40 | RB | 4 x 4 x 44 / | 40 | 0.1140 | 2.896 | 6765.4 | 103.63% | 0.005314 | 3.428 | 23.0 | 34.3 | 186.00 | 84.4 | 1.841 | 6.039 |
| 12 | 1050/42 | RB | 7 x 150 / | 42 | 0.1029 | 2.614 | 6562.5 | 100.52% | 0.005154 | 3.325 | 21.3 | 31.6 | 180.00 | 81.8 | 1.837 | 6.026 |
| 12 | 1666/44 | RB | 7 x 7 x 34 / | 44 | 0.1131 | 2.873 | 6664.0 | 102.07% | 0.005234 | 3.377 | 22.7 | 33.7 | 183.00 | 83.1 | 1.939 | 6.362 |
| 11 | 1/11 | S | 1 / | 11 | 0.0907 | 2.304 | 8226.5 | 100.00% | 0.006461 | 4.169 | 24.9 | 37.1 | 226.00 | 103.0 | 1.286 | 4.220 |
| 11 | 19/24 | C | 19 / | 24 | 0.1005 | 2.553 | 7676.2 | 93.31% | 0.002609 | 3.890 | 23.9 | 35.6 | 211.00 | 95.7 | 1.420 | 4.658 |
| 11 | 37/27 | C | 37 / | 27 | 0.0994 | 2.525 | 7460.7 | 90.69% | 0.005860 | 3.781 | 23.3 | 34.6 | 205.00 | 93.0 | 1.452 | 4.765 |
| 11 | 56/28 | B | 56 / | 28 | 0.1089 | 2.766 | 8090.6 | 108.07% | 0.006983 | 4.505 | 27.5 | 40.8 | 244.00 | 111.0 | 1.209 | 3.967 |
| 11 | 119/32 | RB | 7 x 17 / | 32 | 0.1109 | 2.817 | 7616.0 | 92.58% | 0.005982 | 3.859 | 24.7 | 36.7 | 209.00 | 95.0 | 1.496 | 4.907 |
| 11 | 210/34 | RB | 7 x 30 / | 34 | 0.1160 | 2.946 | 8334.9 | 101.32% | 0.006546 | 4.224 | 27.0 | 40.2 | 229.00 | 104.0 | 1.376 | 4.515 |
| 11 | 224/34 | RB | 7 x 32 / | 34 | 0.1198 | 3.043 | 8890.6 | 108.07% | 0.006983 | 4.505 | 28.8 | 42.9 | 244.00 | 111.0 | 1.290 | 4.232 |
| 11 | 301/36 | RB | 7 x 43 / | 36 | 0.1102 | 2.799 | 7525.0 | 91.47% | 0.005910 | 3.813 | 24.4 | 36.3 | 207.00 | 93.8 | 1.537 | 5.043 |
| 11 | 329/36 | RB | 7 x 47 / | 36 | 0.1152 | 2.820 | 8225.0 | 99.98% | 0.006460 | 4.168 | 26.7 | 39.7 | 226.00 | 103.0 | 1.406 | 4.613 |
| 11 | 735/40 | RB | 7 x 105 / | 40 | 0.1068 | 2.713 | 7063.4 | 85.86% | 0.005548 | 3.579 | 22.9 | 34.1 | 194.00 | 88.1 | 1.679 | 5.509 |
| 11 | 833/40 | RB | 7 x 119 / | 40 | 0.1137 | 2.888 | 8005.1 | 97.31% | 0.006287 | 4.057 | 26.0 | 38.6 | 220.00 | 100.0 | 1.482 | 4.861 |
| 11 | 861/40 | RB | 7 x 3 x 41 / | 40 | 0.1261 | 3.203 | 8274.2 | 100.58% | 0.006499 | 4.193 | 28.2 | 41.9 | 227.00 | 103.0 | 1.505 | 4.938 |
| 11 | 2058/44 | RB | 7 x 7 x 42 / | 44 | 0.1258 | 3.195 | 8232.0 | 100.07% | 0.006465 | 4.171 | 28.0 | 41.7 | 226.00 | 103.0 | 1.570 | 5.151 |
| 11 | 2303/44 | RB | 7 x 7 x 47 / | 44 | 0.1330 | 3.378 | 9212.0 | 111.98% | 0.007235 | 4.668 | 31.3 | 46.6 | 253.00 | 115.0 | 1.403 | 4.603 |
| 10 | 1/10 | S | 1 / | 10 | 0.1019 | 2.588 | 10384.0 | 100.00% | 0.008155 | 5.262 | 31.4 | 46.8 | 285.00 | 129.0 | 1.019 | 3.342 |
| 10 | 7/19 | C | 7 / | 19 | 0.1077 | 2.736 | 9021.7 | 86.88% | 0.007086 | 4.572 | 28.1 | 41.9 | 248.00 | 112.0 | 1.211 | 3.973 |
| 10 | 19/23 | C | 19 / | 23 | 0.1130 | 2.87 | 9704.4 | 93.46% | 0.007622 | 4.918 | 30.3 | 45.0 | 267.00 | 121.0 | 1.120 | 3.676 |
| 10 | 37/26 | C | 37 / | 26 | 0.1113 | 2.827 | 9354.0 | 90.08% | 0.007347 | 4.740 | 29.2 | 43.4 | 257.00 | 117.0 | 1.171 | 3.843 |
| 10 | 49/27 | RC | 7 x 7 / | 27 | 0.1278 | 3.246 | 9880.4 | 95.15% | 0.00760 | 5.007 | 32.3 | 48.1 | 272.00 | 123.0 | 1.151 | 3.778 |
| 10 | 65/28 | B | 65 / | 28 | 0.1173 | 2.979 | 10319.0 | 99.38% | 0.008105 | 5.229 | 31.9 | 47.4 | 284.00 | 129.0 | 1.042 | 3.417 |
| 10 | 105/30 | B | 105 / | 30 | 0.1184 | 3.007 | 10500.0 | 101.12% | 0.008247 | 5.321 | 32.4 | 48.2 | 289.00 | 131.0 | 1.028 | 3.373 |
| 10 | 105/30 | RB | 7 x 15 / | 30 | 0.1302 | 3.307 | 10500.0 | 101.12% | 0.008247 | 5.321 | 34.0 | 50.7 | 289.00 | 131.0 | 1.079 | 3.541 |



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