



Bare Copper Solid Conductor

Bare or Tinned, Soft (Annealed), Medium Hard, Hard Drawn

Applications:

For use in electrical grounding systems, and on insulators for overhead transmission and distribution applications.

Standards:

ASTM B-1 (Hard Drawn)
ASTM B-2 (Medium Hard Drawn)
ASTM B-3 (Soft or Annealed)
ASTM B-33 (Tinned Soft or Annealed)
REA/RUS Approved
Federal standard QQ-W-343
RoHS Compliant

| Part Number | Size AWG or MCM | Nominal Dia. (inch) | Approx. Net Weight per 1000ft. (lbs.) | Hard Drawn | | Medium Hard Drawn | | Soft (Annealed) | | Ampacity* | |
|--------------------------|-----------------|---------------------|---------------------------------------|-------------------------------|--------------------------------------|-------------------------------|---------------------------------------|---------------------------------------|--------|-----------|-----|
| | | | | Min. Breaking Strength (lbs.) | DC Resistance (Ohms/1000ft.) @ 20° C | Min. Breaking Strength (lbs.) | DC Resistance (Ohms/1000 ft.) @ 20° C | DC Resistance (Ohms/1000 ft.) @ 20° C | | | |
| | | | | | | | | Bare | Tinned | | |
| SOLID BARE COPPER | BSOS18 | 18 | .0403 | 4.920 | 85 | 6.6400 | 67 | 6.6100 | 6.3900 | 6.6400 | - |
| | BSOS16 | 16 | .0508 | 7.820 | 135 | 4.1800 | 106 | 4.1600 | 4.0200 | 4.1800 | - |
| | BSOS14 | 14 | .0641 | 12.430 | 214 | 2.6300 | 167 | 2.6100 | 2.5200 | 2.6200 | - |
| | BSOS12 | 12 | .0808 | 19.770 | 337 | 1.6500 | 262 | 1.6400 | 1.5900 | 1.6500 | - |
| | BSOS10 | 10 | .1019 | 31.430 | 529 | 1.0390 | 410 | 1.0330 | .9988 | 1.0430 | - |
| | BSOS8 | 8 | .1285 | 49.980 | 826 | .6532 | 644 | .6498 | .6281 | .6426 | 98 |
| | BSOS6 | 6 | .1620 | 79.460 | 1,280 | .4110 | 1010 | .4088 | .3952 | .4109 | 124 |
| | BSOS4 | 4 | .2043 | 126.400 | 1,970 | .2584 | 1584 | .2571 | .2485 | .2528 | 155 |
| | BSOS2 | 2 | .2576 | 200.900 | 3,002 | .1625 | 2450 | .1617 | .1563 | .1580 | 209 |
| | BSOS1 | 1 | .2893 | 253.300 | 3,688 | .1289 | 3024 | .1282 | .1239 | - | - |
| | BSOS1/0 | 1/0 | .3249 | 319.500 | 4,518 | .1011 | 3731 | .1016 | .0982 | - | 282 |
| | BSOS2/0 | 2/0 | .3648 | 402.800 | 5,519 | .0802 | 4600 | .0798 | .0779 | - | 329 |
| | BSOS3/0 | 3/0 | .4096 | 507.800 | 6,720 | .0636 | 5666 | .0633 | .0618 | - | 382 |
| | BSOS4/0 | 4/0 | .4600 | 640.500 | 8,143 | .0504 | 6980 | .0502 | .0490 | - | 444 |

* Per NEC Table 310-21. Based on conductor temperature of 80° C; ambient temperature of 40° C; 2 ft./sec. wind.
NOTE: The data shown is approximate and subject to standard industry tolerances.