

Stranded Bare Copper

CONSTRUCTION AT A GLANCE

CONDUCTOR TYPE **1**
COPPER

APPLICATIONS

- Suitable for use in substations as uninsulated hook ups, jumpers, and grounds

CONSTRUCTION DETAILS

- Bare copper conductor
- Available in soft-drawn (annealed), medium-hard-drawn, or hard-drawn tempers
- Concentric-lay or combination unilay stranded, depending on stranding and temper

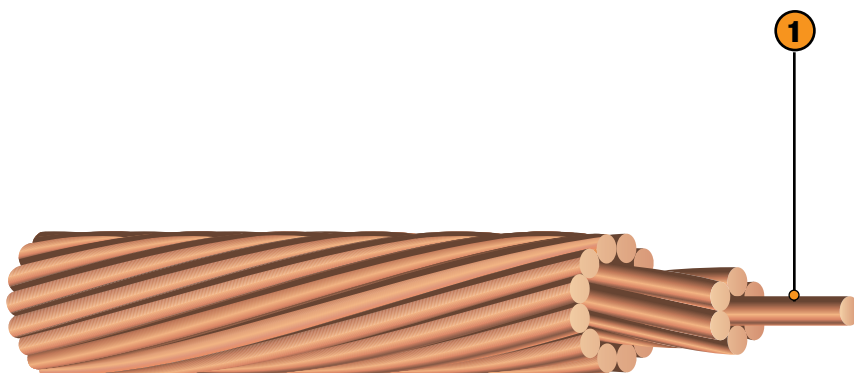
SPECIFICATIONS

Southwire's Bare Copper Conductor meets or exceeds applicable ASTM specifications:

- **B 1:** Hard-Drawn Copper Wire
- **B 2:** Medium-Hard-Drawn Copper Wire
- **B 3:** Soft or Annealed Copper Wire
- **B 8:** Concentric-Lay-Stranded Copper Conductor, Hard, Medium-Hard or Soft
- **B 787:** 19 Wire Combination Unilay-Stranded Copper Conductor

OPTIONS

- Solid (1 strand)
- Stranded (7, 19, 37, 61 strands)



| Size (AWG or kcmil) | Stranding | Stranding Class | Weight (lbs/1000 ft) | Diameter (inches) | | Hard Drawn | | Medium-Hard Drawn | | Soft Drawn (Annealed) | | Allowable Ampacity+ |
|---------------------|-----------|-----------------|----------------------|-------------------|----------------|----------------------|------------------------------------|----------------------|------------------------------------|-----------------------|------------------------------------|---------------------|
| | | | | Individual | Complete Cable | Rated Strength (lbs) | R _{dc} @ 20°C (Ω/1000 ft) | Rated Strength (lbs) | R _{dc} @ 20°C (Ω/1000 ft) | Rated Strength (lbs) | R _{dc} @ 20°C (Ω/1000 ft) | |
| 8 | 7 | B | 51 | 0.049 | 0.146 | 777 | 0.6663 | 610 | 0.6629 | 499 | 0.6408 | 95 |
| 6 | 7 | B | 81 | 0.061 | 0.184 | 1228 | 0.4191 | 959 | 0.4169 | 794 | 0.4030 | 130 |
| 4 | 7 | A, B | 129 | 0.077 | 0.232 | 1938 | 0.2636 | 1505 | 0.2622 | 1320 | 0.2534 | 170 |
| 3 | 7 | A, B | 163 | 0.087 | 0.260 | 2433 | 0.2090 | 1885 | 0.2079 | 1670 | 0.2010 | 200 |
| 2 | 7 | A, B | 205 | 0.097 | 0.292 | 3050 | 0.1660 | 2360 | 0.1650 | 2110 | 0.1578 | 230 |
| 1 | 7 | A | 258 | 0.109 | 0.328 | 3801 | 0.1316 | 2955 | 0.1309 | 2552 | 0.1252 | 265 |
| 1/0 | 7 | A, AA | 326 | 0.123 | 0.368 | 4752 | 0.1042 | 3705 | 0.1037 | 3221 | 0.1002 | 310 |
| 1/0 | 19 | B | 326 | 0.075 | 0.373 | 4752 | 0.1042 | 3705 | 0.1037 | 3221 | 0.1002 | 310 |
| 2/0 | 7 | A, AA | 411 | 0.138 | 0.414 | 5926 | 0.0827 | 4640 | 0.0822 | 4062 | 0.0795 | 355 |
| 2/0 | 19 | B | 411 | 0.084 | 0.418 | 6690 | 0.0827 | 4765 | 0.0822 | 4024 | 0.0795 | 355 |
| 3/0 | 7 | A, AA | 518 | 0.155 | 0.464 | 7366 | 0.0656 | 5812 | 0.0652 | 5118 | 0.0630 | 410 |
| 4/0 | 7 | A, AA | 653 | 0.174 | 0.522 | 9154 | 0.0520 | 7278 | 0.0517 | 6459 | 0.0500 | 480 |
| 4/0 | 19 | B | 653 | 0.106 | 0.528 | 9617 | 0.0520 | 7479 | 0.0517 | 6453 | 0.0500 | 480 |
| 250 | 19 | A | 772 | 0.115 | 0.574 | 11360 | 0.0440 | 8836 | 0.0438 | 7627 | 0.0423 | 530 |
| 250 | 37 | B | 772 | 0.082 | 0.575 | 11600 | 0.0440 | 8952 | 0.0438 | 7940 | 0.0423 | 530 |
| 300 | 19 | A | 926 | 0.126 | 0.628 | 13510 | 0.0367 | 10530 | 0.0365 | 9160 | 0.0353 | 590 |
| 350 | 19 | A | 1081 | 0.136 | 0.679 | 15590 | 0.0314 | 12200 | 0.0313 | 10680 | 0.0302 | 650 |
| 500 | 37 | A, B | 1544 | 0.116 | 0.814 | 22510 | 0.0220 | 17550 | 0.0219 | 15240 | 0.0212 | 810 |
| 600 | 37 | A, AA | 1853 | 0.127 | 0.891 | 27020 | 0.0183 | 21060 | 0.0183 | 18300 | 0.0176 | 910 |
| 750 | 61 | A, B | 2316 | 0.111 | 0.998 | 34090 | 0.0147 | 26510 | 0.0146 | 22890 | 0.0141 | 1040 |
| 1000 | 61 | A, B | 3088 | 0.128 | 1.152 | 45030 | 0.0110 | 35100 | 0.0109 | 30500 | 0.0106 | 1240 |

+ Ampacity based on 75°C conductor temperature; 25°C ambient temperature; 2 ft./sec. wind in sun.

* Numbers shown above are for concentrically stranded constructions and may vary slightly for combination unilay stranded constructions. Dimensions and weights shown above are nominal and subject to industry tolerances.



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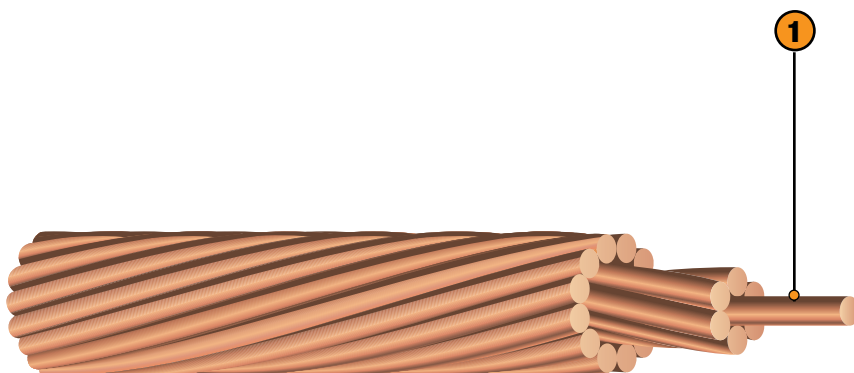
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