# Bare Copper Solid or Compressed

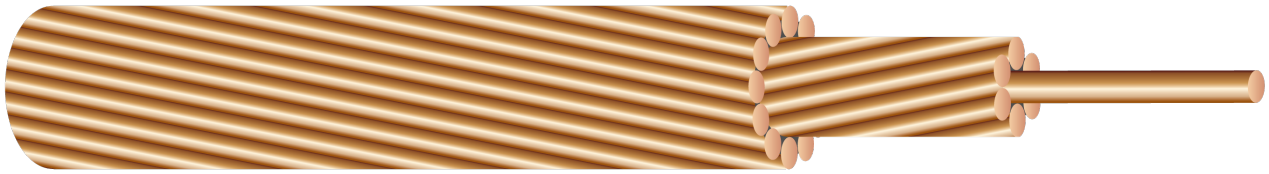

Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Solid bare copper per ASTM B3 or Class A, B, or C, compressed, stranded, bare copper per ASTM B3 and B8

## APPLICATIONS AND FEATURES:

Bare copper conductors are suitable for overhead transmission and distribution as well as grounding and general electrical constructions. Stranded conductors (Class A) are ideal for Overhead transmission and distribution lines. More flexible stranded designs (Class B and C) work well for uninsulated connections, jumpers, grounding, or insulated cables for general wiring and underground systems.

### Features:

- The conductor is manufactured from Electrolytic Tough Pitch (ETP) copper, designated as Unified Numbering System (UNS) C11000, which applies to all copper products regardless of temper or stranding classification.
- Soft-drawn copper exhibits an electrical conductivity of 100% at 20°C in accordance with the International Annealed Copper Standard (IACS).
- Copper purity is at least 99.9%, with total impurities, including oxygen and other trace elements, limited to a maximum of 0.1%.

## SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors

### Table 1 – Physical and Electrical Data

| Stock Number | Cond. Size | Strand Class | Strand Count | Cond. Cmil | Cond. Number | Diameter Over Conductor | Approx. OD | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG/ kcmil | | No. of Strands | cmil | No. | inch | inch | lb/1000ft | Ω/1000ft | Ω/1000ft |
| 550247◊ | 18 | B | 7 | 1620 | 1 | 0.046 | 0.045 | 4 | 6.669 | 8.277 |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.



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