


# ANNEALED COPPER CONDUCTOR

Solid or Stranded  
Bare or Tin Coated

| <p><b>APPLICATION:</b> For use on insulators for overhead distribution or for ground conductors</p> <p><b>STANDARDS:</b></p> <ol style="list-style-type: none"> <li>1. Conforms to ASTM B-3 "Soft or Annealed Copper Wire."</li> <li>2. Conforms to ASTM B-8 for "Concentric-Lay Stranded Copper Conductors."</li> <li>3. Conforms to ASTM B-33 for "Tinned Soft or Annealed Copper for Electrical Purposes."</li> <li>4. Conforms to Federal Standard QQ-W-343.</li> </ol> <p><b>CONSTRUCTION:</b> Soft or annealed, bare or tin coated, solid or concentric stranded copper conductor.</p> |                   |  |                   |                            |
|--|-------------------|--|-------------------|----------------------------|
| USAWC Part #   | Size AWG or kcmil | No. of Strands   | Nom. Diam. Inches | Copper Weight lbs/ 1000 ft |
| <b>Solid Bare</b>  |                   |  |                   |                            |
| 14-01SOLSDBC   | 14                | Solid  | .0641             | 12                         |
| 12-01SOLSDBC   | 12                | Solid  | .0808             | 20                         |
| 10-01SOLSDBC   | 10                | Solid  | .1019             | 31                         |
| 8-01SOLSDBC  | 8                 | Solid  | .1285             | 50                         |
| 6-01SOLSDBC  | 6                 | Solid  | .1620             | 79                         |
| 4-01SOLSDBC  | 4                 | Solid  | .2043             | 126                        |
| 2-01SOLSDBC  | 2                 | Solid  | .2576             | 201                        |
| <b>Solid Tinned</b>  |                   |  |                   |                            |
| 8-01SOLSDBC  | 8                 | Solid  | .1285             | 50                         |
| 6-01SOLSDBC  | 6                 | Solid  | .1620             | 79                         |
| 4-01SOLSDBC  | 4                 | Solid  | .2043             | 126                        |
| 2-01SOLSDBC  | 2                 | Solid  | .2576             | 201                        |
| <b>Stranded Bare</b>   |                   |  |                   |                            |
| 8-01STRSDBC  | 8                 | 7  | .142              | 51                         |
| 6-01STRSDBC  | 6                 | 7  | .179              | 81                         |
| 4-01STRSDBC  | 4                 | 7  | .225              | 129                        |
| 3-01STRSDBC  | 3                 | 7  | .260              | 163                        |
| 2-01STRSDBC  | 2                 | 7  | .283              | 205                        |
| 1-01STRSDBC  | 1                 | 7  | .328              | 258                        |
| 1/0-01STRSDBC  | 1/0               | 19   | .362              | 326                        |
| 2/0-01STRSDBC  | 2/0               | 19   | .406              | 411                        |
| 3/0-01STRSDBC  | 3/0               | 19   | .456              | 518                        |
| 4/0-01STRSDBC  | 4/0               | 19   | .512              | 653                        |
| 250-01STRSDBC  | 250               | 37   | .558              | 772                        |
| 350-01STRSDBC  | 350               | 37   | .661              | 1081                       |
| 400-01STRSDBC  | 400               | 37   | .728              | 1235                       |
| 500-01STRSDBC  | 500               | 37   | .789              | 1544                       |
| 600-01STRSDBC  | 600               | 61   | .893              | 1853                       |
| 750-01STRSDBC  | 750               | 61   | .998              | 2316                       |
| 1000-01STRSDBC   | 1000              | 61   | 1.152             | 3088                       |
| <b>Stranded Tinned</b>   |                   |  |                   |                            |
| 8-01STRSDTC  | 8                 | 7  | .146              | 51                         |
| 6-01STRSDTC  | 6                 | 7  | .184              | 81                         |
| 4-01STRSDTC  | 4                 | 7  | .232              | 129                        |
| 2-01STRSDTC  | 2                 | 7  | .292              | 205                        |
| 1/0-01STRSDTC  | 1/0               | 19   | .373              | 326                        |
| 2/0-01STRSDTC  | 2/0               | 19   | .419              | 411                        |
| 3/0-01STRSDTC  | 3/0               | 19   | .470              | 518                        |
| 4/0-01STRSDTC  | 4/0               | 19   | .528              | 653                        |
| 250-01STRSDTC  | 250               | 37   | .575              | 772                        |
| 350-01STRSDTC  | 350               | 37   | .681              | 1081                       |
| 500-01STRSDTC  | 500               | 37   | .813              | 1544                       |
| <b>Class A Stranded - Bare</b>   |                   |  |                   |                            |
| 1/0-01STRSDBCCA  | 1/0               | 7  | .368              | 326                        |
| 2/0-01STRSDBCCA  | 2/0               | 7  | .414              | 411                        |
| 3/0-01STRSDBCCA  | 3/0               | 7  | .464              | 518                        |
| 4/0-01STRSDBCCA  | 4/0               | 7  | .522              | 653                        |
| 250-01STRSDBCCA  | 250               | 19   | .574              | 772                        |
| 350-01STRSDBCCA  | 350               | 19   | .679              | 1081                       |
| 500-01STRSDBCCA  | 500               | 37   | .813              | 1544                       |

## **Specification**

### **ANNEALED COPPER CONDUCTOR**

#### **Solid or Stranded Bare or Tin Coated**

##### **1. SCOPE**

- 1.1 This specification describes solid and stranded annealed or soft drawn bare or tin coated uninsulated copper wire for all applicable uses.

##### **2. STANDARDS**

- 2.1 American Society for Testing Materials, ASTM Specification B-3, latest revision, Soft or Annealed Copper Wire.
- 2.2 American Society for Testing Materials, ASTM Specification B-8, latest revision, Concentric-lay-Stranded Copper Conductors.
- 2.3 American Society for Testing Materials, ASTM Specification B-33, latest revision, Tinned Soft or Annealed Copper Wire for Electrical Purposes.
- 2.4 Federal Specification QQ-W-343, latest revision, Wire, Electrical, Copper, Uninsulated.

##### **3. CONDUCTOR**

- 3.1 Solid conductors and individual members of stranded conductors shall meet the requirements of ASTM B3.
- 3.2 Stranded conductors shall be assembled in accordance with the requirements of ASTM B8.
- 3.3 Tinned conductors shall meet the requirements of ASTM B33.

##### **4. TESTS**

- 4.1 Copper conductors shall be tested to meet the requirements of the ASTM standards. Certified Test Reports may be furnished if requested prior to manufacture of the conductor.

##### **5. PACKAGING**

- 5.1 Conductors shall be packaged in accordance with standard commercial practice.