

TINNED BARE COPPER

DESCRIPTION:

Stranded soft drawn tinned bare copper conductor is used primarily in applications involving current flow, corrosion resistance, or the need to solder the wire to some component. The addition of a tin coating facilitates the soldering process with only a small price differential over bare copper. A tin coating is also desirable in applications where operating temperatures exceed 100°C up to 150°C. At such temperatures the corrosion resistance of bare copper declines and the tin coating acts to protect the surface of the bare copper. The standard minimum thickness of tin coating is 40 micro-inches.

STANDARDS AND SPECIFICATIONS:

- ASTM B33-81
- Bare conductor prior to coating meets B3-74
- ARRA 2009 Section 1605 "Buy American" Compliant

| Conductor | | | Overall Diameter Inches | | | | |
|------------|-----------|------------------------|-------------------------|---------|---------|----------------------------------|--------------|
| Size (AWG) | Stranding | Individual Strand Size | Nominal | Minimum | Maximum | Maximum Resistance OHM/MFT 68° F | Bare WT./MFT |
| 2/0 | 19 | 0.0837 | 0.4180 | 0.4138 | 0.4305 | 0.043 | 410.9 |
| 4/0 | 19 | 0.1147 | 0.5280 | 0.5227 | 0.5438 | 0.0524 | 653.3 |