

**Tests Results and Analyses
Provided By
California Fine Wire Company**

I. General, Material Properties

- Diameter
- Length
- Ultimate Tensile Strength (UTS)
- Yield Tensile Strength (YTS)
- Elongation
- Breaking Load - Gram (GBL) or Pound (PBL)
- Shear Strength – Single and Double
- Resistance (Electrical)
- TCR: Temperature Coefficient Of Resistance (Electrical)
- Shift Test (Spooling)
- Visual Inspection
- Straightness; Degree Of Curl
- Chemical Analysis
- Coiling Test, ASTM
- Wrap Test, ASTM
- Torsion – Outside Process
- Material Safety Data Sheet (MSD)
- Statistical Process Control (SPC)

II. Insulated Wire

- Pin Hole Test On Insulated Wire Or Ribbon (Wet/Voltage)
- High Voltage - AC And DC (Dry or Wet)
- Bond Test (Enamel Bond Coat)
- Solderability
- Mandrel Testing (Insulated Wire Or Ribbon)
- Degree Of Cure (Insulated Wire Or Ribbon)
- CFW NMP Test
- Adhesion (Insulated Wire Or Ribbon)
- Thickness (Insulated Wire Or Ribbon)
- Bend Test (Insulated Wire Or Ribbon)
- Bake Test (Insulated Wire Or Ribbon)
- Adhesion And Flexibility (NEMA)

III. Plated Wire

- Adhesion (Plated Wire Or Ribbon)
- Thickness (Plated Wire Or Ribbon)-See Metallographic
- Bend Test (Plated Wire Or Ribbon)

IV. Microstructure and Microscope Based Inspection

- Grain Size
- General Microstructure Cross Section
- Coating Thickness
- Surface Finish and Condition

Note: Not All Tests Are Performed Or Provided Unless Requested.