



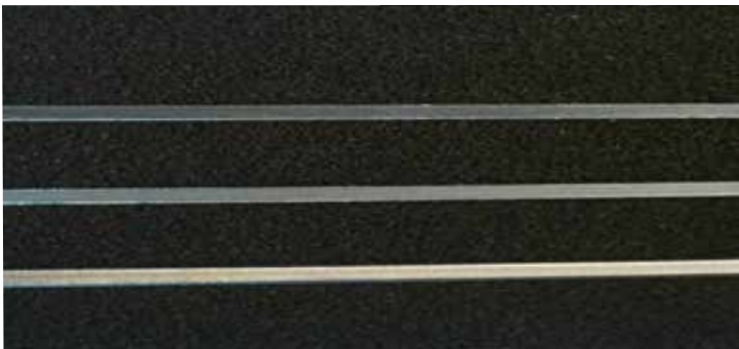
Plated wire

Round, square and flat plated wire

Luvata manufacturers round, square and flat copper and copper alloy based wire, with a variety of plating options including tin and nickel as single layer or multi-layer.

Industry applications:

- Electronics and electrical connectors
- Automotive connectors and terminals, including data connectivity systems and power distribution boxes
- E-mobility including EV production, charging infrastructure and energy storage



Advantages of Accurate Wire's electro-degreasing process

Dirt, debris and heavily oxidized areas can interrupt or hamper plating adhesion, leading to isolated defects that are detrimental in end-use applications. Other plating companies typically offer the industry standard single electro-degreasing process and often extend the use of electro-degreasing chemistries to reduce costs.

At Accurate Wire, we utilize an alkaline bipolar degreasing system with two separate bath sections dedicated to electrically activated degreasing and surface oxide removal. The system also utilizes both air wipes and a 5-step rinse between baths. The bath includes an acid activation with rapid agitation prior to each plating bath to ensure uniform surface preparation that will result in consistent plating thickness and uniform surface quality.

About Luvata

Luvata is a world leader in metal solutions manufacturing and related engineering services to industries such as renewable energy, automotive, healthcare, and power generation and distribution.

The company's continued success is attributed to its longevity, technological excellence and strategy of building partnerships beyond metals. Employing approximately 1,400 staff in 6 countries, Luvata works in partnership with customers such as ABB, CERN, Siemens and Toyota. Luvata is a group company of Mitsubishi Materials Corporation.

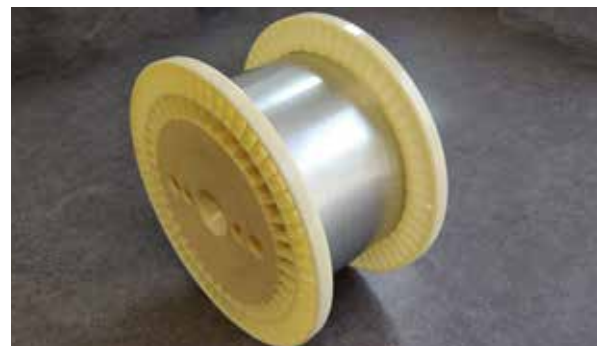
Base alloys

Alloy	CDA
High performance copper alloys	C151, C19210, C194, C197
Copper	C101, C102, C110
Brass	C210, C220, C230, C260
Phosphorous bronzes	C510, C511, C519, C521



Wire shapes and specification

Shape	Specifications
Round wire	0.010" to 0.100" (0.25 mm - 2.5 mm)
Square wire	0.010" to 0.0600" (0.254 mm - 1.52 mm)
Flat rectangular wire	thickness from 0.001" - 0.125" (0.025 mm - 3.2 mm) width 0.005" - 0.500" (0.125 mm - 13 mm)



Plating specifications

Material	Thickness (µm)
Nickel (Ni)	0 – 5.0 µm (0 – 200 µin)
Copper (Cu)	0 – 3.8 µm (0 – 150 µin)
Tin (Sn)	0 – 10.0 µm (0 – 400 µin)



Plating options

Single layer	nickel, copper or tin
Multi-layer	Ni-Sn, Cu-Sn, Ni-Cu-Sn (other layer configurations available upon request)

Packaging

Net spool weights range from 5 lb. to 1000 lb. (2.25 kg to 450 kg) with precision layer winding to ensure trouble-free payoff. Other packaging options available upon request.

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