



MicroShield® Copper Alloy Conductor Wire

Introduction

Micro Shield, an alternative to stainless steel shielding, was engineered specifically for high strength coaxial shielding applications. It is a copper-nickel-tin alloy processed for both high strength and long flex life.

Key Attributes

- Strong with tensile strengths in excess of 150,000 psi (1030 MPa or 105 kg/mm squared).
- Highly solderable
- Excellent resistance to corrosive environments.
- Has identical chemical, mechanical and electrical properties to CS-95.

Micro Shield is available bare or electroplated with nickel, silver or tin. And, in ultra-fine gauges as single end wires or as multiple wire bobbins. To learn more please contact our [sales department](#).

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Physical Properties

HARD	
Available Platings	Ag, Ni, Sn
Elongation	1%
Tensile	125 ksi
Electrical Conductivity	11% IACS @ 68 °F
Electrical Resistivity	94.3 Ω -cmil/ft @ 68 °F
Density	0.321 lb/in ³
Coefficient of Thermal Resistance	0.00033 per °F
Melting Point (Solidus)	1,940 °F
Melting Point (Liquidus)	2,065 °F

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