



Features:

- The thin tin coating acts as a shield, inhibiting copper oxidization
- Being a relatively soft metal, tin provides a low constriction resistance

Typical Spec Note:

Field termination pads shall be tin-plated copper. All exposed conductive termination assemblies including control blocks, secondary conductive interconnects, capacitor fuses and fuse holders shall be coated for a hydrogen-sulfide environment. After field wiring terminations are made, coat all exposed copper and lugs with anti-corrosion grease.

Copper and materials made of copper alloy oxidize when exposed to the atmosphere, causing its surface to tarnish. The oxides do not conduct well which causes poor electrical contact, it then gets hot and increases the oxidation rate. Due to its poor conductivity, oxides can also cause arcing at the electrical contacts, eroding the copper. Exposure to water, especially saltwater, heat and acidic compounds can induce corrosion.

This is particularly important in Marine applications, Water and Waste Water Treatment Plants and other harsh environments where chemical contamination can have severe consequences for conductive materials and contact surfaces. Hydrogen Sulfide and other chemical pollutants can have detrimental effects on these materials compromising the conductive characteristics of the equipment.

To meet this requirement, Mirus offers a Tin Plating and Conformal Coatings Option, where the incoming and out-going terminations are Tin Plated, and internal interconnect surfaces are plated and coated with an Oxidation inhibiting grease for environmental protection.

Tin Plating and Conformal Coatings Option Code

PLT	-	SN	-	XY	-	C
Plating Option		Plating Material SN = Tin		Number of Terminals X = 9 (AUHF) 6 (AUSF) Y = S (up to 100HP) M (125 to 700HP) L (800 and above)		C = Conformal Coating

Notes:

1. This option is available for all Mirus product categories, including transformer offerings and inductors products.