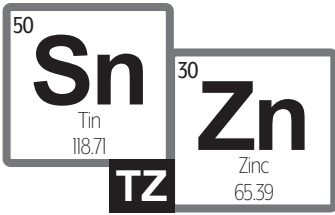


# Get the Lead Out! BURNDY® Tin-Zinc Plated Product

## HYTIN-ZCLAD — The Responsible and Reliable Plating Solution



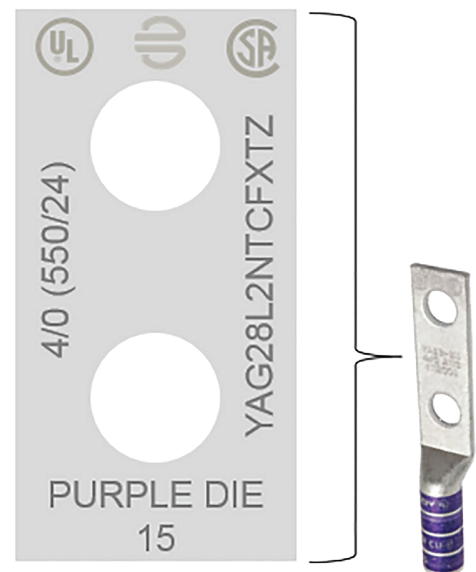
We are pleased to announce the release of a new Tin-Zinc plated compression terminal product line, HYTIN-ZCLAD. Due to the environmental and health safety hazards of lead plating, BURNDY is transitioning our compression terminals for battery and other lead plating applications to a Tin-Zinc plating solution. Our HYTIN-ZCLAD product family allows us to enhance our tin plating solution with zinc, for a more environmentally and safer solution with improved corrosion protection.

### Features and Benefits

- Added “TZ” to the catalog number indicating Tin-Zinc plating
- Added “FX” to the catalog number indicating suitable for flexible wire
- No noticeable color difference between Tin-Zinc and tin-plated products
- Product retains its UL Listing and CSA Certification
- BURNDY tested Tin-Zinc and lead plated wire connectors per specification ASTM B 845, Method P Mixed Flowing Gas (MFG) Test for electrical contacts
  - Excellent conductivity based on voltage drop measurements across the wire connectors after performing the MFG test; the voltage resistance across both plating types was comparable at the micro-ohm level
- Tin-Zinc plating is RoHS Compliant
- Safer and sustainable replacement for toxic metals, like hazardous lead plating
- The use of Tin-Zinc is becoming more prevalent; we are seeing this used in appliances, aerospace, automotive, electrical connectors, marine equipment, mining, and other industries
- Zinc additive aids in the mitigation of tin whiskers that can form on standard tin-plated products



### Typical Pad Markings



Customer Service 1-800-346-4175 | Tool Service Center 1-800-426-8720 | Technical Services 1-800-451-4956 | [www.burndy.com](http://www.burndy.com)

# Get the Lead Out! BURNDY® Tin-Zinc Plated Product

HYTIN-ZCLAD — The Responsible and Reliable Plating Solution

## Tin-Zinc Plating Replacing Hazardous Lead!

Due to the environmental and health safety hazards of lead plating, BURNDY® is transitioning our compression terminals for battery and other lead plating applications, to a Tin-Zinc plating solution. Our HYTIN-ZCLAD product family allows us to enhance our tin plating solution with zinc for a more environmentally and health safe solution with improved corrosion protection.

### Hazards of Lead:

- Reduction of Hazardous Substances (RoHS)
  - Lead Plating = NOT RoHS Compliant
  - Tin-Zinc Plating = IS RoHS Compliant
- Health Safety: **Lead is considered as 1 of 10 toxic chemicals of major public health concern and per the World Health Organization (WHO) “there is no known level of lead exposure that is considered safe”** (<https://www.who.int/news-room/fact-sheets/detail/lead-poisoning-and-health>)
- The creation, transportation, treatment, storage, and disposal of hazardous lead products fall under strict guidelines / regulations in place at the federal, state, and local levels to ensure environmental and health safety

### Tin-Zinc Advantages:

BURNDY tested Tin-Zinc and Lead plated wire connectors per specification ASTM B 845, Method P Mixed Flowing Gas (MFG) Test for electrical contacts.

- **Electrical Conductivity** — BURNDY conducted voltage drop measurements across the wire connectors after performing the MFG testing. The voltage resistance across both plating types is comparable at the micro-ohm level
- **Corrosion Resistance** — Tin-Zinc plating is comparable to lead plating but environmentally friendly. Color change didn't affect electrical performance and didn't show any surface corrosion penetration.
- Zinc additive aids in the mitigation of tin whiskers that can form on standard tin-plated products
- Safe and sustainable replacement for toxic metals, such as hazardous lead plating
- Both tin and zinc are environmentally safe and RoHS compliant
- The use of Tin-Zinc is becoming more prevalent, we are seeing this plating used in appliances, aerospace, automotive, electrical connectors, marine equipment, mining, and other industries

Customer Service 1-800-346-4175 | Tool Service Center 1-800-426-8720 | Technical Services 1-800-451-4956 | [www.burndy.com](http://www.burndy.com)



Connecting Power to Your World®

