

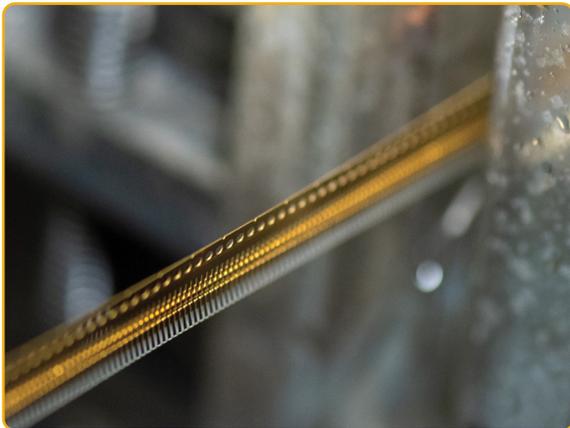


SURECOAT™ ULTRA RUGGED COATINGS

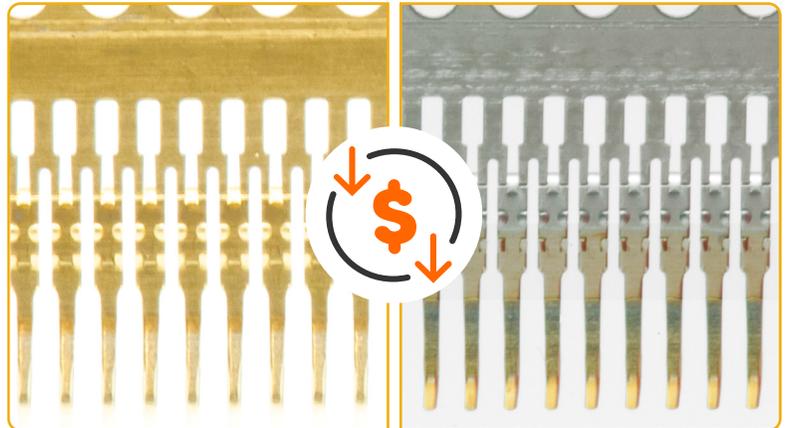
Increased Reliability in High Temperatures & Harsh Environments

At Samtec, we challenge conventional engineering methods to help optimize our customer's entire system – from BOM, to cost, to deployment. Applications such as military/aerospace and automotive are pushing the limits of traditional plating options due to requirements for high temperature and harsh environment operation.

Understanding and optimizing the structures and properties of the materials we use is one way Samtec is working to satisfy challenging performance requirements. Our SureCoat™ advanced coating technology enables designers to realize increased reliability in emerging high temperatures and harsh environments while mitigating the cost fluctuations common with some traditional materials, such as gold.



Selectively Plated, Low-Friction
Nano-Structured Silver



Protective Sealer Provides Gold Appearance
Contact Tail: Gold Flash or Matte Tin

SureCoat™ Silver -Ax Plating

High Temp, Improved Durability • A New Era of Cost Efficiency

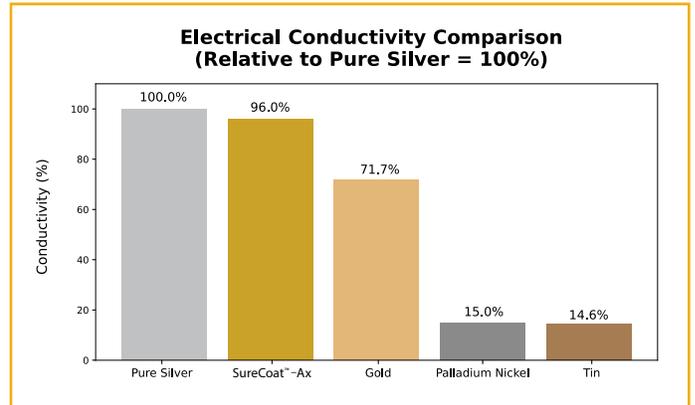
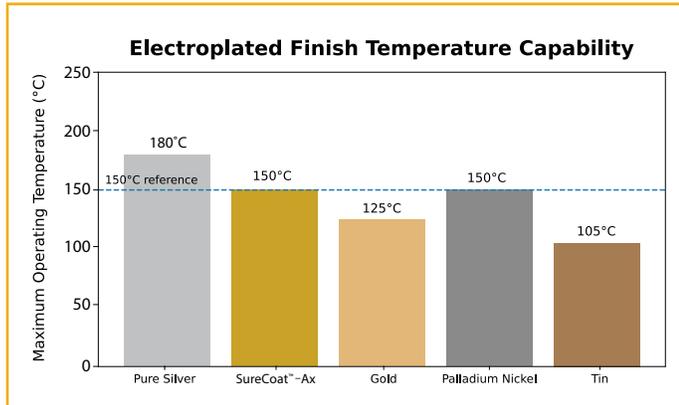
- Patented electroplating method for the contact system
- Nano-structured silver with performance-enhancing top coat and a familiar gold appearance
- Ideal for lower normal force contact systems
- **Reliable cost:** eliminates cost fluctuations/increases found with gold*
- **Reliable performance:** Behaves similar to, or better than, gold
 - Operating temperature: -65 °C to +150 °C
 - Electrical conductivity (%IACS with Cu=100% Reference): 105
 - Mate/unmate durability: series and option dependent
 - Hardness test (Vickers): (130) 120-200 HV50
 - Corrosion: Tested per ASTM B117, Salt Spray
 - MFG: passes Mixed Flowing Gas per EIA-364-65

*Dependent upon plating thickness and part number selection.

Contact ASG@samtec.com or visit samtec.com/SureCoat for additional information.

SURECOAT™

SureCoat™ -Ax Plating Performance



Products and Availability

Simply Select -Ax Plating Option in the Part Number.

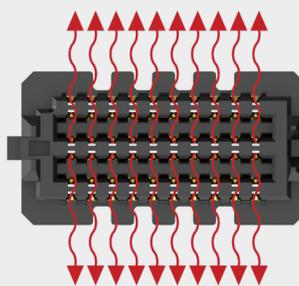
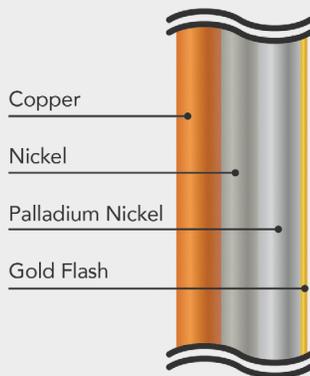
- **Phase 1:** ERM8, ERF8 Series
- **Up Next:** SEAM/SEAF, ADM6/ADF6, APM6/APF6, SFM/TFM and TSW/SSM Series

SURECOAT™

Additional SureCoat™ Ultra Rugged Coatings

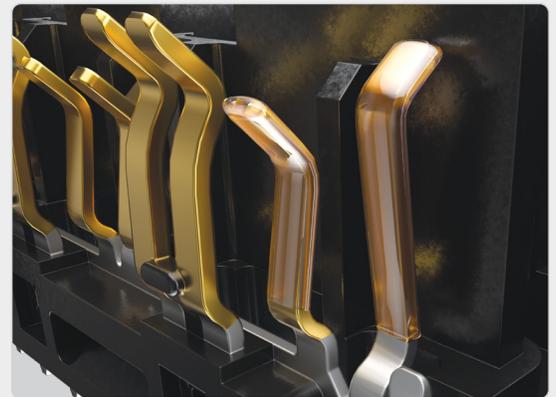
-P Plating: Selective Gold Flash & Palladium Nickel

- Mating cycles: up to 5,000
- Normal force: 50 g minimum, suitable for specific connectors and contact types
- Operating temperature: -65 °C to +150 °C
- Passed MFG
- Ideal for high temperature and high cycle applications
- Available on most mezzanine SEARAY™ 1.27 mm pitch arrays & Edge Rate® 0.80 mm pitch strips



Roadmap: High Cycle Super Lube

- Contact lubricant
- Enables extreme mating cycles
- Ultra rugged: can withstand reflow temperatures and aqueous wash of solder process



samtec

Contact ASG@samtec.com or visit samtec.com/SureCoat for additional information.