



MATERION

PRODUCT BRIEF

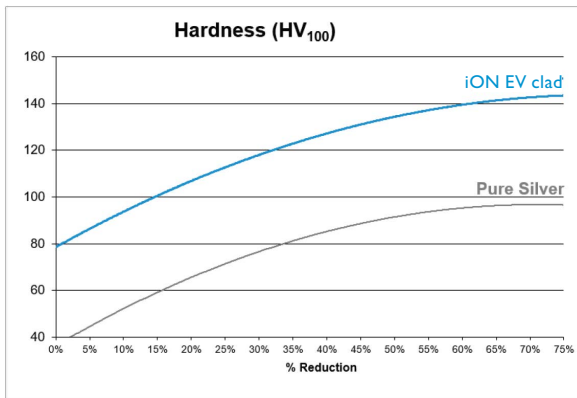
iON EV™ CLAD CONNECTORS FOR HIGH POWER CHARGING

When electroplated silver can't deliver, iON EV clad connectors offer superior performance.

FEATURES AND BENEFITS

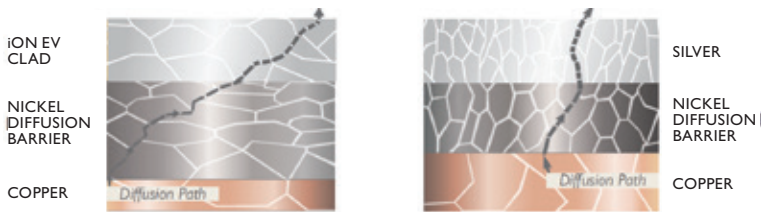
WEAR RESISTANCE

Increased hardness over traditional silver allows for increased wear durability that exceeds 10,000 connection cycles.



PRODUCT PERFORMANCE

A fully dense microstructure across our entire clad thickness range provides stable performance at elevated temperatures over the life of the connector.



CLAD METAL
Large grain, dense

ELECTROPLATED METAL
Small grain, porous, impurities

LOW INSERTION FORCE

A low coefficient of friction allows for reduced insertion force.

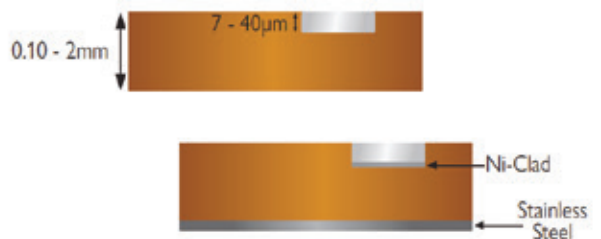
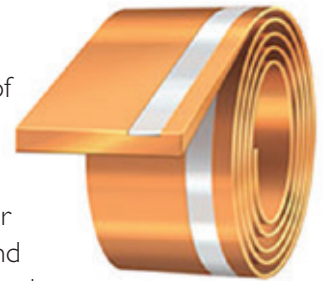
ALLOY	CoF
iON EV CLAD	0.20
PURE SILVER	1.4

OPTIONS

THICKNESS AND BASE METALS

Our versatility with product configurations allows you to maximize your product's functionality.

- iON EV clad thicknesses from 7 - 40µm
- Base thicknesses from 0.10 – 2mm
- Base alloys comprised of any commercially available copper alloy
- Ni-Clad diffusion barrier for high temperature and high performance applications
- Stainless steel backing for increased stiffness



MATERION'S iON EV CLAD
Ag95.5-Cu4-Ni0.25-Zn0.3

Performance beyond silver