autosplice®

Interconnecting the Future
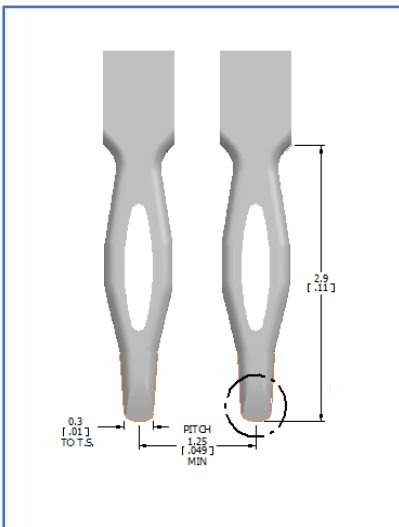
0.40mm EYE-OF-THE NEEDLE PRESS-FIT TERMINAL

The Autosplice 0.4mm thick eye-of-the-needle (EON) press-fit terminal design is based on the same winning technology as the highly successful 0.64mm and 0.81mm thick press-fit terminals that are currently in production. The 0.4mm thick press-fit terminals offer a tight pitch, high-density, and lightweight solution for automotive and other demanding applications.

Press-fit terminals allow solderless connections to printed circuit boards, with high mechanical and electrical reliability. The compliant press-fit zone deflects *elasto-plastically* in the plated through hole, and forms a cold welded, gas-tight, high-normal force, low contact resistance interconnection that is resilient to environmental conditioning.

The terminal design is subjected to rigorous testing in accordance with IEC 60352-5, and customer-specific test protocols.

The EON press-fit is the leading method for PCB connection, and is offered in single pin insertion, and connector modules.

SCHEMATIC

PERFORMANCE

- Complies with IEC 60352-5 Edition 4, Solderless Connections – General Requirements
- Test results available for CuNiSi in standard and reduced thickness Sn plating

MATERIALS & PLATING

- Available Materials: CuNiSi, CuSn4, CuSn6
- Available Plating:
  Standard: 1µm-2µm Sn (Pb-free) over 1µm-3µm Ni
  Reduced Thickness: 0.4µm-1µm Sn (Pb-free) over 1µm-3µm Ni

PRINTED CIRCUIT BOARD

- *Drilled Hole Size*: Ø0.69 ± 0.025mm
- *Finished Plated Through Hole Size*: Ø0.60 ± 0.05mm
- *Cu Plating Thickness*: 25µm (min.)
- *Sn Plating Thickness*: 2µm to 8µm
- *PCB Thickness*: ≥1.0mm (nom.)
- *Number of Layers*: 8 (max.)

FORCES

- *Insertion*: 70 N (max.)
- *Retention*: 15 N (min.)

PACKAGING

- *Terminals Only*: Shipped as a continuous strip on reel, carried at shoulder
- *In-Module*: Shipped as subcomponent in module assembly, packaged as required by customer

As products continually evolve and are improved, specifications are subject to changes.