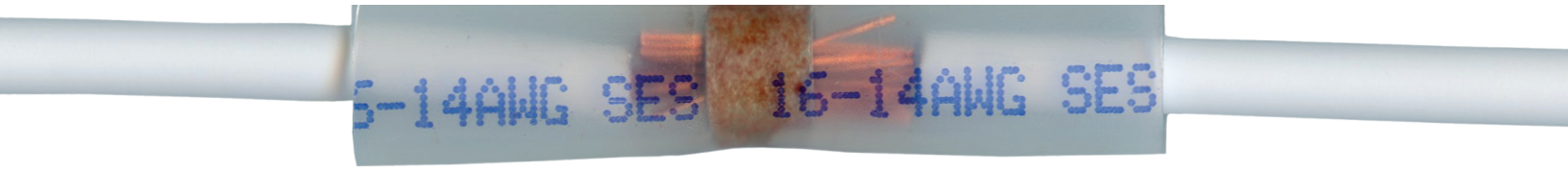
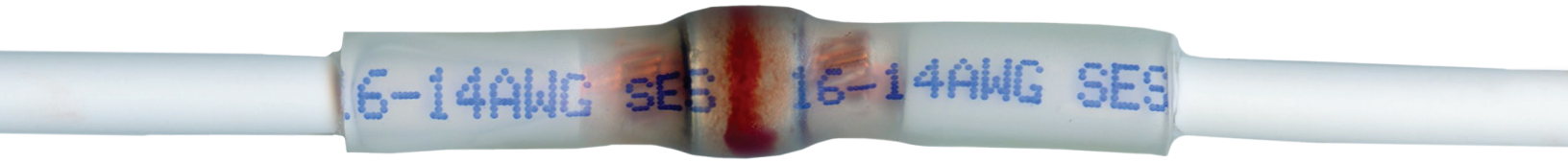
Thermal Indicator Sealed Solder Connectors

Take the Guesswork Out of Soldering!

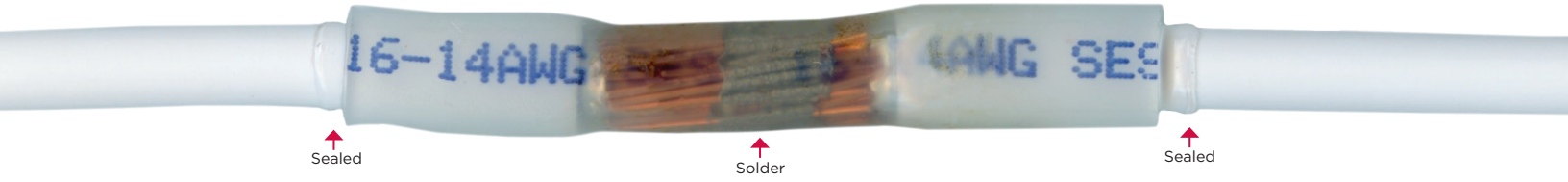
The objective of the thermal indicator is to provide the installer with an additional visual cue of the solder sleeve transforming and flowing into wire strands. The most common mistake using solder connectors is not heating the solder enough, creating a cold solder joint (inferior termination). To prevent a cold solder joint, the red dye offers an extra visual cue for the installer to continue applying heat to the solder connector until the red dye disappears from the solder sleeve. This ensures a good solder joint, which maximizes tensile strength & conductivity.



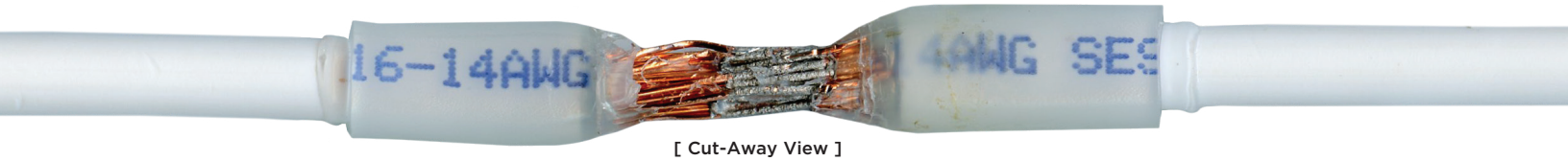
[Uninstalled]



[Mid Install]



[Installed]



[Cut-Away View]

Thermal Indicator Solder Sleeve

- Red thermal indicator disappears from solder sleeve when solder has flowed.
- Lead free solder alloy has greater surface tension
- "No-clean" flux on solder sleeve cleans metals & provides quality solder termination

NEW: Thermal Indicator Solder Sleeve

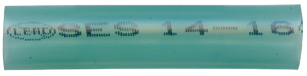
Existing Solder Sleeve

Clear Adhesive-Lined Tubing

- Clear tubing allows optimal visual inspection
- Stronger adhesive provides stronger seal

NEW: Clear Adhesive-Lined Tubing

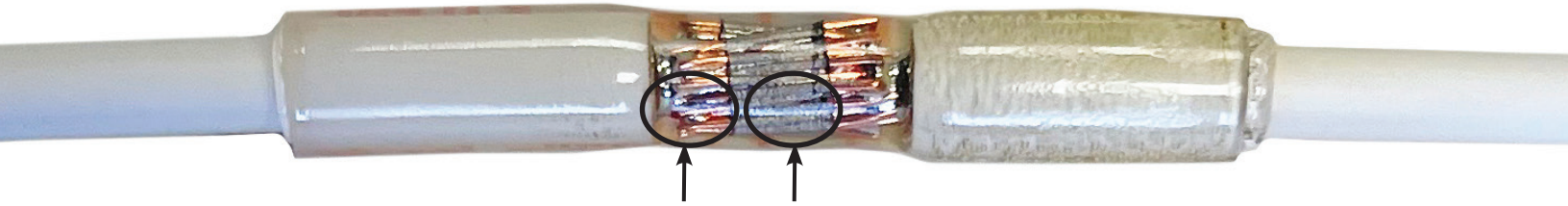
Existing Tubing



Thermal Indicator Sealed Solder Connectors

Sealed Solder Connectors: Apply heat evenly to the entire length of the connector until the shrink tubing recovers to the wire insulation. The red dye should form a ring in the center of the solder sleeve. Continue heating the connector evenly until all the dye disappears from the surface of the solder sleeve; avoid focusing the heat on a specific "pool" of red dye. Note, it is possible that some residual red dye may remain visible in the wire strands – this is normal and does not affect the quality of the solder joint.

GOOD: PROPERLY HEATED



Some red dye remains in the wire strands

Red dye is out of the solder sleeve

BAD: HEAT MORE

Pool of red dye on solder sleeve, continue heating

BUTT CONNECTOR INSTRUCTIONS

1. Strip both wires 3/8"
2. Intermingle wires
3. Center solder over wires
4. Heat tubing and red dye will form a ring in center of solder sleeve
5. Continue heating until solder flows into wire strands and red dye disappears from solder sleeve

For best results: Use heat device of at least 1000°F. Don't overheat tubing. Don't isolate flame. Distribute heat evenly over tubing. Heat until solder flows into wires and the red dye disappears from solder sleeve. Some red dye may remain in wire strands.

Unless otherwise stated: Rating: 221°F Max., 600V Max. building wire, Stranded copper wire only. Not for multiple wire connections.

To be sold only with installation instructions

Lead Free Sealed Solder Connector Part Listing

BUTT CONNECTORS				
Part	**Wire Gauge**	**Tubing Color**	**Print Color**	**Description**
ETI5-20	24-22 AWG	Clear	Black	Butt Connector
ETI5-16	22-18 AWG	Clear	Red	Butt Connector
ETI5-14	16-14 AWG	Clear	Blue	Butt Connector
ETI5-10	12-10 AWG	Clear	Yellow	Butt Connector

RoHS COMPLIANT

PATENT PENDING