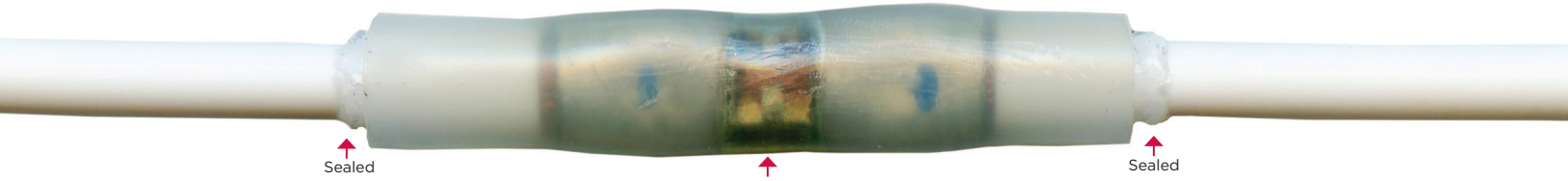
Thermal Indicator Sealed Crimp & Solder Connectors

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 the crimp barrel window. 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, ensuring maximum tensile strength & conductivity.

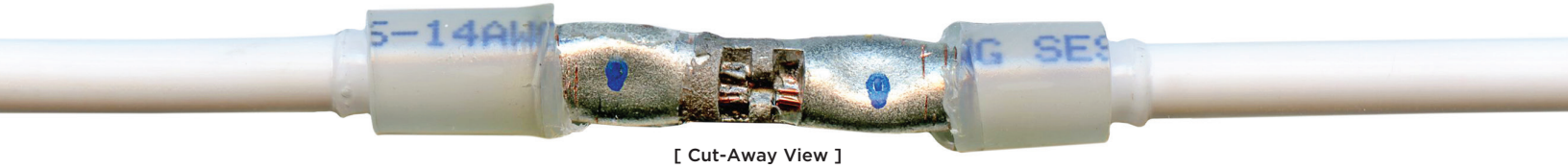
[Uninstalled]

[Mid Install]



Solder flowed into window and window is visible between two colored dots

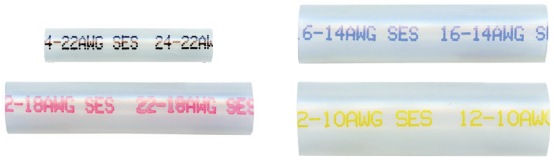
[Installed]



[Cut-Away View]

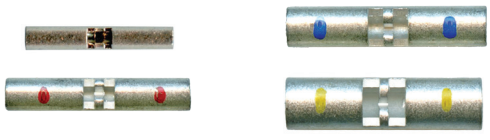
Clear Adhesive-Lined Heat Shrink Tubing

- Clear tubing allows optimal visual inspection
- Color-coded print on tubing
- Improved adhesive provides stronger seal



Window Butt Connectors

- Seamless barrel with window and wire stop
- Window positioned between color-coded dots, 3 primary sizes
- Orient color-coded dots where they are visible to see solder flow



Thermal Indicator Solder Sleeves

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

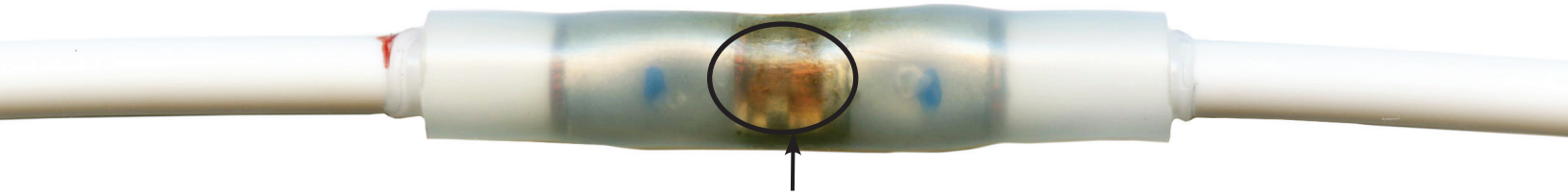
NEW: Thermal Indicator Solder Sleeve

Existing Solder Sleeve

Thermal Indicator Sealed Crimp & Solder Connectors

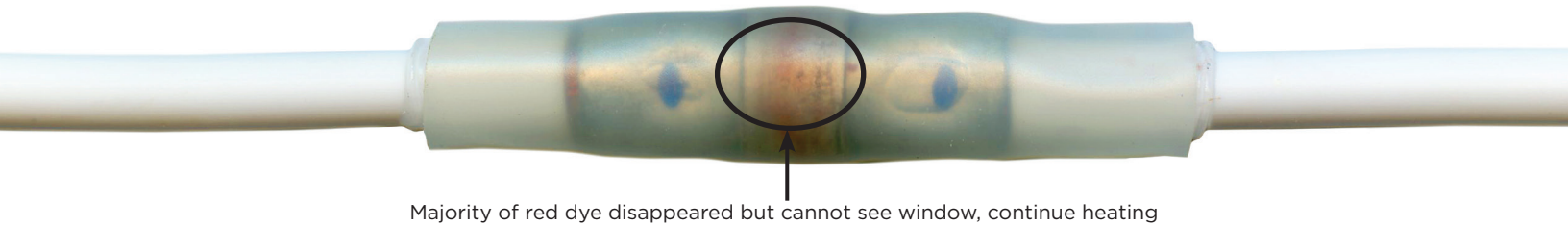
The window is located between the color dots, except the MTI5-20 which doesn't have dots. Apply heat evenly to the entire length of the connector until the shrink tubing recovers to the wire insulation. The installer should continue to heat the connector until they have a clear visual of the window in the center. When the window in the center of the connector is visible and majority of red dye disappears, the solder has flowed. There can be a "pool" of red dye opposite of the window and/or some red dye in the window. Heat the solder connectors evenly, don't try to focus the heat at a specific "pool" of red dye on the solder sleeve.

GOOD: PROPERLY HEATED



Window is visible with some red dye remaining in window

BAD: HEAT MORE



Majority of red dye disappeared but cannot see window, continue heating

BUTT CONNECTOR INSTRUCTIONS

1. Strip both wires 3/8".
2. Insert wire into barrel.
3. Crimp colored dots on barrel. If no dots present, crimp on center of barrel between end of solder sleeve and end of crimp barrel.
4. Heat tubing.
5. When the window appears and majority of red dye disappears, the solder has flowed into the crimp barrel. Remove from heat.

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 window in the center of connector appears. Some red dye may remain in the window &/or "pool" opposite of the window.

Unless otherwise stated: Max. Temp 221°F / 105°C, 600V Max. building wire, 1000V Max. signs & fixtures, stranded copper conductors only. To be sold only with installation instructions.

Lead-Free Sealed Crimp & Solder Connector Part Listing

BUTT CONNECTORS				
Part	**Wire Gauge**	**Tubing Color**	**Print Color**	**Description**
MTI5-20	24-22 AWG	Clear	Black	Butt Connector
MTI5-16	22-18 AWG	Clear	Red	Butt Connector
MTI5-14	16-14 AWG	Clear	Blue	Butt Connector
MTI5-10	12-10 AWG	Clear	Yellow	Butt Connector

RoHS COMPLIANT

PATENT PENDING