

# NELSON™ HEAT TRACING SYSTEMS

## LT-HST TEE SPLICE KIT

## INSTALLATION INSTRUCTIONS

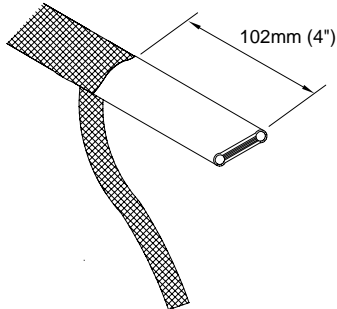
### DESCRIPTION

The LT-HST Tee Splice Kit is for use with braided versions of Nelson Heat Tracing Systems' type HLT heater cables in ordinary and hazardous areas.

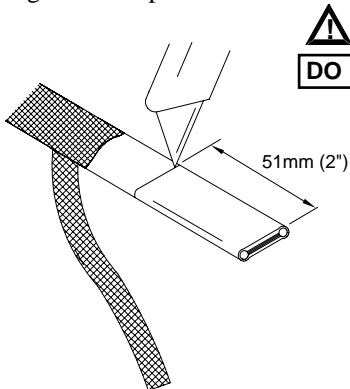
### KIT CONTENTS

- 5 Wire Ties
- 2 Tubes of Silicone
- 5 Uninsulated Splice Connectors
- 10 Insulated Splice Connectors
- 5 Shrink Tubes, 13mm (0.5") diameter, 152mm (6") length

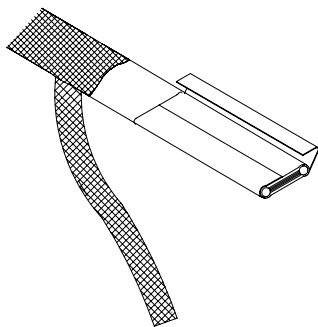
### STRIPPING PROCEDURES



- ❶ Unravel approximately 102mm (4") of braid to form a ground strap.

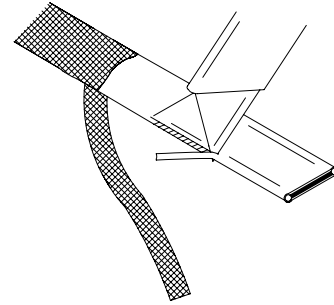


- ❷ Lightly cut around heater outer jacket 51mm (2") from the end. Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.

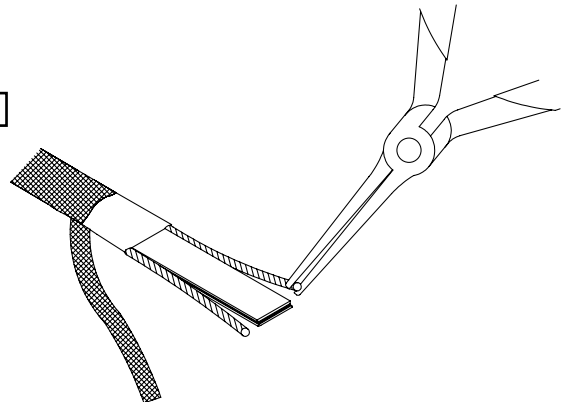


- ❸ Remove jacket from the heater cable.

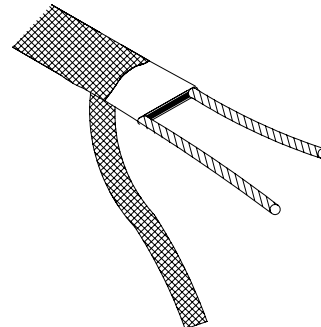
**⚠ WARNING:**  
**DO NOT CUT BUS WIRES**



- ❹ Shave core material from the outside of each bus wire.



- ❺ Starting at the end, pull each bus wire away from the core material and remove exposed core material.



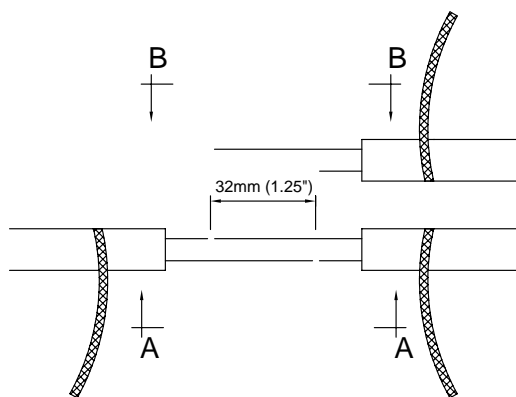
- ❻ Repeat steps 1-5 for all heater cables.  
❼ Proceed to "Shrink Tube Procedures", sheet 2.

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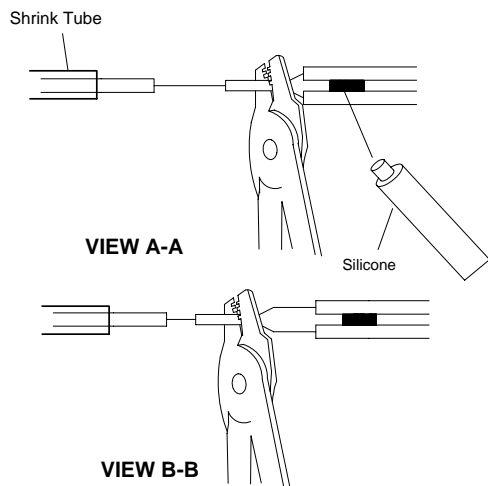
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### INSTALLATION INSTRUCTIONS

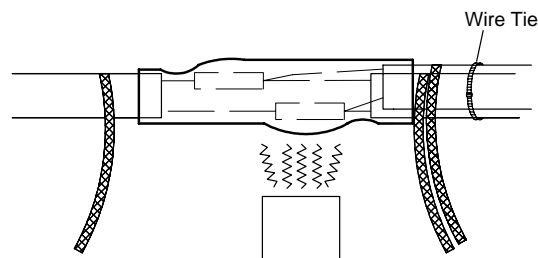
#### SHRINK TUBE PROCEDURES



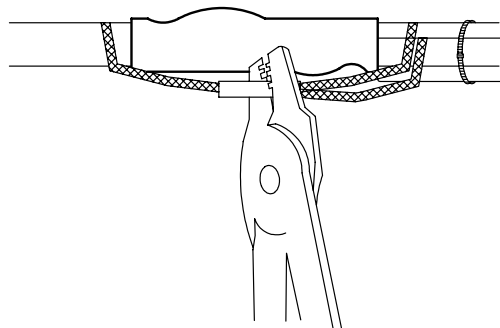
- 1 Position three heater cables with the ground braid on the same side. Remove 32mm (1.25") of bus wire from each heater cable to offset for the insulated splice connectors.



- 2 Slide a shrink tube over the single heater cable side. Twist bus wires together from the two heater cables and crimp into insulated splice connectors, then connect to the single heater cable.
- 3 Inject a generous amount of silicone between the two heater cables forming a moisture barrier.



- 4 Center the shrink tube over the connectors leaving the braid straps exposed. Shrink with heat gun until completely shrunk. A uniform bead of glue should appear around the ends of the shrink tube.
- 5 Fasten a wire tie around the two heater cables to hold in place.



- 6 If necessary, cut excess length from braid straps. Crimp the braid straps together into an uninsulated splice connector. Secure connector at the indented area with one and a half wraps of fiberglass tape (*not included in kit*).

Nelson Heat Tracing Systems products are supplied with a limited warranty. Complete Terms and Conditions may be found on Nelson's website at [www.nelsonheaters.com](http://www.nelsonheaters.com).