

NELSON™ HEAT TRACING SYSTEMS

LT-NSS SPLICE KIT

INSTALLATION INSTRUCTIONS

DESCRIPTION

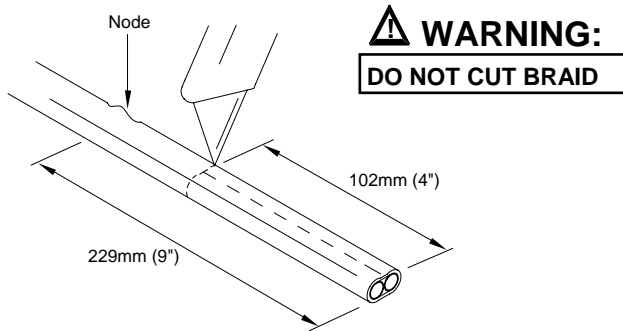
The LT-NSS Splice Kit is for use with all versions of Nelson Heat Tracing Systems' Parallel Constant Wattage heater cables.

KIT CONTENTS

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

Overjacket Stripping Procedures

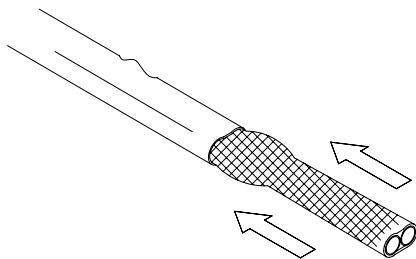
(For Braided Products, proceed to step 4 below)



- 1 Lightly cut around heater cable overjacket 102mm (4") from the end. Bend cable to break overjacket.

Note: The node should be within 152mm (6") of termination. Cable heats between nodes; this is called the heating zone. Cutting the cable between nodes destroys the heating zone.

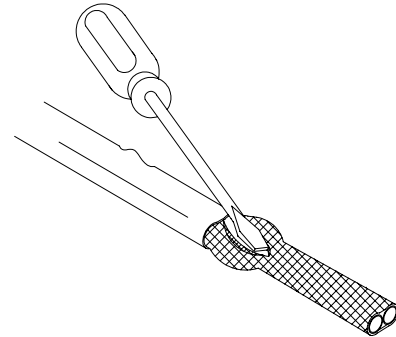
- 2 Lightly cut overjacket up the center between the first cut mark and cable end. Bend cable to break overjacket.
- 3 Remove overjacket from heater cable exposing cable braid.



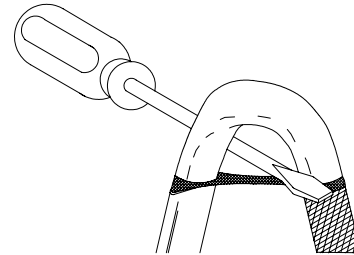
- 4 Push cable braid back toward overjacket, creating a bulge.

Braided Products:

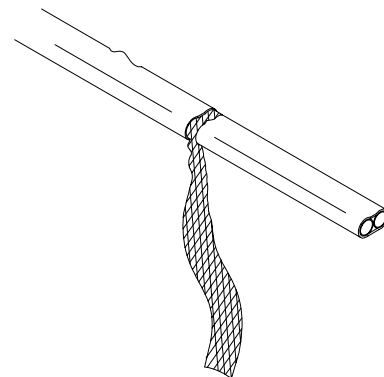
Tape braid in place 102mm (4") from cable end using fiberglass tape.



- 5 At the bulge, separate braid to make an opening.

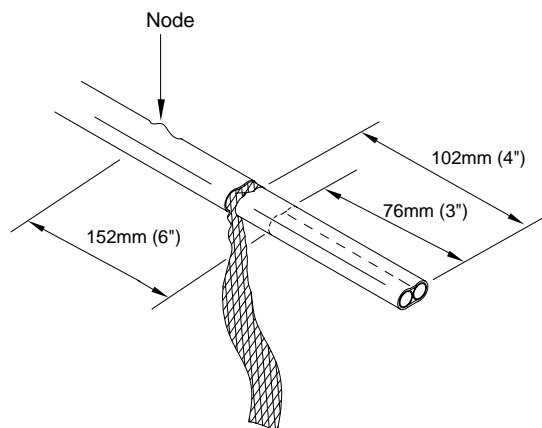


- 6 While bending the heater cable, work it through the braid opening.



- 7 Pull braid tight.
- 8 Proceed to "Outer Jacket Stripping Procedures".

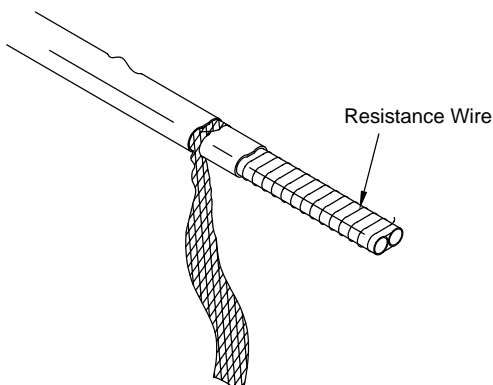
Outer Jacket Stripping Procedures



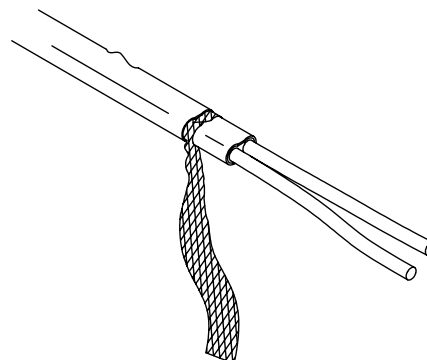
- 1 Lightly cut around heater cable outer jacket 76mm (3") from the end. Bend cable to break outer jacket.

Note: The node should be within 152mm (6") of termination. Cable heats between nodes; this is called the heating zone. Cutting the cable between nodes destroys the heating zone.

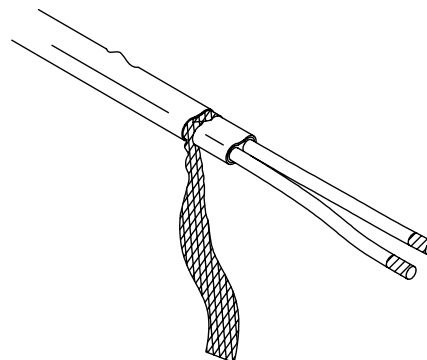
- 2 Lightly cut outer jacket up the center between the first cut mark and cable end. Bend cable to break and remove outer jacket.



- 3 Remove outer jacket from heater cable exposing the insulated bus wires.

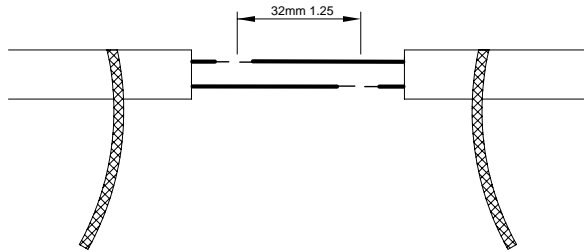


- 4 Completely remove the resistance wire and clear inner jacket back towards the outer jacket exposing the insulated bus wires.

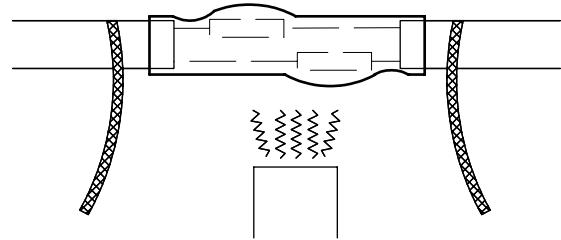


- 5 Strip 13mm (0.5") of the end of each insulated bus wire.

SHRINK TUBE PROCEDURES

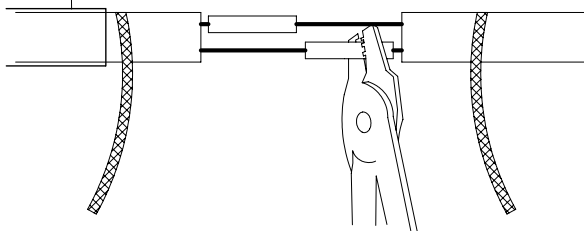


- ❶ Position both heater cables with the ground braid on the same side. Remove 32mm (1.25") of bus wire from each heater cable to offset for insulated splice connectors.

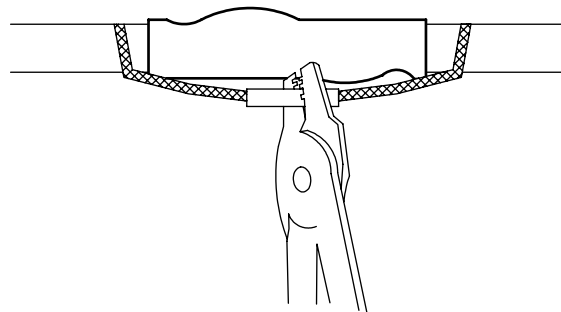


- ❸ Center the shrink tube over the connectors leaving the braid straps exposed. Shrink with heat gun until completely shrunk. A uniform bead of glue should appear around the ends of the shrink tube.

Shrink Tube
13mm (0.5") diameter, 152mm (6")



- ❷ Slide one shrink tube over one of the heater cables. Crimp an insulated splice connector to each bus wire connecting the two heater cables together.



- ❹ If necessary, cut excess length from braid straps. Crimp the braid straps together into an uninsulated splice connector. Secure the 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.