

BRISK-2

Splice Kit
General Field Repair
Instructions

**Series Resistance
Twin Conductor
Splice Kit**

KIT CONTENTS

- 2x 6" outer heat shrinkable tubing
- 4x 2" inner heat shrinkable tubing
- 5x metal crimps
- 2x 1' black cold lead
- 1x 1' green cold lead

For Twin Conductor Heating Cables Only:

These splice kit instructions refer only to the following twin conductor cables from Britech: Nexans TXLP/2 heating cables, SNOW-MAT™ and SNOW-MELT™ cables. Please refer to your specific twin conductor cable product manual for complete cable installation instructions and operational requirements.

Additional Splice Kits Available:

- BRISK-1:** For use with Britech TXLP/1 single conductor custom cables.
- BRISK-TC:** For use with TECH-MAT™ and BRI-THIN™ heating cable units.

TOOLS REQUIRED

- Side Cutters to trim area to be spliced
- Co-Ax Wire Stripper & Wire Stripper (14-08)
- Hand Crimping Tool
- Heat Gun for shrink tubing
- Megger to test insulation after the splice
- Volt-Ohm Meter to check resistance

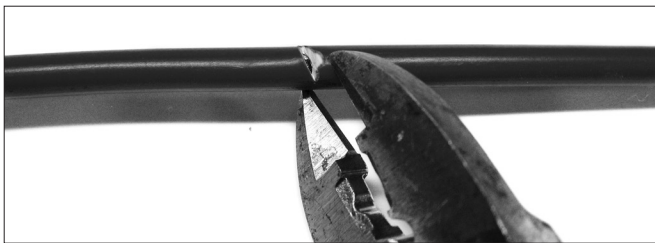
Use this kit only with TXLP/2, SNOW-MAT™ and SNOW-MELT™ Heating Cables
For product selection or technical assistance contact Britech at 877-335-7790



WARNING: Burning or charring of the heat-shrink tubing included in this kit will produce fumes that may cause eye, skin, nose or throat irritation. Use heat gun carefully when applying heat-shrink tubing.

I. Simple Method — Nicked or Cut Cable

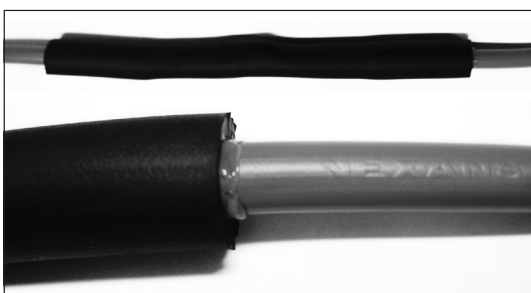
1 Cut heating cable at point of nick or cut. Slide 6" shrink tubing to either end of heating cable.



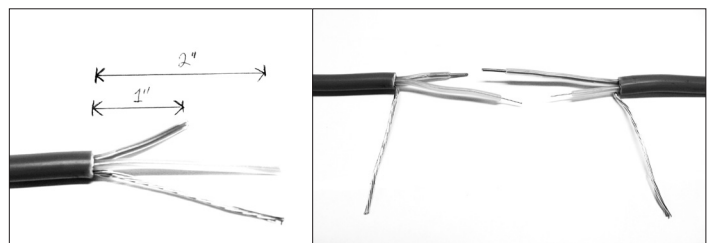
3 Slide 2" shrink tubing over the longer conductors, then install crimp connectors.



5 Centre 6" shrink tubing over exposed heating conductors. Shrink completely. Stop heating when excess sealant protrudes from both ends.



2 Remove 2" of outer jacket at both ends of the heating cable. Cut one of the conductors to 1" length on each side. Strip 3/8" of translucent insulation and expose centre conductors.



4 Centre 2" shrink tubing over each crimp. Shrink completely. Install crimp connector on ground wires.



6 Allow the finished splice to cool down for 5-10 minutes. Measure insulation, total resistance and continuity.



II. Optional Method — Replace Damaged Cable

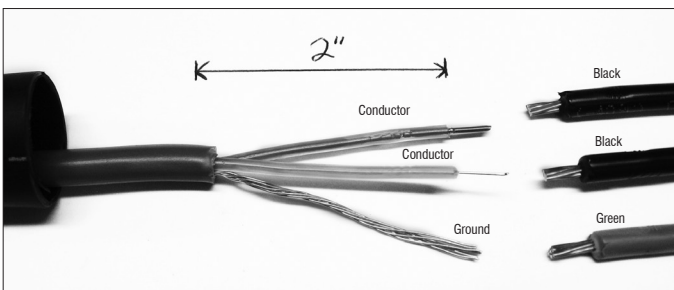
IMPORTANT: If the length of defective cable is $\geq 1\%$ of the original cable length, do not use this method. Cutting off excessive cable may cause over-heating and system failure. Consult Britech for technical assistance.

1 Determine the length of damaged cable that needs to be removed. **If the damaged portion is $\geq 1\%$ of the original cable length, DO NOT use this method.** Consult Britech.

2 Clean heating cables thoroughly. Make sure all parts exposed are clean & dry. Slide 6" shrink tubings over both sides of the heating cables.

3 Remove 2" outer jacket at one end of the heating cable. Cut one of the conductors to 1" length. Strip 3/8" of translucent insulation and expose centre conductors. Strip 3/8" on both ends of the cold leads as well.

4 Slide 2" shrink tubing over each black cold lead. Splice heating conductors to black cold leads, then centre the 2" shrink tubings over each crimp connector. Shrink completely.



5 Connect ground wire to green cold lead.

6 Centre 6" shrink tubing over inner shrinks. Shrink completely. Stop heating when excess sealant protrudes from both ends.



7 Repeat steps 2 to 5 for the other side of the heating cables.

8 Allow the finished splice to cool down for 5-10 minutes. Measure insulation, total resistance and continuity.

NOTE: Cold leads included in this kit are RWU90 wires, approved for direct concrete burial. If the damaged cable is longer than 6", it's ok to have a portion of cold leads exposed between two outer heat shrinks, as long as the actual connection points are completely insulated.



SAFETY GUIDELINES: The heating cables must be applied in accordance with the applicable specifications and in accordance with the operating data specified by Britech. Maintenance and failure rectification works may only be carried out by qualified electricians. Conformity with all applicable laws and guidelines must be ensured prior to re-commissioning. All applicable safety instructions must be observed prior to the implementation of any maintenance and/or failure rectification works.