



**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS ALL THE WAY THROUGH BEFORE STARTING; NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS, AND CAUTIONS. USE THIS PRODUCT CORRECTLY, AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY.

## 1. SAFETY INSTRUCTIONS

### 1.1 ELECTRICAL SAFETY

❑ **WARNING!** It is the responsibility of the Installer, owner and operator to read, understand and comply with the following:

- 1.1.1 All electrical wiring must be carried out by a fully qualified Electrician in accordance with the current IEE wiring regulations.
- 1.1.2 Before any work starts make sure the Power is turned off and the cable is completely isolated.
- 1.1.3 The repair kit is only intended for use with BN Thermic M, F & EHM series heating Mats and EHC, IHC heating cables (see note at bottom of last page if repairing F series mats).
- 1.1.2 Check the continuity and resistance of the floor mat cable after the repair and before reconnecting the power.

## 2. TOOLS REQUIRED

Wire Cutter

Wire Stripper

Volt Meter

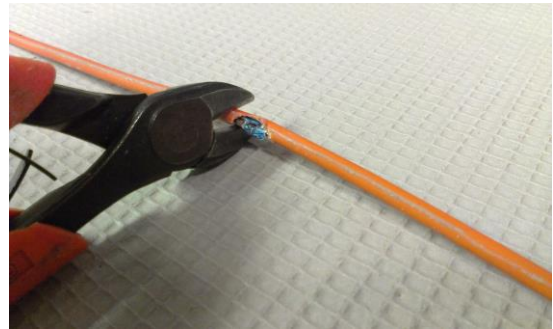
Suitable Crimp tool for crimping 1.5mm<sup>2</sup> Butt Crimps

Hot air gun

## 3. INSTRUCTIONS



1) Damaged cable.



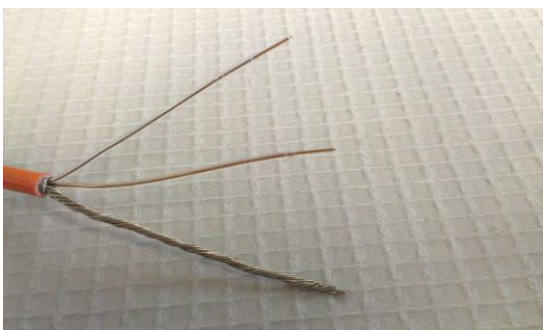
2) Use Wire cutters to remove damaged part of heating cable.



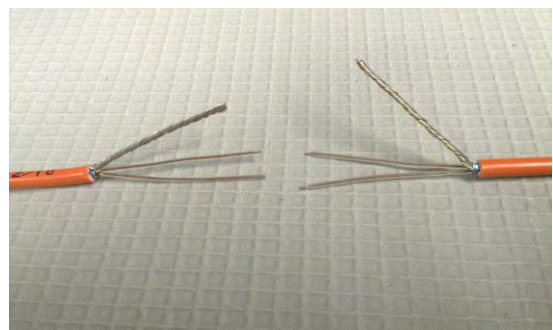
3) Clean both ends of the cable.



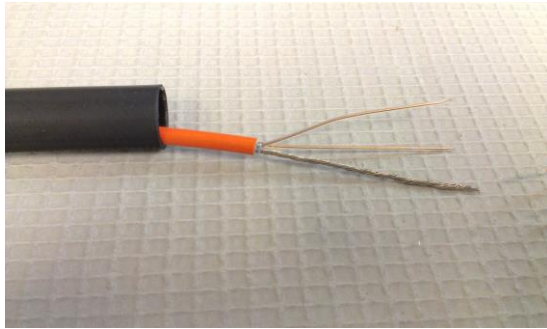
4) Strip 40mm of the outer sheath from each cable end.



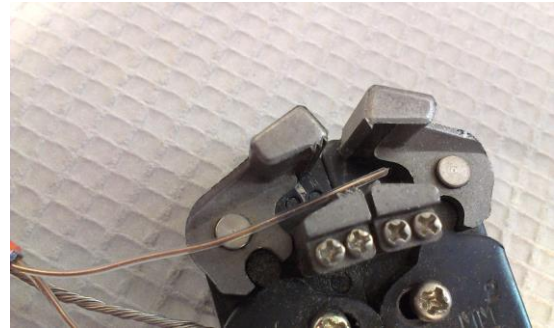
5) Stripped first end and then twist the Earth braid.



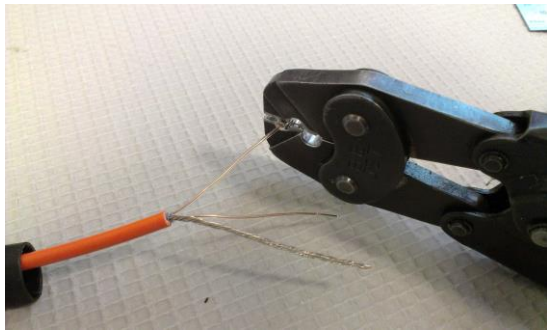
6) Both ends stripped showing earth braids twisted.



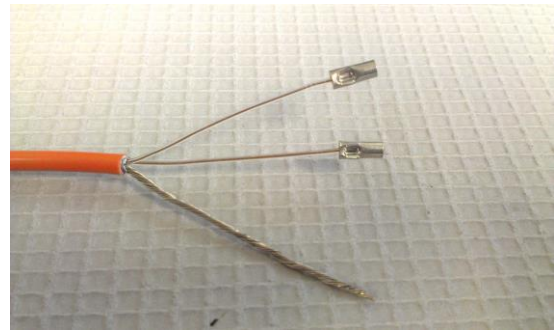
7) Slide the long black sleeve over the left cable end.



8) Strip 5mm off each power wire.



9) Crimp butt connector onto all 4 power wires.



10) Picture showing butt connectors in position.



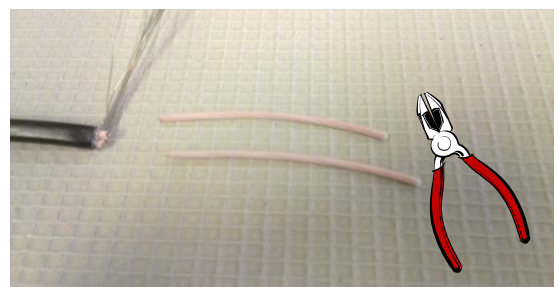
11) Slide a black sleeve over each butt connector.



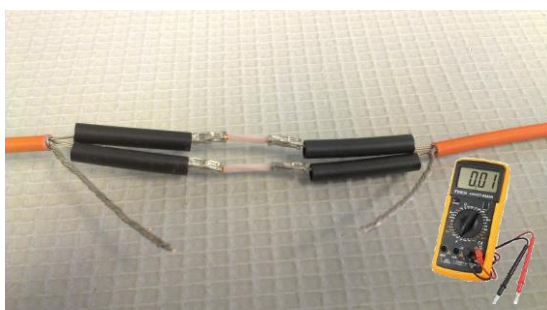
12) Using the black cable provided in the kit strip off the outer sleeve to provide enough inner cable to fill the gap between the two butt connectors on each heater cable.



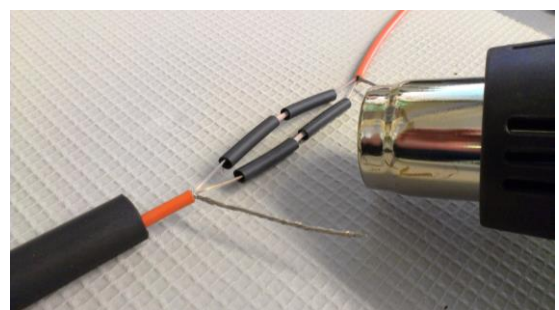
13) Picture showing outer sleeve removed.



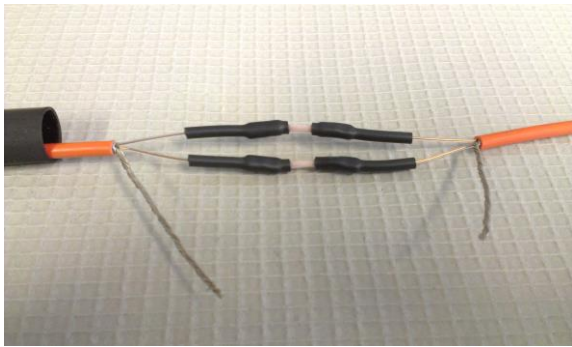
14) Measure the gap between the two butt connectors on the heater cables, add 10mm and cut 2 lengths of inner cable to this length. Now strip 5mm of sleeving off each end.



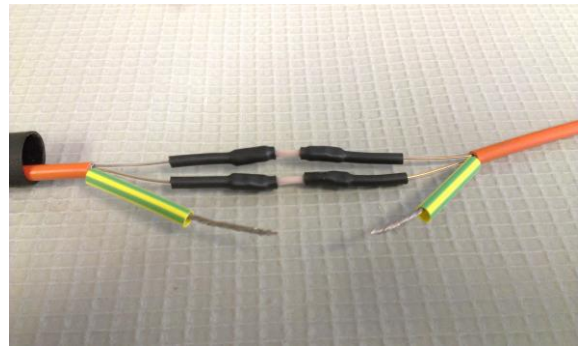
15) Crimp the 2 pieces of inner cable in place. Making sure crimps don't touch each other check the resistance with a meter. If resistance is OK continue.



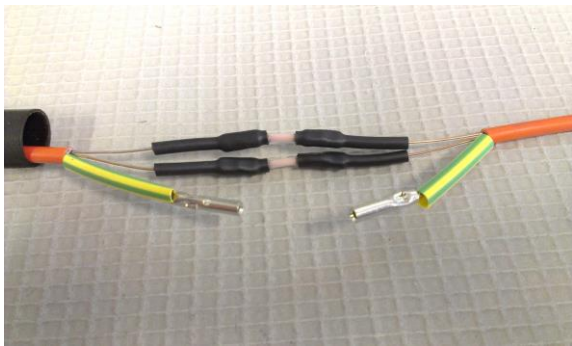
16) Slide the black sleeve over each crimp. Now apply heat using a heat gun and shrink the black pieces in position. Tip: Make sure they don't move when using heat gun.



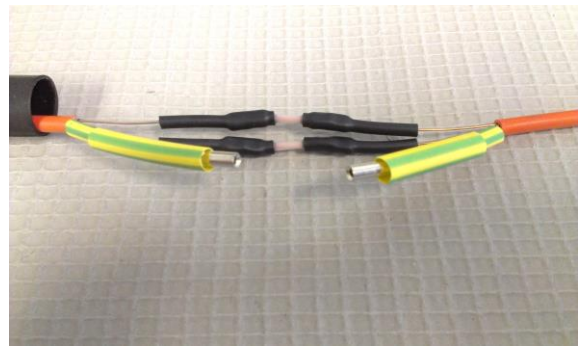
17) Picture showing black sleeves heat shrunk.



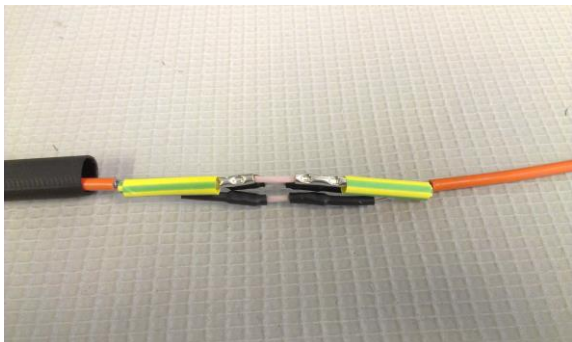
18) Slide a small Green / Yellow sleeve over each Earth wire.



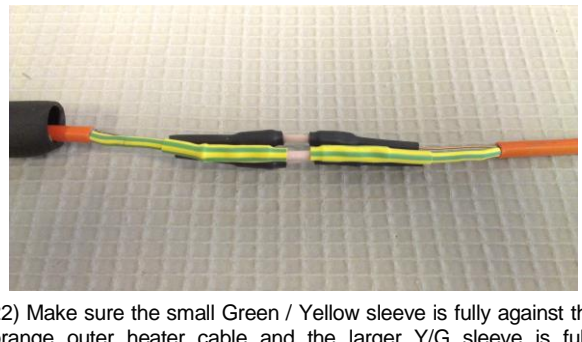
19) Crimp butt connector onto each twisted Earth wire.



20) Slide a large Green / Yellow sleeve over each butt crimp.



21) Repeat step 14 & 15 to join cables.



22) Make sure the small Green / Yellow sleeve is fully against the orange outer heater cable and the larger Y/G sleeve is fully covering the butt connector heat shrink into position.



23) Finally slide the long Black sleeve so it is centrally over the repair and heat shrink in position. Allow the sleeving to cool down and check the resistance and insulation resistance between the live wires.

If you are repairing a foil heating mat (F Series) aluminium tape **MUST** be applied over the whole repaired piece of cable and stuck to the existing foil so the repair is completely covered maintaining the earthing of the mat.

**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**IMPORTANT:** No liability is accepted for incorrect use of this product. Please read instructions fully before starting the repair.

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