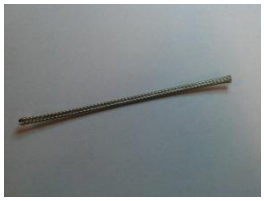
# Repairing the Break for Nuheat Cable

Required Materials and Tools:

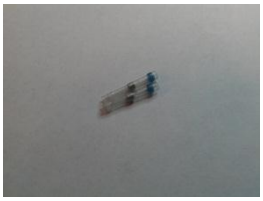
- Wire strippers
- Small scissors
- Small pliers
- Heat gun
- Ohmmeter
- Mastic tape

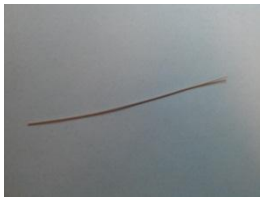
Your Repair Kit comes with the following components:


1 x heat shrink tube


1 x extra copper braid


2 x small heat shrink tube


2 x solder sleeve


1 x conductor wire

Instructions:

1. Cut out the damaged portion of the cable. Try to cut out as little of the cable as possible.

2. Select one end of the cable to work with first. Using wire strippers, remove 2” of the red coating to expose the copper braid.

3. Using a small pair of scissors, remove 1.5” of the copper braiding and carefully separate each of the black conductor wires inside the cable.

4. Using a wire stripper, carefully remove 1/8” of the wire insulation from both conductor wires. Be careful not to knick the metal wire inside.

5. Repeat steps 2 to 4 for the other end of the cable.

6. Ensure the heat shrink tube is long enough to sufficiently cover the area to be repaired. The heat shrink tube will become the outer jacket of the cable once the repair is finished.

7. Insert the piece of the heat shrink tube over one end of the cable and slide it down the cable so that it does not obstruct the repair procedure.

8. Insert a small heat shrink tube at each end of the cable. Again, slide it down the cable so that it does not obstruct with the repair procedure.

9. Cut out an approximate 3.5” length of the extra copper braid.

10. Hold onto one end of the 3.5” length of the extra copper braid and compress (or slide) the copper braiding towards the end that you are holding. A “ring” of copper braiding will result.

11. Insert the “ring” of copper braiding over one of the cable ends and again, slide it down the cable so that it does not obstruct the repair procedure.

12. Select one conductor wire from each end of the cable (does not matter which conductor wire from each end).

13. Insert each conductor wire into opposing ends of a solder sleeve.

14. Make sure the exposed metal wire inside both black conductor wires overlaps each other at the center of the solder sleeve. If the conductor wires are too short to overlap, use a piece of the extra conductor wire in order to join both ends of the cable. You will need to perform steps 12 to 16 for all necessary connection points.

TIP: You may place a small weight on both ends of the cable to stabilize each end of the cable during this portion of the repair.

15. Using the heat gun, carefully melt the solder sleeve so that it shrinks over the conductor wires. Be careful not to apply too much heat to the solder sleeve otherwise this will weaken the connection.

16. Let the solder sleeve cool for 30 seconds.

17. Repeat steps 12 to 16 for the other conductor wire.

18. At the cold lead, use an ohmmeter to test the connection. Attach the alligator clips of the ohmmeter to the conductor leads (black lead and yellow lead for 120V kits / black lead and red lead for 240V kits) and verify that there is an ohm reading. If there isn’t an ohm reading, the solder sleeve connection is bad. Cut off the solder sleeve section and repeat steps 12 to 16.

19. Gently stretch the “ring” of copper braiding over the entire repair section.

20. Slide the small heat shrink tube from one end of the cable over the point where the extra copper braiding overlaps.

21. Using the heat gun, carefully melt the small heat shrink until it shrinks over the extra copper braiding and holds the copper braiding in place at one end.

22. Repeat steps 22 & 23 for the other end of the cable.

23. Slide the 4” piece of the heat shrink tube over the repair section ensuring that it covers the entire copper braid (repair section).

24. using the heat gun, melt the heat shrink tube until it shrinks over the entire copper braid (repair section).

For more information please visit www.nuheat.com/cable or call us at 1.800.778.WARM (9276).

# NUHEAT
# CABLE REPAIR KIT

Model # AC0040

Part # AC0040

Lot #

Assembled in Canada

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