



# Mapeheat<sup>TM</sup>

## **Cable Repair Kit** **For Damage to Mapeheat Cable**



### **DESCRIPTION**

*Mapeheat Cable Repair Kit* contains all materials needed to repair *Mapeheat Cable* that has been damaged.

### **BEFORE YOU START**

#### **Repair Kit components**

- 1 long heat shrink tube
- 1 copper braid
- 2 short heat shrink tubes
- 4 solder sleeves
- 1 conductor wire

### **HOW TO REPAIR MAPEHEAT CABLE**

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" (5 cm) of the red coating to expose the copper braid.
3. Using a small pair of scissors, remove 1-1/2" (3.8 cm) 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" (3 mm) of the wire insulation from both conductor wires of *Mapeheat Cable*. Be careful not to damage the metal wire inside.
5. Repeat steps 2 to 4 for the other end of the cable.
6. Ensure that the long 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 long 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 short heat shrink tube at each end of the cable. Again, slide it down the cable so that it does not obstruct the repair procedure.
9. Cut out about 3-1/2" (8.9 cm) of length of the extra copper braid.
10. Hold onto one end of the 3-1/2" (8.9 cm) length of the copper braid and compress (or slide) the copper braid toward 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. (It does not matter which conductor wire from each end.)
13. Insert each conductor wire into opposing ends of a solder sleeve.
14. Make sure that the exposed metal wire inside both 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.  
  
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 could weaken the connection.

# Mapeheat<sup>™</sup> Cable Repair Kit

16. Let the solder sleeve cool for 30 seconds.
17. Repeat steps 12 to 16 for all necessary connection points and 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 white lead for 120 V kits; black lead and red lead for 240 V kits) and verify that there is an ohm reading. If there isn't an ohm reading, the solder sleeve connection is bad, and you should cut off the solder sleeve and repeat steps 12 to 16.
19. Gently stretch the "ring" of copper braiding over the entire repair section.
20. Slide the short 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 short heat shrink until it shrinks over the extra copper braid and holds the copper braid in place at one end.
22. Repeat steps 20 and 21 for the other end of the cable.
23. Slide the 6" (15 cm) 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).

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