



# Mapeheat™

## Mat Repair Kit For Damage to Mapeheat Mat

### DESCRIPTION

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

### BEFORE YOU START

#### Repair Kit components

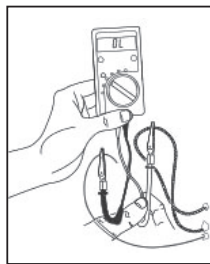
- 1 hollow piece of braid with lead wire inside
- 1 resistance wire
- 3 long solder sleeves
- 3 short solder sleeves

**▲ DO NOT CONNECT MAPEHEAT MAT TO POWER DURING TESTING.**

### HOW TO TEST

#### Insulation test

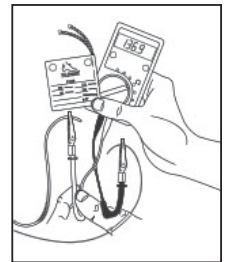
1. To ensure that the copper conductors are fully insulated: Acquire a digital ohmmeter or multimeter with alligator clips or an equivalent testing device. Place one meter probe on the grounding outer metallic braid and the other probe on the copper wire inside the white lead.
2. Confirm that the reading is 1 million ohms to infinity.
3. Repeat these steps to check the reading between the metallic braid and the copper wire inside the black lead.



#### Resistance test

1. To ensure heating continuity in your Mapeheat Mat: Acquire a digital ohmmeter or multimeter with alligator clips or an equivalent testing device. Set the meter to the lowest setting. Place one of the meter probes on the copper wire in the white lead and the other probe on the copper wire in the black lead.
2. Confirm that your ohm reading is within -10% or +5% of the factory reading listed on the tag of Mapeheat Mat.
3. Record the reading in the Resistance Testing Log.

Note: Mapeheat Mat must be tested before, during and after installation to validate the warranty.



### HOW TO REPAIR THE MAT WIRE

1. Determine the location of the damaged wire.
2. Using a sharp blade, cut the fabric alongside the wire approximately 8" (20 cm) on either side of the point of damage. Cut close to the wire, being careful not to nick or cut it.
3. Gently pull the wire away from the fabric.
4. Cut the wire at the damaged section.
5. Take the long solder sleeves from the repair kit and place one on each open end of the mat's resistance wire.
6. Take the hollow piece of braiding from the repair kit and slip it over one of the ends of resistance wire from the mat.



# Mapeheat<sup>™</sup> Mat Repair Kit

Note: Bunch the braid between your fingers while it is still on the packaged lead wire to make it easier to feed the resistance wire through it. Then discard the lead wire inside.

7. Cut 2" (5 cm) from each end of the damaged wire, leaving a space of about 4" (10 cm).
8. Push back the tined copper braiding from the resistance wire on the mat to expose approximately 3" (7.5 cm) of insulated resistance wire.  
Tip: If needed, heat up the wire to loosen glue on the braid.
9. Very carefully strip 1/8" (3 mm) of insulation from each end of the resistance wire.
10. Take the resistance wire from the repair kit and strip 1/8" (3 mm) of insulation from one end.
11. Take one small solder sleeve from the repair kit and place it over the new piece of resistance wire.
12. Overlap 1/8" (3 mm) of bared wire ends of the resistance wire from the damaged mat and the new piece of resistance wire.
13. Carefully slide the solder sleeve over the overlapping ends, ensuring that the solder ring is centered over the overlapping bared ends of the resistance wires. Ensure that the resistance wires are within the solder sleeve seals (the blue and clear bands).

Note: Keep the metal at least 1" (2.5 cm) away from the solder sleeve during the heating process to prevent a short between the wire and the metal braiding.

14. With the heat gun, heat the solder sleeve until the solder ring melts on the overlapped connection and the plastic tubing is shrunk tight around the insulation protecting the wire.

Note: Heat the ends of the solder sleeve first to seal in the solder.

15. Cut the loose end to the appropriate length, making sure that the stripped resistance wires overlap. Repeat the same procedure as steps 13 to 15.
16. Pull the bunched steel braiding over the repaired wire connections, making sure the hollow braid contacts the existing braid on both ends. Take the long solder sleeves and place one at each end of the hollow braid wire and heat per Step 15.
17. Place the repaired wire into the mat, fastening it in place with duct tape. The wires cannot overlap: A space of 1" (2.5 cm) must be maintained between the mat wires.
18. After finishing the repair, conduct insulation and resistance tests.

For details, call MAPEI Technical Services at 1-800-992-6273 in the USA or 1-800-361-9309 in Canada.

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