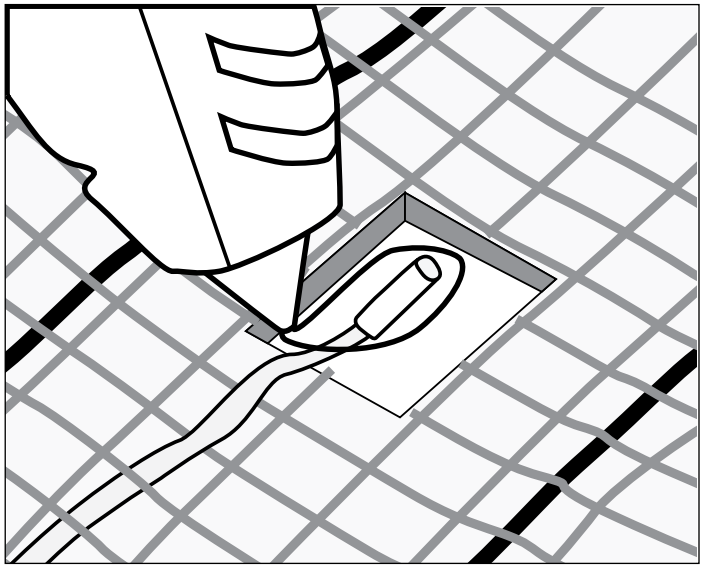
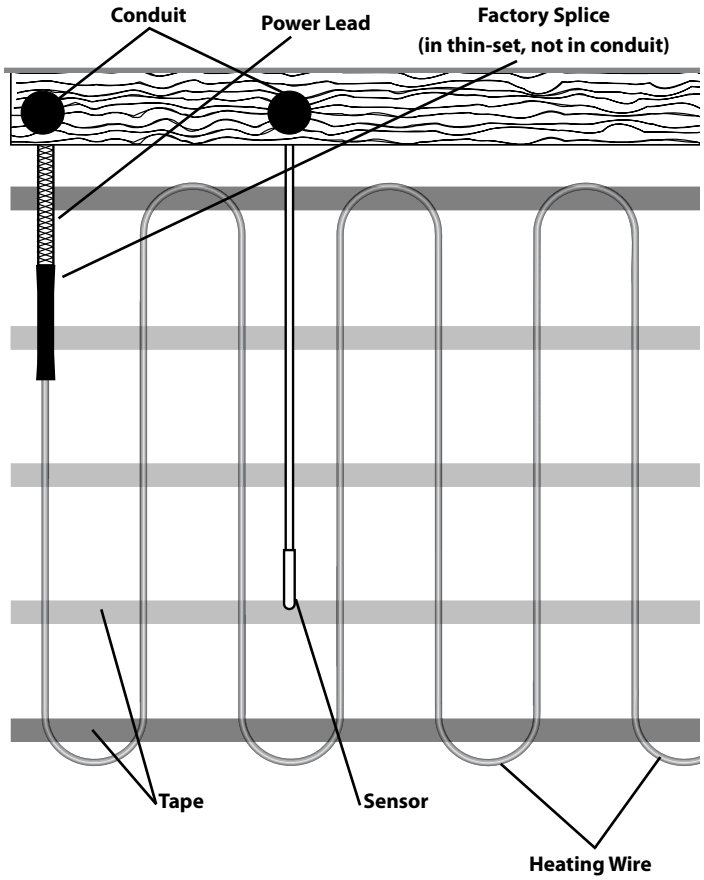
STEP 4.9

Feed the sensor wire through the sensor conduit, leaving at least 6"-8" of free lead length at the control electrical box. Weave the sensor at least 1' into the mat area halfway, between the heating wires, and secure it using hot glue. Do not cross the heating wires. It may be necessary to chisel a small section of the subfloor to accommodate the sensor, depending on the thin-set thickness being used.





Top-Down view of TapeMat and the sensor entering wall.

Change the meter to the 20,000 ohms (20 kΩ) range. Measure between the lead wires of the floor sensor. This resistance varies according to the temperature sensed. **Table 3** provides approximate resistance-to-temperature values for reference.

Table 3 (floor sensor resistance values)

Temperature	Typical Values
55°F (13°C)	17,000 ohms
65°F (18°C)	13,000 ohms
75°F (24°C)	10,000 ohms
85°F (29°C)	8,000 ohms