

Monitor temperature of your Freezer

Minimize air leak due to the sensor cable

Materials used

- ▶ LCD temperature monitor meter with sensor
- ▶ Thin copper foil
- ▶ Double side tape
- ▶ Thin plastic sheet
- ▶ Packing tape

Tools used

- ▶ Cutter
- ▶ Ruler
- ▶ Soldering iron
- ▶ Solder

Build a flat cable

step 1 - prepare your materials

1. Cut two copper strip with length of about 10cm and thickness of about 0.05mm
Any size of copper foil can be used because it is low current signal connection



2. Cut a plastic sheet with length of about 10cm and thickness of about 0.25mm
with width about 1mm wider than copper foil
Any size of plastic sheet can be used. You can get any from any plastic package
3. Cut 2 plastic sheet with length of 20mm and same width of item 2



Build a flat cable

step 2 - stack the materials

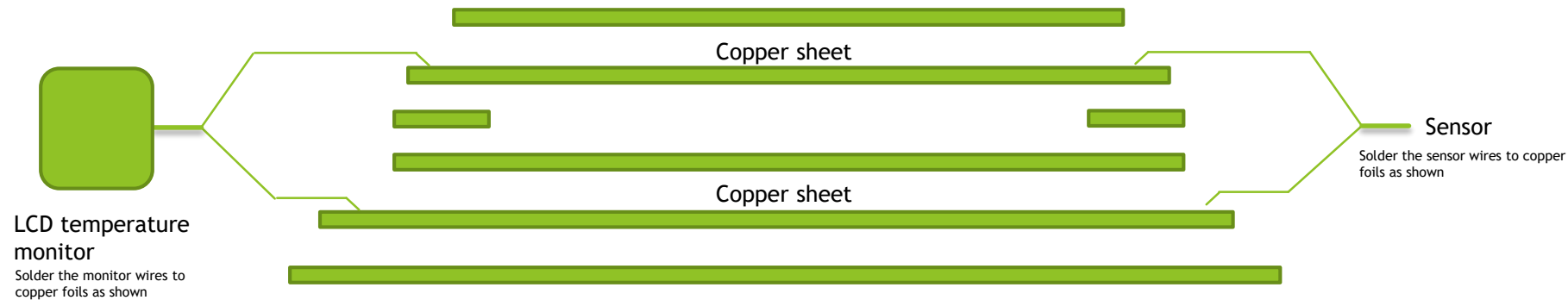
Stack up the materials as shown, use double side tape as necessary



Do not scale drawing

Modify LCD temperature monitor

1. Cut the sensor wire of LCD temperature monitor at about 10cm from sensor
2. Solder the wires to copper flat cable as shown



3. Use heat shrinkable tube to protect the ends of flat cable

Install to your Freezer

Use double side tape to tape the flat copper cable to the freezer as shown.
Done!!!

