

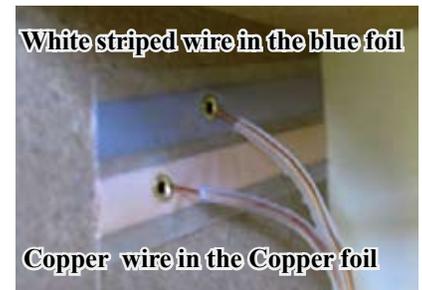
**E247 Power Jack and Plug set** makes the connection from your power supply to dollhouse wiring. This equipment is secure, durable, and unobtrusive making it the best way to supply power to a dollhouse. The Power Jack is glued into a 1/2" hole in the foundation and connects to the dollhouse wiring with solder or electrically conductive glue.

Build and electrify your dollhouse following accepted practices (visit [www.realgoodtoys.com/instructions/quickstart](http://www.realgoodtoys.com/instructions/quickstart) guide or the wiring section of the [dhubuilder.com](http://dhubuilder.com) website). Run your wiring all the way into the "cellar" if possible.

### Supplies you will need:

- Short piece of wire (24 to 28 gauge) like "speaker wire".
- Soldering supplies or electrically conductive glue like "Wire Glue".
- EL-66 electrification tool for making eyelet connections to the house wiring.
- Power supply sized for the electrical needs of the house.

It is good wiring practice to keep the copper-to-copper and the blue-to-blue in all wiring so you always know which lead you are connecting to; it is *essential* when you are using LED lights. This instruction will use speaker wire for the solid wire part of the hookup because it is striped on one lead, so it can continue the copper-to-copper and the blue-to-blue rule by connecting the striped wire to the blue lead in the tapewire. Solidwire electricians can switch the wires in the terminal block if they get mixed.



□ 1. Drill a 1/2" hole in the foundation in a place that is unobtrusive on the dollhouse and convenient to the house wiring (usually to the back of one side).



□ 2. If your wiring is already in the cellar, good! Otherwise, drill holes thru the floor to access the house wiring.

Here, the Tapewire was run into the cellar

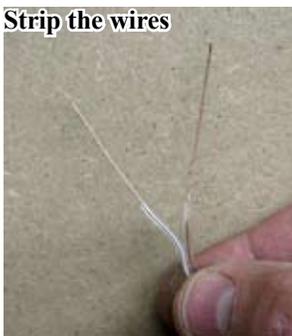


Here, the builder is drilling the Base Floor

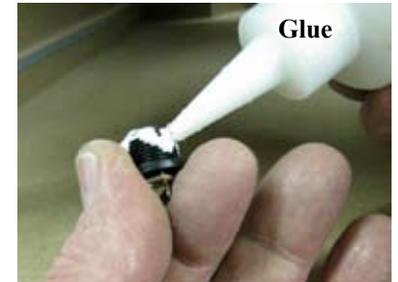
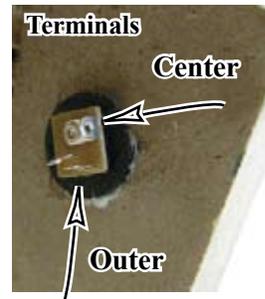


□ 3. Tapewire: Poke a hole in each lead of the tapewire with the small (1mm) pin of the EL-66. Strip the ends of a length of suitable wire and insert the ends into the hole. Push a small eyelet into the hole with the wire to stake the wire into the hole.

Strip the wires

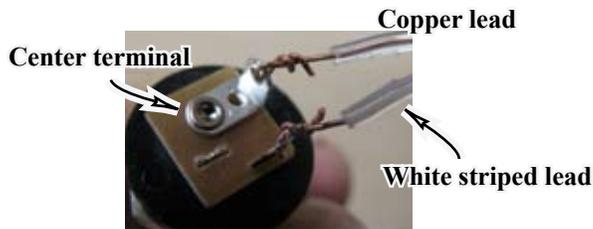


□ 4. Inspect the Jack; you will connect the copper wire to the Center terminal and the striped wire to the Outer terminal. The other terminal can be ignored or removed. Glue the Jack into the 1/2" foundation hole from the inside.



□5. Strip the ends of the wire and loop them into the Jack's terminals, with the copper lead connected to the center terminal.

Solder the wires to the terminals



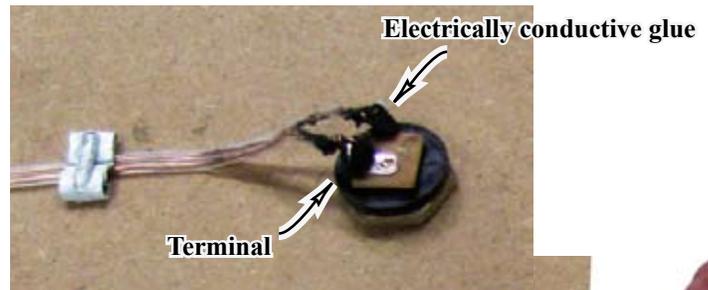
*Alternate for #5:* Smear electrically conductive glue onto the connection. Make certain that the glue does not go from one terminal to the other and that the wires do not touch each other. Staple or tape the wire securely to the foundation so there will not be any flex where the wire attaches to the terminal... electrically conductive glue *does not have any* mechanical strength at all.

You can make your own electrically conductive glue by mixing silicone glue (like "Goop" or "E-6000") with powdered graphite (lock lubricant) 50/50 (or more graphite if it can be mixed in). Do not use white glue for this task.

Alternate for Step 5

Twist the wires to the terminal

Apply electrically conductive glue



Mixing the glue



□6. Insert the 90° Plug into the Jack.

Attach the bare ends of the Plug's wire to the screws on the Power Supply.

Plug in the Power Supply (if you have LEDs in the circuit and they don't light up, switch the wires at the Power Supply).



**Additional Resources:**

[www.realgoodtoys.com](http://www.realgoodtoys.com), "Dollhouse Chronicles", "Customizing a Victoria's Farmhouse, part 5"  
[www.dhbuilder.com](http://www.dhbuilder.com), "Wiring"