

"TOTALLY WIRED" TELEPHONE POLES

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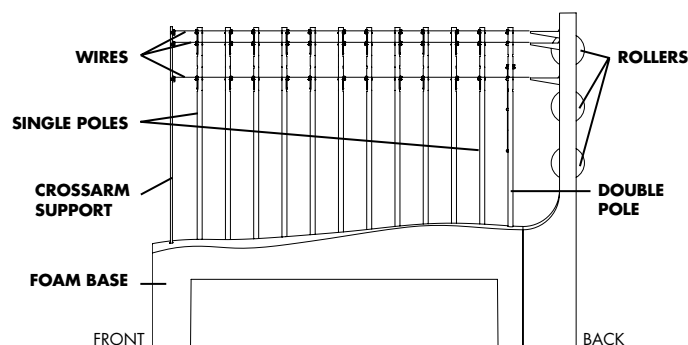
Please read all of the instructions first. It will make your life easier.

You should have the following tools handy:

- CA ("Super Glue")
- CA Accelerator
- Small pliers
- Small screwdriver or bamboo skewer (for foam scenery)
- Hammer and nail or drill (for wood/plaster scenery)

To install the poles on your layout, follow the following steps:

1. Remove the entire foam and plastic assembly from the box.
2. Remove the pins and the pieces of tape from the rollers. If the pins are pushed in too tightly, use small pliers to remove them. Be careful when doing this that you don't let the rollers move, or the wires can become tangled.
3. Remove the crossarm support (with crossarms still attached) from the foam base.
4. We recommend that you start your pole line behind a building or from the backdrop or other scenic element. To do this, add a drop of CA ("Super Glue") to each insulator on the crossarm support to secure the wires. Use accelerator to make sure the CA has dried. After the glue has set, trim the wires in front of each insulator and glue the three crossarms where you want the pole line to start.
5. If you want to start from a pole, then follow the steps above on the first telephone pole instead of the three crossarms. Discard the three crossarms on the crossarm support. **Warning:** If you start the pole line from a pole, the end pole will likely bend when you pull the wires taut.
6. Decide the length of your pole spacing. The maximum spacing possible in order to have even spacing between all poles is 110 scale feet, or 15 inches. We recommend 11 inches. It looks good on an average-size HO scale layout.
7. **Make holes for your poles before you start.** If you have foam scenery, use a small screwdriver or bamboo skewer and just push it into your scenery. If you have wood or plaster-covered scenery, use a nail or a drill. Mark the holes with a black marker, chalk, or something else that is visible on your scenery. **Remember to punch two holes for the 12th pole, which is a double pole.**
8. The trick is to move the foam base, not the poles. Remove the poles from the foam base one at a time, slowly moving the foam base away from where your pole line started. **Once you've started, do not take a break!** The wires may become tangled if you stop mid-way.
9. **Very Important:** Take it very slow and keep the wires taut. If you pull the foam base too quickly, the rollers will over roll. This will result in tangled wires. Even going at a snail's pace, you will be able to install 12 poles in about three minutes.
10. Continue until all of the poles are planted. The double pole is fragile, and must be treated with care. The double pole has crossarms on its front, but not on its back.
11. When all of the poles are installed to your satisfaction, add a drop of CA on each insulator of the double pole to secure the wires. Use accelerator to make sure the CA has dried. After the glue has set trim the wires behind each insulator on the double pole.
12. If you have installed the poles on a wood or plaster scenery base, now go back and add some white glue to the base of each pole to secure it. The glue can be covered with grass, paint or foliage later.
13. To continue the line of poles, take a new package of "Totally Wired" Telephone Poles and glue and trim the wires on the three crossarms on the crossarm support. Remove the wires then attach them to the back of the double pole (installed in step 10) with CA. Repeat steps 7-12.



Some recommendations from our experience:

1. **DON'T TANGLE THE WIRES!** This is the most important thing to remember. The wires can easily become tangled if you knock over the foam base while you are installing the poles. They can also become tangled if you allow too much slack in the wires or take a break in the middle of installing a string of 12 poles. Once the wires are tangled, it is very difficult to salvage that set of Telephone Poles.
2. **Remember to use Super Glue Accelerator!** At each end of your 12-pole run, you need to put a drop of thick CA or Super Glue on each insulator to permanently fasten your wires. Spray the insulators with CA Accelerator before trimming the wires to keep them firmly attached. If you don't use CA Accelerator, there's a good chance a few of your wires will pull out once you trim them. You don't want this to happen. Ask us how we know.
3. Telephone and telegraph poles of this design were used for much of the 20th century, and are still in use today. They should be placed alongside your right of way, but not too close to the track. Try to keep the center line of the poles at least 2" from the outside rail.
4. Telephone poles are generally 40 feet tall (5.5 inches), but can be higher or lower depending on the terrain.
5. Hide the start and stop of your line behind buildings, scenery elements (such as forests or hills) or backdrops, to create the illusion that the telephone lines continue beyond the boundaries of your layout.
6. Some insulators on real poles are green. You can paint the insulators with green paint after installation. Almost any bright green or blue-green will work.
7. If possible, try and install the pole line between your track and the backdrop, rather than between the track and the aisle on your layout. This will reduce the number of downed lines due to stray arms, hands, hammers, etc.
8. If you accidentally down a line of poles and some of the poles are broken, it is easiest to remove the entire 12 poles and insert another set. This avoids stringing the 17 wires through new poles.
9. Notes for rivet-counters like us: we wanted to use transparent insulators, but transparent plastic is too brittle and does not have the necessary tensile strength for our poles. You will notice the tops of the poles are cut on an angle. This was done in real life for drainage purposes to avoid wood rot. We had to rotate the angle of the cut by 90 degrees due to the plastic injection process. They will still drain properly, and we guarantee there will be no wood rot on our poles.
10. If you read these instructions but you still tangled the wires on your first attempt, we will replace your set for \$20 including postage and handling (in Canada and the United States). **Do not send any money now.** Please call us first at the number below for more information.



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