

Wiring your home for multiple phone jacks with Clearwire Voice Service

Connect in 5 Easy Steps

IMPORTANT - This information should be used as a general reference as your situation may differ from the information provided here. Telephone wiring carries electrical voltage and there's always a risk of causing a fire or damage to your phone lines or equipment. If you are not comfortable making modifications to your home wiring, contact a professional electrician to complete the work for you.

Before getting started you have two options:

- 1) Purchase a multi-station cordless phone and you're done.
OR
- 2) Use your existing inside telephone wiring. This document will show you how. It may be as easy as opening a box and unplugging one wire.

**When calling for technical assistance, we may ask you to disconnect your Clearwire Voice Adapter from the home wiring and connect it directly to a phone as part of our trouble-shooting process.

Step 1: Get the tools

Getting Ready: Before you get started make sure you have all the following:



Flathead screwdriver



Small wire-cutters



Black electrical tape

Step 2: Check your wires

Inside wiring configurations are usually a hub-spoke layout with each spoke consisting of parallel wires that connect together at the Network Interface Unit (NIU).

In older homes, the wiring is usually “quad scheme” with red, green, yellow, and black wires. The red and green wires typically carry the telephone signals and the black and yellow wires do nothing.

In newer homes, the inside telephone wiring is likely CAT3 or CAT5 cable using 3 or 4 pairs of wires and the following color scheme (Figure 1). The two blue wires in the middle are the equivalent of the red and green wires in older systems.

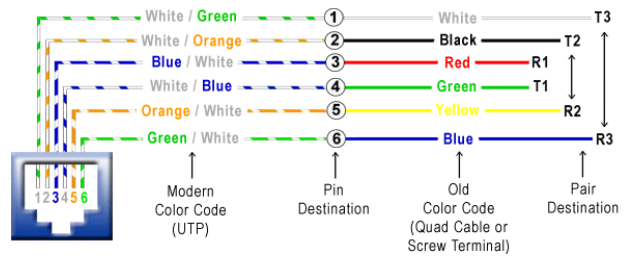


Figure 1: This diagram shows the color schemes for newer and older wiring systems. On the older systems, red and green are line one and black and yellow are line two, if available.

Step 3: Have a look around

Outside your home

Find the NIU (Figure 2) located outside the home, probably near the cable box and the electrical meter.



Figure 2: Telephone Company NIU

The portion of this box that you can open with a screwdriver is called the customer access panel (It’s okay to open it. The phone company will not get mad at you.) Inside, next to the jack, is a telephone wire with a modular plug. It looks like an ordinary telephone cable plug. This wire connects to the screw posts that are connected to your home’s telephone wires. Some newer NIU’s lack a modular plug. Instead they use a hinge closed over the jack. (Figure 3 shows an NIU with RJ-11 jacks).

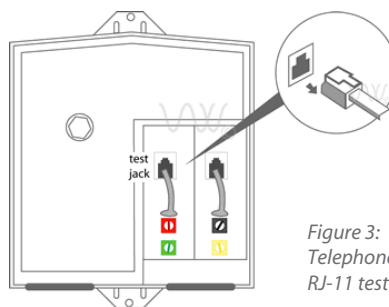


Figure 3: Telephone Company NIU with RJ-11 test jacks

NIU's usually have test jacks that are wired directly to the Telephone Company. Just unscrew the box cover. If your NIU is older you may find two or more sets of screw terminals and plugs (Figure 4). Disconnect all plugs and tape electrical tape to the ends of each one, thoroughly covering each one.



Figure 4:
Older NIU

On newer NIU's (Figure 5) you may have to unscrew the wiring from the terminals and cover the ends with electrical tape.

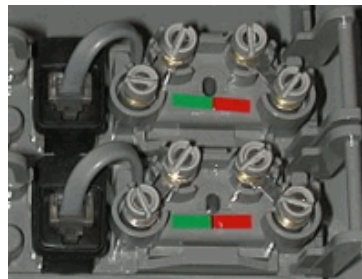


Figure 5:
Newer NIU

Step 4: Leave a note

Leave the "ATTENTION TELEPHONE COMPANY" notice inside the box. There's one at the end of this document.

Step 5: Go inside

Connect your Clearwire Voice Adapter to your inside wiring at any phone jack. A normal RJ-11 telephone cable is normally included with a telephone and not with a Clearwire Voice Adapter (Figure 6).

Typically voice adapters only have enough ring power for three to four telephones. Connecting more than that may cause all of them to stop working. It is best that you plug one telephone in at a time to test for dial tone and ensure you do not have this problem.

If you want a phone on the same jack as the Clearwire Voice Adapter, use a phone jack duplexer (Figure 7).



Figure 6:
1. Voice adapter, 2. RJ-11 Cable, 3. Standard RJ-11 Jack.



Figure 7:
Jack Duplexer

Telephone Company Notification

Print this card; cut out and tape inside your NIU.

Attention

Telephone Company

VoIP Equipment In Use
Do Not Reconnect Telephone Service
Damage to Equipment May Occur