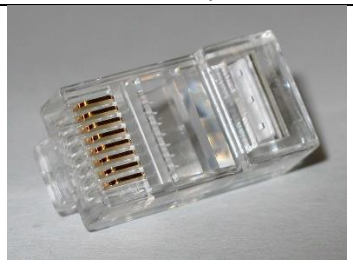
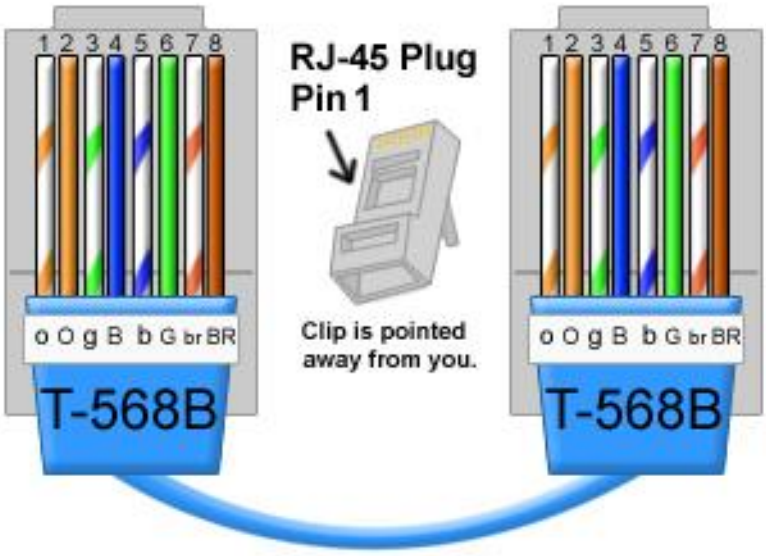
# Ethernet Termination Guide

**Components/tools required**:

| | |
|---|---|
| Ethernet cable (CAT5 or CAT5e | Wire cutters |
|  RJ-45 Connector | Crimper |

**Step One**: Determine the length you desire for your cable and cut it with the wire cutters. Then, open the cutters and insert the bottom of the mouth into an open end of the cable. Measure your RJ-45 connector, and make a cut roughly 2-3cm longer than it, avoiding the twisted wire pairs inside, only cutting the outer shielding. Pull the shielding back and off the twisted pairs, and cut it off the cable, leaving your twisted pairs exposed.

**Step Two**: Untwist your twisted pairs to order them like the diagram to the right. Once ordered properly, gently push them inside your RJ-45 connector until they reach the back of it. Make sure all the wires are in their proper place before proceeding to the next step.



**Step Three**: Holding the twisted pair in place, put the RJ-45 connector with the wires inserted into the crimper in the proper slot for an Ethernet cable (labeled 8P on most crimpers). Squeeze the crimper closed slowly with moderate force as to not damage the cable. With some RJ-45 connectors you may here a small snap or click as it is closed. Once you have done this, remove the cable from the crimper. Repeat steps two and three for the other end of the cable.

**Step Four**: Test your new cable. If you have an Ethernet cable tester, use this. Otherwise, use a computer and a router/modem connected to the internet. Make sure the connection works; if this is not the case check both ends of the cable to ensure that 1) the twisted pair colors are in the same place on both ends of the cable and 2) the RJ-45 connector is closed all the way.