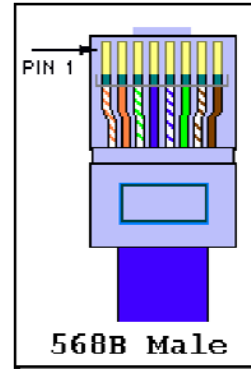


Introduction to Networks

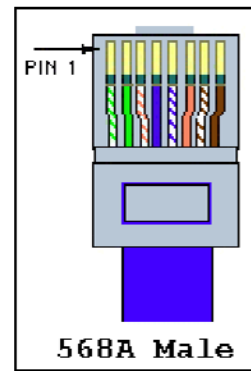
Creating a Crossover Cable

Building a Crossover Cable

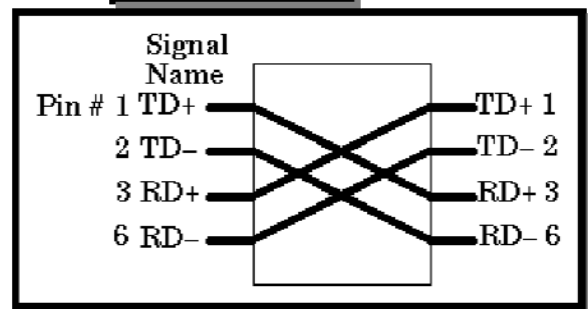
1. Use the wire cutter to make a clean cut at both ends of the UTP cable.
2. Use the wire stripper to remove about $\frac{3}{4}$ " of the sheath from one end of the cable. Be careful not to damage (nick or cut) the insulation the insulation on the twisted pairs inside.
3. Slightly separate the four wire pairs, but keep them twisted around each other.
4. Arrange the wires in the correct sequence from illustration at left:



5. Make sure that the wires are lined up correctly and insert them into the RJ45 connector per the illustration.
6. Insert the connector into the crimping tool and crimp the connector onto the cable.
7. Repeat steps 2 through 6 on the other end of the cable per the following illustration:



8. By wiring per 568B on one end and 568A on the other, you have created a Crossover Cable. See the following wire-map:



Testing Your Cable

1. Normally the best way to verify a cable is with a quality tester. These can run over \$2000 and we are fortunate to have a borrowed one for today's class. Bring your cable to me and I will inspect and test it for you.
2. Another way to confirm that your cable is working, is to unplug the existing cables from two adjacent computers and plug in your crossover cable.
3. If the lights on each NIC turn on, you are in good shape; otherwise you need to start over
4. Don't lose your cable...we will use them later!