



# Making Ethernet Cable

## Quick Start Guide

### Quick Start Step-by-Step

Purchasing ready made Ethernet cables is often expensive, and can lead to wasted cable. Purchasing a bulk box of Category 5E (CAT-5E) cable, cutting it to the needed length, and attaching crimpable RJ-45 connectors to the cut ends is much easier.

**1** The items needed to make your own cable are shown in # 1. They include bulk cable, RJ-45 crimpable connectors sold in bulk, and an RJ-45 crimping tool.

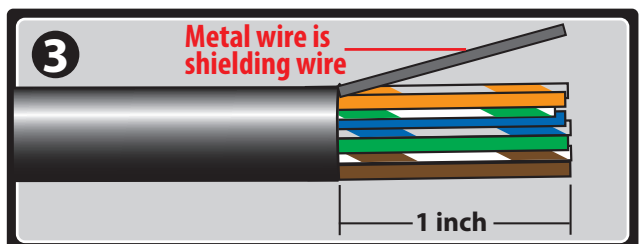
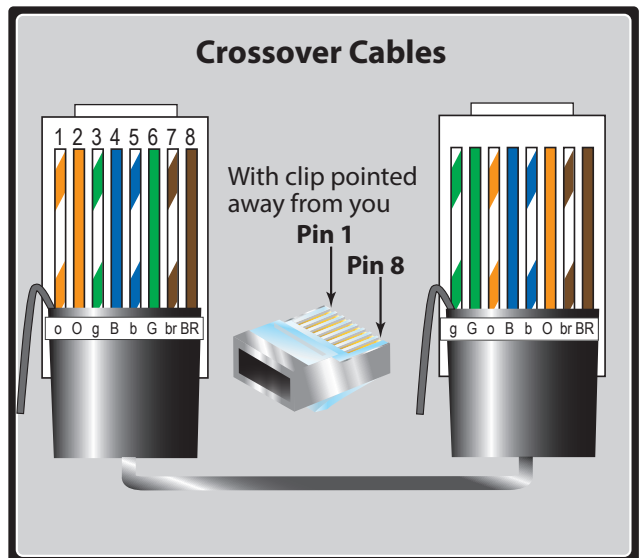
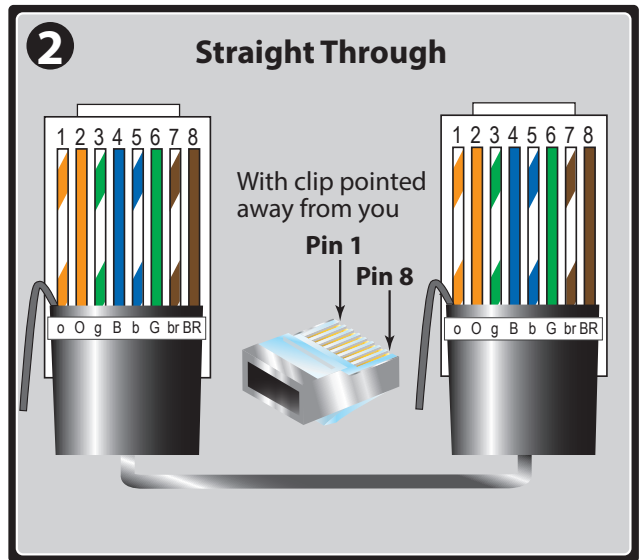
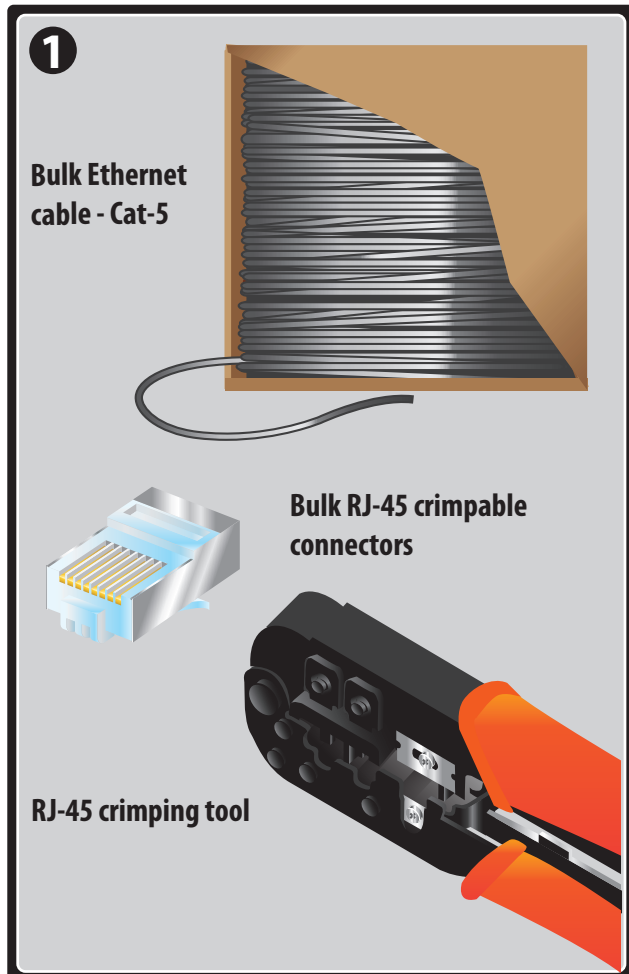
**2** There are two types of Ethernet cables you can assemble: **Straight Through** and **Crossover**.

**Straight Through** - It is recommended that you duplicate color order as shown in # 2. Note the green pair is not side by side like the other pairs. This configuration allows for longer wire runs.

**Crossover Cables** - The purpose of a Crossover cable is to

directly connect one computer to another computer (or device) without going through a router, switch or hub.

**3** Cut into the plastic jacket 1 inch from the end of the cut cable using a cutting/stripping tool. (Available in Ethernet Starter Kit p/n 20168.)





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- 4 Un-twist and pair the similar color wires
- 5 Pinch the wires between thumb and fingers and straighten the wires. Line the cables to form a **straight through** standard CAT 5E cable, see #2.
- 6 Use scissors to make a straight cut across the wires, 1/2 inch from the cut sleeve to the end of the wires. Then bend the metal shielding wires down.
- 7 Push the wires into the connector. Note the position of the gray plastic shielding. The shielding must go inside the connector to be locked in place. Additionally, all of the wires must be all of the way in. There should be no short wires. The shielding wire must make contact with the metal housing.
- 8 To crimp the cable, carefully place the connector into the crimper and cinch down on the handles tightly. The copper splicing tabs on the connector will pierce into each of the eight wires. There is also a locking tab that holds the gray plastic sleeve in place for a tight compression fit. When you remove the cable from the crimper the cable is ready to use.
- 9 Repeat the steps for the other end of the cable.

