



RJ45 Tester
 Norbert Doerry
 August 30, 1998
 Rev 1: Sept 21, 1998

RJ-45 Tester

Introduction

The RJ-45 Tester consists of two boxes, each with an RJ-45 Jack and 8 Light Emitting Diodes (LEDs). To test a cable, the cable is initially plugged into box 1 alone. The 8 LEDs on box one should light up in sequence followed by a pause with no LEDs on. If any short exists across 2 of the wires, then multiple LEDs will light up on this test, indicating the shorted wires.

This second test consists of plugging the other end of the cable into box 2. On box 2, the LEDs should light up in sequence followed by a pause. If the cable is not wired correctly, the LEDs will not light up in order. Additionally, if an LED does not light up, then that wire has an open in it. During this test, the LEDs on box 1 will light up brightly in sequence with the remaining LEDs dimly lighting up.

Cross Connect Cables

For a normal patch cable, the LEDs on box 2 should light up in order. For Cross-Connect cables however, the correct order is as follows:

3, 6, 1, 4, 5, 2, 7, 8

Testing RJ-11

For a normal telephone patch cord, the LEDs on box 2 should light up in the following order:

6, 5, 4, 3 for a 4 conductor cable

Or

5, 4 for a 2 conductor cable

