



Name : Waqar Ahmed

Roll No : 20P-0750

Lab Task - 2a

Section : BCS-5A

Experiment 1 - Building a Category 6 (CAT 6) Straight-Through Ethernet Network Cable .

Material:

1. CAT 6 Ethernet cable
2. RJ45 connectors (two pieces)
3. Crimping tool
4. Cable tester

Procedure: For A Side:

Step 1: Gather Materials

Ethernet cable, RJ45 connectors, crimping tool and a cable tester.

Step 2: Prepare the Cable

cut the Ethernet cable to your desired length

Step 3: Arrange the Wires

Orange-White, Orange, Green-White, Blue, Blue-White, Green, Brown-White, and Brown.

Step 4:

all the wires should be in equal length.

Step 5: Insert Wires into the RJ45 Connector

Step 6: Crimp the Connector

Step 7: Repeat for the Other End (B)

Experiment 2: Building a Category 6 (CAT 6) Cross-Over Ethernet Network Cable .

Procedure: For A Side:

Step 1: Gather Materials

Ethernet cable
RJ45 connectors
Crimping tool
Cable tester

Step 2: Prepare the Cable

Cut the Ethernet cable to your desired length.

Step 3: Arrange the Wires

Orange-White, Orange, Green-White, Blue, Blue-White, Green, Brown-White, and Brown.

Step 4: Ensure Equal Length

Step 5: Insert Wires into the RJ45 Connector

Step 6: Crimp the Connector

Step 7: Repeat for the Other End (B)

For Side B:

green-white, green, orange-white, blue, blue-white, orange, brown-white.
and brown.

