

BUDGE BUDGE INSTITUTE OF TECHNOLOGY



Name:- Sudip Basu

Stream:- Computer Science and
Technology (CST)

Year:- 2nd

Sem:- 4th

Subject:- Computer Network Lab

Roll No:- 16

Registration No:- D181902025

- Name Of the Equipment:- Prepare and test using CAT5e untwisted pair cable and crimping tool.

- Tools Required:-
 - 1) RJ45 Connector,
 - 2)Crimping Tool,
 - 3)Cat 5e UTP Cable,
 - 4)Scissor.



- Procedure:-

Step 1:= Start by stripping off about two inches of plastic jacket off the both ends of the cable,

Step 2:= Spread the wires appart but be sure to hold on to the base of the jacket with your other hand.

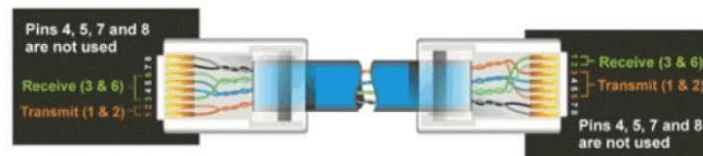
Step 3:= Untwist the wires and make it as Straight as possible and cut the head of the wires equally with the blade Section of crimping tool.

Step 4:= Arrange the wire according to the colour combination and stuff the wire , into the connector ,making sure the wires stay line up and wire should reach the evtreme end of the connector .

Step 5:= Now insert the cable into the crimping tool and crimped it .

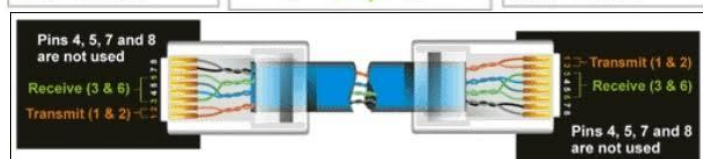
Step 6:= Use a cable tester to check for proper connection.

- Diagram for combination of and Cross over



colour
Straight
cable.

| Pin number | | Wire Color | | Crossed-Over | | Pin number | | Wire Color | |
|------------|--------------|------------|--------|--------------|---------|------------|--------------|------------|--------|
| Pin 1 ==> | Orange/White | Pin 2 ==> | Orange | Wire | Becomes | Pin 1 ==> | Green/White | Pin 2 ==> | Green |
| Pin 3 ==> | Green/White | Pin 4 ==> | Blue | 1 | 3 | Pin 3 ==> | Orange/White | Pin 4 ==> | Blue |
| Pin 5 ==> | Blue/White | Pin 6 ==> | Green | 2 | 6 | Pin 5 ==> | Blue/White | Pin 6 ==> | Orange |
| Pin 7 ==> | Brown/White | Pin 8 ==> | Brown | 3 | 1 | Pin 7 ==> | Brown/White | Pin 8 ==> | Brown |
| | | | | 6 | 2 | | | | |



| Pin number | | Wire Color | | Straight-Through | | Pin number | | Wire Color | |
|------------|--------------|------------|--------|------------------|---------|------------|--------------|------------|--------|
| Pin 1 ==> | Orange/White | Pin 2 ==> | Orange | Wire | Becomes | Pin 1 ==> | Orange/White | Pin 2 ==> | Orange |
| Pin 3 ==> | Green/White | Pin 4 ==> | Blue | 1 | 1 | Pin 3 ==> | Green/White | Pin 4 ==> | Blue |
| Pin 5 ==> | Blue/White | Pin 6 ==> | Green | 2 | 2 | Pin 5 ==> | Blue/White | Pin 6 ==> | Green |
| Pin 7 ==> | Brown/White | Pin 8 ==> | Brown | 3 | 3 | Pin 7 ==> | Brown/White | Pin 8 ==> | Brown |
| | | | | 6 | 6 | | | | |