

Practical No. : 4

AIM: Creating a networking cable using crimping tool & study different types of connectors.

Objective: 1.Study different types of connectors and other network components.

2.To create a LAN cable using a crimping tool.

Equipments : RJ-45 Connectors, Crimping Tool, Cat-6 cable, Testing tool

Theory:

Types of Connectors used in Coaxial cable:

BNC (Bayonet Neil Concelman),

N series Connectors,

F Type connectors,

SMA or Subminiature connector,

TNC (Threaded Neil Concelman), etc.

Types of Connectors Used: Mainly these four connectors are used with fiber optic cable:

- ST (Straight-tip) Connector
- FC (Fiber Channel) Connector
- SC (Subscriber) Connector
- LC (Lucent) Connector

Crimping of Cable Using a Crimping Tool :

1. Strip the cable back 1 inch (25 mm) from the end.

2. Untwist and straighten the wires inside of the cable.
3. Arrange the wires into the right order as per the color code sequence.
4. Cut the wires into an even line $\frac{1}{2}$ inch (13 mm) from sheathing.
5. Insert the wires into the RJ-45 connector.
6. Stick the connector into the crimping part of the tool and squeeze twice.
7. Remove the cable from the tool and check that all of the pins are down.

Conclusion: In this experiment we have studied various networking connectors & created LAN cable using a crimping tool.