

STUDY OF NETWORK COMPONENTS.

AIM:-

Study of different types of Network cables

a) Different types of Network Cable:

1. Unshielded Twisted Pair (UTP) cable

Advantage:-

Cheaper in Cost.

Disadvantage:-

More prone to EMI

2. Shielded Twisted Pair (STP) Cable:-

Advantage: Faster than UTP

Disadvantage: Expensive

Application: Gigabit Ethernet.

3. Coaxial Cable:-

Advantage: High bandwidth.

Disadvantage: Limited distance.

Application: High Speed Internet Connection

A. Fibre Optic Cable:

Advantages: High Speed.

Disadvantages: Expensive

Application: Maximum distance of fibre

b) Make your own ethernet cross-over cable:-

Step - 1 : Start construction of device begin by threading shields.

Step 2: Strip 1.5 cm of cable shielding from both ends.

Step 3: Untangle the wires, should be twisted pairs.

Step 4: Once order is correct, bunch them in a line and if there are any stick.

Step 5: Next push the cable right in. The end of the plug needs to be just one corner the cable shielding.

Step - 6: After the wires are securely shifting inside plug, insert it into the crimping tool and pushdown.

Step - 7: Lastly, repeat for other end using diagram B using diagram A.

RESULT:-

To test it, plug it in and attempt to connect two device directly.

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