EXPNO.2 24/07/2024

AIM: - Study of different types of Notwork cables.

a) Understand different types of network cable

Different types of able used in networking are:

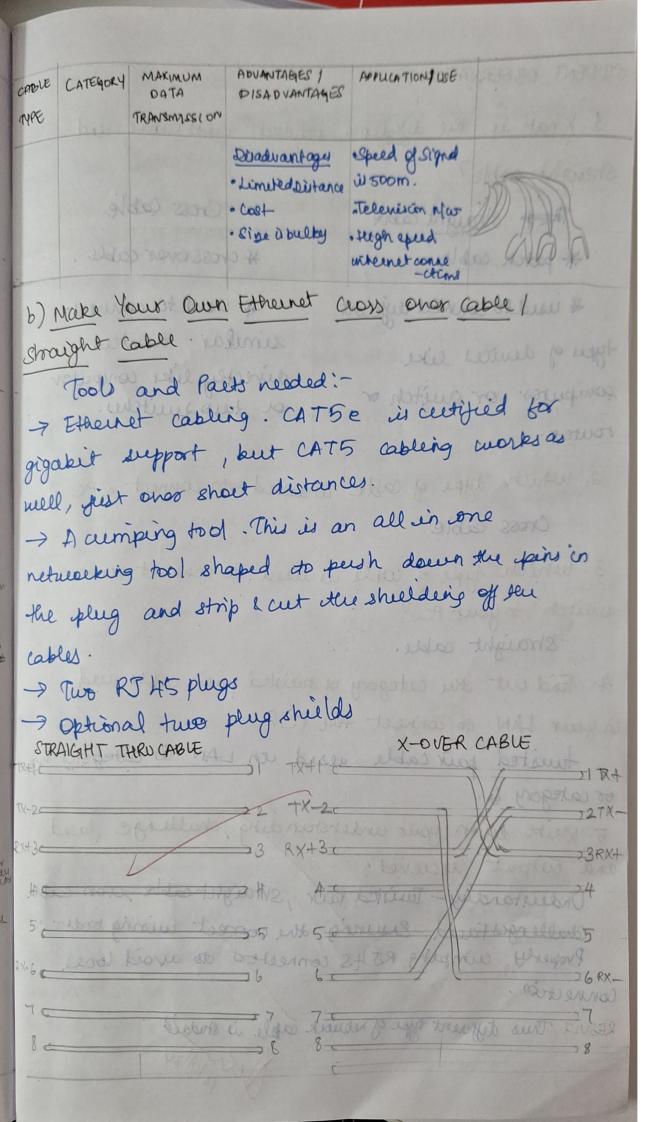
1 - Unshielded Twisted Pair (UTP) Cable:

2- Shielded Twisted Pair (STP) cable

3- Coaxial cable

4. Fibre Optic Cable.

| 4. 4 | iore opin | t and | | | |
|---------|----------------|---------------|--|---------------------------------|-----------------------|
| CABLE | CATEGORY | TRANSMISSION | ADVANTAGES/ DISADVANTAGES | APPLICATION # | IMAGE |
| 12-170 | Category3 | | Advantages A cheaper | 10Base-T Ethernet | Toiste |
| UTP | | opto 100 Mbps | * Easy to install : smaller | Fast Ethamet Gigabit Softmen | or pains |
| | Categoryse | llabps | overall diameter Diradvantage | Fast-Sthemet | AN ACHOUNT |
| | | | · More prone to EM I | Gigabiteleant | outer jacket |
| 8 TP | Categraybiba | 10 Slbps | Advantage | Gigabit Ethernet | Particular overheld |
| SSTP | Caregory7 | 10 62 bps | · Faster than UTP · Less Eusceptible to how 2 wheyem | widelyweden data centers. | |
| | | | Disadvantages Expansive Expansi | Glydoit Sthand | |
| 0-14 | RG-6 | | Advantages Heigh bandwidth | | 1 Foul shed |
| Coaxial | RG-59 RG-11 | 10-100 Mbps . | Innual to Interference | | ower Brieded Dielecon |
| | | 6 | andowidth | | o xuil ne |
| | | | Voisatile | | 9 |



STUDENT OBSERVATION:

between cross cable and 1. What is the difference

Straight cable?

touter.

The p straight cable

* patch cable

* used to connect different

types of devices like computer or switch or 1900 · Cross cable

* cross over cable.

* used to connect similar devices directly like computer a tere suitcher.

2. Which type of cable is used to connect 2PC? cross cable le no is with foot prigmes A

3. which type of cable is used to connect router plug and 8th Leut o switch to your PC?

straight cable.

4. Find out the category of truisted pair cable und in your LAN to connect the PC? and sout lond

twisted pair cable used in LAN is category 50

or category 6. 5. Write down your understanding, challinge faced and output received?

Understanding - Twisted Pair, straight cable scross cable Challenges Faced - Ensuring the correct wining trader. Property cumping RJ4S connectors its avoid loose

RESULT. Thus different type of network caple is studged