study of different types of retwork cables a) understand different types of network cable Different types of cable used in networking

MDT UP LO 100 Mbps

- 1. Unshielded Twisted Pain (UTP) Cable
- 2. Shielded Twisted Pain (STP) Cable
- 3. Coascial cable milesaggin
- 4. Fibre optic cable

UTP

i. Category 3

Max. Data Transmission (MDT): 10 bps

- Gigabit etherst

Adv:

- Cheaper in cost - Easy to install as they have a smaller overall diameter

Dis-adu: surreporti

- More prone to EMI alreadosia

Application - Greator installation

10 base T Ethernet reilasilge

toward Sthough ( 20) Conter of jacket

ii. Category 5 & Cambagas MDT: Up to 100 Mbps Application 1, the state of the state - Fast ethernet
- Gigabit ethernet iii. Category 50 mot laster bellevisor ! MDT: IGibps had start babaile . Application: aldos bissoco - Fast ethernet de la constant de la STP Category 6,60 HDT: 10 G Bps Advantages: - Shielded too at regrent - Faster than UTP - Less susceptible to noise and interference Disadvantages de among small - Esopensive - Greater installation effort Application Torontial - Gigabit Ethernet - 10 G Ethernet (55 m)

Category 7 day In

MDT: 10 Gbps

Application

- Gigabil Ethernet

- 10 G Fthernet (100m)

Coascial Cable

RG-6, RG-59, RG-11

MDT: 10-100 Hbps

Adv

- High bandwidth - Immure to interference

- Low loss bandwidth

- Versatile

Dis-adv

- Limited distance

- Cost

- Size is bulky

Application

- Speed of signal is 500 m

· Television network

- High speed internet connections

outer Jacket Fibore Optics Cable Single mode, Multi mode MDT: 100 Glops Adv: - High speed - High bandwidth - High security - Long distance Dis-adv 11-108 pz-108 3-108 - Eschensive - Requires skilled installers Application - Max dist is around 100 m as idealisette Result - Speed of signal is Different types of network cables have

been studied