

DIFFERENT TYPES OF NETWORK CABLES

To study different types of network cables:

1. Unshielded Twisted Pair (UTP) Cable:

Category - 3, 5, 5C

Maximum Data Transmission - 10 Gbps, Upto 100Mbps

Advantages:

- Cheaper in cost
- Easy to install

Disadvantages:

- More prone to EMI

Use:

- 10Base-T Ethernet
- Fast Ethernet, Gigabit Ethernet

2. Shielded Twisted Pair (STP) Cable:

Category - 6, 6A

Maximum Data Transmission - 10 Gbps

Advantages:

- Shielded
- Faster than UTP

Disadvantages:

- Expensive
- Greater installation effort

Uses:

- Gigabit Ethernet
- 10Gb Ethernet

3.

Coaxial cable :

Category - RG6, RG59, RG11

Maximum Data Transmission - 10-100 Mbps

Advantages :

- High bandwidth
- Immune to interference
- Low loss bandwidth

Disadvantages :

- Limited distance
- Cost

Uses : speed of signal is 500m Television networks

4.

Fibre Optics Cable :

Category - Single, Multi mode

Maximum Data Transmission - 100 Gbps

Advantages :

- Highspeed
- High bandwidth
- High security

Disadvantages :

- Expensive
- Require skilled installers

Use :

- Maximum distance of fiber optic cable is around 100m

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Result ? Result :

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Thus the different types of network cables have been studied successfully.