AIM: Study of different types of Notwork call

Different type of cables of network:

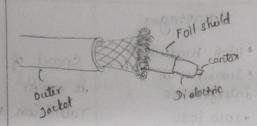
- 1. Unshielded Twisted Pair (UTP) cable
- 2. Shielded Twisted Pair (STP) cable
- 3. Coaxial cable
- 4. Fibre Optic cable.

Cable Type	Category	Maximum Data Transmissi -on	Advantages/ Disadvantages	Application/
	Category 3	10 bps	Advantages • cheaper in cost	10 Base -T Ethemo
UTP	Category 5	Up to loo Mbps	· Easy to Pristall as they have a smaller overall diameter.	Fast Ethernet, Gigabit Ethernet
	Catigory 50	IGbps	Disadvantages	Fast Etherhet, Gigabit Ethernot
			(EMI) Electromagnetic Interference and noise.	3 x
STP	Category 6,	logbps	Advantages • Shielded • Faster than UTP • Jess susceptible to noise and interference	Gigabit Ithouse 1061 Ethernot (6011 widely used in data centres
	Category 7	10G1bps	Disadvantages • Expensive • Greater Finstallation effort	Gigabit Ethernet 109 Ethernet (100 m)

cable	Category	Maximum Data Transmission	Advantages / Disadvantages	Application /		
coaxal	RG1-6 RG1-59 RG1-11	10-100 Mbps	Advantages * High bandwidth * Immune to Interference * Low loss bandwidth * versatile Disadvantages * Limited distance * Cost * Sizo "e bulky	Speed of signal is soon tolevision network thigh speed internet connections		
optics	mode	100 Gps	Advantages · High speeds · High bandwidth · High security · Hong distance Disadvantages · Expensive · Requires skilled installers	· Maximum distance of fibre optics cable is around 1000 moters.		
Images: a) UTP STP						
Ou	der	color of plas H	Turistod curs with coded c insulation	0-00		
	type coaxal cable optics cable	Type RG1-6 Coaxial RG1-59 RG1-11 Single mode mode mode mutti-mode Timages:	Timages: a) UTP Catagory Data Transmission RG1-6 RG1-59 RG1-11 10-100 Mbps Mbps Cable mode 100 Gps Color of Plasting Color of Plasting	Type Catigory Data Type Catigory Data Type Catigory Data Type Catigory Data Transmission Disadvantages Advantages High bandwidth Immune to Interference I bow loss bandwidth Versatile Disadvantages High speads High speads High speads High security High security High security High security Tong distance Requires skilled Thankers Thanges: a) UTP Tweetad Paire with close coded Paire with close coded		

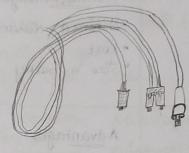
SSTP

Coaxial cable



esperacrbella

Fibre optics cable.



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RESULT:

thus, the different types of Networks are

studied.

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