

FACULTY OF ENGINEERING & TECHNOLOGY

DCS-503 Computer Networks

Lecture-08

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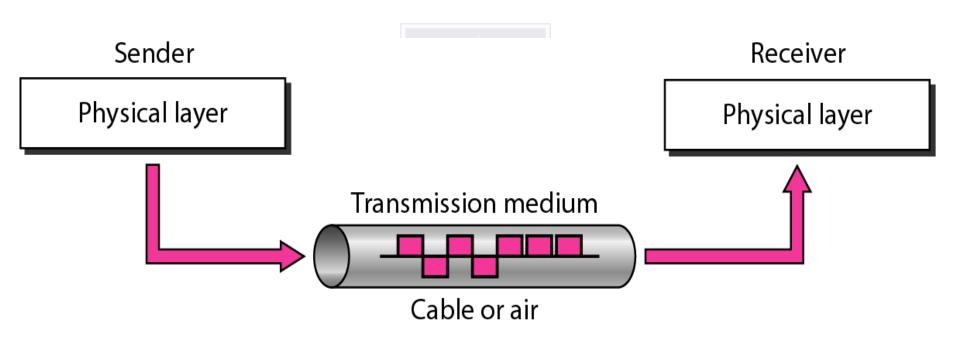
>TRANSMISSION MEDIA

>TRANSMISSION MEDIUM AND PHYSICAL LAYER

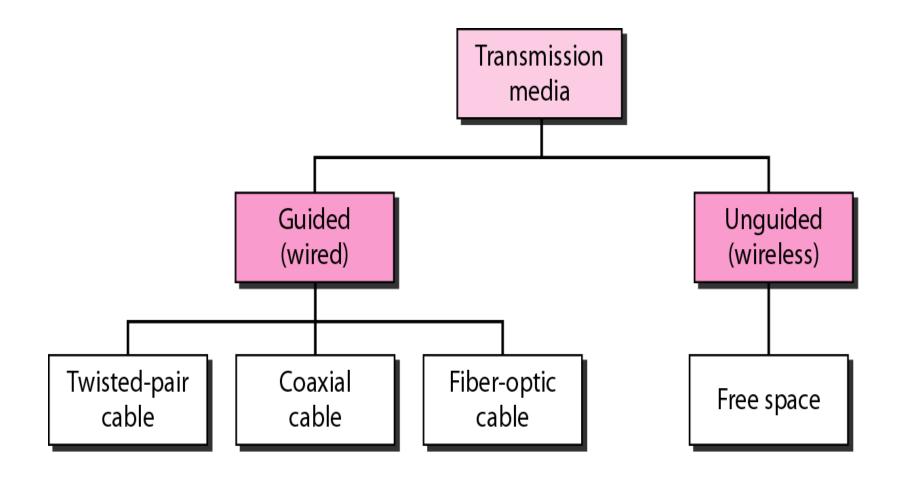
>CLASSES OF TRANSMISSION MEDIA

>GUIDED MEDIA





CLASSES OF TRANSMISSION MEDIA



GUIDED MEDIA

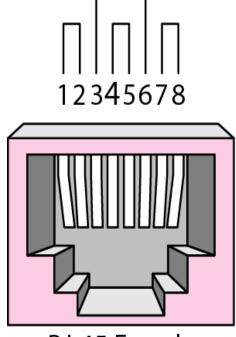
Guided media, which are those that provide a conduit from one device to another, include twisted-pair cable, coaxial cable, and fiber-optic cable.



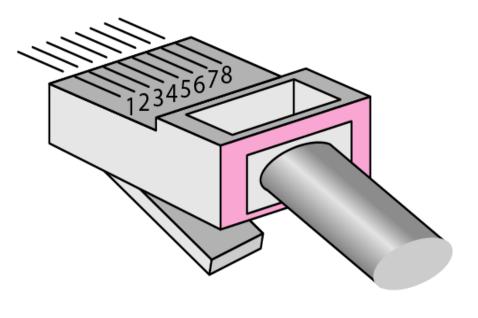
CATEGORIES OF UNSHIELDED TWISTED-PAIR CABLES

Category	Specification	Data Rate (Mbps)	Use	
1	Unshielded twisted-pair used in telephone	< 0.1	Telephone	
2	Unshielded twisted-pair originally used in T-lines	2	T-1 lines	
3	Improved CAT 2 used in LANs	10	LANs	
4	Improved CAT 3 used in Token Ring networks	20	LANs	
5	Cable wire is normally 24 AWG with a jacket and outside sheath	100	LANs	
5E	An extension to category 5 that includes extra features to minimize the crosstalk and electromagnetic interference	125	LANs	
6	A new category with matched components coming from the same manufacturer. The cable must be tested at a 200-Mbps data rate.	200	LANs	
7	Sometimes called SSTP (shielded screen twisted-pair). Each pair is individually wrapped in a helical metallic foil followed by a metallic foil shield in addition to the outside sheath. The shield decreases the effect of crosstalk and increases the data rate.	600	LANs	

UTP CONNECTOR







RJ-45 Male

MUTIPLE CHOICE QUESTIONS:

Sr no	Question	Option A	Option B	OptionC	OptionD
1	How many layers are present in the Internet protocol stack (TCP/IP model)?	5	7	6	10
	Which of the following layers is an addition to OSI model when compared with TCP IP model?	Application layer	Presentation layer	Session layer	Session and Presentati on layer
3	Application layer is implemented in	End system	NIC	Ethernet	Packet transport
4	Transport layer is implemented in	End system	NIC	Ethernet	Packet transport
5	The functionalities of the presentation layer include	Data compression	Data encryption	Data description	All of the mentioned

http://www.engppt.com/2009/12/networking-fourozan-ppt-slides.html

