A transmission median is anything that can carry information from source to destination

Those that provide a conduit from one device to enother.

1) Twisted patr cable - accept electric current.

One will to wed to carry signal whe was other to used as reference. If two wire parallel noise may affect the signal as change may happen at different points but twisting bulances it out.

a) Vashe blied twisted pair

b) Sheilded turited pair cable-sheilding prevents consistolly or penetration of none

Mestormance
Attenuation increases with forguencies above 100 k/12.

used by telephone lines to provide voice and data chaquels. Loop that connects subscribers to telephonice affice to UTP. DIL lines use UTP for high data rate-connections.

(paria) It has a central core conductor or solid enclosed in insulating Sheath which a encased in outer conductor which serves as second conductor to complete circuit Performance Attenuation of much higher but also has higher boundwidth. Application used in places requiring high bandwidth like analog phone network with could carry over 10 your voice signals. Cable TV wed A coapial later shifted to Fiber optic Fiber Optic Made of glass or playtic vorks on total internal reflection contains core and cladding. Modesa) Multimode, ster index 6) & Multimode graded index c) Single mode Performan Attentiation & flatter we need fewer repeaters. Application used in back bone networks. Therever high tehind bond-ides to needed fiber optic used

elacense.



Iransport FM raves, using physical conductor

fropogation type

i) begand - travel close to ground. Low frequency signals

emaste in all direction distance depends on power in signal

ii) sky propogation - higher frequency radio vaves radiate upond

to ionosphere which are reflected back used in greater

distance

silling of which side frequency would are transmitted in

sii) Line of sight-high frequency signal are transmitted in Straight line. Antennas face each otther

Radio - 3 KHz - 16Hz Microsever - 16Hz - 300 6Hz

Radio are ombidise donal.

Susceptible to intersessue as another emitter may sead some frequency and cause distubance.

Radio waves to sky mode travel long

Low and medium freyency can penetrale wells signal tradel through wells but can't irolate it.

Microwave
1-300 GHz

Unidirectional

Line of sight

High data rate posible

(an't penetrate walls,

Used in satellite and what

Infrored
300 bilt 4007Hz

Vied for short rayl

Cent penetiate valls

Used in TV remote control

It a effected by sun ray's