

Class IX

Transmission Medium

Guided Media
(Wired media)

Un Guided Media
(Wireless Media)

- | | | |
|--------------------------|---------------------------|---------------------|
| Ethernet Cables | Coaxial Cables | Optical Fibre Cable |
| • Crossover cable | • Baseband Coaxial cable | |
| • Straight-through cable | • Broadband Coaxial cable | |

Long Distance
Communication
Medium

- satellite
- Wimax
- microwave
- Radio wave

Short Distance
Communication
Medium

- Blue tooth
- Infrared Technology
- Wi-Fi

Parameter	PAN	LAN	MAN	WAN
1. Area Covered	10 metres	Within 1 km	Within 10 km	Large area
2. Error Rate	Lowest	Lowest	Moderate	Highest
3. Transmission Speed	High Speed	High Speed	Moderate Speed	Low Speed
4. Cost	Negligible	Inexpensive	Moderately expensive equipment	Expensive
5. Media Type	Wired, Wireless	Twisted Pair	Twisted Pair and Optical Fibre	Optical Fibre, Radiowaves or Satellite
6. Number of Computers	Less than one or more computer.	Less	Large	Largest
7. Maintenance and Designing	Very easy	Very easy to design & maintain	Difficult to design and maintain	Very difficult to design & maintain
8. Example	Inside office or residence	College campus,	Entire city	Internet

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