

Fiber optic Cable

1-25-25

• Characteristics

- Not susceptible to EMI
- Transmit signals digitally
- Signals travel $2/3$ the speed of light
- Core is plastic or glass
- Difficult to splice or tap
- Expensive ~~\$\$\$~~

• Single mode

- Backbone, Phone Systems
- Single signal generated by Laser
- 1 Gbps and 10 Gbps
- 8.3-10 microns
- Long Distances of Kilometers

• Multi mode

- Large Core
- Multiple signals
- Server Rooms
- Between Campus Buildings
- 10 Gbps
- 50-100 microns
- 550 Meters