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Optical communication uses infrared light. The C band is used commonly because of EDFAs. Graded index fiber has a lower modal dispersion than step index fiber. Plastic fiber is cheaper than glass fibers. Dispersion shifted fiber is used in DWDM systems. If a signal can travel 1600 km at 10 Gbps, due to PMD it can travel 400 km at 40 Gbps.

## **Fundamentals of Optical Communications**

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