

Transmission Media

- ▶ Guided Media
- ▶ Unguided Media

Electromagnetic Spectrum

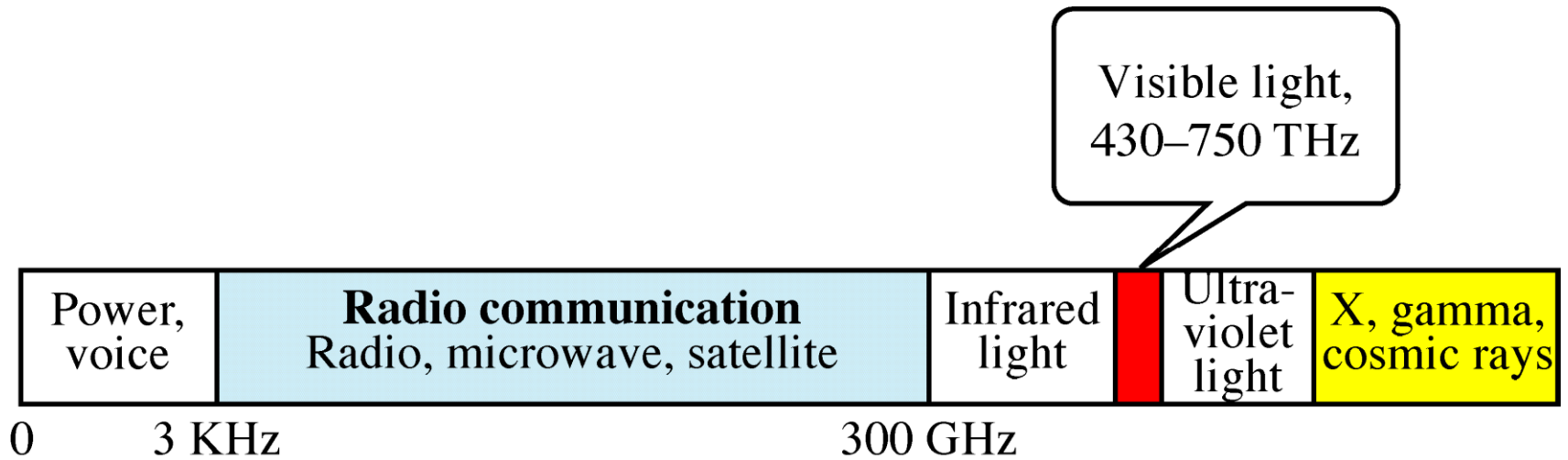


Figure 7-2

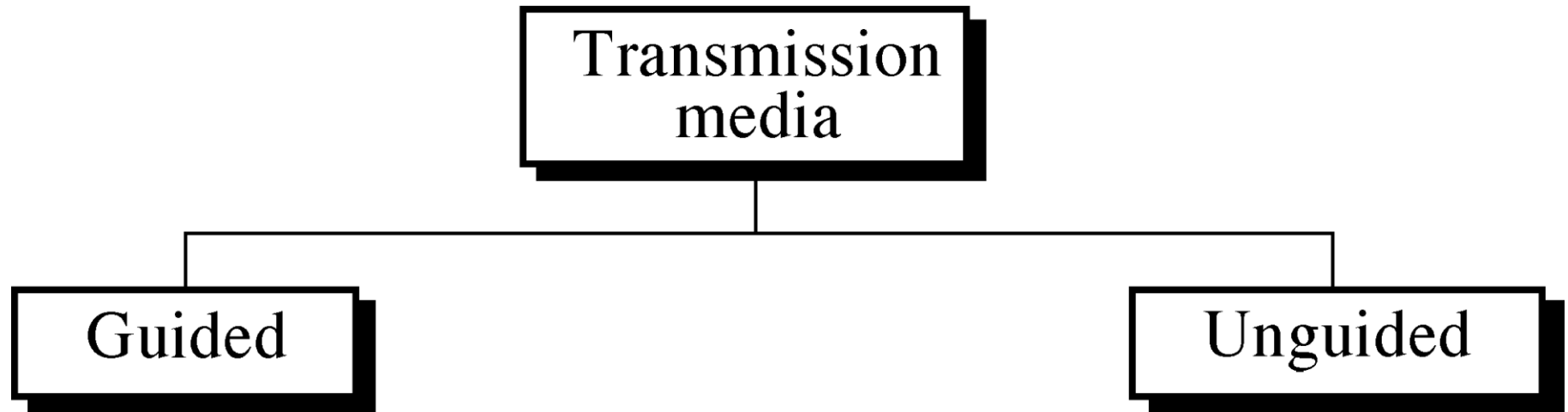


Figure 7-3

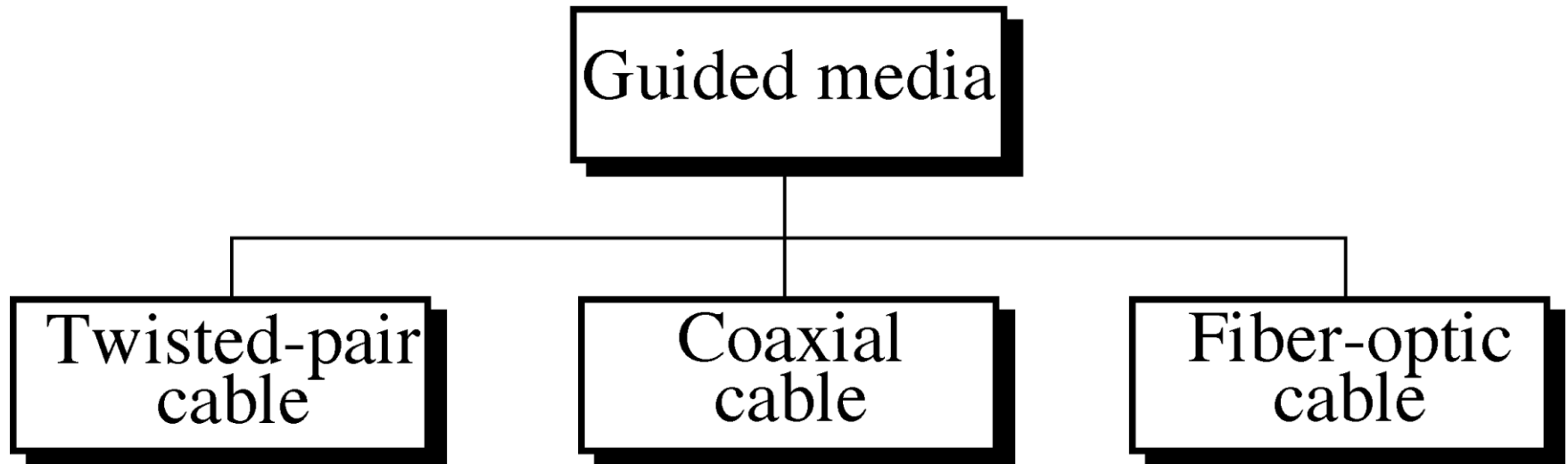


Figure 7-4 and 7-5

Twisted-Pair Cable

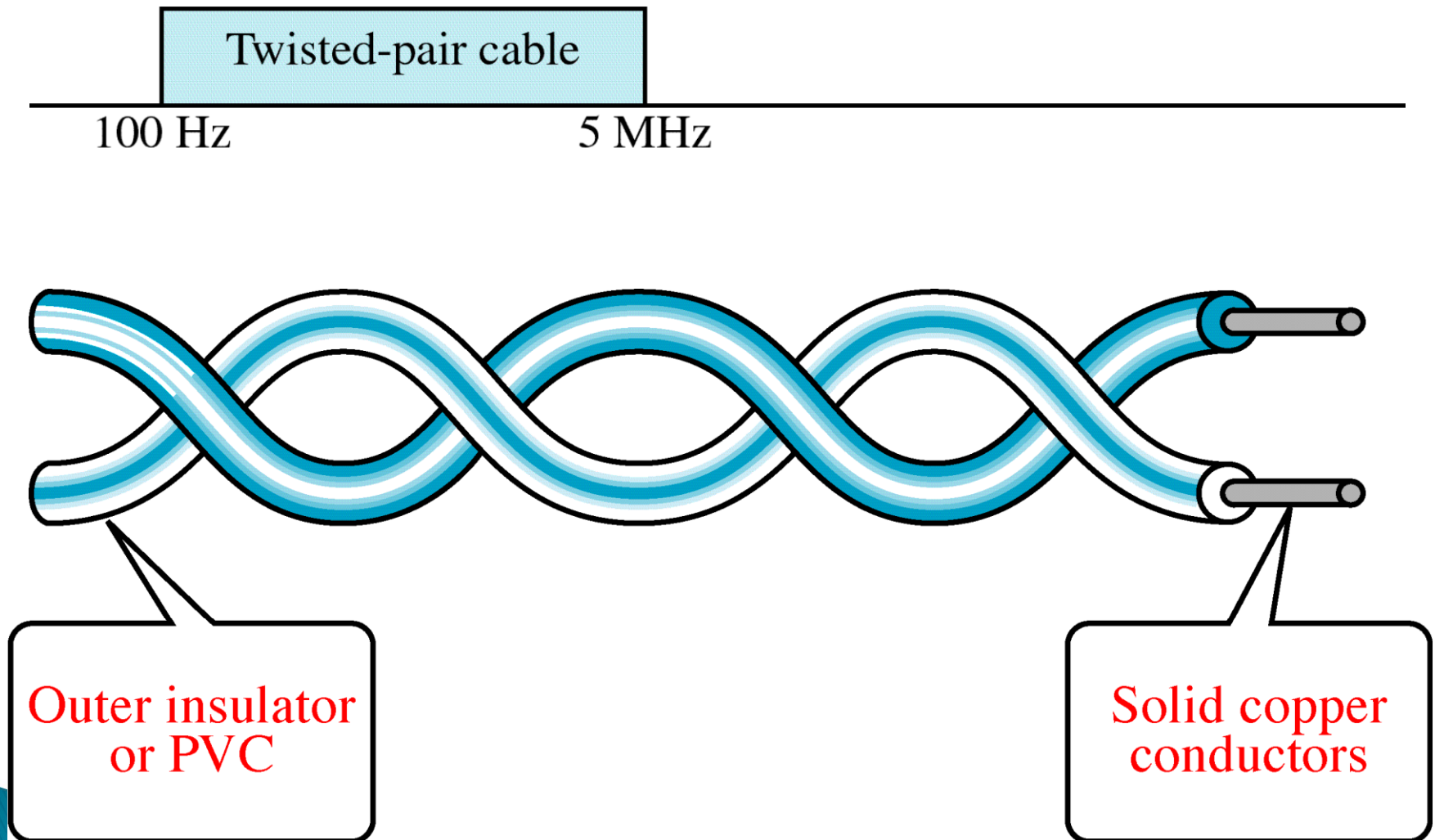


Figure 7-6

Effect of Noise on Parallel Lines

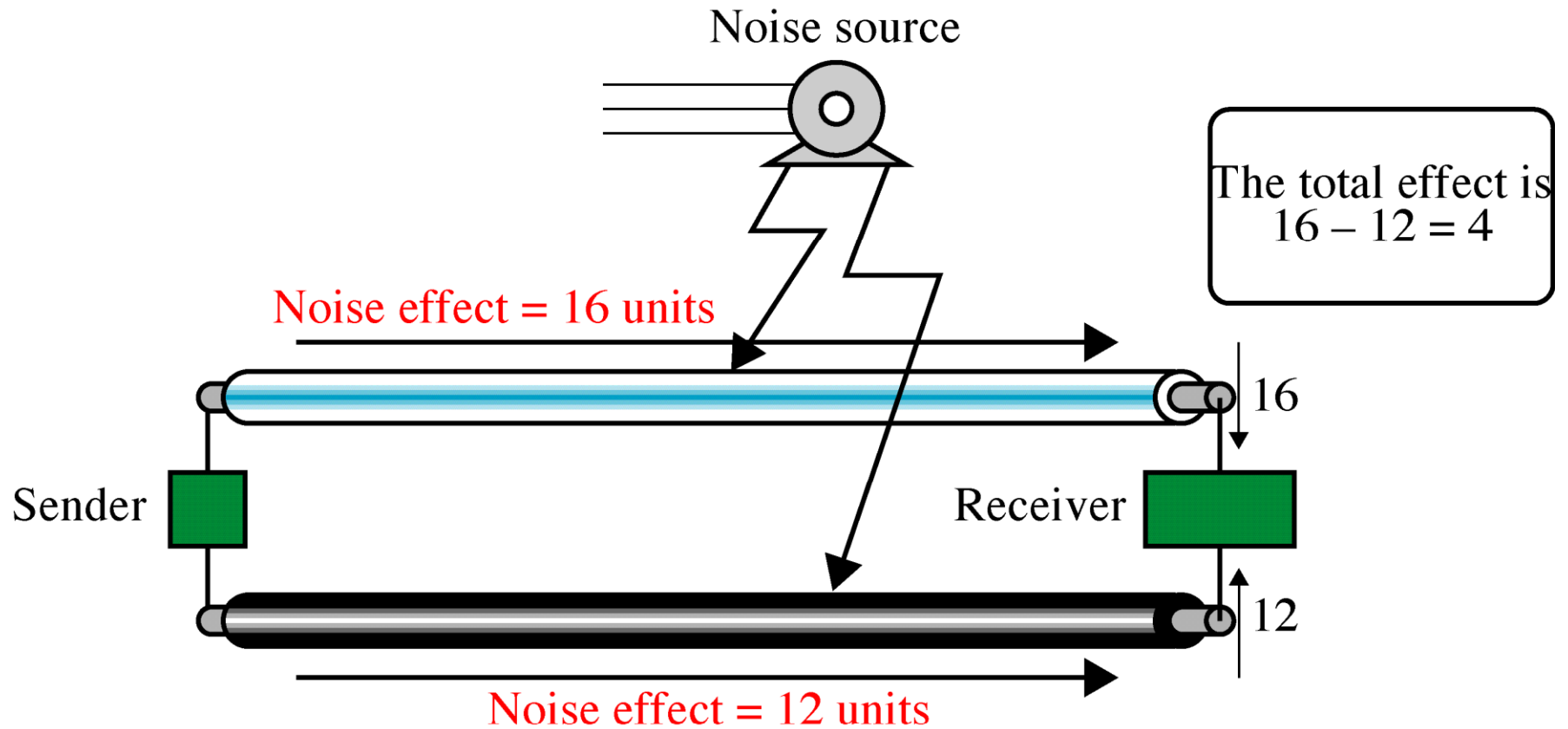


Figure 7-7

Noise on Twisted-Pair Lines

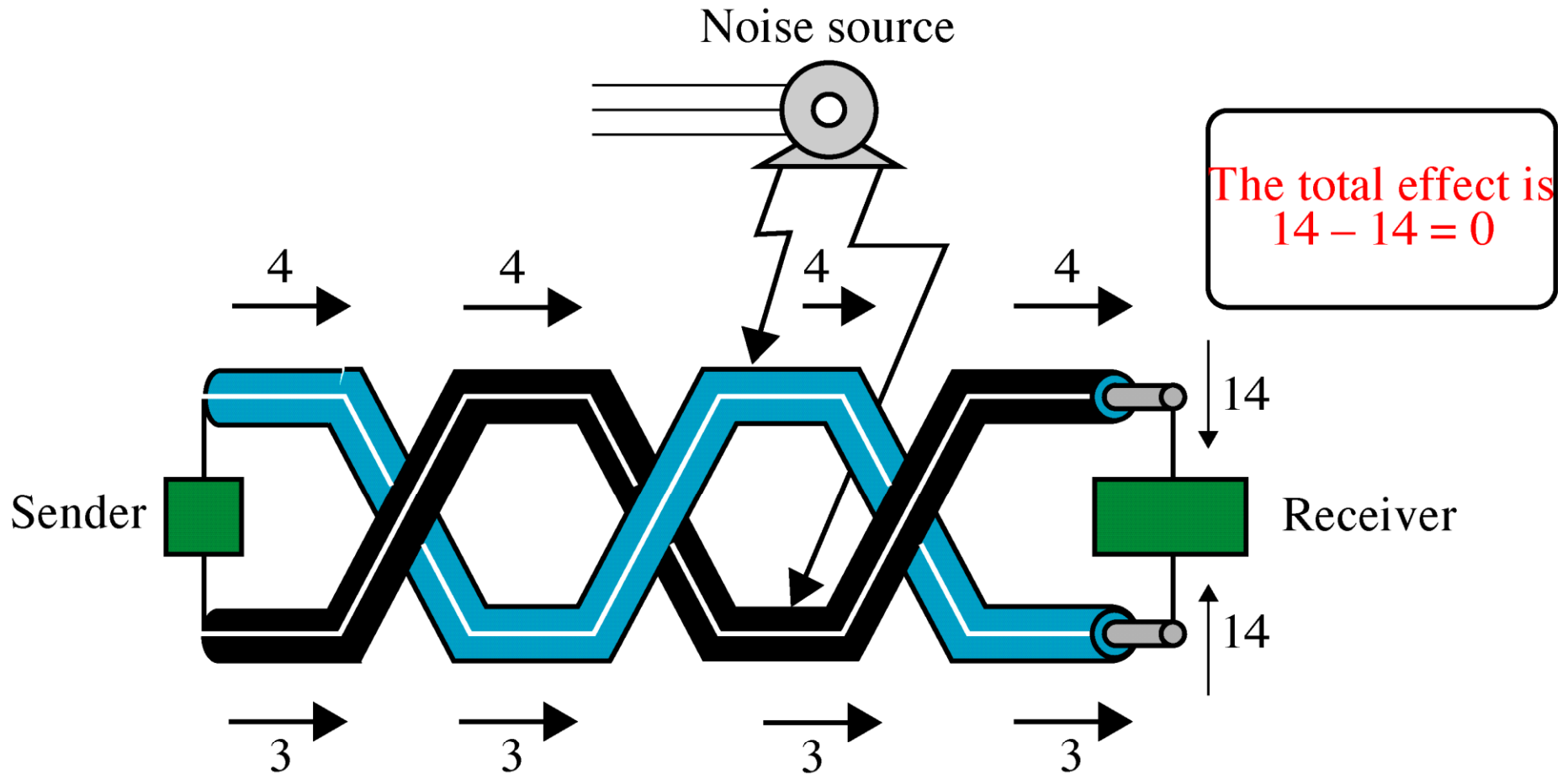


Figure 7-8

Unshielded Twisted-Pair Cable

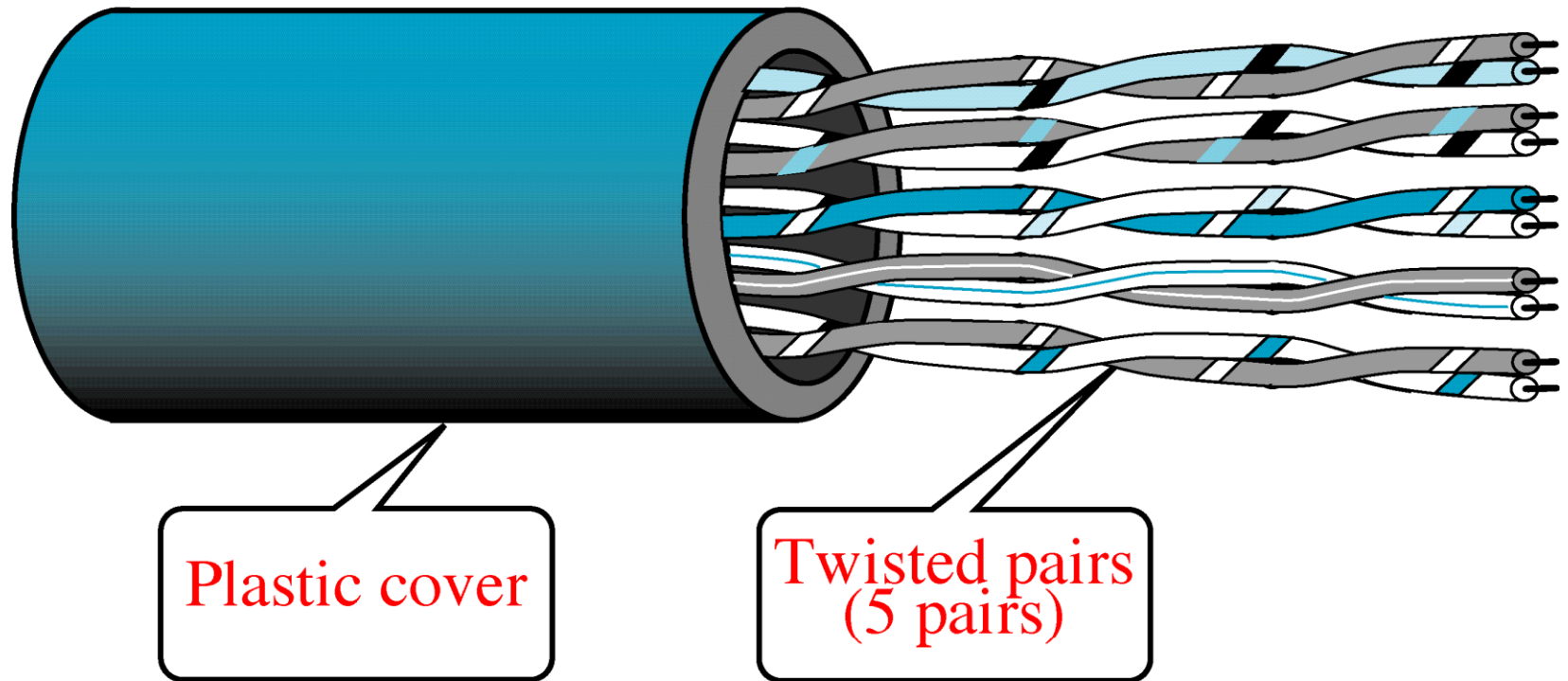
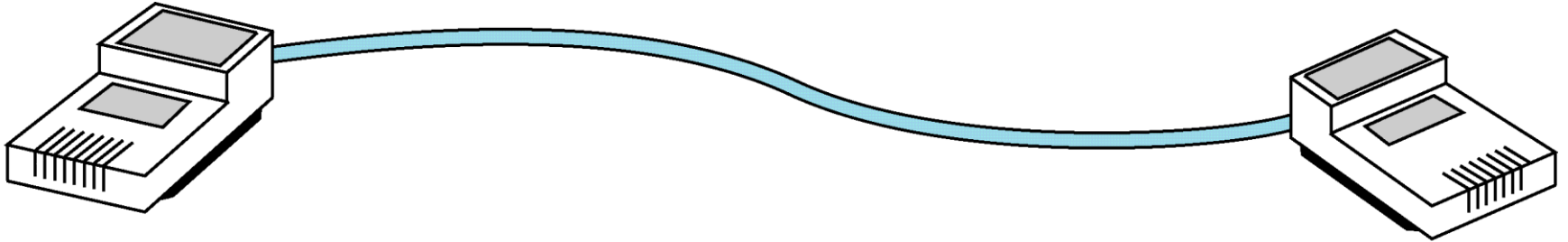
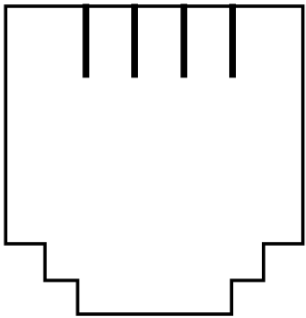


Figure 7-9

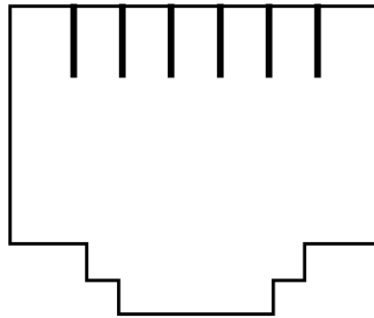
UTP Connectors



4-conductor



6-conductor



8-conductor

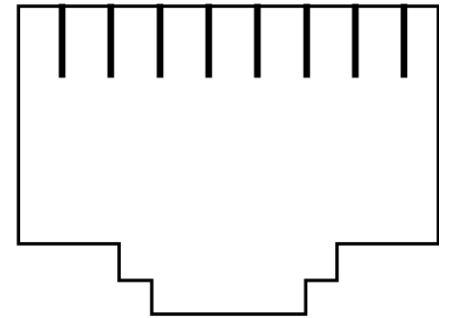


Figure 7-10

Shielded Twisted-Pair Cable

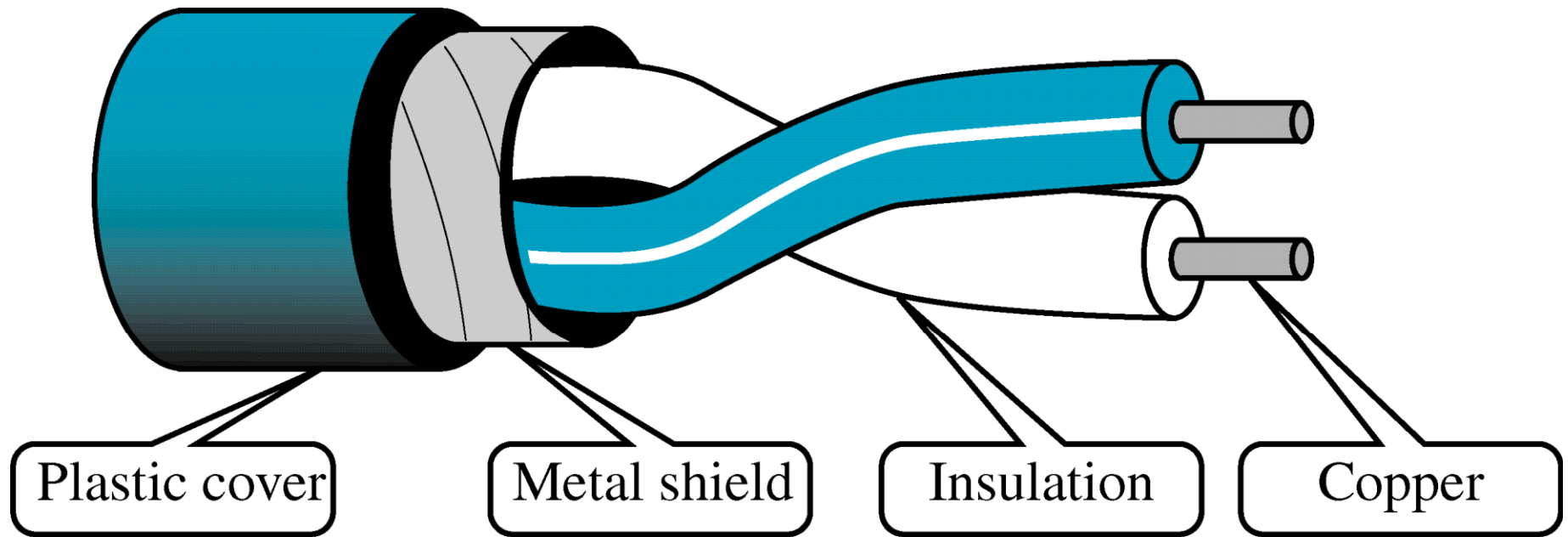


Figure 7-11 and 7-12

Coaxial Cable

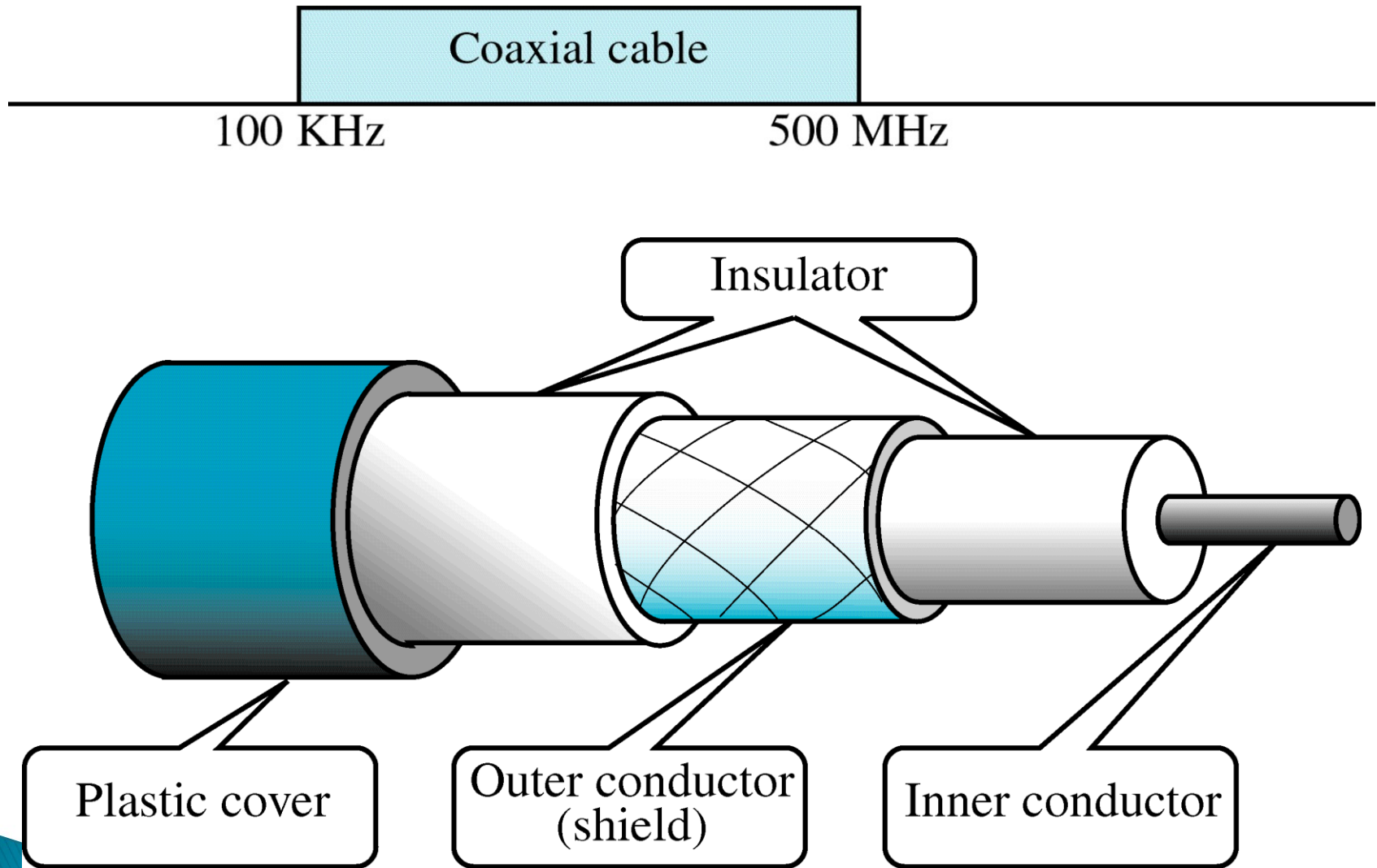
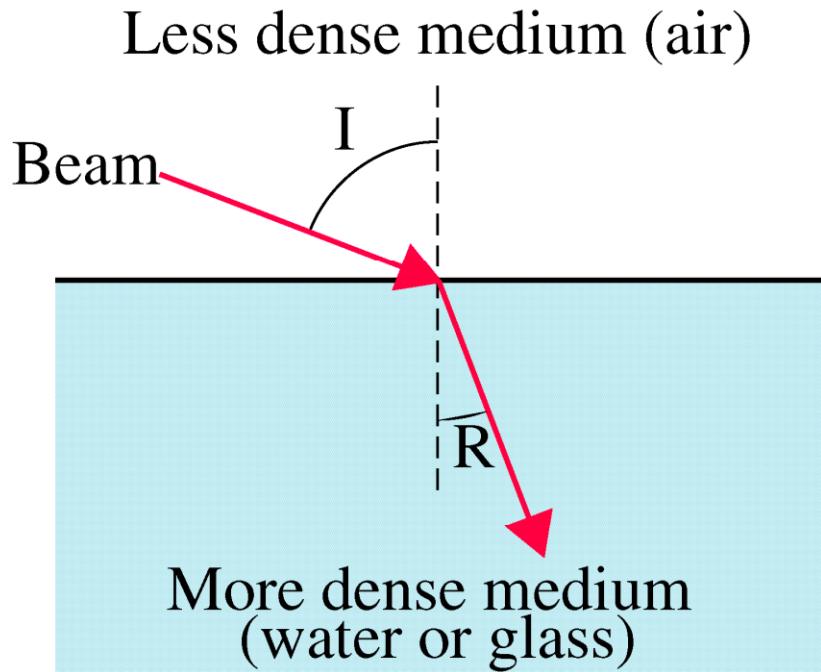
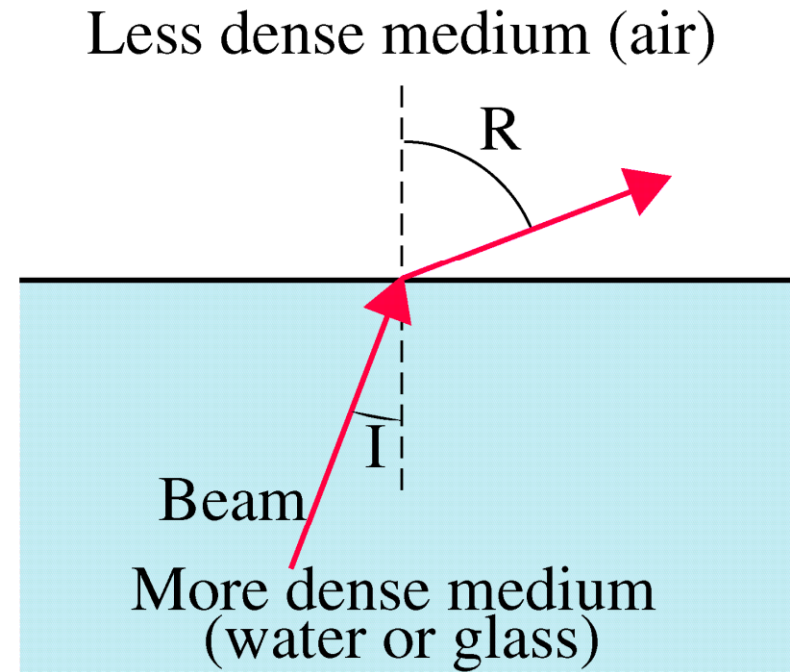


Figure 7-13

Refraction



a. From less dense to more dense medium



b. From more dense to less dense medium

Figure 7-14

Critical Angle

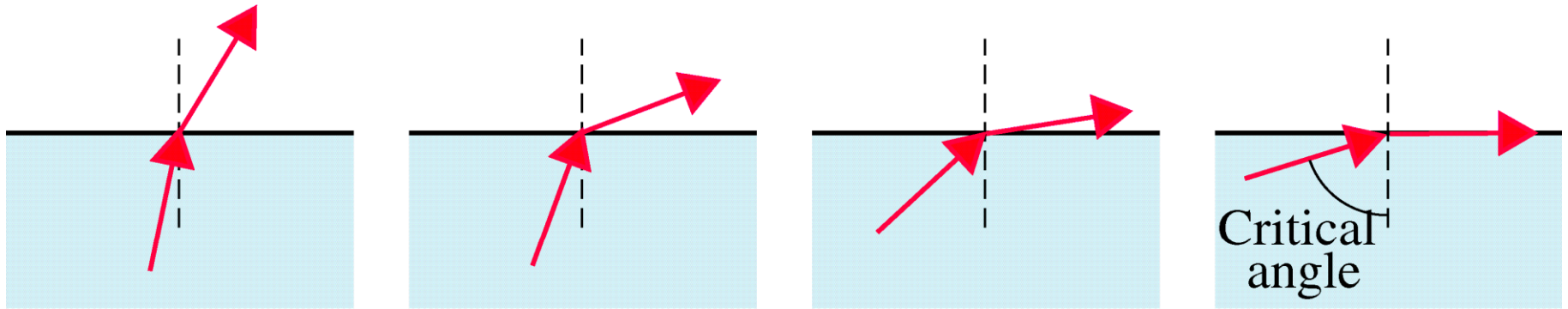


Figure 7-15

Reflection

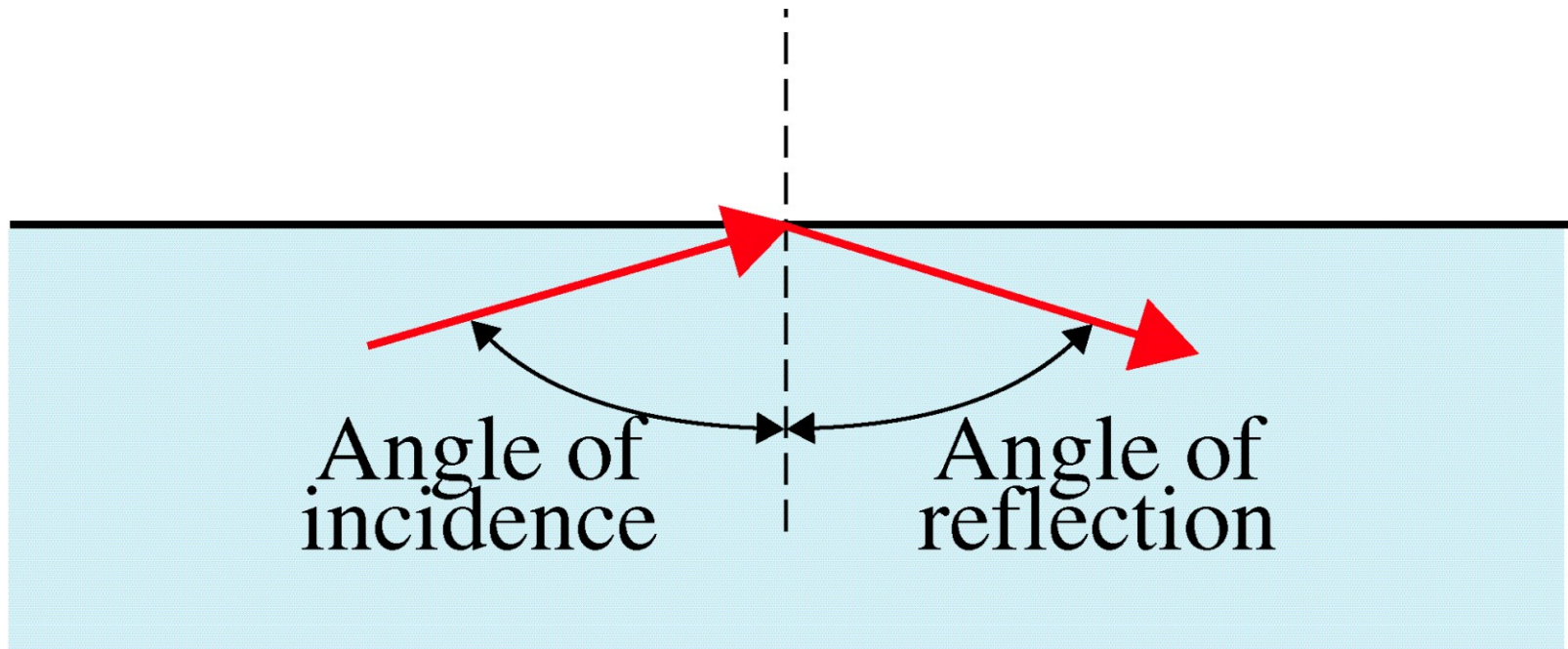


Figure 7-16

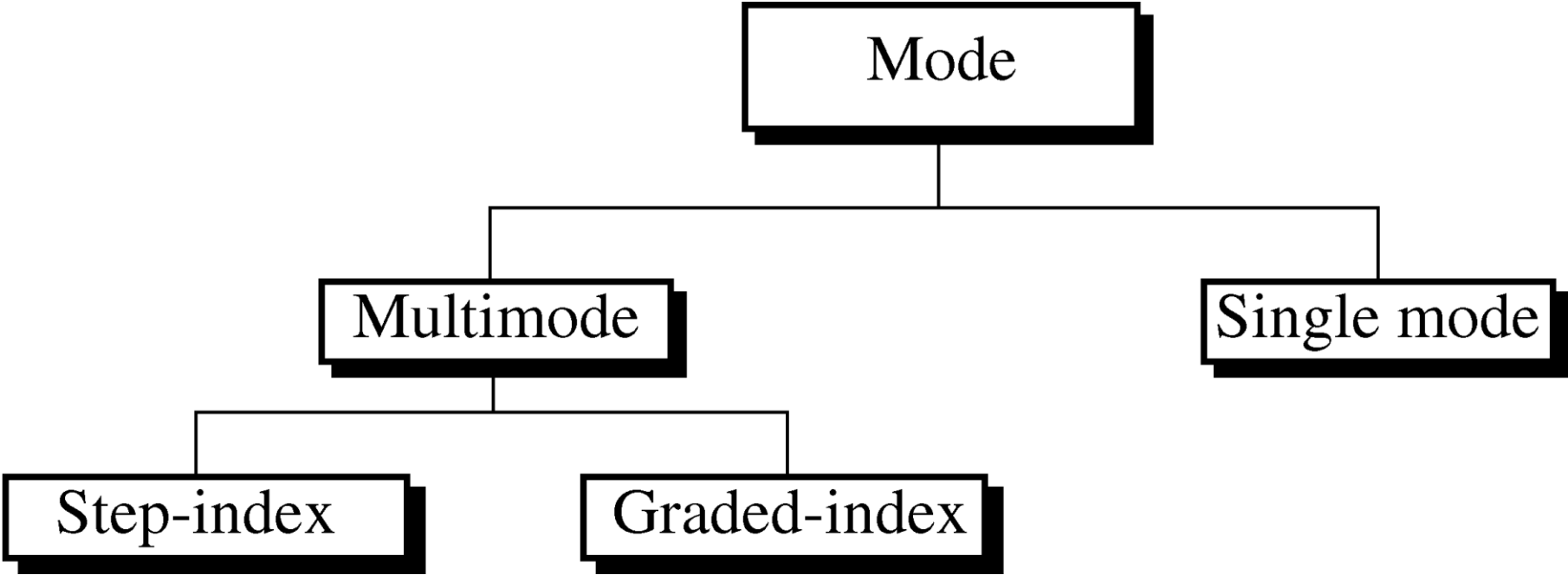


Figure 7-17

Multimode Step-Index

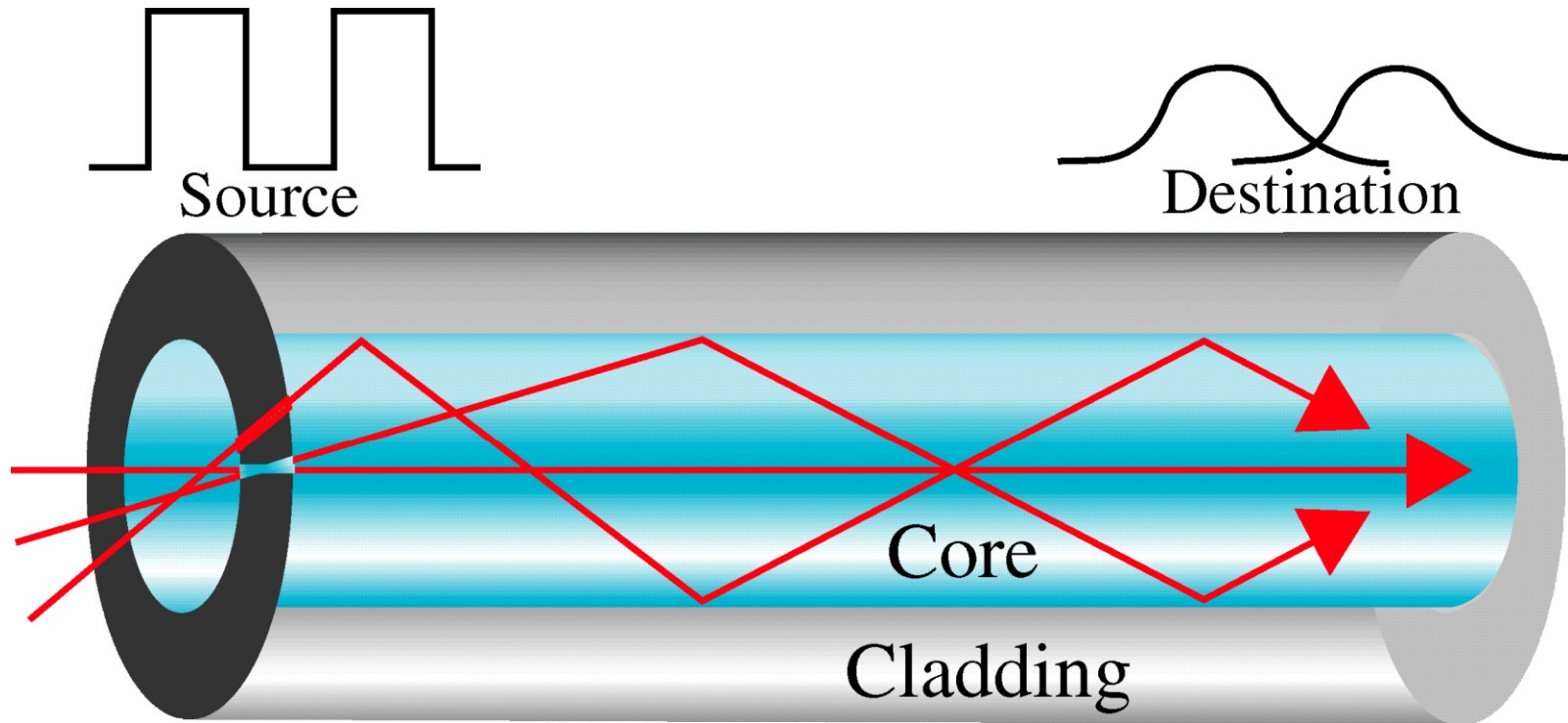


Figure 7-18

Multimode Graded-Index

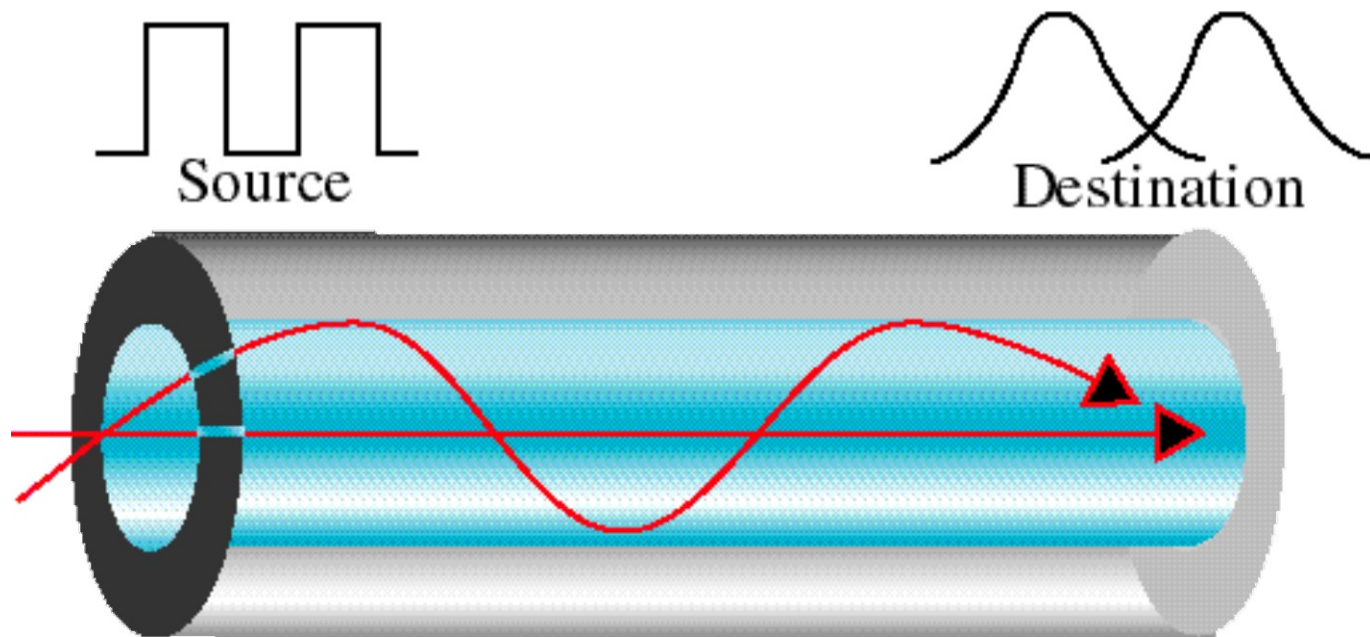


Figure 7-19

Single Mode

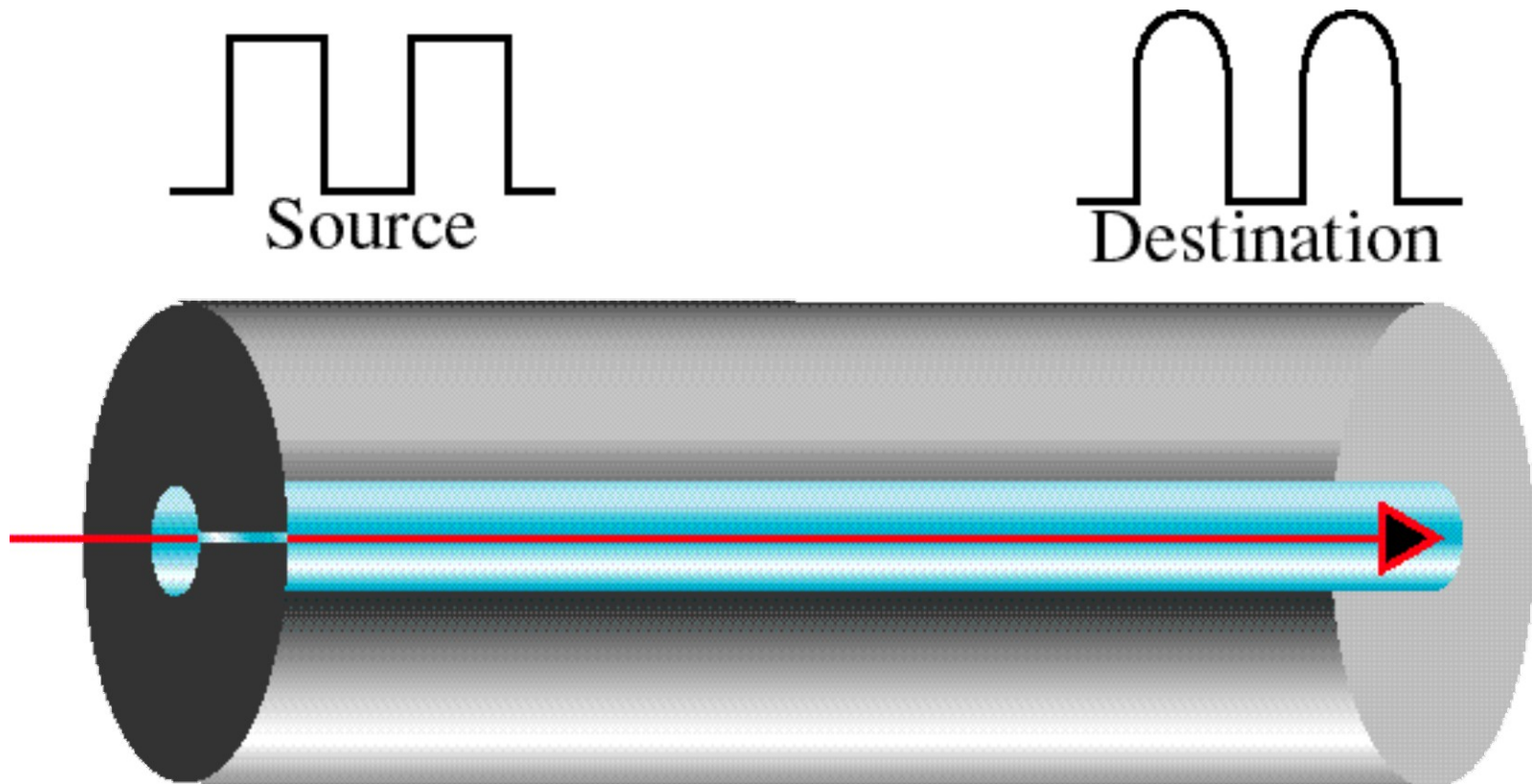


Figure 7-20

Fiber Construction

