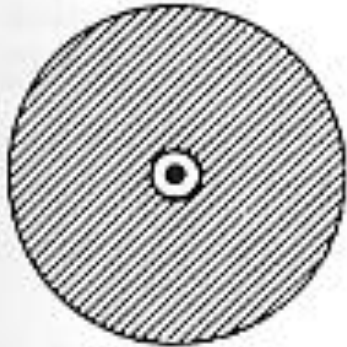




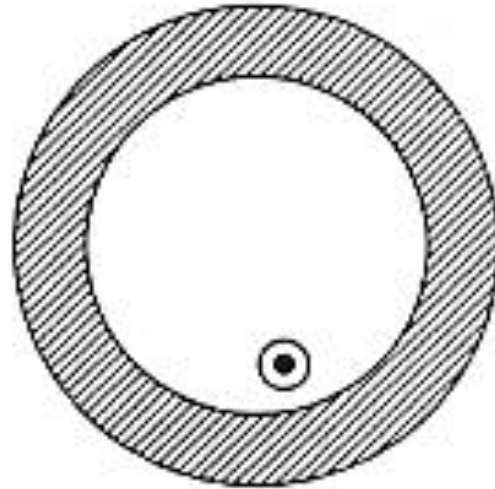
Optical Fiber Cables



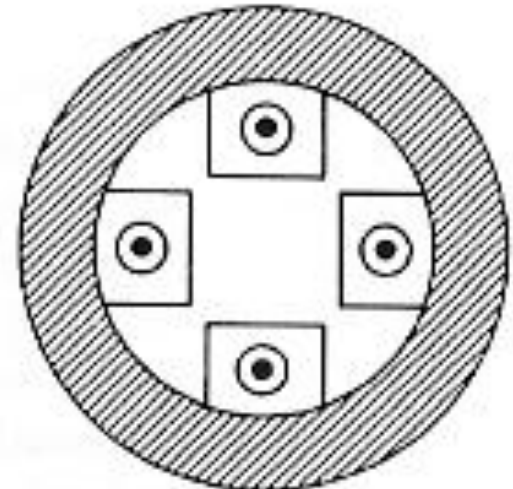
- High tensile strength
- Crush resistance
- Protection from excess bending
- Abrasion protection
- Vibration isolation
- **Moisture and chemical protection**
 - Exposure to moisture and chemicals weaken glass matrix



Tight jacket



Loose tube

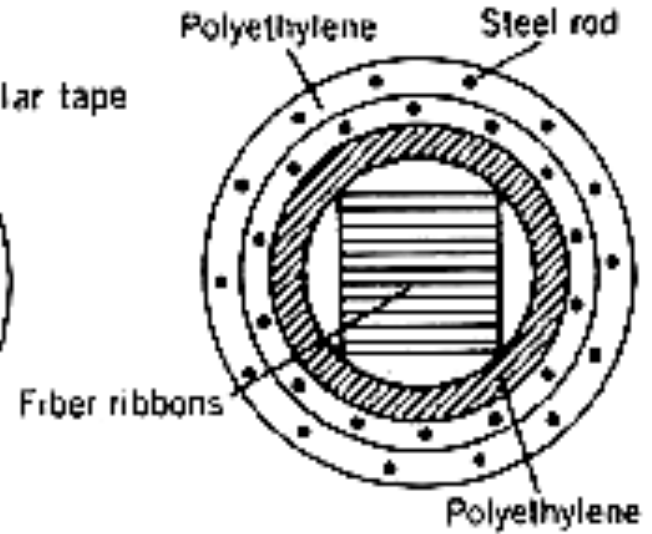
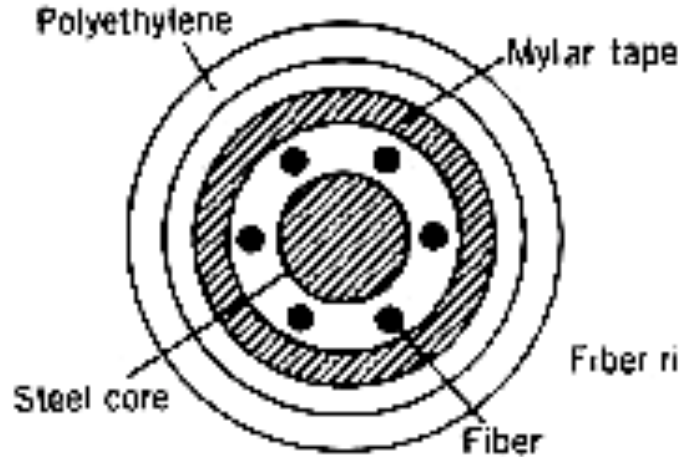
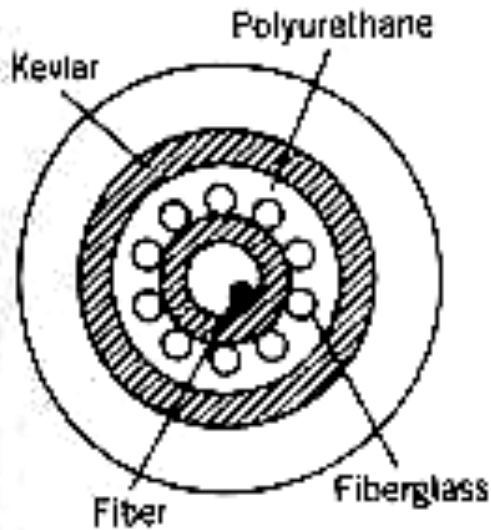


Slotted tube

- Soft plastic for cushioning, damping, crush & microbend resistance
- Tensile strength = fiber
- Single fiber not future proof

- Eliminates microbends (fiber adjusts to cable distortion)
- Foam or jelly for moisture resistance
- Ideal for outdoor applications

- Multiple fibers for future-proofing



- Strength vs. pull, shear, and bend
- Kevlar:Steel strength to weight = 4x
- Cut and abrasion resistance (PVC, Hytrel)

- Steel core 5kN breaking strength
- Space for conductors
- Individually buffered and strengthened fibers
- High strength cable installable via conventional transmission line eqpt.
- 16.5 mm diameter

- Up to 12 fibers in ea. ribbon
- 144 fibers total for telephone systems
- 28 steel strength members
- 12 mm diameter (compact)