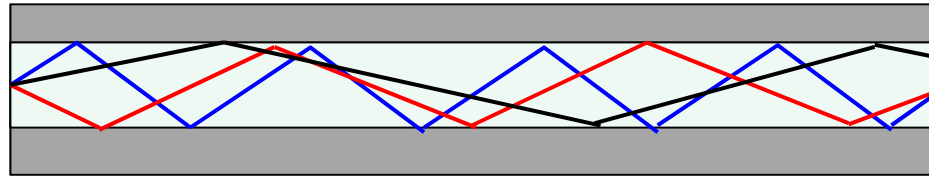


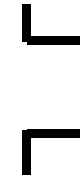
# 4. Differences Between SM and GI Fiber

## Multimode Optical Fiber

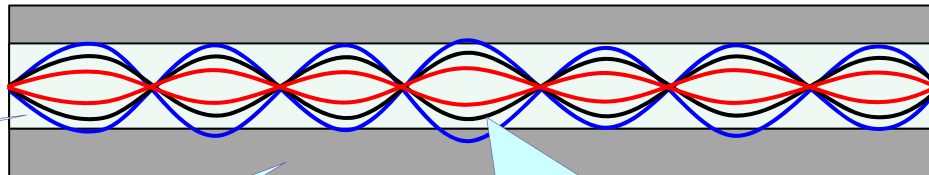
Step Index Type (SI)



IOR Distribution



Graded Index Type (GI)



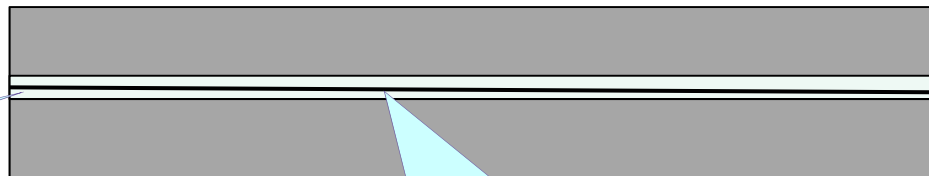
Core: 50 or 62.5  $\mu\text{m}$

Cladding: 125  $\mu\text{m}$

Multiple Propagation Modes



## Single Mode Optical Fiber (SM)



Core  $\approx$  10  $\mu\text{m}$

Single Propagation Mode

