

Type of optical fiber

Types of optical fiber	Hard Plastic Clad Fiber (H-PCF)	All-Glass Fiber (AGF)
Reference standard	IEC 60793-2-30	IEC 60793-2-10
Core diameter	200 μ m	50 μ m、62.5 μ m
Core material	Silica glass	Silica glass
Cladding diameter	230 μ m	125 μ m
Cladding material	Fluoroacrylate	Silica glass

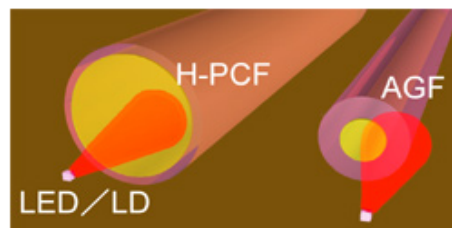
The cost for optical modules, which transmit/receive optical signals, is dominant in the total cost of optical data transmission system. By reducing the cost of optical modules, the total cost for optical data transmission system could also be reduced.

In the case of H-PCF

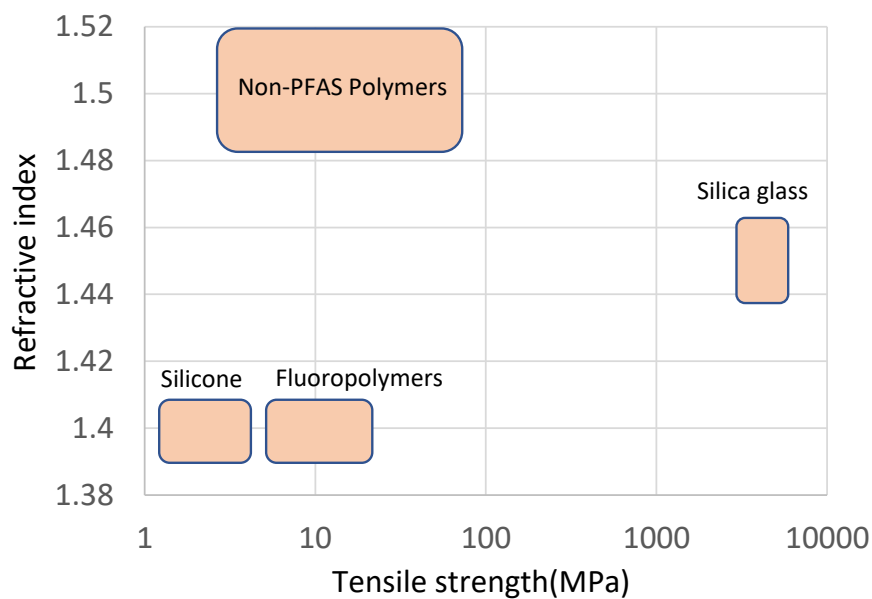
Large core

 Low cost light sources are applicable to H-PCF, with which less accurate optical axis setting is possible.

 The total system cost can be reduced.



Typical Refractive index and Tensile strength



Silicone has the low refractive index but does not have adequate strength for assembling the connector. The polymer without PFAS has adequate strength but the refractive index is not low than a silica glass.