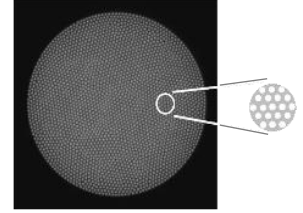## Image Fiber FIGH series PI type

Fujikura image fiber is a silica-based optical fiber. It consists of multiple silica cores and cladding that are fused together, forming a high-resolution image fiber.
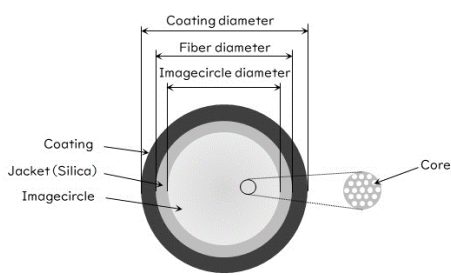
FJK is able to manufacture various types of Image fibers according to customer specifications, from design and prototyping to mass production.
Please contact us for more information.

Features
- High temperature resistant type with Polyimide resin coating
- Higher heat resistance than other types
- Long image fiber by excellent transmittance
- Applicable for biocompatibility(USP classⅥ)

Specifications

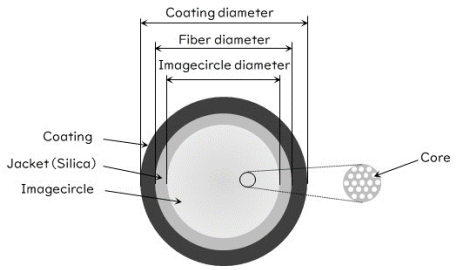|	FIGH-06-300PI	FIGH-10-350PI	FIGH-10-500PI	FIGH-30-850PI
Number of picture elements	6,000 ± 600	10,000 ± 1,000	10,000 ± 1,000	30,000 ± 3,000
Imagecircle diameter (µm)	270 ± 20	325 ± 20	460 ± 25	790 ± 50
Fiber diameter (µm)	300 ± 25	355 ± 15	500 ± 25	850 ± 50
Coating diameter (µm)	350 ± 30	400 ± 20	550 ± 35	900 ± 50
Minimum bending radius (mm)	30(*1) (15(*2))	35(*1) (20(*2))	50(*1) (25(*2))	120(*1) (60(*2))
Coating material	Polyimide (Black)			
Lattice defect (%)	< 0.1			
Uncircularity of imagecircle (%)	< 5			
Cross-section image				

*1. Minimum bending radius in storage.
*2. Recommended bending radius in use for short period of time.
    (For your reference only, possible breakages due to static fatigue)

Specifications

	FIGH-35-900PI	FIGH-40-900PI
Number of picture elements	35,000 ± 3,500	40,000 ± 4,000
Imagecircle diameter(µm)	830 ± 50	830 ± 50
Fiber diameter (µm)	900 ± 50	900 ± 50
Coating diameter (µm)	950 ± 50	950 ± 50
Minimum bending radius (mm)	120(*1) (60(*2))	120(*1) (60(*2))
Coating material	Polyimide (Black)	
Lattice defect (%)	< 0.1	
Uncircularity of imagecircle (%)	< 5	
Cross-section image		

*1. Minimum bending radius in storage.
*2. Recommended bending radius in use for short period of time.
  (For your reference only, possible breakages due to static fatigue)