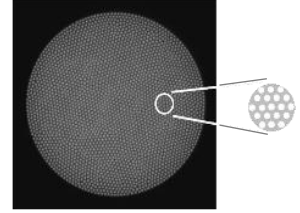## Image Fiber   FIGH series S type

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.
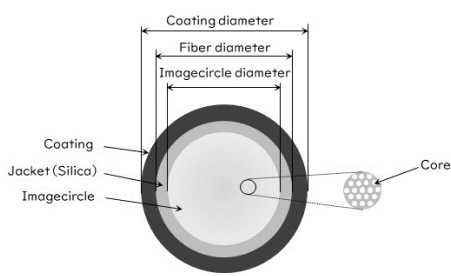
FJK is able to manufacture various types of Image fibers according to customer specifications, from design and prototyping to mass production.
Please contact us for more information.

Features
- Ultra Thin Diameter and High Density
- High heat resistance
- Long image fiber by excellent transmittance
- Applicable for biocompatibility(USP class VI)

Specifications

	FIGH-016-160S	FIGH-03-200S	FIGH-03-215S	FIGH-06-280S
Number of picture elements	1,600 ± 160	3,000 ± 300	3,000 ± 300	6,000 ± 600
Imagecircle diameter(µm)	145 ± 15	186 ± 15	190 ± 20	252 ± 20
Fiber diameter (µm)	160 ± 20	200 ± 15	215 ± 25	280 ± 20
Coating diameter (µm)	210 ± 30	250 ± 20	285 ± 30	340 ± 30
Minimum bending radius (mm)	20(*1) (10(*2))	25(*1) (15(*2))	25(*1) (15(*2))	30(*1) (15(*2))
Coating material	Silicone resin (Black)			
Lattice defect (%)	< 0.1			
Uncircularity of imagecircle (%)	< 5			
Cross-section image				

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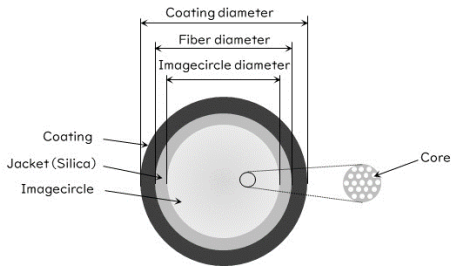***2.** Recommended bending radius in use for short period of time.
   (For your reference only, possible breakages due to static fatigue)

Specifications

	FIGH-06-300S	FIGH-10-350S	FIGH-30-650S
Number of picture elements	6,000 ± 600	10,000 ± 1,000	30,000 ± 3,000
Imagecircle diameter(μm)	270 ± 20	325 ± 20	600 ± 30
Fiber diameter (μm)	300 ± 25	350 ± 25	650 ± 30
Coating diameter (μm)	400 ± 30	450 ± 30	750 ± 50
Minimum bending radius (mm)	30(*1) (15(*2))	35(*1) (20(*2))	70(*1) (35(*2))
Coating material	Silicone resin (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)