

Messrs.

STANDARD SPECIFICATIONS

FOR

IMAGEFIBERS

(For all sales offices)



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IMAGEFIBER SPECIFICATIONS

Table 1

(FIGH series N-type 6K-15K and G-type 6K)

Item	FIGH-06-350G	FIGH-06-400N	FIGH-10-500N	FIGH-15-600N
Number of picture elements	6000 ± 600	6000 ± 600	10000 ± 1000	15000 ± 1500
Imagecircle diameter (μm)	325 ± 20	370 ± 25	460 ± 25	550 ± 30
Fiber diameter (μm)	350 ± 20	400 ± 25	500 ± 25	600 ± 30
Coating diameter (μm)	420 ± 30	500 ± 30	600 ± 35	700 ± 35
Minimum bending radius (mm)	35* ¹ (20* ²)	40* ¹ (20* ²)	50* ¹ (25* ²)	60* ¹ (30* ²)
Coating material	Silicone resin (Black)			
Lattice defect (%)	< 0.1			
Uncircularity of imagecircle (%)	< 5			

*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)

IMAGEFIBER SPECIFICATIONS

(FIGH series N-type 30K and G-type 17K, 30K, 40K)

Table 2

Item	FIGH-17-600G	FIGH-30-800G	FIGH-30-850N	FIGH-40-920G
Number of picture elements	17000 ± 1700	30000 ± 3000	30000 ± 3000	40000 ± 4000
Imagecircle diameter (μm)	560 ± 30	750 ± 40	790 ± 50	854 ± 30
Fiber diameter (μm)	600 ± 30	800 ± 40	850 ± 50	920 ± 30
Coating diameter (μm)	680 ± 35	950 ± 50	950 ± 50	1,030 ± 40
Minimum bending radius (mm)	60* ¹ (30* ²)	80* ¹ (40* ²)	90* ¹ (50* ²)	100* ¹ (70* ²)
Coating material	Silicone resin (Black)			
Lattice defect (%)	< 0.1			
Uncircularity of imagecircle (%)	< 5			

*1:Minimum bending radius in storage

*2:Recommended bending radius in use for short period of time.

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IMAGEFIBER SPECIFICATIONS

Table 3

(FIGH series N-type 50K-100K)

Item	FIGH-50-1100N	FIGH-60-1200N	FIGH-100-1500N
Number of picture elements	50000 ± 5000	60000 ± 6000	100000 ± 10000
Imagecircle diameter (μm)	1,025 ± 80	1,116 ± 50	1,400 ± 120
Fiber diameter (μm)	1,100 ± 80	1,200 ± 50	1,500 ± 120
Coating diameter (μm)	1,200 ± 100	1,275 ± 80	1,700 ± 150
Minimum bending radius (mm)	110* ¹ (80* ²)	150* ¹ (100* ²)	200* ¹ (130* ²)
Coating material	Silicone resin (Black)		
Lattice defect (%)	< 0.1		
Uncircularity of imagecircle (%)	< 5		

*1:Minimum bending radius in storage

*2:Recommended bending radius in use for short period of time.

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IMAGEFIBER SPECIFICATIONS

Table 4

(FIGH series S-type 1.6K-6K)

Item	FIGH-016-160S	FIGH-03-200S	FIGH-03-215S	FIGH-06-280S
Number of picture elements	1600 ± 160	3000 ± 300	3000 ± 300	6000 ± 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			

*1:Minimum bending radius in storage

*2:Recommended bending radius in use for short period of time.

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Table 5

(FIGH series S-type 6K-30K)

Item	FIGH-06-300S	FIGH-10-350S	FIGH-30-650S
Number of picture elements	6000 ± 600	10000 ± 1000	30000 ± 3000
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		

*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)

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(FIGH series PI-type 6K-40K)

Table 6

Item	FIGH-06-300PI	FIGH-10-350PI	FIGH-10-500PI	FIGH-30-850PI	FIGH-35-900PI	FIGH-40-900PI
Number of picture elements	6000 ± 600	10000 ± 1000	10000 ± 1000	30000 ± 3000	35000 ± 3500	40000 ± 4000
Imagecircle diameter (μm)	270 ± 20	325 ± 20	460 ± 25	790 ± 50	830 ± 50	830 ± 50
Fiber diameter (μm)	300 ± 25	355 ± 15	500 ± 25	850 ± 50	900 ± 50	900 ± 50
Coating diameter (μm)	350 ± 30	400 ± 20	550 ± 35	900 ± 50	950 ± 50	950 ± 50
Minimum bending radius (mm)	30*1 (15*2)	35*1 (20*2)	50*1 (25*2)	120*1 (60*2)	120*1 (60*2)	120*1 (60*2)
Coating material	Polyimide (Black)					
Lattice defect (%)	< 0.1					
Uncircularity of imagecircle (%)	< 5					

*1:Minimum bending radius in storage

*2:Recommended bending radius in use for short period of time.

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Product Name : IMAGEFIBERS (For all sales offices)

History of Revision

DCR no.	Rev.	Content of Revision		Writer	Approved	Revised date
		Item	Description and Reason for change			
B-19DA001			Initial release	Suzaki	Miyachi	19.01.25
	A	p.9	Added FIGH-10-350PI to Table 6	Takakura	Miyachi	19.05.10
	B	7 (p.2)	Added Definition of the uncircularity of imagecircle	Yoshimaru	Miyachi	22.12.27
		p.11	Clerical error corrections			

END