

Spec. No. FPF-06003

Apr.24.2006

SPECIFICATIONS
FOR
LARGE CORE SINGLEMODE PCF



Optical Fiber Components Section
Optical Components Development Department
Car Electric & Optics Division

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1. Application

This specification covers the singlemode photonic crystal fiber which product code is PS01S53.

2. Specifications

Item		anticipated specification
Core	Material	Synthetic Silica
	Diameter	17um
Cladding	Material	Synthetic Silica with air holes
	Diameter	225um
Buffer coating	Material	Silicone
	Diameter	400um
Jacket	Material	PFA
	Diameter	900um
1/e ² MFD		> 14um
5%NA		0.04
Transmitting loss @589nm		< 15 dB/km
Proof test		equivalent to 0.5% tensile for 1sec
Reflectance of AR coating		< 0.2%
Durability for laser		> 0.5MW/cm ³

3. Packing and Shipment

- 1) All of the products shall be packed by a method suitable to prevent damages during shipping and storage.
- 2) The fiber shall be spooled on a plastic bobbin.
- 3) We shall put a label indicating, item name, quantity and manufacturing number on the side of a bobbin.

4. Warranty

Mitsubishi Cable Industries, Ltd. , guarantees this product against manufacturing defects in material or workmanship for a period of 12 months from the date of delivery. Within this period, we will repair the product by our orderly process or replace it within a reasonable period of time after notification, free of charge, provided that it is returned to us. No return will be accepted without prior authorization. We will not return any used parts that were replaced for repair or any used products for replacement.

This warranty covers only repair or replacement for this product. This warranty does not cover damage or failure due to abuse, misuse, improper or abnormal usage. Any unauthorized modification, repair or attempt at repair, will render this warranty void. We shall not be responsible for any direct or indirect loss, damages, costs or expenses that may be caused by the usage of this product or by the trouble or failure of this product. All requests for repair or replacement under this warranty must be made as soon as possible after the defect has been noticed and must be directed to us.

5. Others

Please do not copy, transcribe or please do not make a third party inspect or loan without our permission.

	FWHM	1/e	1/e2	St
Peak intensity(counts)	958			
Peak position(um)	-15.11, -10.25			
Total beam energy(counts)	4682659			
Gravity position(um)	-15.24,-10.24	-15.37,-10.24	-15.37,-10.24	-15.37,-10.24
Beam width(um)	8.93,9.24	10.54,10.85	13.76,15.00	15.69,16.12
Beam Gauss width(um)	8.26,8.81	9.92,10.56	14.03,14.96	17.16,18.31
Beam area(um2)	63.48	91.45	161.70	224.26
Beam energy(counts)	2472451	3342826	4072591	4367199
Average energy(counts)	672.04	592.99	434.55	335.96
Dispersion(%)	18.36	26.76	50.78	73.14
Tilt(°)	46.41	44.17	51.50	56.62
Ellipticity(%)	106.23	106.44	103.30	102.47





