

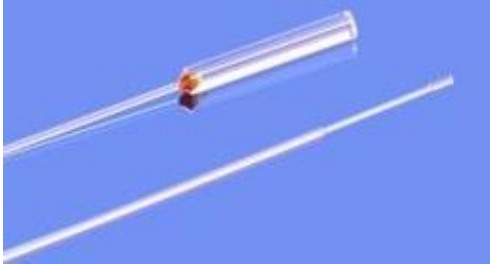
BUY NOW 

Optical Fiber End Cap

SM, PM, MM

Product Description

Fiber end cap increases the beam size as the laser exits the fiber end. It reduces the power density at the interface between fiber and air offering much higher transmitted power from fiber cores in a miniature format. Based on Agiltron's beam shaping technology, a high quality end cap is uniquely formed directly at the fiber tip that transmitting uniformly beam spot. We use both fusion splicing and thermal expansion to produce end cap optimized for various applications. Polarization maintain fiber end cap is our specialty.



The end cap diameter coreless rod selection is to maximize the out beam diameter. The length selection of the end cap is sufficiently shorter to avoid beam distortion from the edge. Various packaging formats are available: bare fiber with end cap; polyimide coating for autoclave, inside a protective tube, or inside a standard fiber connector for ease attaching to a telescope.

Features

- High Power
- High Efficiency
- Low Reflection
- Low Distortion
- Low Cost

Specifications

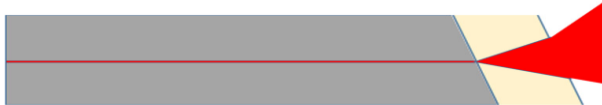
Insertion Loss ¹	< 0.2 dB
Operation Wavelength	400 nm ~ 2500 nm
End Cap Diameter	125, 250, 400, 1000 μm
End Cap Length	300 to 5000 μm
Face Angle	0, 8, 12 Deg
End Surface Back Reflection	> 50 dB (with AR coating)
Polarization Extinct Ratio (PER)	>19 dB (only for PM fiber)
Beam Ellipticity	>95% (only for single mode fiber)
Beam M ²	1.5
Power Handling (W)	5, 10, 30, 50, 100, and 500.
End Cap Diameter (mm)	0.125, 0.25
Operating Temperature (°C)	0 ~ 75
Store Temperature (°C)	-40 ~ 85

1. Excluding connectors.

Applications

- Fiber Lasers
- Fiber Collimator
- Optical System
- Sensor

Function Illustration



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

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Ordering Information

FECA-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Wavelength	Cap Rod Diameter	Cap Rod Length	Face Angle Coating	Package	Fiber Type	Cable Type	Fiber Length	Connector
	1060=1 2000=2 1310=3 1480=4 1550=5 1625=6 780=7 850=8 980=9 460=E 530=F 630=G 360=H Special=0	0.125mm=1 0.250mm=2 0.400mm=3 1.0 mm=4 1.5 mm=5 2 mm=6	0.3mm=1 0.4mm=2 0.5mm=3 0.6mm=4 0.7mm=5 0.8mm=6 0.9mm=7 1 mm=8 1.5 mm=9 Special=0	0° no coating =1 0° with coating =2 8° no coating =3 8° with coating =4 12° no coating =5 12° with coating =6 Special =0	Bare fiber =1 Inside a tube =2 Polyimide coating=3 Inside FC/PC connector Special=0	Select from below table	Bare fiber=0 0.9 mm loos tube=9 2 mm PVC cable=2 3 mm PVC cable=3 3 mm amor cable=4 5 mm amor cable=5 Special =0	0.25m=1 0.5m=2 1.0m=3 2.0=4 5 m=5 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0

01	SMF-28	34	PM1550	71	GIF 50/125um
02	SMF-28e	35	PM1950	72	GIF 62.5
03	Corning XB	36	PM1310	73	106/125um
04	SM450	37	PM405	74	FG105LCA
05	SM2000	38	PM480	75	FG50LGA
06	SM600	39	PM630	76	STP 50/125
07	Hi780	40	PM850	77	
08	SM800	41	PM980	78	
09	Hi980	42	PM780	79	
10	Hi1060	43	PM350	80	
11	SM300	44	PM2000	81	
12	SM400	45	PM460	82	
13	1060-25/250, DCF	46	1060-30/250, DCF	83	1060-20/400, 0.46NA DCF
14	1060-6/125, 0.46NA	47	1060-7/125, 0.46NA	84	1060-10/125, 0.46NA
15	1060-15/125, 0.46NA	48	1060-20/125, 0.46NA	85	1060-25/125, 0.46NA
16	1060-20/200, 0.46NA	49	1060-25/250, 0.46NA	86	1060-9/125, 0.46NA
17	PM1060-6/125, DCF	50	PM1060-10/125, DCF	87	PM1060-12/125, DCF
18	PM1060-25/250, DCF	51	PM1060-20/250, SCF	88	