

**BUY NOW** 

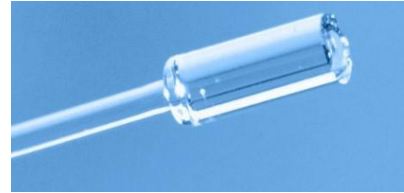
# Fiber End Cap (for high power applications)

## Features

- Low Loss
- High Optical Efficiency
- Low Internal Reflection
- Low Distortion
- Low Cost

## Product Description

The end-capped fiber increases its power handling by reducing the laser power density to a level below the damage threshold through modification at the fiber end. Photonwares has developed a manufacturable fiber fusion process to integrate a coreless end-cap to the end face of optical fibers and precisely fiber polishing process to control the end cap length and surface quality. This end cap technology that expands laser beam inside the fiber is designed for output termination of high power fiber laser and fiber amplifier but it also a pigtail process to produce high power fiber collimators.



## Specifications

Parameters		Min	Typical	Max	Unit
1	End core diameter	5		30	µm
2	Fiber diameter	80		280	µm
3	End cap length	300		2000	µm
4	End cap diameter	125		250	µm
5	Facet angle	0		12	Deg
6	Insertion loss	0.1		0.3	dB
7	Return loss		50		dB
8	Output beam M <sup>2</sup>		1.5		

## Applications

- Fiber lasers and amplifiers
- Fiber Collimator
- Optical System
- Optical Coupling

## Order information

FEND-	<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	Outer Diameter	End cap length	Angle	Cable	Fiber Type	Fiber Length	Connector
	1310nm=3 1550nm=5 800nm=8 980nm=9 1060nm=1 Special=0	0.125mm=1 0.250mm=2	0.3mm=1 0.4mm=4 0.5mm=5 0.6mm=6 Special=0	0°=0 8°=8 Special=9	Bare fiber=1 900 µm =9 3 mm =3 Special=9	HI1060=1 SMF-28=2 Special=0	0.25m=1 0.5m=2 1.0m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0

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

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5/2/21

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