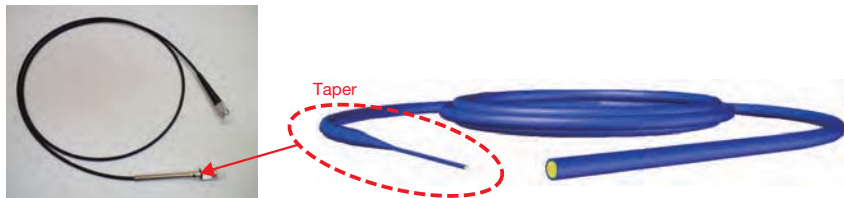
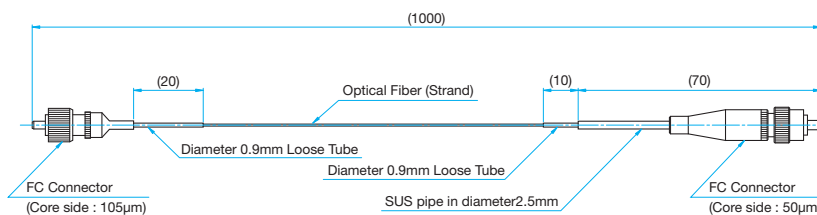


Tapered optical fibers use optical fibers shaped with a large input diameter and small output diameter, to deliver a spot size that cannot be achieved by focusing with a lens. Optical fibers are constructed by melting and stretching them using heaters or torches, and can be made into any desired fiber diameter to suit requests. (*The core/cladding ratio is fixed, so the outer diameter differs on the input side and output side)



Termination Shape

The standard termination shape of tapered optical fibers is similar to the shape that general patch cable is terminated (refer to image below). The tapered section can be terminated with SUS pipe to reduce fluctuations in optical power caused by bending and other factors.



Specifications					
Input Side Core Diameter	125µm	240µm	360µm	600µm	1000µm
Output Side Core Diameter	10µm	50µm	105µm	105µm	105µm
Fiber NA			0.29 (GI), 0.22 (SI)		
Operating Wavelength	≤8dB	≤3dB	≤3dB	≤6dB	≤7dB
Insertion Loss (at 633nm)			GI (recommended), SI		
Taper Length			≤80mm		
Fiber Length			1m		
Jacketing			0.9mm loose tube, 3.0mm cable		
Connector			SMA, FC, SC		

Note: Contact us for specifications other than those listed above.

* Fiber diameters and special connector shapes other than standard specifications are also available.

Specifying Part Numbers

TOF- - - - - 1 - -

Input Fiber Core Diameter
125: 125µm
240: 240µm
360: 360µm
600: 600µm
1000: 1000µm

Output Fiber Core Diameter
10: 10µm
50: 50µm
105: 105µm

Output Fiber NA
290: 0.29
220: 0.22

Refractive Index Distribution
GI: GI
SI: SI

Fiber Shape
0: Strand
2: 0.9mm loose tube
3: 3.0mm cable

Connector Shape
SMA0: Input Side SMA No Output End
0FC: No Input End Output End FC

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