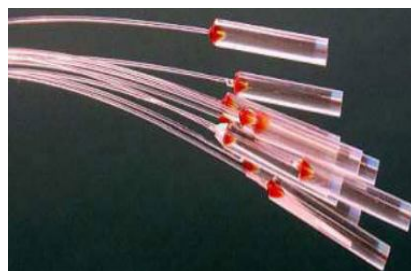


# Thermally Expanded Core (TEC) Fiber



Thermally Expanded Core (TEC) Fiber has an enlarged mode field diameter (MFD) by heating a conventional single-mode fiber locally at high temperature (~1300 to 1450 deg.). The core expansion rate depends on heating temperature and heating time. Although thermal diffusion changes the refractive index profile, the normal frequency and also single-mode condition no change.

## Application:

Power Coupling  
Fiber Optical Sensors  
High power connectors

## Feature:

Large expanded region  
Low excess loss  
Durable for high power  
AR coating available

## Specification

Parameter	Unit	Value		
		20um	30um	40um
Initial Mode Field Diameter	um	10.4		
Final Mode Field Diameter	um	20±2	30±2	40±5
Cladding Diameter	um	122~125		
TEC Region Length (Le)	mm	1.5±0.5 or specify		
Bare Fiber Length (Lg)	mm	5±0.5 or specify		
Fiber Pigtail length	m	1		
Excess Loss	dB	≤0.10	≤0.10	≤0.15
Fiber type	SMF-28e, RC80 SMF, HI1060FLEX, OFS980			
Pigtail type	Bare fiber, or Glass capillary, or Ceramic ferrule			

## Dimension

