

Features:

- Low Excess Loss
- Durable for High Power
- Large Expanded Region
- Available in various MFD sizes
- AR Coating Option Available
- ROHS Compliant
- Available in Bare Fiber, Glass Capillary Pigtail

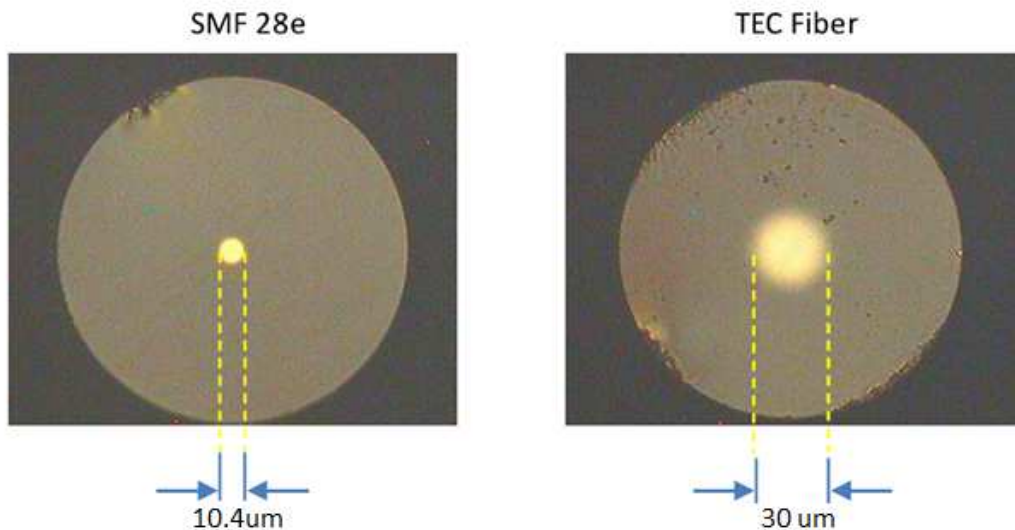
Application:

- Power Coupling
- High Power Connectors
- Fiber Optic Sensors



Description:

Go!Foton's Thermally Expanded Core Fiber has an enlarged mode field diameter (MFD) obtained by heating a conventional singlemode fiber locally at high temperature (~1300 to 1450 °C). The core expansion rate depends on heating temperature and heating time. TEC Fiber has the feature that although thermal diffusion changes the refractive index profile, the normal frequency does not change and hence the single mode condition is maintained through the process.



Specification:

Parameters	Unit				
Mode Field Diameter ¹	um	15±2	20±2	30±2	40±3
Initial Mode Field Diameter	um	10.4*			
Fiber Type	-	ITU 652.D Compliant Fiber			
Cladding Diameter	um	120±3			116±8
TEC Region Length	mm	1.0±0.5			

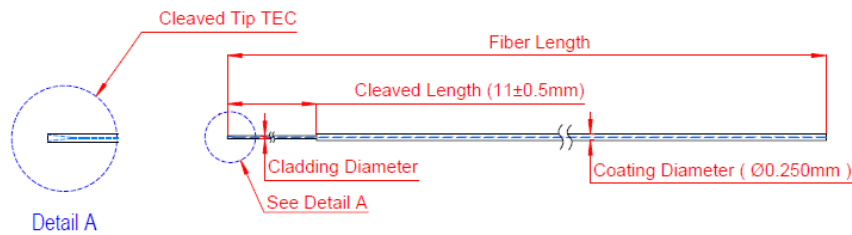
Notes: 1. Expanded MFD size is verified using a Beam Profiler with 13.5% Clip Level Settings.

* Based on SMF28e+ at 1550nm

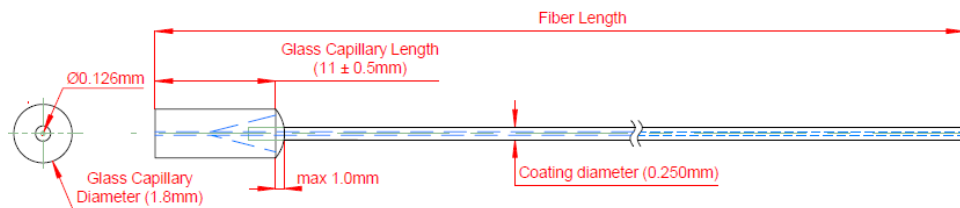
* Required Polishing Length is ≤0.5mm

Mechanical Drawing:

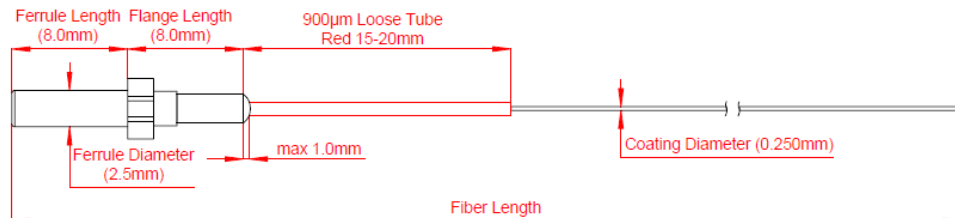
A. TEC Fiber Package:



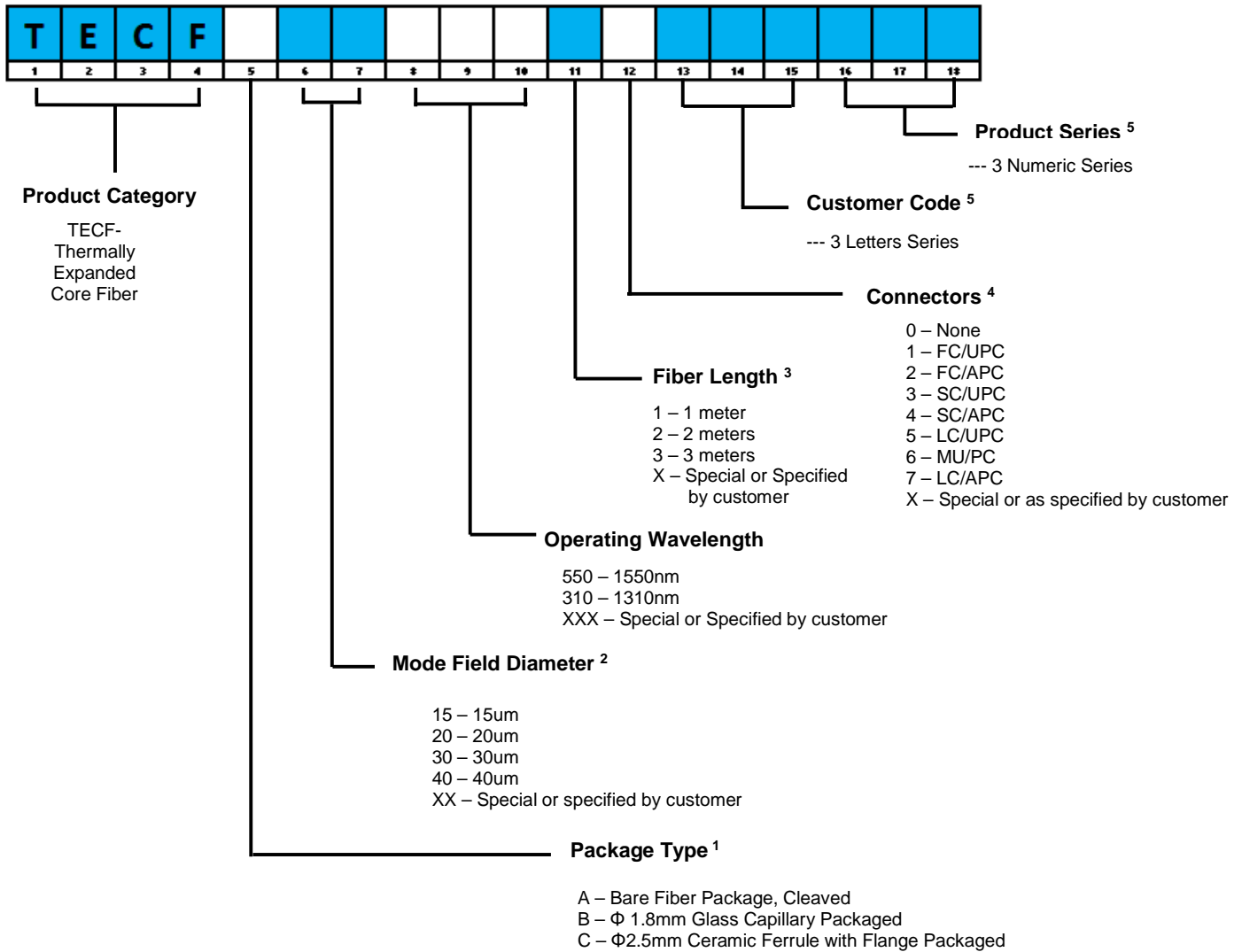
B. TEC Fiber Glass Capillary Package:



C. TEC Fiber Ceramic Ferrule Package:



Ordering Information:



Notes:

1. See Mechanical Drawing above for more details of the packaged dimensions. Glass Capillary and Ceramic Ferrule Package is available for MFD 30um and below only
2. Tolerance for other request MFD ≤ 30um is ±2.0um and for MFD ≤ 40um is ±5.0um.
3. The mechanical fiber length tolerance is ±0.1meters.
4. All ports are with connector of same type
5. Only applicable for products which is not cover by standard specifications

Example: TECFA3055032

Thermally Expanded Core Fiber, Cleaved Bare Fiber with 30um MFD at 1550nm operating wavelength, 3 meters length with FC/APC termination

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