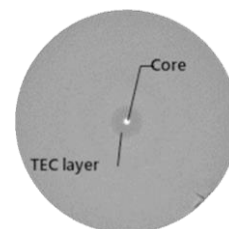


TEC SM fiber with heat resistant coating

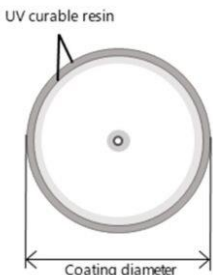
Fujikura TEC SM fibers with heat resistant coating can operate in a wide range of temperature between -40 °C and +150 °C. Fujikura fibers have a structure suitable for fusion splicing and optical connectors based on fiber design and manufacturing technologies developed over many years. Thermally-diffused Expanded Core (TEC) technology is applied to increase the mode field diameter by the heat generated during fusion bonding.



Features

- The fiber that has acrylate coating with improved heat resistance is available to use under the wide range of temperature between -40 °C and +150 °C.
- Low MFD mismatch loss between silicon waveguide and normal fiber
- Low fusion loss between TEC SM fiber and normal fiber
- Suitable for bonding with silicon photonics devices.

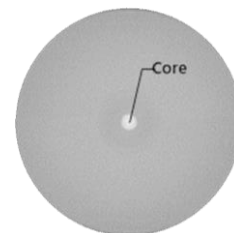
Specifications

	TEC13-15-U25HT-M4
Wavelength band	1310 nm band, 1550 nm band
Mode field diameter (μm)	3.4 ± 0.4 @ 1310 nm, 4.0 ± 0.3 @ 1550 nm
Concentricity error (μm)	≤ 0.5
Cladding diameter(Major diameter) (μm)	125 ± 1
Attenuation (dB/km)	≤ 50 @ 1310 nm, ≤ 35 @ 1550 nm
Cutoff wavelength (nm)	≤ 1280
Bending attenuation (dB, Φ5 mm × 10 turns)	≤ 0.01 @ 1550 nm
Minimum bending radius	2 % proof test level: R5 mm
Coating material	UV curable resin
Coating diameter (μm)	245 ± 15
Cross-section image	



High temperature resistant acrylate fiber

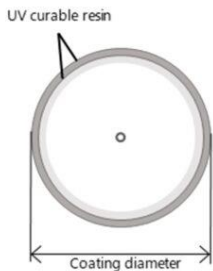
Fujikura single mode optical fiber with high temperature resistant acrylate coating protects the optical fiber up to 200 °C (short term).
The fiber is applied to harsh environments like Oil & Gas industry, and the attenuation fluctuation is less than 0.01 dB/km at both 1310 nm and 1550 nm at 200 °C.

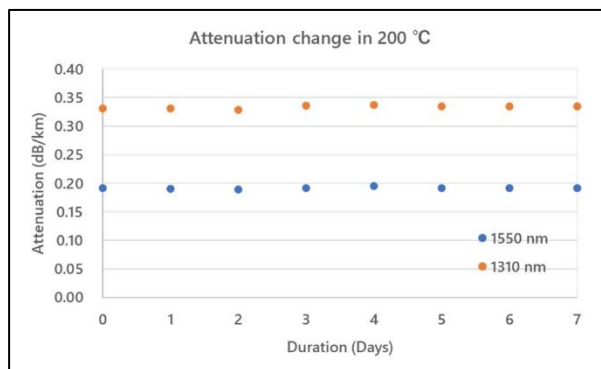


Features

- Low attenuation fluctuation : ≤ 0.01 dB/km (200 °C, 7 days / 150 °C, 3 months)
- Tensile strength : 5.2 GPa(Typical) 150 °C, 3 months aged
- Dynamic fatigue value (nd) : 21(Typical) 150 °C, 3 months aged

Specifications

	SR15-9/125-ACL
Wavelength band	1310 nm, 1550 nm
Mode field diameter (μm)	8.6 ± 0.7 @ 1310 nm, 9.8 ± 0.7 @ 1550 nm
Concentricity error (μm)	≤ 0.8
Cladding diameter(Major diameter) (μm)	125 ± 2
Cladding non-circularity (%)	≤ 2
Attenuation (dB/km)	≤ 0.4 @ 1310 nm, ≤ 0.3 @ 1550 nm
Cutoff wavelength (nm)	≤ 1290
Proof test level (%)	≥ 2
Coating material	UV curable resin
Coating diameter (μm)	245 ± 10
Cross-section image	



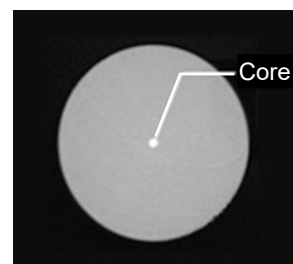
Contact us

Single Mode fiber (850 nm band)

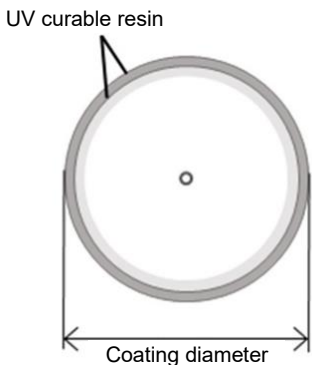
Fujikura fibers have a structure suitable for fusion splicing and optical connectors based on fiber design and manufacturing technologies developed over many years.

Features

- 850 nm band single mode fiber
- RCHA85-SM-U17C is 80 μm cladding diameter and High refractive index type.
- RoHS compliant



Specifications

	SM85-SM-U25D	RCHA85-SM-U17C
Wavelength band	850 nm band	
Mode field diameter (μm)	5.5 ± 1.0 @ 850 nm	3.5 ± 0.5 @ 850 nm
Concentricity error (μm)	≤ 0.7	≤ 1.0
Cladding diameter (Major diameter) (μm)	125 ± 1	80 ± 1
Attenuation (dB/km)	≤ 3.0 @ 850 nm	
Cutoff wavelength (μm)	≤ 0.78	0.65 – 0.80
Minimum bending radius	1% proof test level : R30 mm (*1) 2% proof test level : R20 mm	
Coating material	UV curable resin	
Coating diameter (μm)	245 ± 15	
Cross-section image		

*1. 1% proof test level is standard. 2% proof test level is available, and code '-H' is added at the end of the product name.
(e.g., SM85-SM-U25D-H)



Contact us