



## Multimode & Single Mode Fiber with HTA Coating & 500um ETFE Tight Buffer

### Features

- Range of coatings, polyimide/acrylate
- Low Loss
- High strength
- Excellent core/cladding concentricity
- Single Mode or Multimode
- Available with Steel tube or PEEK

### Applications

- Oil and Gas
- Avionics
- Fiber Sensors arrays
- Military
- Medical

Test Parameters	Specifications	
	Multimode GI	Single Mode
<b>Geometrical Properties</b>		
Numerical Aperture	0.275 +/- 0.015	0.125 +/- 0.015
Cladding Diameter	125 +/- 1.0 $\mu\text{m}$	125 +/- 1.0 $\mu\text{m}$
Core Diameter	62.5 $\mu\text{m}$ or 50 $\mu\text{m}$ +/- 3.0 $\mu\text{m}$	9.0 +/- 1.0 $\mu\text{m}$
Cladding Non-Circularity	< 1.0 %	< 1.0 %
Core / Cladding Concentricity Error	< 2.5 $\mu\text{m}$	< 2.5 $\mu\text{m}$
Coating Diameter	150 +/-5 $\mu\text{m}$	150 +/-5 $\mu\text{m}$
Coating / Cladding Concentricity error	<5.0 $\mu\text{m}$	<5.0 $\mu\text{m}$
Mode Field Diameter	-----	9.5 +/- 0.5 $\mu\text{m}$
Diameter over Primary ETFE Buffer	500 +/- 30 $\mu\text{m}$	500 +/- 30 $\mu\text{m}$
<b>Mechanical Properties</b>		
Fiber Proof Test Level	100 kpsi (200kpsi option)	100 kpsi (200 kpsi option)
Operating Temperature Range (High Temperature Acrylate Coating)	-70 to +150 °C	-65 to +150 °C
Short Term. Up to 10 Hours	-70 to +200 °C	-65 to +200 °C
<b>Optical Properties</b>		
Attenuation at 1550 nm		$\leq$ 0.25 dB / km
Attenuation at 1310 nm	<3.0 dB / km	$\leq$ 0.45 dB/km
Attenuation at 850 nm	<4.0 dB/km	
Cut off Wavelength	N/A	<1250+/-50 nm
Operating Wavelength		1300-1750 nm
Bandwidth	>200 MHz - km @ 850 nm >500 MHz - km @ 1300 nm	

Also available with High Temperature Polyimide Coatings. Plus buffer options.

FL-HTA-ET-SM-9/125/145/500

FL-HTA-ET-MM-50/125/145/500

FL-HTA-ET-MM-62/125/145/500