

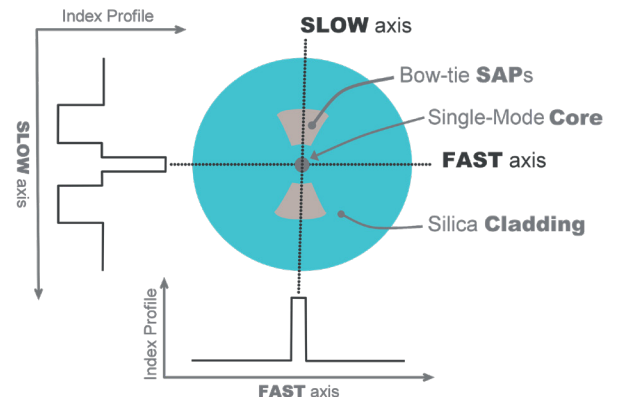
PM ERBIUM DOPED FIBER



PM Erbium Doped Fiber combines Fibercore's greatest areas of expertise: erbium doped fiber and Polarization Maintaining (PM) fiber.

It unites the well-established core composition of IsoGain™ Erbium Doped Fiber (EDF), with the highly effective 'Bow-Tie' geometry used in the Highly Birefringent (HB) PM fiber range.

PM Erbium Doped Fiber is invaluable in mode-locked fiber lasers, or in any specialized items that demand polarization maintenance. With high peak absorption, this fiber is particularly suitable for small gain length Erbium Doped Fiber Amplifiers (EDFAs) and research applications requiring very short active fiber regions.



Typical bow-tie HiBi fiber geometry.

FEATURES

Advantages

- High absorption for short lengths
- PM design to maintain polarization state
- Supported by Fibercore's GainMaster™ simulation software

Typical Applications:

- EDFAs
- Coherent communications
- Amplified Spontaneous Emission (ASE) light solutions
- Fiber lasers

Product Variants

- DHB1500
PM erbium doped fiber for PM EDFAs
- DHB1500-LA
PM erbium doped fiber for PM EDFAs

To find out more visit [fibercore.com](https://www.fibercore.com)

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SPECIFICATIONS

	DHB1500	DHB1500-LA
Cut-Off Wavelength (nm)	860 - 960	
Numerical Aperture	0.22 - 0.26	0.22 - 0.24
Mode Field Diameter (μm)	5.1 - 6.7 @1550nm	5.5 - 6.7 @1550nm
Absorption (dB/m)	12 - 27 @1531nm	3.0 - 5.5 @1531nm
Attenuation (dB/km)	≤20 @1200nm	≤15 @1200nm
Beat-Length (mm)	≤4.0 @633nm	
Proof Test (%)	1 (100 kpsi)	
Cladding Diameter (μm)	125 ± 1	
Core Cladding Concentricity (μm)	≤1.0	
Coating Diameter (μm)	245 ± 7	
Coating Type	Dual Layer Acrylate	
Operating Temperature (°C)	-55 to +85	

LA - Low absorption

RELATED PRODUCTS

- GainMaster™ simulation tool
- Erbium Doped Fiber IsoGain™
- Standard PM Fiber
- Telecoms PM Fiber
- PM Gyro Fiber
- Zing™ Polarizing Fiber
- PM Coupler Fiber

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