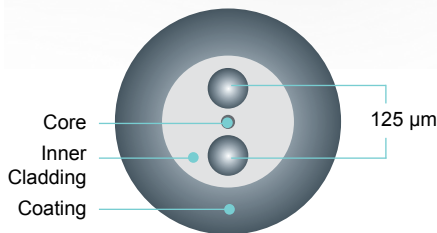
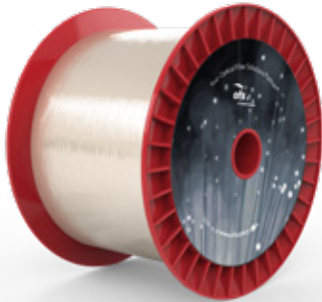




A Furukawa Company

## ErYb 7/125 Polarization-Maintaining Optical Fiber

P/N: 300 380 334



ErYb 7/125 PM

### Features and Benefits

- Core recipe optimized for high optical efficiency and shortest device lengths
- Pump wavelength 910 - 980 nm
- Low-splice-loss achieved to conventional single-mode fiber and most commercially available passive double-clad fibers
- High conversion efficiency
- Robust against 1  $\mu\text{m}$  parasitics

### Overview

The single-mode core of this polarization-maintaining fiber is co-doped with both erbium and ytterbium. It is then surrounded by a silica cladding and covered with a low-index protective coating. The resulting double-clad fiber is used for single-mode fiber lasers and amplifiers operating in the 1540 to 1565 nm range.

The fiber enables fiber lasers and amplifiers with good beam profile characteristics, high wall plug efficiencies, compact footprints, superior reliability, and maintenance-free operation. It also accommodates high energies during pulsed operation and at high repetition rates.

### Typical Applications

- Construction of multi-watt amplifiers around 1550 nm
- LIDAR, CATV, FTTx, FSOC



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Product Specifications	
Product Description	ErYb 7/125 PM Optical Fiber
Physical Characteristics	
Core numerical aperture	0.17
Cladding numerical aperture	0.45
Cutoff wavelength	< 1500 nm
Mode field diameter @ 1550 nm	7 $\mu$ m
Ytterbium clad absorption @ 915 nm	> 0.5 dB/m
Erbium peak absorption near 1535 nm	40 dB/m
Beat length @ 1060 nm	< 4.0 mm
Beat length @ 1550 nm	< 6.0 mm
Circular cladding diameter	125 $\mu$ m
Coating outer diameter	250 $\mu$ m
Mechanical and Environmental	
Proof Test Level	100 kpsi (0.69 GPa)
Order by Part Number	300 380 334

**For additional information please contact your sales representative.**

You can also visit our website at [www.ofsoptics.com](http://www.ofsoptics.com) or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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