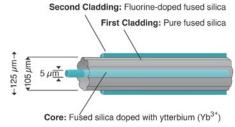


Dual Clad Erbium/Ytterbium Doped Fiber

Unlike other cladding pump or dual clad fibers, Fibercore's Dual Clad Erbium/Ytterbium Doped Fiber (CP1500Y) was originally designed as a high power communications amplifier fiber. The pump light is guided within an all-silica structure, using a fluorinated secondary cladding to create the pump guide boundary, without the need for low index polymers. The all-silica design gives outstanding power handling across full temperature and humidity ranges, without the reliability problems observed in low index polymer cladding designs.

The all-silica design means the fiber can be stripped, cleaved and spliced using standard telecoms industry equipment, without the need to recoat the fiber.



erbium (Er3+) and phosphorus

Advantages:

- All-silica design engineered for environmental stability
- Easy to strip, cleave and splice
- Petal structure optimizes pump conversion effectively
- Pump guiding structure is not removed after coating stripping process. Therefore, there is no need for low index recoating
- Field proven in volume applications since 1999

Related Products:

- Isolating Wavelength Division Multiplexer (CP-IWDM)
- Large Core Fiber (MM105)
- All Silica Double Clad Fiber (SMM900)

Typical applications:

- · High Power Erbium Doped Fiber Amplifiers (EDFAs)
- Ytterbium/Erbium Doped Fiber Amplifier (YEDFA)
- Fiber Lasers
- Light Radar (LIDAR)
- · Cable Television (CATV)

Product Variant:

• CP1500Y

Double clad ErYb doped fiber for high power amplifiers for CATV applications

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Specifications

| | CP1500Y |
|-------------------------------|---|
| Laser Core | |
| Composition | Phosphosilicate with erbium and ytterbium |
| Operating Wavelength (nm) | 1520 - 1570 |
| Numerical Aperture | 0.20 - 0.22 |
| Mode Field Diameter (µm) | 5.6 - 6.5 @1550nm |
| Cut-Off Wavelength (nm) | 1290 - 1510 |
| Absorption (dB/m) | 19 (nominal) @1550nm |
| Pump Guide | |
| Composition | Pure silica with F-doped silica cladding |
| Numerical Aperture | 0.24 - 0.28 |
| Mean Pump Guide Diameter (µm) | 85 - 105 |
| Absorption (dB/m) | 1 (nominal) @940nm |
| General Guide | |
| Proof Test (%) | 1 (100 kpsi) |
| Coating Type | Dual Layer Acrylate |
| Cladding Diameter (µm) | 125 ± 1 |
| Coating Diameter (µm) | 245 ± 7 |
| Operating Temperature (°C) | -55 to +85 |

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