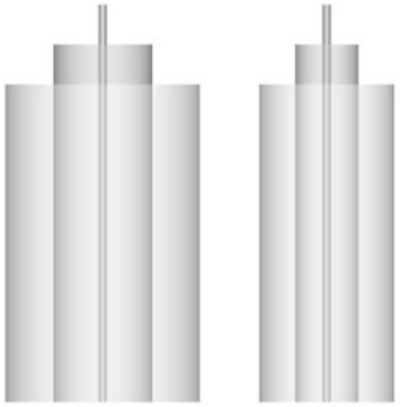
HARC™ ERBIUM DOPED FIBER

Mini, micro and pluggable QSFP EDFAs require the active fiber to fit within an extremely small coil size. This demands a HARC™ (high absorption reduced cladding) fiber which has a smaller diameter, lower bend loss, higher absorption and is more flexible than standard erbium doped fibers.

Fibercore can offer a range of different reduced cladding diameter erbium doped fibers focused on these applications.

The fibers offer:

- Reduced cladding diameter for increased flexibility and improved mechanical reliability
- Small coating diameter for a reduced coil stack size
- High erbium doping level for shorter fiber lengths
- Increased numerical aperture (NA) for lower bend loss



125µm Cladding 80µm Cladding

PRELIMINARY SPECIFICATIONS

	I-40(1530/80)HC	I-60(1530/80)HC	I-80(1530/80)HC
Cut-Off Wavelength (nm)	1200-1320		
Numerical Aperture	0.24-0.26		
Mode Field Diameter (µm)	4.8-5.4 @1550nm		
Absorption (dB/m) @1531nm	40	60	80
Proof Test (%)	2		
Attenuation (dB/m) @1200nm	≤30		
Polarization Mode Dispersion (ps/nm)	≤0.005		
Cladding Diameter (µm)	80 ± 1		
Core Cladding Concentricity (µm)	≤0.3		
Coating Diameter (µm)	130-140		
Coating Type	Dual Layer Acrylate		
Operating Temperature (°C)	-55 to +85		

RELATED PRODUCTS

- MD16.9 – Erbium Doped Fiber Isogain™
- MD03.8 - Single Mode Fiber For Visible RGB Through To Near IR

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