



Specialty Optical Fiber  
Manufacturer

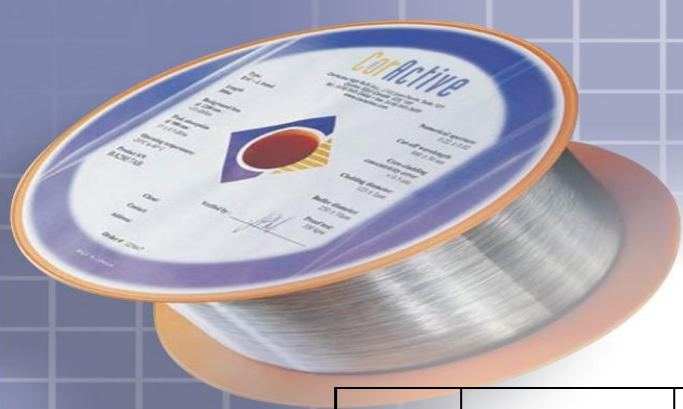
## Single-Clad Rare-Earth Doped Silica Fibers Erbium - Ytterbium



Identification			Optical properties						Physical characteristics		
Product number	Description	Dopant level	Numerical aperture (eff)	MFD @ 1550 nm	Cut-off wavelength	Peak absorption near 976 nm	Peak absorption near 1535 nm	Estimated losses @ 1550 nm	Cladding diameter	Coating diameter	Screen proof tested
EY 104	Erbium-Ytterbium Single mode	Medium	0.14 ± 0.02	12.0 ± 1.0 μm	700 - 800 nm	≥ 600 dB/m	≥ 10 dB/m	≤ 300 dB/km	124.7 ± 1.0 μm	250.0 ± 15.0 μm	≥ 100 kpsi
EY 110		High	0.18 ± 0.02	8.0 ± 1.0 μm	850 - 950 nm	≥ 1 000 dB/m	≥ 30 dB/m	≤ 400 dB/km			

Identification			Optical properties									Physical characteristics		
Product number	Description	Dopant level	Numerical aperture (eff)	MFD @ 1550 nm	Cut-off wavelength	Peak absorption near 976 nm	Peak absorption near 1535 nm	Estimated losses @ 1550 nm	Birefringence @ 1550nm	Beat length @ 1550nm	Extinction ratio @ 1550nm	Cladding diameter	Coating diameter	Screen proof tested
EY 375	Erbium-Ytterbium Single mode and Polarization maintaining	Medium	0.18 ± 0.02	8.0 ± 1.0 μm	1050 - 1150 nm	≥ 600 dB/m	≥ 30 dB/m	≤ 200 dB/km	≥ 1.4 x 10 <sup>-4</sup>	≤ 11.0 mm	≤ -30 dB over 1m	124.7 ± 3.5 μm	250.0 ± 15.0 μm	≥ 100 kpsi

Identification			Optical properties				Physical characteristics				
Product number	Description	Dopant level	Numerical aperture (Maximum)	Peak absorption near 976 nm	Peak absorption near 1535 nm	Estimated losses @ 1550 nm	Core diameter	Cladding diameter	Coating diameter	Screen proof tested	
EY 500	Erbium-Ytterbium Multimode	Medium	0.18 ± 0.02	≥ 450 dB/m	≥ 25 dB/m	≤ 125 dB/km	12.0 ± 1.0 μm	124.7 ± 1.0 μm	250.0 ± 15.0 μm	≥ 100 kpsi	
EY 501				≥ 500 dB/m	≥ 30 dB/m	≤ 150 dB/km					
EY 506				≥ 550 dB/m	≥ 40 dB/m	≤ 350 dB/km					
EY 600				≥ 600 dB/m	≥ 50 dB/m	≤ 200 dB/km					
EY 650		High	0.22 ± 0.02	≥ 900 dB/m	≥ 75 dB/m	≤ 300 dB/km	11.0 ± 1.0 μm				



Product number	Description	Dopant level	Confinement factor	Numerical aperture (eff)	MFD @ 1550 nm	Cut-off wavelength	Peak absorption near 976 nm	Peak absorption near 1535 nm	Estimated losses @ 1550 nm	Cladding diameter	Coating diameter	Screen proof tested
EY 203 <sup>1</sup>	Confined Erbium-Ytterbium Single mode	Medium	0.6 ± 0.1	0.14 ± 0.02	8.5 ± 1.0 μm	850-950nm	≥ 500 dB/m	≥ 9 dB/m	≤ 250 dB/km	124.7 ± 1.0 μm	250.0 ± 10.0 μm	≥ 100 kpsi
EY 304 <sup>1</sup>		Low			8.0 ± 1.0 μm		≥ 300 dB/m					

Identification				Optical properties					Physical characteristics			
Product number	Description	Dopant level	Confinement factor	Numerical aperture (eff)	MFD @ 1550 nm	Cut-off wavelength	Peak absorption near 976 nm	Peak absorption near 1535 nm	Estimated losses @ 1550 nm	Cladding diameter	Coating diameter	Screen proof tested
EY 302 <sup>1</sup>	Confined Erbium-Ytterbium Single mode & Photosensitive	Medium	0.8 ± 0.1	0.18 ± 0.02	6.0 ± 1 μm (MFD Ovality 15%)	1100 - 1200 nm	≥ 500 dB/m	≥ 30 dB/m	≤ 175 dB/km	124.7 ± 1.0 μm	250.0 ± 10.0 μm	≥ 100 kpsi
EY 305 <sup>1</sup>					7.0 ± 1.0 μm	1150 - 1350 nm		≥ 20 dB/m	≤ 40 dB/km			
<b>Splice loss ≤ 0.1 dB</b>												

Identification				Optical properties				Physical characteristics			
Product number	Description	Dopant level	Confinement factor	Numerical aperture (Maximum)	Peak absorption near 976 nm	Peak absorption near 1535 nm	Estimated losses @ 1550 nm	Core diameter	Cladding diameter	Coating diameter	Screen proof tested
EY 602 <sup>1</sup>	Confined Erbium-Ytterbium Multimode	Low	0.6 ± 0.1	0.18 ± 0.02	≥ 200 dB/m	≥ 8 dB/m	≤ 150 dB/km	30.0 ± 2.0 μm	124.7 ± 1.0 μm	250.0 ± 10.0 μm	≥ 100 kpsi

1 Products sold by CorActive under license  
Printed in Canada

**Edition 24 Revision 00**  
Copyright© 2004 CorActive High-Tech Inc  
All rights reserved