

CorActive Er/Yb Co-Doped Fibers For Eye-Safe Fiber Lasers & Amplifiers

CorActive's Er/Yb co-doped double clad fibers offer high doping concentrations and high QCE values that ensure minimum fiber length, minimum pump power and reduced non-linearities.

CorActive's Er/Yb co-doped double clad fiber features highly efficient energy transfer that makes this product the ideal solution for the design of high-energy LIDAR or high-power eye-safe fiber lasers and amplifiers.

ADVANTAGES

- High pump absorption allowing short fiber lengths
- Erbium/Ytterbium co-doping provides highly efficient energy transfer and allows low cost, high power pumps
- Optimized Er:Yb core composition
 - Efficient energy transfer
 - Reduced 1um emission

APPLICATIONS

- Eye-safe fiber lasers and amplifiers
- High-energy / long-range LIDAR
- Scientific/Research
- Medical

SPECIFICATIONS

Parameters	Specifications
Optical Specifications	
Clad Numerical Aperture	> 0.45
Material Specifications	
Core Material	Er/Yb Co-Doped Silica Glass
Inner Clad Material	Silica Glass
Outer Clad Material	Fluoroacrylate
Coating Material	Acrylate
Geometrical and Mechanical Specifications	
Clad Geometry	Octagonal ¹
Proof Test Level (kpsi)	100 ²

¹ Unless otherwise specified. Consult product datasheet to verify cladding geometry of specific model

² The specified proof test level is for cladding dimensions of 130um or less. Consult specific product datasheet for proof test levels of other cladding dimensions

AVAILABLE MODELS

Er/Yb (EY) Co-Doped Double-Clad Fibers						
Model	Core Diameter (µm)	Clad Diameter (µm)	Core NA	Clad Absorption @ 790 nm (dB/m)	Matched Passive Double-Clad Fiber	Matched Passive Single-Clad Fiber
DCF-EY-10/128	10.0 ± 1.0	128 ± 3	0.20 ± 0.02	2.0 ± 0.5 (@915nm)		
DCF-EY-10/128-PM	10.0 ± 2.0	128 ± 3	0.20 ± 0.02	2.0 ± 0.5 (@915nm)		
DCF-EY-12/128	12.0 ± 1.0	130 ± 3	0.20 ± 0.02	2.8 ± 0.9 (@915nm)		
DCF-EY-17/200	17.0 ± 2.0	200 ± 10	0.18 ± 0.02	2.5 ± 1.0 (@915nm)		
DCF-EY-23/210	23.5 ± 2.0	210 ± 10	0.21 ± 0.02	3.7 ± 1.0 (@915nm)		
DCF-EY-28/250	27.5 ± 2.5	250 ± 15	0.21 ± 0.02	3.7 ± 1.0 (@915nm)		

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