CorActive Active Double Clad Fibers For High-Power Lasers and Amplifiers

CorActive offers one of the most extensive selection of active double clad fibers on the market. CorActive highly efficient specially optical fibers are specifically designed to meet the needs of the high-power laser and amplifier market. CorAcive offers several model of Yb, Er, Er/Yb, and Tm-doped double clad fibers (PM and non-PM) in different optical and geometrical configurations.

ADVANTAGES

- Extensive product selection to suit most fiber laser and amplifier applications
- High absorption for reduced fiber length and non-linear effects
- High QCE values allows lower pump power requirements
- Custom products available upon request

APPLICATIONS

- Lasers for Materials Processing
- High-Power Lasers and Amplifiers
- Medical
- Military
- Scientific/Research

SPECIFICATIONS

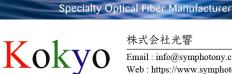
Optical Specifications				
Clad Numerical Aperture	> 0.45			
Material Specifications				
Core Material	Doped Silica Glass			
Inner Clad Material	Silica Glass			
Outer Clad Material	Fluoroacrylate			
Coating Material	Acrylate			
Geometrical and Mechanical Specifications				
Clad Geometry	Octagonal ¹			
Core/Clad Concentricity Error (µm)	< 1 ¹			
Proof Test Level (kpsi)	100 ²			

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

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

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STANDARD MODELS

Ytterbium (YB) Doped Double Clad Fibers							
Model	Core Diameter (µm)	Clad Diameter (µm)	Core NA	Clad Absorption @ 915nm (dB/m)	Birefringence	Matched Passive Double Clad Fiber	Matched Passive Single Clad Fiber
DCF-YB-6/128	6.5 ± 1.0	128 ± 3	0.16 ± 0.02	0.65 ± 0.20	N/A	DCF-UN-6/125-12	SCF-UN-6/125-12
DCF-YB-6/128-PM	6.5 ± 1.0	128 ± 3	0.16 ± 0.02	0.60 ± 0.15	≥ 2.2E-04		
DCF-YB-7/128-FA	7.0 ± 1.0	128 ± 3	0.19 ± 0.02	0.9 ± 0.2	N/A	DCF-UN-6/125-14	HI 1060
DCF-YB-8/128P-FA	8.0 ± 1.0	128 ± 3	0.10 ± 0.02	1.8 ± 0.3	N/A	DCF-UN-8/125-10	SCF-UN-8/125-10
DC-YB-10/128P	10.0 ± 1.0	128 ± 3	0.08 ± 0.01	1.7 ± 0.3	N/A	DCF-UN-10/125-08	SCF-UN-10/125-08
DCF-YB-10/128-FA	10.0 ± 1.0	128 ± 3	0.19 ± 0.02	2.7 ± 0.5	N/A		SCF-UN-11/125-21
DCF-YB-12/125-PM	12.0 ± 1.0	125 ± 3	0.10 ± 0.015	3.0 ± 0.6	≥ 2.0E-04		
DCF-YB-13/250	12.5 ± 2.0	250 ± 10	0.085 ± 0.01	0.6 ± 0.2	N/A	DCF-UN-13/250-08	
DCF-YB-15/128	15.0 ± 2.0	128 ± 3	0.08 ± 0.01	2.0 ± 0.4	N/A		
DCF-YB-15/128P-FA	15.0 ± 2.0	128 ± 3	0.13 ± 0.02	5.5 ± 1.0	N/A	DCF-UN-15/125-13	SCF-UN-15/125-11
DCF-YB-20/128-HCN	20.0 ± 2.0	128 ± 3	0.08 ± 0.01	3.5 ± 0.7	N/A	DCF-UN-20/125-08	SCF-UN-20/125-08
DCF-YB-20/128P-FA	20.0 ± 2.0	128 ± 3	0.11 ± 0.02	9.0 ± 2.0	N/A	DCF-UN-20/125-11	SCF-UN-20/125-12
DCF-YB-20/128-PM	20.0 ± 2.0	128 ± 3	0.09 ± 0.01	4.5 ± 1.0	N/A		
DCF-YB-25/250	25.0 ± 3.0	250 ± 10	0.08 ± 0.01	2.3 ± 0.4	N/A		
DCF-YB-25/250-PM	25.0 ± 3.0	250 ± 10	0.07 ± 0.01	1.6 ± 0.3	≥ 1.5E-04		
DCF-YB-30/250	30.0 ± 3.0	250 ± 10	0.08 ± 0.01	2.7 ± 0.5	N/A	DCF-UN-30/250-11	SCF-UN-30/250-11
DCF-YB-30/250P-FA	30.0 ± 3.0	250 ± 10	0.11 ± 0.015	5.5 ± 1.0	N/A	DCF-UN-30/250-11	SCF-UN-30/250-11
DCF-YB-30/250-PM	30.0 ± 3.0	250 ± 10	0.07 ± 0.01	2.0 ± 0.4	N/A		
DCF-YB-50/400P-FA	50.0 ± 5.0	400 ± 15	0.13 ± 0.02	4.5 ± 1.0	N/A	DCF-UN-50/400-11	SCF-UN-50/400-11

Erbium (ER) and Erbium/Ytterbium (EY) Doped Double Clad Fibers							
Model	Core Diameter (µm)	Clad Diameter (µm)	Core NA	Clad Absorption (dB/m)	Birefringence	Matched Passive Double Clad Fiber	Matched Passive Single Clad Fiber
DCF-ER-35/125	35 ± 4.0	125 ± 5	0.15 ± 0.02	1.3 ± 0.4 (@980nm)	N/A		
DCF-ER-70/250	70 ± 7.0	250 ± 10	0.20 ± 0.02	0.6 ± 0.2 (@980nm)	N/A		
DCF-EY-7/128	7.0 ± 1.0	128 ± 3	0.20 ± 0.02	0.9 ± 0.3 (@915nm)	N/A	DCF-UN-8/125-14	SCF-UN-8/125-14
DCF-EY-10/128	10.0 ± 1.0	128 ± 3	0.20 ± 0.02	2.0 ± 0.5 (@915nm)	N/A	DCF-UN-8/125-14	SCF-UN-8/125-14
DCF-EY-10/128-PM	10.0 ± 2.0	128 ± 3	0.20 ± 0.02	2.0 ± 0.5 (@915nm)	≥ 1.4E-04	DCF-UN-8/125-14-PM	
DCF-EY-12/130	12.0 ± 1.0	130 ± 3	0.20 ± 0.02	2.8 ± 0.9 (@915nm)	N/A	DCF-UN-8/125-14	SCF-UN-8/125-14
DCF-EY-17/200	17.0 ± 2.0	200 ± 10	0.18 ± 0.02	2.5 ± 1.0 (@915nm)	N/A	DCF-UN-17/200-18	SCF-UN-17/200-18
DCF-EY-23/210	23.5 ± 2.0	210 ± 10	0.21 ± 0.02	3.7 ± 1.0 (@915nm)	N/A		
DCF-EY-28/250	27.5 ± 2.5	250 ± 15	0.21 ± 0.02	3.7 ± 1.0 (@915nm)	N/A		

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STANDARD MODELS

Thulium (TM) Doped Double Clad Fibers							
Model	Core Diameter (µm)	Clad Diameter (µm)	Core NA	Clad Absorption @ 790 nm (dB/m)	Birefringence	Matched Passive Double Clad Fiber	Matched Passive Single Clad Fiber
DCF-TM-6/125	6.0 ± 1.0	125 ± 3	0.23 ± 0.2	1.4 ± 0.3	N/A	DCF-UN-6/123-23	
DCF-TM-20/400P	20.0 ± 2.0	400 ± 15	0.11 ± 0.01	5.5 ± 1.0	N/A		
DCF-TM-30/480P	30.0 ± 3.0	480 ± 20	0.11 ± 0.015	8 ± 2	N/A		

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