

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 specialty optical fibers are specifically designed to meet the needs of the high-power laser and amplifier market. CorActive offers several model of Yb, 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 CorACLAD Fluoroacrylate¹
Coating Material Acrylate

Geometrical and Mechanical Specifications

Clad Geometry Octagonal
Core/Clad Concentricity Error (μm) < 1¹
Proof Test Level (kpsi) 100¹

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



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CorActive

Specialty Optical Fiber Manufacturer

STANDARD MODELS

Ytterbium (YB) Doped Double Clad Fibers

Model	Core Diameter/ MFD (μm)	Clad Diameter (μm)	Core NA	Clad Absorption @ 915nm (dB/m)	Birefringence	Matched Passive Double Clad Fiber	Matched Passive Single Clad Fiber
DCF-YB-6/128S	6.0 \pm 1.0	128 \pm 3	0.12	0.55 \pm 0.10	N/A	DCF-UN-6/125-14	HI 1060
DCF-YB-6/128S-PM	6.0 \pm 1.0	128 \pm 3	0.12 \pm 0.01	0.60 \pm 0.15	\geq 2.2E-04	DCF-UN-6/125-14-PM	PM 980
DCF-YB-7/128-FHA	7.0 \pm 1.0	128 \pm 3	0.19 \pm 0.02	1.3 \pm 0.3	N/A	DCF-UN-6/125-14	HI 1060
DCF-YB-10/128E*	10.0 \pm 1.0	128 \pm 3	0.08 \pm 0.005	1.10 \pm 0.15	N/A	DCF-UN-10/125-08	SCF-UN-10/125-08
DCF-YB-12/125-PM	12.0 \pm 1.0	125 \pm 3	0.10 \pm 0.02	3.0 \pm 0.6	\geq 2.0E-04	DCF-UN-10/125-08-PM	
DCF-YB-20/128E	20.0 \pm 1.0	128 \pm 3	0.08 \pm 0.005	3.0 \pm 0.3	N/A	DCF-UN-20/125-08	SCF-UN-20/125-08
DCF-YB-20/128P-FA	20.0 \pm 2.0	128 \pm 3	0.11 \pm 0.02	9.0 \pm 2.0	N/A	DCF-UN-20/125-100	SCF-UN-20/125-100
DCF-YB-25/250E*	25.0 \pm 2.0	250 \pm 10	0.07 \pm 0.005	1.6 \pm 0.2	N/A	DCF-UN-25/250-08	SCF-UN-25/250-08
DCF-YB-30/250E*	30.0 \pm 2.0	250 \pm 10	0.07 \pm 0.005	2.0 \pm 0.2	N/A	DCF-UN-30/250-070	SCF-UN-30/250-070

Erbium (ER) and Erbium/Ytterbium (EY) Doped Double Clad Fibers

Model	Core Diameter/ MFD (μm)	Clad Diameter (μm)	Core NA	Clad Absorption (dB/m)	Birefringence	Matched Passive Double Clad Fiber	Matched Passive Single Clad Fiber
DCF-EY-6/128	6.5 \pm 0.8	128 \pm 3	0.20	0.90 \pm 0.15 (@915nm)	N/A	DCF-UN-8/125-14	SCF-UN-8/125-14
DCF-EY-6/105/125	6.4 \pm 0.8	105	0.20	1.2 \pm 0.2 (@915nm)	N/A	DCF-UN-8/105/125-14	SCF-UN-8/125-14
DCF-EY-10/128	10.0 \pm 1.0	128 \pm 3	0.20 \pm 0.02	2.0 \pm 0.5 (@915nm)	N/A	DCF-UN-8/125-14	SCF-UN-8/125-14
DCF-EY-10/128-PM	10.0 \pm 2.0	128 \pm 3	0.20 \pm 0.02	2.0 \pm 0.5 (@915nm)	\geq 1.4E-04	DCF-UN-8/125-14-PM	
DCF-EY-12/130	12.0 \pm 1.0	130 \pm 3	0.20 \pm 0.02	2.8 \pm 0.9 (@915nm)	N/A	DCF-UN-8/125-14	SCF-UN-8/125-14
DCF-EY-17/200	17.0 \pm 2.0	200 \pm 10	0.19 \pm 0.02	2.5 \pm 1.0 (@915nm)	N/A	DCF-UN-17/200-18	SCF-UN-17/200-18
DCF-EY-23/210	23.5 \pm 2.0	210 \pm 10	0.21 \pm 0.02	3.7 \pm 1.0 (@915nm)	N/A	DCF-UN-17/200-18	SCF-UN-17/200-18
DCF-EY-28/250	27.5 \pm 2.5	250 \pm 15	0.21 \pm 0.02	3.7 \pm 1.0 (@915nm)	N/A		

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-10/128	10.0 \pm 1.0	128 \pm 3	0.22 \pm 0.02	4.0 \pm 0.6	N/A	DCF-UN-8/125-18	SCF-UN-8/125-18
DCF-TM-12/128P	12.0 \pm 1.0	128 \pm 3	0.13 \pm 0.01	22 \pm 3	N/A	DCF-UN-8/125-14	SCF-UN-8/125-14
DCF-TM-22/400P	22.0 \pm 2.0	400 \pm 10	0.10 \pm 0.01	3.0 \pm 0.3	N/A	DCF-UN-16/400-10	SCF-UN-16/400-10

*Coming Soon. Specifications are subject to change.



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