

CorActive Passive Fibers

For Component & Laser Delivery Applications

CorActive offers one of the most extensive selections of passive component and laser delivery fibers on the market. CorActive passive fibers are matched to CorActive active fibers and other commercially available active fibers. CorActive passive component and laser delivery fibers are available in single-clad, double-clad and photosensitive versions.

ADVANTAGES

- Matched to CorActive and other commercially available active fibers
- Extensive product selection to suit most fiber laser and amplifier applications
- Circular clad design ensures easier cleaving and splicing
- Custom products available upon request

APPLICATIONS

- Fiber laser beam delivery
- Fiber laser and amplifier component manufacturing (Pump combiners, isolators, etc.)
- Fiber Bragg Grating manufacturing

SPECIFICATIONS

Matched Single-Clad Fibers					
Model	Core Diameter/MFD (μm)	Clad Diameter (μm)	Core NA	Matched CorActive Active Fiber	
SCF-UN-6/125-12	6.0 \pm 1.0	125 \pm 2	0.12 \pm 0.01		
SCF-UN-6/125-23	6.0 \pm 1.0	125 \pm 1	0.23 \pm 0.01	DCF-TM-6/128	
SCF-UN-8/125-10	8.0 \pm 1.0	125 \pm 2	0.10 \pm 0.01		
SCF-UN-8/125-14	8.0 \pm 1.0	125 \pm 1	0.14 \pm 0.01	DCF-EY-6/128, DCF-EY-6/105/125, DCF-EY-8/105/125 DCF-EY-10/128, DCF-TM-12/128P, SCF-TM-8/125	
SCF-UN-8/125-18	8.0 \pm 1.0	125 \pm 1	0.18 \pm 0.01	DCF-TM-10/128	
SCF-UN-8/200-10	8.0 \pm 1.0	200 \pm 4	0.10 \pm 0.01		
SCF-UN-8/200-14	8.0 \pm 1.0	200 \pm 10	0.14 \pm 0.01	DCF-EY-10/200	
SCF-UN-8/200-18	8.0 \pm 1.0	200 \pm 5	0.18 \pm 0.01		
SCF-UN-8/250-18	8.0 \pm 1.0	250 \pm 5	0.18 \pm 0.01		
SCF-UN-10/125-080	10.0 \pm 1.0	125 \pm 2	0.08 \pm 0.01	DC-YB-10/128E*	
SCF-UN-10/200-08	10.0 \pm 1.0	200 \pm 4	0.08 \pm 0.01		
SCF-UN-15/125-075	15.0 \pm 1.5	125 \pm 2	0.075 \pm 0.005	DCF-YB-15/128E*	
SCF-UN-15/125-11	15.0 \pm 1.0	125 \pm 2	0.11 \pm 0.01		
SCF-UN-15/250-10	15.0 \pm 1.0	250 \pm 5	0.100 \pm 0.005	DCF-EY-16/250P	
SCF-UN-16/125-16	16.0 \pm 1.0	125 \pm 1	0.16 \pm 0.01		
SCF-UN-16/400-10	16.0 \pm 1.0	400 \pm 10	0.100 \pm 0.005	DCF-TM-22/400P	

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Matched Single-Clad Fibers (Continued)

Model	Core Diameter	Clad Diameter	Core NA	Matched CorActive Active Fiber
SCF-UN-17/200-18	17.0 ± 2.0	195 ± 4	0.18 ± 0.02	
SCF-UN-20/125-06	20.0 ± 2.0	125 ± 2	0.06 ± 0.01	
SCF-UN-20/125-08	20.0 ± 2.0	125 ± 2	0.08 ± 0.01	DCF-YB-20/128E*
SCF-UN-20/125-100	20.0 ± 1.0	125 ± 2	0.100 ± 0.005	DCF-YB-20/128E*, DCF-YB-20/128P-FAC
SCF-UN-20/125-12	20.0 ± 1.0	125 ± 2	0.12 ± 0.01	
SCF-UN-20/250-08	20.0 ± 2.0	250 ± 5	0.08 ± 0.01	
SCF-UN-20/250-11	20.0 ± 2.0	250 ± 5	0.11 ± 0.01	
SCF-UN-20/400-06	20.0 ± 2.0	400 ± 8	0.06 ± 0.01	
SCF-UN-25/125-10	25.0 ± 2.0	245 ± 10	0.10 ± 0.01	
SCF-UN-25/250-08	25.0 ± 2.0	250 ± 5	0.080 ± 0.005	DCF-UN-25/250E*
SCF-UN-25/250-10	25.0 ± 1.5	250 ± 5	0.10 ± 0.01	NSP-0102
SCF-UN-27/125-075	27.0 ± 1.0	125 ± 1	0.075 ± 0.005	
SCF-UN-30/250-070	30.0 ± 1.0	250 ± 5	0.070 ± 0.005	DCF-YB-30/250E*
SCF-UN-30/250-11	30.0 ± 3.0	250 ± 5	0.11 ± 0.01	
SCF-UN-50/125-13	50.0 ± 3.0	125 ± 2	0.13 ± 0.01	
SCF-UN-50/400-12	50.0 ± 5.0	400 ± 8	0.12 ± 0.01	

*Coming soon. Specifications are preliminary and subject to change.

Model	Core Diameter/MFD (μm)	Clad Diameter (μm)	Core NA	Matched CorActive Active Fiber
DCF-UN-6/125-14	6.20 ± 0.45	125 ± 2	0.14	DCF-YB-6/128S
DCF-UN-6/125-14-PM	5.5 ± 1.0	125 ± 2	0.14 ± 0.01	DCF-YB-6/128S-PM
DCF-UN-6/123-23	6.0 ± 1.0	123 ± 2	0.23 ± 0.02	DCF-TM-6/128
DCF-UN-8/105/125-14	8.0 ± 0.5	125 ± 2	0.14 ± 0.01	DCF-EY-6/105/125, DCF-EY-8/105/125
DCF-UN-8/125-10	8.0 ± 1.0	125 ± 2	0.10 ± 0.01	
DCF-UN-8/125-14	8.0 ± 1.0	125 ± 1	0.14 ± 0.02	DCF-EY-6/128, DCF-EY-10/128, DCF-TM-12/128P
DCF-UN-8/125-14-PM	8.0 ± 1.0	125 ± 2	0.14 ± 0.01	DCF-EY-10/128-PM
DCF-UN-8/125-18	8.0 ± 1.0	125 ± 1	0.18 ± 0.01	DCF-TM-10/128
DCF-UN-8/200-10	8.0 ± 1.0	195 ± 4	0.10 ± 0.01	
DCF-UN-8/200-14	8.0 ± 1.0	200 ± 10	0.14 ± 0.01	DCF-EY-10/200
DCF-UN-8/200-18	8.0 ± 1.0	200 ± 5	0.18 ± 0.01	
DCF-UN-8/250-18	8.0 ± 1.0	250 ± 5	0.18 ± 0.01	
DCF-UN-10/125-08	10.0 ± 1.0	125 ± 2	0.080 ± 0.005	DCF-YB-10/128E*
DCF-UN-10/125-08-PM	10.0 ± 1.0	125 ± 2	0.08 ± 0.01	DCF-YB-12/125-PM
DCF-UN-10/200-08	10.0 ± 1.0	200 ± 4	0.08 ± 0.01	

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Matched Double-Clad Fibers (Continued)

Model	Core Diameter/MFD (μm)	Clad Diameter (μm)	Core NA	Matched CorActive Active Fiber
DCF-UN-10/250-080	10.0 \pm 0.5	250 \pm 5	0.080 \pm 0.005	
DCF-UN-11/300-11	11.0 \pm 1.0	300 \pm 10	0.11 \pm 0.01	
DCF-UN-14/125-18	14.0 \pm 1.0	125 \pm 1	0.18 \pm 0.01	
DCF-UN-15/125-075	15.0 \pm 1.5	125 \pm 2	0.075 \pm 0.005	DCF-YB-15/128E*
DCF-UN-15/125-10	14.75 \pm 0.50	125.0 \pm 0.5	0.110 \pm 0.008	DCF-YB-15/128E*
DCF-UN-15/250-10	15.0 \pm 1.0	250 \pm 5	0.100 \pm 0.005	DCF-EY-16/250P
DCF-UN-16/125-16	16.0 \pm 1.0	125 \pm 1	0.16 \pm 0.01	
DCF-UN-16/400-10	16.0 \pm 1.0	400 \pm 10	0.100 \pm 0.005	DCF-TM-22/400P
DCF-UN-17/200-18	17.0 \pm 2.0	195 \pm 4	0.18 \pm 0.02	
DCF-UN-20/125-060	20.0 \pm 10	125 \pm 2	0.062 \pm 0.005	
DCF-UN-20/125-080	20.0 \pm 1.0	125 \pm 2	0.080 \pm 0.005	DCF-YB-20/128E*
DCF-UN-20/125-100	20.0 \pm 1.0	125 \pm 2	0.100 \pm 0.005	DCF-YB-20/128E*, DCF-YB-20/128P-FA
DCF-UN-20/125M	15	125 \pm 2	0.075	DCF-YB-20/128E*, DCF-YB-20/128P-FA
DCF-UN-25/125-10	25.0 \pm 2.0	125 \pm 2	0.10 \pm 0.01	
DCF-UN-20/250-080	20.0 \pm 2.0	250 \pm 5	0.080 \pm 0.005	DCF-YB-25/250E*
DCF-UN-20/400-06	20.0 \pm 2.0	400 \pm 8	0.065 \pm 0.005	
DCF-UN-20/400-06-PS	20.0 \pm 2.0	400 \pm 8	0.06 \pm 0.01	
DCF-UN-25/250-08	25.0 \pm 2.0	250 \pm 5	0.08 \pm 0.01	DCF-YB-25/250E*
DCF-UN-25/250-10	25.0 \pm 1.5	250 \pm 5	0.10 \pm 0.01	NSP-0102
DCF-UN-25/400-11	25.0 \pm 2.0	400 \pm 8	0.11 \pm 0.01	DCF-TM-20/400P
DCF-UN-27/125-075	27.0 \pm 1.0	125 \pm 1	0.075 \pm 0.005	
DCF-UN-30/250-070	30.0 \pm 2.0	250 \pm 5	0.070 \pm 0.005	DCF-YB-30/250E*
DCF-UN-35/400-10	35.0 \pm 3.0	400 \pm 10	0.100 \pm 0.005	
DCF-UN-50/70/200-22	50.0 \pm 2.0	200 \pm 5	0.22 \pm 0.02	

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High Power Beam Delivery Fibers

Model	Core Diameter	Clad Diameter	Core NA	Application
DCF-UN-100/250-22	100 ± 5	250 ± 5	0.22 ± 0.02	
DCF-UN-17/400P-07	17.0 ± 1.0	400 ± 15	0.070 ± 0.005	Laser Delivery
DCF-UN-20/400-06	20.0 ± 2.0	400 ± 8	0.065 ± 0.005	Laser Delivery
DCF-UN-50/400-12	50.0 ± 5.0	400 ± 8	0.12 ± 0.01	Laser Delivery
DCF-UN-50/400-15	50.0 ± 5.0	400 ± 8	0.15 ± 0.01	Laser Delivery
HCF-125-47	125 ± 2	165 (typ)	> 0.46	Laser Delivery
HCF-200-47	200 ± 4	265 (typ)	> 0.46	Laser Delivery
HCF-250-47	250 ± 5	315 (typ)	> 0.46	Laser Delivery
HCF-400-47	400 ± 8	560 (typ)	> 0.46	Laser Delivery
MM-600/0.47	600 ± 12	620 (typ)	> 0.46	Laser Delivery

Highly Nonlinear Fibers

Model	MFD	Core Diameter	Clad Diameter	Core NA	Notes
SCF-UN-3/125-25	4.0 (typical)	3.0 ± 0.5	125 ± 2	0.25 ± 0.02	Small Effective Area (A _{eff}) Fiber
SCF-UN-3/125-25-PM	4.0 (typical)	3.0 ± 0.5	125 ± 2	0.25 ± 0.02	Small Effective Area (A _{eff}) PM Fiber
SCF-UN-9/125-12-RM	N/A	9 ± 1	125 ± 3	0.12 ± 0.02	Raman Phosphosilicate Fiber
SM-RAMAN-P	6.2 (typical)	4.0 ± 1.0	125 ± 2	0.18 ± 0.02	Raman Phosphosilicate Fiber

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