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FC/PC and FC/APC Pigtailed Collimators with SM Fibers

Our line of pigtailed collimators has a fiber and an AR-coated aspheric lens permanently glued inside a stainless steel housing. Each collimator comes with one meter of single mode fiber and is aligned to collimate/couple light at the specified wavelength. Since the AR coating encompasses a broad spectral range, it is possible to use this collimator at any wavelength within the coating range; however, the divergence angle/coupling loss will increase as the wavelength is detuned from the design wavelength. Custom alignment wavelengths are available upon request.



Aspheric Collimator 2.0 mm EFL
Housing Diameter: 4.5 mm



Aspheric Collimator 4.6 mm EFL
Housing Diameter: 5.7 mm



Aspheric Collimator 11.0 mm EFL
Housing Diameter: 9.0 mm



Aspheric Collimator 18.4 mm EFL
Housing Diameter: 9.0 mm



Specifications

- **Insertion Loss:** <0.2 dB
- **Return Loss:** 40 dB (55 dB for CFS11-XXX-APC, CFS18-XXX-APC)
- **Fiber Length:** 1 m

ITEM #	FIBER*	ALIGNMENT	AR COATING (LENS)
CFSxx-532-FC	460HP	532 nm	350 - 700 nm
CFSxx-850-APC	SM800-5.6-125	850 nm	650 - 1050 nm
CFSxx-1030-FC	HI1060	1030 nm	650 - 1050 nm
CFSxx-1064-FC	HI1060	1064 nm	1050 - 1620 nm
CFSxx-1310-APC	SMF28e+	1310 nm	1050 - 1620 nm
CFSxx-1550-APC	SMF28e+	1550 nm	1050 - 1620 nm

*Fiber is AR Coated

ITEM #	EFL	INPUT MFD ^a	OUTPUT WAIST DIA.	DIVERGENCE ^b	LENS CHARACTERISTICS		ALIGNMENT	CONNECTOR
					CA ^c	NA		
CFS2-532-FC	1.97 mm	3.5 μm	0.39 mm	1.75 mrad	2.0 mm	0.51	532 nm	FC/PC
CFS2-1030-FC	2.01 mm	6.0 μm	0.44 mm	3.00 mrad	2.0 mm	0.50	1030 nm	FC/PC
CFS2-1064-FC	2.02 mm	6.2 μm	0.44 mm	3.10 mrad	2.0 mm	0.50	1064 nm	FC/PC
CFS5-1030-FC	4.67 mm	6.0 μm	1.0 mm	1.30 mrad	3.6 mm	0.39	1030 nm	FC/PC
CFS5-1064-FC	4.60 mm	6.2 μm	1.0 mm	1.35 mrad	3.6 mm	0.39	1064 nm	FC/PC
CFS11-1030-FC	11.16 mm	6.0 μm	2.4 mm	0.55 mrad	5.4 mm	0.24	1030 nm	FC/PC
CFS11-1064-FC	11.17 mm	6.2 μm	2.4 mm	0.56 mrad	5.4 mm	0.24	1064 nm	FC/PC
CFS18-532-FC	18.04 mm	3.5 μm	3.6 mm	0.19 mrad	5.5 mm	0.15	532 nm	FC/PC
CFS18-1030-FC	18.56 mm	6.0 μm	4.0 mm	0.33 mrad	5.5 mm	0.15	1030 nm	FC/PC
CFS18-1064-FC	18.57 mm	6.2 μm	4.0 mm	0.34 mrad	5.5 mm	0.15	1064 nm	FC/PC

^a Mode Field Diameter^b Full Angle in the Near-Field^c Clear Aperture

ITEM #	EFL	INPUT MFD ^a	OUTPUT WAIST DIA.	DIVERGENCE ^b	LENS CHARACTERISTICS		ALIGNMENT	CONNECTOR
					CA ^c	NA		
CFS2-1310-APC	2.03 mm	9.2 μm	0.54 mm	3.10 mrad	2.0 mm	0.49	1310 nm	FC/APC
CFS2-1550-APC	2.03 mm	10.4 μm	0.38 mm	5.20 mrad	2.0 mm	0.49	1550 nm	FC/APC
CFS5-1310-APC	4.70 mm	9.2 μm	0.83 mm	2.00 mrad	3.6 mm	0.38	1310 nm	FC/APC
CFS5-1550-APC	4.73 mm	10.4 μm	0.87 mm	2.26 mrad	3.6 mm	0.38	1550 nm	FC/APC
CFS11-850-APC	11.10 mm	5.6 μm	2.1 mm	0.50 mrad	5.4 mm	0.24	850 nm	FC/APC
CFS11-1310-APC	11.25 mm	9.2 μm	2.0 mm	0.84 mrad	5.4 mm	0.24	1310 nm	FC/APC
CFS11-1550-APC	11.31 mm	10.4 μm	2.1 mm	0.95 mrad	5.4 mm	0.24	1550 nm	FC/APC
CFS18-850-APC	18.45 mm	5.6 μm	4.0 mm	0.28 mrad	5.5 mm	0.15	850 nm	FC/APC
CFS18-1310-APC	18.67 mm	9.2 μm	3.3 mm	0.50 mrad	5.5 mm	0.15	1310 nm	FC/APC
CFS18-1550-APC	18.75 mm	10.4 μm	3.5 mm	0.57 mrad	5.5 mm	0.15	1550 nm	FC/APC

^a Mode Field Diameter^b Full Angle in the Near-Field^c Clear Aperture

ITEM #	\$	£	€	RMB
CFS2-532-FC	\$ 230.00	£ 165.60	€ 200.10	¥ 1,833.10
CFS2-1030-FC	\$ 230.00	£ 165.60	€ 200.10	¥ 1,833.10
CFS2-1064-FC	\$ 230.00	£ 165.60	€ 200.10	¥ 1,833.10
CFS5-1030-FC	\$ 210.00	£ 151.20	€ 182.70	¥ 1,673.70
CFS5-1064-FC	\$ 210.00	£ 151.20	€ 182.70	¥ 1,673.70
CFS11-1030-FC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70
CFS11-1064-FC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70
CFS18-532-FC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70
CFS18-1030-FC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70
CFS18-1064-FC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70

ITEM #	\$	£	€	RMB
CFS2-1310-APC	\$ 230.00	£ 165.60	€ 200.10	¥ 1,833.10
CFS2-1550-APC	\$ 230.00	£ 165.60	€ 200.10	¥ 1,833.10
CFS5-1310-APC	\$ 210.00	£ 151.20	€ 182.70	¥ 1,673.70
CFS5-1550-APC	\$ 210.00	£ 151.20	€ 182.70	¥ 1,673.70
CFS11-850-APC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70
CFS11-1310-APC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70
CFS11-1550-APC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70
CFS18-850-APC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70
CFS18-1310-APC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70
CFS18-1550-APC	\$ 310.00	£ 223.20	€ 269.70	¥ 2,470.70