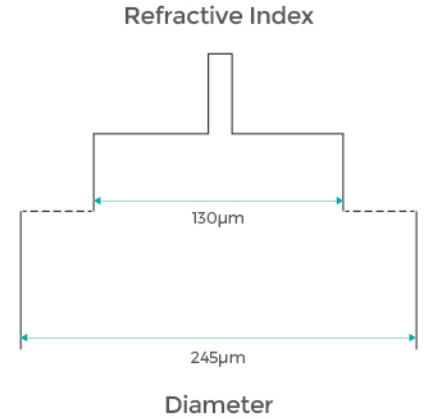


Passive Fiber

Everfoton double/single-cladding passive fiber is optimized precisely to match the DC-GDF series, with low splice performance. The fiber is widely used in industrial, medical and other fields. Large core and high NA multi-mode fiber can be used to pump source output and high power output.



Characteristics

- Precise geometry
- Low splice loss
- Low NA core to maintain excellent beam quality

Applications

- Pulse/ CW fiber laser/ Amplifier
- Pigtail
- Fiber combiner
- FBG

Specifications-I

Fiber Type	GDF_SC 10/125 -0.08	GDF_DC 10/130- 0.08	GDF_SC 20/130- 0.08	GDF_DC 20/130- 0.08	GDF_DC 14/250- 0.07	GDF_DC 25/250- 0.085	GDF_DC 25/250- 0.11	GDF_SC 30/250- 0.065	GDF_DC 30/250- 0.065	GDF_DC 30/250- 0.075	GDF_DC 34/250- 0.11
Part No.	SG1010-C	DG1110-A	SG1011-A	DG1111-A	DG1110-C	DG1112-A	DG1112-D	SG1011-C	DG1113-A	DG1113-E	DG1113-C
Optical Properties											
Core NA	0.08 ± 0.01	0.08 ± 0.01	0.08 ± 0.01	0.08 ± 0.01	0.070 ± 0.005	0.085 ± 0.005	0.11 ± 0.01	0.075 ± 0.005	0.065 ± 0.005	0.075 ± 0.005	0.11 ± 0.01
Inner Cladding NA	-	≥ 0.46	-	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46	-	≥ 0.46	≥ 0.46	≥ 0.46
Core Attenuation @1300nm (dB/km)	≤ 40.0	≤ 40.0	≤ 40.0	≤ 40.0	≤ 45.0	≤ 45.0	≤ 45.0	≤ 40.0	≤ 45.0	≤ 45.0	≤ 45.0
Core Attenuation @1200nm (dB/km)	≤ 20.0	≤ 20.0	≤ 20.0	≤ 20.0	≤ 20.0	≤ 45.0	≤ 30.0	≤ 10.0	≤ 30.0	≤ 30.0	≤ 30.0
Cladding Attenuation @1095nm (dB/km)	-	≤ 15.0	-	≤ 15.0	≤ 15.0	≤ 15.0	≤ 15.0	-	≤ 15.0	≤ 15.0	≤ 15.0
Geometrical Properties											
Core Diameter (µm)	11.0 ± 1.0	11.0 ± 1.0	20.0 ± 1.5	20.0 ± 1.5	14.0 ± 1.5	25.0 ± 1.5	25.0 ± 1.5	30.0 ± 1.5	30.0 ± 2.0	30.0 ± 2.0	35.0 ± 1.0
Cladding Diameter (µm)	125.0 ± 1.0	130.0 ± 1.0	130.0 ± 2	130.0 ± 1.0	247.0 ± 3.0	247.0 ± 3.0	247.0 ± 3.0	247.0 ± 3.0	247.0 ± 3.0	247.0 ± 3.0	247.0 ± 3.0
Coating Diameter (µm)	245.0 ± 10.0	245.0 ± 10.0	245.0 ± 10.0	245.0 ± 10.0	395.0 ± 15.0	395.0 ± 15.0	395.0 ± 15.0	395.0 ± 15.0	395.0 ± 15.0	395.0 ± 15.0	395.0 ± 15.0
Core/Cladding Concentricity (µm)	≤ 0.7	≤ 0.7	≤ 0.7	≤ 0.7	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
Cladding Non-circularity (%)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Proof Test (kpsi)	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100

*Single cladding fiber can be offered

Specifications-2

Fiber Type	GDF_DC 20/400-0.065	GDF_DC 25/400-0.065	GDF_DC 25/400-0.11	GDF_DC 30/400-0.06	GDF_DC 50/400-0.11	GDF_DC 100/400-0.12	GDF_DC 200/360-0.12
Part No.	DG1111-C	DG1112-B	DG1112-C	DG1113-B	DG1115-B	DG1116-B	DG1117-A
Optical Properties							
Core NA	0.065 ± 0.005	0.065 ± 0.005	0.110 ± 0.005	0.06 ± 0.005	0.11 ± 0.01	0.120 ± 0.005	0.12±0.01
Inner Cladding NA	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46
Core Attenuation@1300nm (dB/km)	≤ 20.0	≤ 20.0	≤ 12.0	≤ 20.0	≤ 20.0	-	≤ 20.0
Core Attenuation@1200nm (dB/km)	≤ 15.0	≤ 15.0	≤ 8.0	≤ 15.0	≤ 15.0	-	≤ 25.0
Cladding Attenuation@1095nm (dB/km)	≤ 15.0	≤ 15.0	≤ 15.0	≤ 15.0	≤ 15.0	≤ 25.0	≤ 15.0
Geometrical Properties							
Core Diameter (µm)	20.0 ± 1.5	25.0 ± 1.5	25.0 ± 1.5	30.0 ± 2.0	50.0 ± 1.5	100.0 ± 2.0	200.0 ± 7.0
Cladding Diameter (µm)	395.0 ± 5.0	395.0 ± 5.0	395.0 ± 5.0	400.0 ± 5.0	395.0 ± 5.0	400.0 ± 5.0	360.0 ± 10.0
Coating Diameter (µm)	550.0 ± 15.0	550.0 ± 15.0	550.0 ± 15.0	550.0 ± 15.0	550.0 ± 15.0	550.0 ± 15.0	540.0 ± 20.0
Core/Cladding Concentricity (µm)	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 4.0
Cladding Non-circularity (%)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 1.0
Proof Test (kpsi)	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100

*single cladding fiber can be offered

Specifications-3

Fiber Type	SI 105/125- 22/250 (PSC)	SI 135/155- 22/320(PSC)	SI 135/155- 22/320 (DC)	SI 200/220- 22/320(PSC)	SI 200/220- 22/350(DC)	SI 220/242- 22/330(PSC)	SI 220/242- 22/330(DC)	SI 600/660- 22/960(DC)	SI 800/880- 22/1050(DC)	SI 220/242- 22/330(DC)
Part No.	SI2014-N	SI2014-O	SI2110-C	SI2014-A	SI2110-D	SI2015-B	SI2111-A	SI2114-B	SI2114-C	SI2114-H
Optical Properties										
Core NA	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02
Inner Cladding NA	-	-	≥ 0.46	-	≥ 0.46	-	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46
Core Attenuation @1300nm (dB/km)	≤ 8.0	≤ 40.0	≤ 20.0	-	≤ 20.0	-	≤ 20.0	-	-	-
Core Attenuation @1200nm (dB/km)	-	≤ 20.0	≤ 15.0	-	≤ 15.0	-	≤ 15.0	-	-	-
Cladding Attenuation @1095nm (dB/km)	-	-	≤ 15.0	-	≤ 15.0	-	≤ 15.0	-	-	-
Geometrical Properties										
Core Diameter (µm)	105.0 ± 3.0	135.0 ± 1.5	135.0 ± 1.5	200.0 ± 4.0	200.0 ± 4.0	220.0 ± 5.0	220.0 ± 4.0	600.0 ± 8.0	800.0 ± 10.0	1000.0 ± 20.0
Cladding Diameter (µm)	125.0 ± 2.0	155.0 ± 1.0	155.0 ± 1.0	220.0 ± 3.0	220.0 ± 3.0	242.0 ± 3.0	242.0 ± 3.0	660.0 ± 10.0	880.0 ± 10.0	1100.0 ± 22.0
Coating Diameter (µm)	250.0 ± 10.0	320.0 ± 10.0	320.0 ± 20.0	320.0 ± 15.0	350.0 ± 20.0	330.0 ± 20.0	330.0 ± 25.0	960.0 ± 40.0	1050.0 ± 40.0	1350.0 ± 50.0
Core/Cladding Concentricity (µm)	≤ 3.0	≤ 2.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 7.0	≤ 10.0	≤ 10.0
Cladding Non-circularity (%)	≤ 2.0	≤ 0.5	≤ 0.5	≤ 2.0	≤ 0.5	≤ 2.0	≤ 0.5	≤ 0.5	≤ 0.5	≤ 1.0
Proof Test (kpsi)	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 70
Inner Coating Material	Acrylate	-	Low Refractive Index Coating	Acrylate	Low Refractive Index Coating	Acrylate	Low Refractive Index Coating	Acrylate	Acrylate	Acrylate
Outer Coating Material	Acrylate	-	Acrylate	Acrylate	Acrylate	Acrylate	Acrylate	Acrylate	Acrylate	Acrylate

Specifications-4

Fiber Type	SI 50/70/360-22/540 (DC)	SI 70/90/360-22/540 (DC)	SI 100/120/360-15/540(DC)	SI 100/120/360-22/540 (DC)	SI 150/170/360-15/540(DC)	SI 150/170/360-22/540 (DC)	SI 200/220/360-22/540 (DC)
Part No.	SI2113-A	SI2113-B	SI2113-F	SI2113-C	SI2113-G	SI2113-D	SI2113-E
Optical Properties							
Core NA	0.22 ± 0.01	0.22 ± 0.01	0.15 ± 0.01	0.22 ± 0.01	0.15 ± 0.01	0.22 ± 0.01	0.22 ± 0.01
Inner Cladding NA	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46
Geometrical Properties							
Core Diameter (µm)	52.0 ± 2.0	72.0 ± 2.0	102.0 ± 2.0	102.0 ± 2.0	152.0 ± 2.0	152.0 ± 2.0	204.0 ± 4.0
Core/Cladding Concentricity (µm)	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
Core Non-circularity (%)	2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2
Proof Test (kpsi)	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
Inner Cladding Diameter (µm)	73.0 ± 3.0	93.0 ± 3.0	123.0 ± 3.0	123.5 ± 3.5	173.0 ± 3.0	173.0 ± 3.0	226.0 ± 6.0
Outer Cladding Diameter (µm)	367.5 ± 7.5	367.5 ± 7.5	365.5 ± 5.0	367.5 ± 7.5	367.5 ± 7.5	367.5 ± 7.5	367.5 ± 7.5
Coating Diameter (µm)	540.0 ± 15.0	540.0 ± 15.0	540.0 ± 15.0	540.0 ± 15.0	540.0 ± 15.0	540.0 ± 15.0	540.0 ± 15.0
Inner Coating Material	Low Refractive Index Coating						
Outer Coating Material	ETFE						