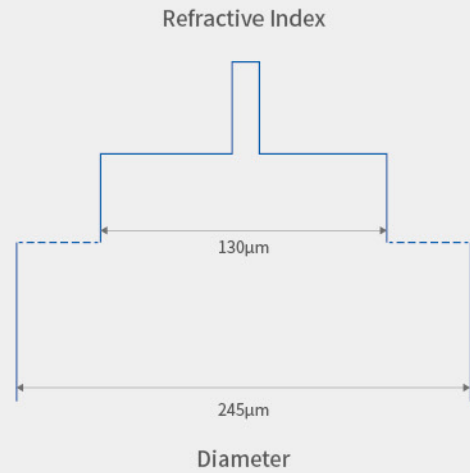


# Passive Fibre

## Double or Single-cladding Passive Fibre (GDF)

YOFc double/single-cladding passive fibre is optimized precisely to match the DC-YDF series, with low splice performance. The fibre is widely used in industrial, medical and other fields. Large core and high NA multi-mode fibre 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 fibre laser / amplifier
- Pigtail
- Fibre combiner
- FBG

### Specifications-1

Fibre Type	GDF_DC 10/130-0.08	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_DC 30/250-0.065	GDF_DC 30/250-0.075	GDF_DC 34/250-0.11
Part No.	DG1110-A	DG1111-A	DG1110-C	DG1112-A	DG1112-D	DG1113-A	DG1113-E	DG1113-C
<b>Optical Properties</b>								
Core NA	0.08 ± 0.01	0.08 ± 0.01	0.070 ± 0.005	0.085 ± 0.005	0.11 ± 0.01	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	≤45.0	≤45.0	≤45.0	≤45.0	≤45.0	≤45.0
Core Attenuation@1200nm (dB/km)	≤20.0	≤20.0	≤20.0	≤45.0	≤30.0	≤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
<b>Geometrical Properties</b>								
Core Diameter (µm)	11.0 ± 1.0	20.0 ± 1.5	14.0 ± 1.5	25.0 ± 1.5	25.0 ± 1.5	30.0 ± 2.0	30.0 ± 2.0	35.0 ± 1.0
Cladding Diameter (µm)	130.0 ± 1.0	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
Coating Diameter (µm)	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
Core/Cladding Concentricity (µm)	≤0.7	≤0.7	≤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
Proof Test (kpsi)	≥100	≥100	≥100	≥100	≥100	≥100	≥100	≥100

\*Single cladding fibre can be offered

## Specifications-2

Fibre Type	GDF_DC 20/400-0.065	GDF_DC 20/400-0.13	GDF_DC 25/400-0.065	GDF_DC 25/400-0.11	GDF_DC 35/400-0.11	GDF_DC 50/400-0.11
Part No.	DG1111-C	DG1111-D	DG1112-B	DG1112-C	DG1112-D	DG1115-B
<b>Optical Properties</b>						
Core NA	0.065±0.005	0.13±0.01	0.065±0.005	0.110±0.005	0.11±0.005	0.11±0.01
Inner Cladding NA	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
Core Attenuation@1300nm (dB/km)	≤20.0	≤20.0	≤20.0	≤12.0	≤12.0	≤20.0
Core Attenuation@1200nm (dB/km)	≤15.0	≤15.0	≤15.0	≤8.0	≤8.0	≤15.0
Cladding Attenuation@1095nm (dB/km)	≤15.0	≤15.0	≤15.0	≤15.0	≤15.0	≤15.0
<b>Geometrical Properties</b>						
Core Diameter (µm)	20.0±1.5	20.0±1.5	25.0±1.5	25.0±1.5	35.0±1.5	50.0±1.5
Cladding Diameter (µm)	395.0±5.0	395.0±5.0	395.0±5.0	395.0±5.0	395.0±5.0	395.0±5.0
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
Core/Cladding Concentricity (µm)	≤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
Proof Test (kpsi)	≥100	≥100	≥100	≥100	≥100	≥100

\*Single cladding fibre can be offered

## Specifications-3

Fibre Type	SI 105/125- 22/250 (PSC)	SI 135/155- 22/320 (DC)	SI 200/220- 22/320(PSC)	SI 200/220- 22/350(DC)	SI 220/242- 22/330(DC)
Part No.	SI2014-N	SI2110-C	SI2014-A	SI2110-D	SI2111-A
<b>Optical Properties</b>					
Core NA	0.22 ± 0.02	0.22 ± 0.01	0.22 ± 0.01	0.22 ± 0.01	0.22 ± 0.01
Inner Cladding NA	-	≥ 0.46	-	≥ 0.46	≥ 0.46
Core Attenuation@1300nm (dB/km)	≤ 8.0	≤ 20.0	-	≤ 20.0	-
Core Attenuation@1200nm (dB/km)	-	≤ 15.0	-	≤ 15.0	-
Cladding Attenuation@1095nm (dB/km)	-	≤ 15.0	-	≤ 15.0	-
<b>Geometrical Properties</b>					
Core Diameter (µm)	105.0 ± 3.0	135.0 ± 1.5	200.0 ± 4.0	200.0 ± 4.0	220.0 ± 4.0
Cladding Diameter (µm)	125.0 ± 2.0	155.0 ± 1.0	220.0 ± 3.0	220.0 ± 3.0	242.0 ± 3.0
Coating Diameter (µm)	250.0 ± 10.0	320.0 ± 20.0	320.0 ± 15.0	350.0 ± 20.0	330.0 ± 25.0
Core/Cladding Concentricity (µm)	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
Cladding Non-circularity (%)	≤ 2.0	≤ 0.5	≤ 2.0	≤ 0.5	≤ 0.5
Proof Test (kpsi)	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
Inner Coating Material	Acrylate	Low Refractive Index Coating	Acrylate	Low Refractive Index Coating	Low Refractive Index Coating
Outer Coating Material	Acrylate	Acrylate	Acrylate	Acrylate	Acrylate

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This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information.

## Specifications-4

Fibre Type	SI 50/70/360-22/650E (DC)	SI 100/120/360-22/650E (DC)	SI 150/170/360-22/650E (DC)	SI 200/220/360-22/650E (DC)
Part No.	SI2110-J	SI2110-F	SI2110-H	SI2110-G
<b>Optical Properties</b>				
Core NA	0.22 ± 0.01	0.22±0.01	0.22±0.01	0.22±0.01
Inner Cladding NA	≥ 0.46	≥0.46	≥ 0.46	≥0.46
<b>Geometrical Properties</b>				
Core Diameter (µm)	52.0 ± 2.0	102.0 ± 2.0	152.0 ± 2.0	204.0 ± 4.0
Core/Cladding Concentricity (µm)	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
Core Non-circularity (%)	≤ 2	≤ 2	≤ 2	≤ 2
Proof Test (kpsi)	≥ 100	≥ 100	≥ 100	≥ 100
Inner Cladding Diameter (µm)	73.0 ± 3.0	123.5 ± 3.5	174.0 ± 4.0	225.0 ± 5.0
Outer Cladding Diameter (µm)	367.5 ± 7.5			
Inner Coating Diameter (µm)	460.0 ± 14.0			
Outer Coating Diameter (µm)	650.0 ± 33.0			
Inner Coating Material	Low Refractive Index Coating			
Outer Coating Material	ETFE			

## Specifications-5

Fibre Type	SI 50/70/360-22/540 (DC)	SI 70/90/360-22/540 (DC)	SI 100/120/360-22/540 (DC)	SI 150/170/360-22/540 (DC)	SI 200/220/360-22/540 (DC)
Part No.	SI2113-A	SI2113-B	SI2113-C	SI2113-D	SI2113-E
<b>Optical Properties</b>					
Core NA	0.22 ± 0.01	0.22±0.01	0.22±0.01	0.22±0.01	0.22±0.01
Inner Cladding NA	≥ 0.46	≥0.46	≥ 0.46	≥ 0.46	≥ 0.46
<b>Geometrical Properties</b>					
Core Diameter (µm)	52.0 ± 2.0	72.0 ± 2.0	102.0 ± 2.0	152.0 ± 2.0	204.0 ± 4.0
Core/Cladding Concentricity (µm)	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
Core Non-circularity (%)	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2
Proof Test (kpsi)	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
Inner Cladding Diameter (µm)	73.0 ± 3.0	93.0 ± 3.0	123.5 ± 3.5	173.0 ± 3.0	225.0 ± 5.0
Outer Cladding Diameter (µm)	367.5 ± 7.5	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
Inner Coating Material	Low Refractive Index Coating				
Outer Coating Material	Acrylate				