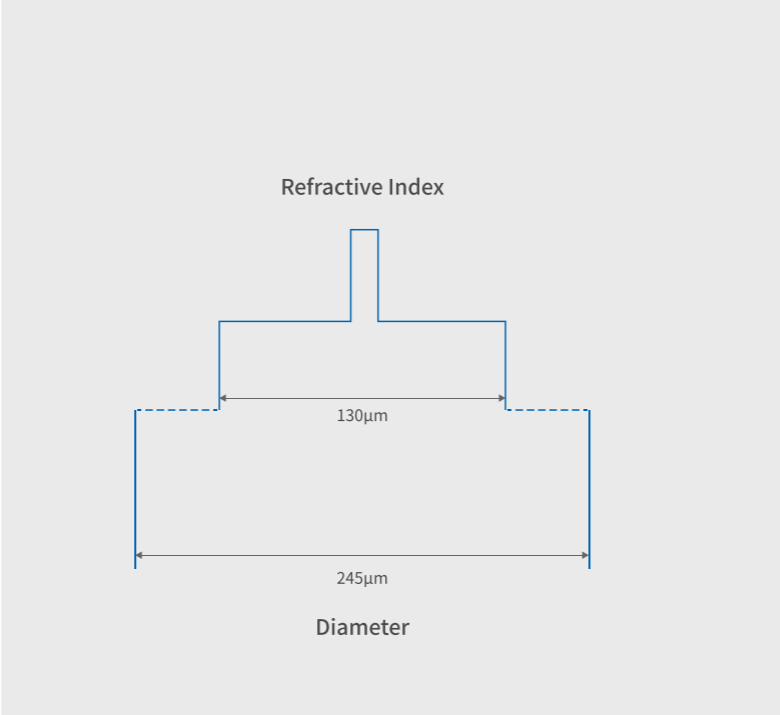


# Double/Single-clad Passive Fibre(GDF)

YOFC double/single-clad passive fibre is optimized precisely to match the DC-YDF series, with low splice performance. The fibre is widely used in industrial, medical, military and other fields.



## Application

- Pulse / CW fibre laser / amplifier
- Materials processing
- Pigtail
- Fibre combiner
- FBG

## Characteristics

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

### Double/Single-clad Passive Fibre

Fibre Type	GDF_SC 10/130	GDF_DC 10/130	GDF_DC 20/130	GDF_DC 25/250	GDF_DC 30/250	GDF_DC 20/400	GDF_DC 20/400(L)
Part No.	SG1010-A	DG1110-A	DG1110-B	DG1110-D	DG1110-E	DG1110-C	DG1110-M
<b>Optical Properties</b>							
Operating Wavelength(nm)	1060~1600	1060~1600	1060~1600	1060~1600	1060~1600	1060~1600	1060~1600
Core NA	0.08±0.01	0.08±0.01	0.08±0.01	0.065±0.005	0.065±0.005	0.065±0.005	0.12±0.01
Inner Cladding NA		≥0.46	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
Core Attenuation@1300 nm (dB/km)	≤40.0	≤40.0	≤40.0	≤45.0	≤45.0	≤12.0	≤20.0
Core Attenuation@1200 nm(dB/km)	≤20.0	≤20.0	≤20.0	≤30.0	≤30.0	≤8.0	≤15.0
Clad Attenuation@1095nm(dB/km)		≤15.0	≤15.0	≤15.0	≤15.0	≤15.0	≤20.0
<b>Geometrical Properties</b>							
Cladding Diameter (µm)	130.0±2.0	130.0±2.0	130.0±2.0	247.0±3.0	247.0±3.0	395.0±5.0	400.0±5.0
Core Diameter (µm)	10.0±1.0	11.0±1.0	20.0±1.0	25.0±1.5	30.0±2.0	20.0±1.5	20.0±1.5
Coating Diameter (µm)	245.0±10.0	245.0±10.0	245.0±10.0	395.0±15.0	395.0±15.0	550.0±15.0	550.0±15.0
Core/Clad Concentricity Error (µm)	≤0.7	≤0.7	≤0.7	≤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
Proof Test (kpsi)	≥100	≥100	≥100	≥100	≥100	≥100	≥100

