

Triple-cladding Passive Fiber

Everfoton Triple-Cladding passive Fiber is designed for the processing, assembly, and splicing of optical components in fiber laser systems. This series of fibers precisely matches triple-cladding fibers, significantly improving splicing efficiency with triple-cladding active fibers.

Characteristics

- Precise geometrical control
- Ultra-low transmission loss
- Stable beam mode
- Excellent consistency

Applications

- Continuous-wave fiber laser
- FBG
- Combiner
- Cladding power stripper

Specifications

Fiber Type	GDF_TC 14/465/ 530-0.065	GDF_TC 20/365/ 400-0.065	GDF_TC 34/465/ 530-0.095	GDF_TC 34/465/ 535-0.095	GDF_TC 50/465/ 530-0.11
Part No.	DG1118-E	DG1118-U	DG1118-A	DG1118-P	DG1118-C
Optical Properties					
Operating Wavelength (nm)	800 ~ 1600				
Core NA	0.065±0.005	0.065 ± 0.005	0.095±0.005	0.095±0.005	0.11±0.005
Inner Cladding NA	0.22±0.02	0.22±0.02	0.22±0.02	0.22±0.02	0.22±0.02
Cladding NA	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
Core Background Loss(1200nm) (dB/km)	≤8.0	≤10.0	≤8.0	≤8.0	≤8.0
Cladding Background Loss(1095nm) (dB/km)	≤8.0	≤10.0	≤8.0	≤8.0	≤8.0
Physical/Material Parameters					
Core Diameter (μm)	14.0±1.0	20.0 ± 1.5	34.0±2.0	33.0±1.0	50.0±2.0
Inner Cladding Diameter (μm)	465.0±8.0	365.0 ± 4.0	465.0±8.0	465.0±8.0	465.0±8.0
Cladding Diameter (μm)	530±5.0	395.0±5.0	530.0±5.0	538.0±5.0	530.0±5.0
Inner Coating Diameter (μm)	590.5±10.5	460.0±20.0	590.5±10.5	595.5±10.5	590.5±10.5
Coating Diameter (μm)	640.0±20.0	540.0±20.0	640.0±20.0	640.0±20.0	640.0±20.0
Core/Cladding Offset (μm)	≤2.5	≤2.0	≤2.0	≤2.0	≤2.0
Cladding non-Circularity (%)	≤0.5	≤1.0	≤0.5	≤0.5	≤0.5
Proof Test Level (kpsi)	≥100	≥100	≥100	≥100	≥100
Inner Coating	Low Refractive Index Coating				
Outer Coating	Acrylate				