



Nufern's passive series of Large Mode Area (LMA) double clad fibers are ideal for high power monolithic fiber lasers and amplifiers. These passive fibers are based on a 30 µm diameter core and 250 µm diameter clad size with a low NA (0.06) core and are designed to work well with the active Yb-doped 30/250 LMA fibers. These fibers utilize the latest fiber design and NuCOAT™ coating technology to ensure excellent preservation of beam quality and extended operating life at the high power levels demanded by today's industrial fiber laser applications. These fibers are available in both non-PM and PANDA-style PM fibers.

Typical Applications

- Monolithic high power fiber lasers and amplifiers
- LMA fiber couplers, and pump combiners
- · High power pump and signal pigtails
- · Military, industrial and medical

Features & Benefits

- NuMATCH™ Optimized compatibility with 30/250 active fibers
- NuCOAT™ fluoroacrylate coating Greater fiber durability in extreme environmental operating & storage conditions
- Optimized LMA core design Easy to maintain single mode LP01 beam through fiber & components at high power
- All fiber proof tested to > 100 kpsi Critical for ensuring long term reliability when coiling"

Optical Specifications

Operating Wavelength
Core NA
First Cladding NA (5%)
Core Attenuation

Cladding Attenuation Birefringence

Geometrical & Mechanical Specifications

Cladding Diameter Core Diameter Coating Diameter Core/Clad Offset Clad Non-Circularity Prooftest Level

PLMA-GDF-30/250

1060 - 1600 nm 0.060 ± 0.010 ≥ 0.46N/A

≤ 15.0 dB/km @ 1095 nm nominal 2 × 10-4

250.0 ± 10.0 μm 30.0 ± 2.5 μm 400.0 ± 20.0 μm N/A N/A

M05-A-030-A

≥ 100 kpsi (0.7 GN/m²)

LMA-GDF-30/250-M

1060 - 1600 nm 0.062 ± 0.005 ≥ 0.46 ≤ 45.0 dB/km @ 1300 nm

≤ 30.0 dB/km @ 1200 nm ≤ 15.0 dB/km @ 1095 nm

N/A

深圳市瑞門通信科技有限公司 247.0±3.0 μm 2018 ,01.10 复月

 $30.0 \pm 2.0 \,\mu\text{m}$ $395.0 \pm 15.0 \,\mu\text{m}$ $\leq 2.00 \,\mu\text{m}$

≤ 0.5 %

≥ 100 kpsi (0.7 GN/m²)



Coating Requirements: Low Index Polymer Coating.
Designed to work with 30/250 LMA Yb-doped active fibers.

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