**Typical Applications** 

amplifiers

amplifiers

## 25/300 Passive LMA **Double Clad Fibers**

**Features & Benefits** 

both non-PM and PANDA-style PM fibers

- Eye safe (1.5 µm) lasers and • Designed for compatibility with 25/300 Er/Yb co-doped active fibers
  - NuCOAT™ fluoroacrylate coating Greater fiber durability in extreme environmental operating & storage conditions •

Coherent'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 25 micron diameter core and 300 micron diameter clad size with a low NA (0.09) core and are designed to work well with the active Er/Yb co-doped 25/300 LMA and PLMA 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

- 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
- · Ultra-short pulse fiber amplifiers

Military and commercial lidar

· High peak power, pulsed fiber

<b>Optical Specifications</b>	PLMA-GDF-25/300	LMA-GDF-25/300
Operating Wavelength Core NA First Cladding NA (5%) Cladding Attenuation Birefringence	1530 – 1800 nm 0.090 ≥ 0.46 ≤ 15.0 dB/km @ 1095 nm nominal 1.5 × 10 <sup>-4</sup>	1530 – 1800 nm 0.090 ≥ 0.46 ≤ 15.0 dB/km @ 1095 nm N/A
Geometrical & Mechanical Specifications		
Cladding Diameter Core Diameter Coating Diameter Core/Clad Offset Clad Non-Circularity Coating Material Prooftest Level	300.0 ± 8.0 µm 25.0 ± 2.0 µm 450.0 ± 15.0 µm ≤ 2.00 µm N/A Low Index Acrylate ≥ 100 kpsi (0.7 GN/m²)	300.0 ± 4.0 µm 25.0 ± 2.0 µm ≤ 2.00 µm ≤ 0.5 % Low Index Acrylate ≥ 100 kpsi (0.7 GN/m²)



Designed to work with 25/300 LMA and PLMA Er/Yb co-doped active fibers

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Custom developed fiber (FUD) specifications are subject to change without notice. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Coherent can assist with your requirements.