

## **30/250 with 0.09 NA Matched Passive LMA Double Clad Fiber**

NuCOAT<sub>FA</sub>™ fluoroacrylate coating — Greater fiber durability in extreme operating & storage

"Few" moded core design — Easy to maintain single mode LP01 beam through fiber & components

• All fiber proof tested to > 100 kpsi — Critical for ensuring long term reliability when coiling

Unique LMA core design — Useful for transmitting high peak powers

Tight geometric tolerances — Superior optical performance and uniformity

Coherent's passive series of Large Mode Area (LMA) double clad fibers are ideal for high power monolithic fiber lasers and amplifiers. This passive fiber is based on a 30 µm diameter core and 250 µm diameter clad size with a low NA (0.09) core. It is precision matched to its active Er/Yb co-doped 30P/250 LMA matched counterpart to ensure excellent splice compatibility and low loss. As with all Coherent standard LMA fibers, this fiber is proof-tested to 100 kpsi, an industry requirement for long term reliability. They utilize the latest fiber design and NuCOAT-FA<sup>TM</sup> 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.

## **Typical Applications**

## Features & Benefits

conditions

- Eye safe (1.5 μm) lasers and amplifiers
- High peak power, pulsed fiber amplifiers
- Ultra-short pulse fiber amplifiers
- Military and commercial lidar
- LMA-GDF-30/250-09M

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

**Optical Specifications** 

## Geometrical & Mechanical Specifications

Cladding Diameter Core Diameter Coating Diameter Core/Clad Offset Clad Non-Circularity Coating Material Prooftest Level 800 - 2100 nm 0.0900 ± 0.0100 ≥ 0.46 ≤ 15.0 dB/km @ 1095 nm

 $\begin{array}{l} 247.0 \pm 3.0 \ \mu\text{m} \\ 30.0 \pm 2.0 \ \mu\text{m} \\ 350.0 \pm 10.0 \ \mu\text{m} \\ \leq \ 2.00 \ \mu\text{m} \\ \leq \ 0.5 \ \% \\ \text{Low Index Acrylate} \\ \geq \ 100 \ \text{kpsi} \ (0.7 \ \text{GN/m^2}) \end{array}$ 



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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.