

10/200 Precision Matched Passive LMA Double Clad Fiber



Coherent's large mode area (LMA) passive double clad fiber is ideally suited for applications spanning military, industrial and medical including linearly polarized fiber lasers and amplifiers. This fiber features a 10 micron diameter core and 200 micron diameter clad size with a low NA (0.08) core. This fiber is precision matched to its active Yb-doped 10/200 LMA matched counterparts 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. It utilizes the latest fiber design and features NuCOAT-FA coating technology to ensure excellent preservation of beam quality and extended operating life demanded by today's industrial fiber laser applications.

Typical Applications

- Pulsed fiber lasers and amplifiers
- Material processing
- LIDAR
- Non-linear optics/frequency doubling

Features & Benefits

- NuCOAT-FA fluoroacrylate coating — Greater fiber durability in extreme environmental operating & storage conditions
- Bend insensitive — Survives application in tight confines
- Optimized LMA core design — Easy to maintain single mode LP01 beam through fiber & components at high power
- Precision Matched (M) — Providing low splice loss
- All fiber proof tested to > 100 kpsi — Critical for ensuring long term reliability

Optical Specifications

Operating Wavelength	1015 – 1115 nm
Core NA	0.080 ± 0.005
First Cladding NA (5%)	≥ 0.46
Core Attenuation	≤ 40.0 dB/km @ 1300 nm ≤ 20.0 dB/km @ 1200 nm

LMA-GDF-10/200-M

Geometrical & Mechanical Specifications

Cladding Diameter	200.0 ± 3.0 μm
Core Diameter	10.0 ± 1.0 μm
Coating Diameter	350.0 ± 10.0 μm
Core/Clad Offset	≤ 1.20 μm
Clad Non-Circularity	≤ 0.5 %
Coating Material	Low Index Polymer NuCOAT-FA
Proof-test Level	≥ 100 kpsi (0.7 GN/m ²)



Designed to work with 10/200 LMA Yb-doped active fibers, especially LMA-YDF-10/200-9M

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www.coherent.com ; www.shop.coherent.com • Coherent products are manufactured under an ISO 9001:2008 certified quality management system.



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.

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