

12/130 Precision Matched Passive 1550 nm Double Clad Fibers

Nufern's precision matched passive double-clad fibers are available in two-versions — multimoded and PANDA-style, polarization-maintaining (PM). These fibers feature a 12 µm core diameter and a 130 µm clad diameter optimized to match Nufern's active Er/Yb 12/130 µm fibers. This precise matching allows for the lowest splice loss improving performance for all applications including high power pulsed fiber lasers and amplifiers. They utilize the latest fiber design and NuCOATIM coating technology to ensure excellent preservation of beam quality and extended operating life demanded by today's industrial fiber laser applications.

Typical Applications

- LIDAR
- Eye-safe lasers and amplifiers
- High power pulsed fiber lasers and amplifiers

Features & Benefits

- NuCOAT[™] fluoroacrylate coating Greater fiber durability in extreme environmental operating & storage conditions
- · Exceptional uniformity and core/clad concentricity Low connectorization losses
- · Bend insensitive Survives application in tight confines
- All fiber proof tested to > 100 kpsi Critical for ensuring long term reliability

Optical Specifications

Operating Wavelength Core NA First Cladding NA (5%) Normalized Cross Talk

Geometrical & Mechanical Specifications

Cladding Diameter
Core Diameter
Coating Diameter
Coating Concentricity
Core/Clad Offset
Prooftest Level

PM-GDF-12/130-M

1530 − 1800 nm 0.200≥ 0.460≤ - 25.0 dB at 10 m @ 1300 nm

130.0 ± 1.0 μm 12.0 ± 1.5 μm 245.0 ± 10.0 μm < 5.0 μm

≤ 1.00 µm

≥ 100 kpsi (0.7 GN/m²)

M05-A-028-A

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Coating Requirements: Low Index Polymer Coating.

Other Requirements: Round fiber, Polarization-maintaining fiber with dual circular stress elements

7 Airport Park Road, East Granby, CT 06026 • 860.408.5000 • Toll-free 866.466.0214 • Fax 860.844.0210 E-mail info @ nufern.com • www.nufern.com • Nufern products are manufactured under an ISO 9001:2008 certified quality management system.

