

## 12/130 Precision Matched Passive 1550 nm Double Clad Fibers

Coherent's precision matched passive double-clad fibers are available in two-versions — multimoded and PANDA-style, polarization-maintaining (PM). These fibers feature a 12  $\mu$ m core diameter and a 130  $\mu$ m clad diameter optimized to match Coherent's active Er/Yb 12/130  $\mu$ m 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 NuCOAT<sup>TM</sup> coating technology to ensure excellent preservation of beam quality and extended operating life demanded by today's industrial fiber laser applications.

ypical Applications LIDAR Eye-safe lasers and amplifiers High power pulsed fiber lasers and amplifiers	<ul> <li>Features &amp; Benefits</li> <li>NuCOAT™ fluoroacrylate coating — Greater fiber durability in extreme environmental operating &amp; storage conditions</li> <li>Exceptional uniformity and core/clad concentricity — Low connectorization losses</li> <li>Bend insensitive — Survives application in tight confines</li> <li>All fiber proof tested to &gt; 100 kpsi — Critical for ensuring long term reliability</li> </ul>	
<b>Optical Specifications</b>	PM-GDF-12/130-M	MM-GDF-12/130-M
Operating Wavelength Core NA First Cladding NA (5%) Normalized Cross Talk	1530 – 1800 nm 0.200 ≥ 0.460 ≤ - 25.0 dB at 10 m @ 1300 nm	1530 – 1800 nm 0.200 ≥ 0.460 N/A
Geometrical & Mechanical Specifications		
Cladding Diameter Core Diameter Coating Diameter Coating Concentricity Core/Clad Offset Prooftest Level	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)	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)



Coating Requirements: Low Index Polymer Coating. Other Requirements: Round fiber. Polarization-maintaining fiber with dual circular stress elements

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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.