

# 105 Micron Core Power Delivery Fibers

Nufern's specialty multimode step-index fibers are designed for compatibility with the majority of fiber-coupled, single-emitter, diode-laser packages and support the diode laser power delivery market. These power delivery fibers are available in 105/125 core/clad ratio in low and high NA versions. Other fiber diameters are available upon request.

## Typical Applications

- Fiber coupled diode lasers
- Couplers and pump combiners

## Features & Benefits

- 0.12, 0.15 and 0.22 NA — Compatible with majority of fiber-coupled, diode-laser packages
- Exceptional geometric uniformity and core/clad concentricity — Ease of coupling to pump diodes

### Optical Specifications

Operating Wavelength  
Numerical Aperture  
OH Level

### Geometrical & Mechanical Specifications

Core Diameter  
Clad Diameter  
Coating Diameter  
Core-Clad Concentricity  
Coating Material  
Short-Term Bend Radius  
Long-Term Bend Radius  
Proof Test Level

### MM-S105/125-12A

800 – 1600 nm  
0.12 ± 0.02  
Low

105 ± 3 μm  
125 ± 2 μm  
245 ± 15 μm  
≤ 3 μm  
UV Cured, Dual Acrylate  
≥ 12 mm  
≥ 25 mm  
≥ 100 kpsi (0.7 GN/m<sup>2</sup>)

### MM-S105/125-15A

800 – 1600 nm  
0.15 ± 0.02  
Low

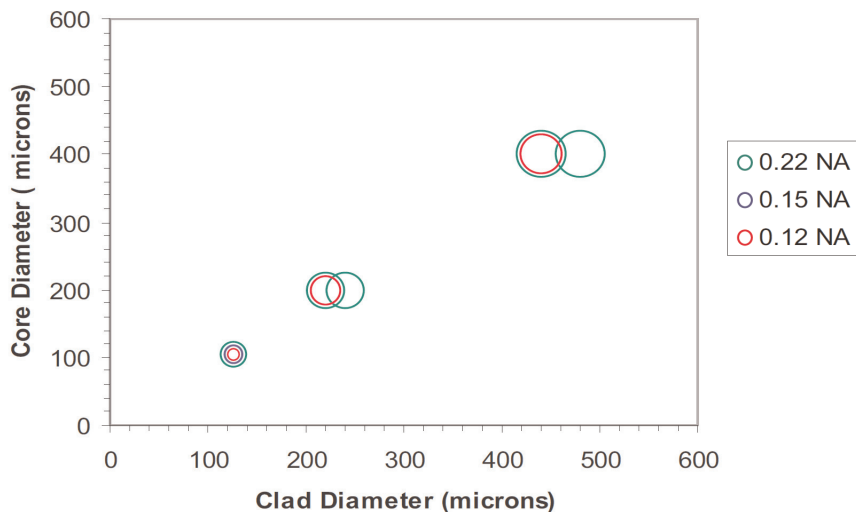
105 ± 3 μm  
125 ± 2 μm  
245 ± 15 μm  
≤ 3 μm  
UV Cured, Dual Acrylate  
≥ 12 mm  
≥ 25 mm  
≥ 100 kpsi (0.7 GN/m<sup>2</sup>)

### MM-S105/125-22A

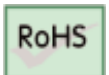
800 – 1600 nm  
0.22 ± 0.02  
Low

105 ± 3 μm  
125 ± 2 μm  
245 ± 15 μm  
≤ 3 μm  
UV Cured, Dual Acrylate  
≥ 12 mm  
≥ 25 mm  
≥ 100 kpsi (0.7 GN/m<sup>2</sup>)

## Nufern Standard Power Delivery Fibers



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Nufern products are manufactured under an ISO 9001:2000 certified quality management system.



Standard specifications and design parameters are listed above. 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 Nufern can assist with your requirements.