

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

- 0.15 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 (nominal)
Numerical Aperture (nominal)
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-S105/125-15A

800–1600 nm
0.15 ± 0.02
Low

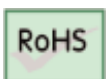
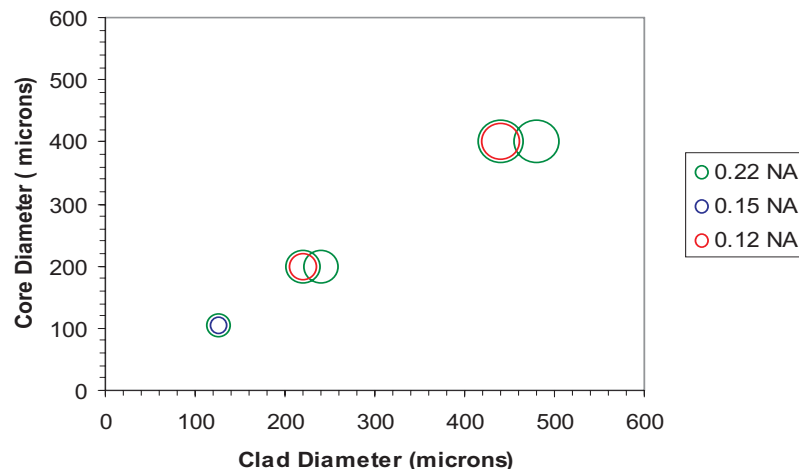
105 ± 3 μm
125 ± 2 μm
245 ± 15 μm
< 3 μm
UV Cured, Dual Acrylate
≥ 12 mm
≥ 25 mm
≥ 100 kpsi (0.7 GN/m²)

MM-S105/125-22A

800–1600 nm
0.22 ± 0.02
Low

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UV Cured, Dual Acrylate
≥ 12 mm
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Nufern Standard Power Delivery Fibers



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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.