



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
Core NA
OH Level

MM-S105/125-12A

800 – 1600 nm
0.120 ± 0.020
Low

MM-S105/125-15A

800 – 1600 nm
0.150 ± 0.020
Low

MM-S105/125-22A

800 – 1600 nm
0.220 ± 0.020
Low

Geometrical & Mechanical Specifications

Cladding Diameter
Core Diameter
Coating Diameter
Core/Clad Offset
Coating Material
Short Term Bend Radius
Long Term Bend Radius
Proof test Level

125.0 ± 2.0 µm
105.0 ± 3.0 µm
245.0 ± 15.0 µm
≤ 3.00 µm
UV Cured, Dual Acrylate
≥ 12 mm
≥ 25 mm
≥ 100 kpsi (0.7 GN/m²)

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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.



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.

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