

400 Micron Core Power Delivery Fibers

Nufern's specialty multimode step-index fibers are designed for compatibility with the majority of fiber-coupled, bar and stack diode-laser packages and support the diode laser power delivery market. These power delivery fibers are available in 400/440 and 400/480 core/clad ratios in low and high NA versions. The 400/480 has a low refractive index fluoroacrylate coating for added power confinement. Other fiber diameters are available upon request.

Typical Applications

- Fiber coupled diode lasers
- Couplers and pump combiners

Features & Benefits

- 0.12 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)
Cladding Numerical Aperture
OH Level

MM-S400/440-12A

800 – 1600 nm
0.12 ± 0.02
NA
Low

MM-S400/440-22A

800 – 1600 nm
0.22 ± 0.02
NA
Low

MM-S400/480-22FA

800 – 1600 nm
0.22 ± 0.02
0.46 (nominal)
Low

Geometrical & Mechanical Specifications

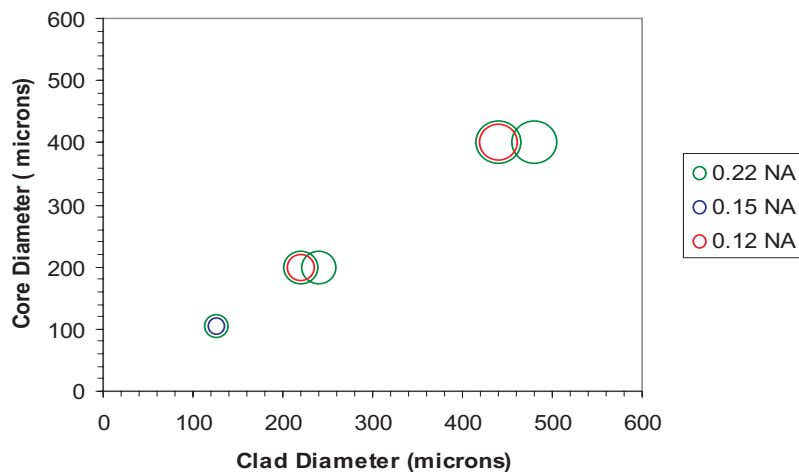
Core Diameter
Clad Diameter
Coating Diameter
Core-Clad Concentricity
Coating Material
Proof Test Level

400 ± 9 μm
440 ± 8 μm
625 ± 25 μm
< 5 μm
UV Cured, Dual Acrylate
≥ 100 kpsi (0.7 GN/m²)

400 ± 9 μm
440 ± 8 μm
625 ± 25 μm
< 5 μm
UV Cured, Dual Acrylate
≥ 100 kpsi (0.7 GN/m²)

400 ± 9 μm
480 ± 8 μm
640 ± 25 μm
< 5 μm
Low Index Polymer
≥ 100 kpsi (0.7 GN/m²)

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.

