

# 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  
Core NA  
First Cladding NA (5%)  
OH Level

### MM-S400/440-12A

800 – 1600 nm  
0.120 ± 0.020  
N/A  
Low

### MM-S400/440-22A

800 – 1600 nm  
0.220 ± 0.020  
N/A  
Low

### MM-S400/480-22FA

800 – 1600 nm  
0.220 ± 0.020  
≥ 0.46  
Low

## Geometrical & Mechanical Specifications

Cladding Diameter  
Core Diameter  
Coating Diameter  
Core/Clad Offset  
Coating Material  
Proof-test Level

440.0 ± 8.0 μm  
400.0 ± 9.0 μm  
625.0 ± 25.0 μm  
≤ 5.00 μm  
UV Cured, Dual Acrylate  
≥ 100 kpsi (0.7 GN/m<sup>2</sup>)

440.0 ± 8.0 μm  
400.0 ± 9.0 μm  
625.0 ± 25.0 μm  
≤ 5.00 μm  
UV Cured, Dual Acrylate  
≥ 100 kpsi (0.7 GN/m<sup>2</sup>)

480.0 ± 8.0 μm  
400.0 ± 9.0 μm  
640.0 ± 25.0 μm  
≤ 5.00 μm  
Low Index Polymer  
≥ 100 kpsi (0.7 GN/m<sup>2</sup>)



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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.