

600 Micron Core Power Delivery Fiber



Coherent | 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. This fiber features a 600 micron core diameter with a 0.22 NA and a 660 micron clad diameter with Coherent | Nufern's proprietary NuCoat-FA, 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

- 0.22 NA — Compatible with the majority of fiber-coupled, diode-laser packages
- Exceptional geometric uniformity and core/clad concentricity — Ease of coupling to pump diodes
- Pure silica core — High resistance to optical damage
- Clean room fiber draw — Eliminates coating "hot spots"
- All fiber proof tested to > 100 kpsi — Critical for ensuring long term reliability when coiling

Optical Specifications

Operating Wavelength
Core NA
First Cladding NA (5%)
OH Level

MM-S600/660-22FA 1362303

700 – 2200 nm
0.220 ± 0.020
≥ 0.46
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

660.0 ± 12.0 µm
600.0 ± 12.0 µm
875.0 ± 30.0 µm
≤ 7.00 µm
Low Index Acrylate
≥ 34 mm
≥ 100 mm
≥ 100 kpsi (0.7 GN/m²)



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Custom developed fiber (FUD) 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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