

# 135 Micron Core Power Delivery Fibers



Coherent'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. This power delivery fiber is available in a 135/155 core/clad ratio with a high NA and has a low refractive index fluoroacrylate coating for added power confinement at the high power levels demanded by today's need for robust applications. Other fiber diameters and coatings are available upon request.

## Typical Applications

- Fiber coupled diode lasers
- Couplers and pump combiners

## Features & Benefits

- 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
- NuCOAT fluoroacrylate coating — Greater fiber durability in extreme environmental operating & storage conditions
- Pure Silica Core — High resistance to optical damage

## Optical Specifications

Operating Wavelength	800 – 1600 nm
Core NA	0.220 ± 0.005
First Cladding NA (5%)	≥ 0.46
OH Level	Low

## Geometrical & Mechanical Specifications

Cladding Diameter	155.0 ± 1.0 μm
Core Diameter	135.0 ± 1.5 μm
Coating Diameter	320.0 ± 20.0 μm
Core/Clad Offset	≤ 3.00 μm
Coating Material	Low Index Acrylate
Short Term Bend Radius	≥ 15 mm
Long Term Bend Radius	≥ 31 mm
Proof Test Level	≥ 100 kpsi (0.7 GN/m <sup>2</sup> )

## MM-S135/155-22FA



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[www.coherent.com](http://www.coherent.com) ; [www.shop.coherent.com](http://www.shop.coherent.com) • Coherent products are manufactured under an ISO 9001:2008 certified quality management system.



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 Coherent can assist with your requirements.