

Flat-Top Fiber 105 Micron Core 0.22 NA Power Delivery



Coherent | Coherent's PRISM Award winning specialty flat-top fiber technology is designed in multimode step-index fibers to ensure high compatibility with conventional fibers from the power delivery family. These proprietary fibers are specially designed to tailor the mode content propagating in its core in order to transform input beams into a homogeneous top-hat beam profile while maintaining highly efficient light propagation and ensuring ultra-low insertion loss. This fiber features a 100 μm core and a 125 μm clad with a 0.22 NA.

Typical Applications

- Power Delivery
- Uniform Illumination
- Spectroscopy
- Medical

Features & Benefits

- Beam Homogeneity — Generates top-hat homogeneous beams
- Multimode beam uniformity — Reduction of hot spots
- Efficient brightness conservation of multimode beams
- Robust design — Compatible with majority of fiber interconnect systems
- All fiber proof tested to > 100 kpsi - Critical for ensuring long term reliability.

Optical Specifications

Operating Wavelength
Core NA

MMF-S105/125-22A 1335821

700 – 2200 nm
0.220 \pm 0.020

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 \pm 2.0 μm
105.0 \pm 3.0 μm
245.0 \pm 15.0 μm
 \leq 3.00 μm
Acrylate
 \geq 12 mm
 \geq 25 mm
 \geq 100 kpsi (0.7 GN/m²)



Flat-Top Technology

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www.coherent.com ; 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.

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