Flat-Top Fiber 105 Micron Core 0.22 NA Power Delivery

Coherent | Nufern's PRISM Award winning specialty flat-top fiber technology is designed in mulitimode 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	**MMF-S105/125-22A** **1335821**
Operating Wavelength	700 – 2200 nm
Core NA	0.220 ± 0.020
Geometrical & Mechanical Specifications	
Cladding Diameter	125.0 ± 2.0 µm
Core Diameter	105.0 ± 3.0 µm
Coating Diameter	245.0 ± 15.0 µm
Core/Clad Offset	≤ 3.00 µm
Coating Material	Acrylate
Short Term Bend Radius	≥ 12 mm
Long Term Bend Radius	≥ 25 mm
Prooftest Level	≥ 100 kpsi (0.7 GN/m²)

NUFERN Flat-Top Technology

RoHS

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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光技術をサポートする
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