



105/125 Low NA Launch Optical Fiber

P/N: F10017

Product Overview

These multimode step-index launch optical fibers are designed with low 0.22 numerical aperture — an extra low 0.15 NA is also available. These configurations can handle peak power delivery approaching 1GW/cm². The coating offers easy mechanical stripping and is compatible with either carbon or PYROCOAT® polyimide coatings, or both, when various combinations of hermeticity and/or high temperature resistance are needed. Launch fibers can also be metalized for hermetic sealing into opto-electronic devices. Most of the attenuation is induced by the spooling of this Low NA product. Observed loss in application will be less.

Typical Applications

- Diode Pumping Systems
- Free Space Optics
- Medical Sensing and Imaging
- Other Industrial Applications
- Power Transmission from Visible through Near-IR
- Printing
- Raman Pumping
- SM and MM Communications
- Use as Input Fiber in a Power Combiner

Product Specifications	
Product Description	105/125 Low NA Launch Optical Fiber
Physical Characteristics	
Core Diameter	105 ± 3.0 µm
Cladding Diameter	125 ± 2.0 µm
Coating Diameter	250 ± 15 µm
Core/Clad Offset	≤ 3 µm
Coating Concentricity	≥ 80%
Clad Non-Circularity	≤ 2.0%
Crimp & Cleave Compatible	No
Coating Material	Dual UV Acrylate
Optical Characteristics	
Type	Multimode Step-Index
Numerical Aperture	0.15
Numerical Aperture Tolerance	± 0.015
Attenuation @ 850 nm	≤ 20 dB/km
Water Content	Low OH
Mechanical and Environmental	
Operating Temperature	-40 to +85 °C
Short-Term Bend Radius	≥ 5 mm
Long-Term Bend Radius	≥ 9 mm
Proof Test Level	≥ 200 kpsi (1.38 GPa)
Order by Part Number	F10017
OPTIONS	Buffering, Cabling, Coating Color, Connectorization, Core Diameter, Metalization
Contact Information	For additional information please contact your sales representative. You can also visit our website at www.lightera.com or call 1-888-FIBERHELP (1-888-342-3743) USA or 1-770-798-5555 outside the USA. For a full list of our certifications, visit our website.
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