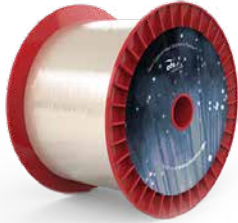




DirectLase™ Premium 22/400 Yb-doped Optical Fiber

P/N: 8000139 - For Directed Energy Fiber-laser Systems



Product Description

- Designed for multi-kilowatt, narrow-linewidth, directed energy fiber-laser systems
- Ytterbium-doped optical fiber with 19 μm mode-field diameter and 400 μm cladding diameter
- High absorption for short fiber lengths
- Increased Higher-Order Mode loss for high transverse-mode instability thresholds
- High stimulated Brillouin scattering threshold

Product Specifications			
Product Description	22/400 Yb-doped Optical Fiber		
Feature	Min	Typical	Max
Optical Performance			
Mode Field Diameter @ 1070 nm calculated from A_{eff}	18.5 μm	19.5 μm	20 μm
Cladding NA		0.46	
Cladding Absorption @ 915 nm	0.50 dB/m	0.55 dB/m	0.60 dB/m
Core Concentricity			1 μm
Optical-Optical Efficiency @ 1070 nm	80%		
TMI Threshold @ 1070 nm	3.0 kW		
Optimal Starting Bend Diameter	10 cm	11 cm	13 cm
Mechanical Performance			
Equivalent Cladding Diameter	385 μm	400 μm	415 μm
Cladding Shape		Star	
Cladding Diameter	535 μm	550 μm	565 μm
Coating Material		Low Index Polymer	
Proof Test Level		100 kpsi	
Order by Part Number		8000139	

Specifications outlined above are for prototypes under development. Product specification is subject to change.



For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



Copyright © 2023 OFS Fitel, LLC.
All rights reserved, printed in USA.

OFS Marketing Communications
Date: 03/23

For a full list of our certifications, visit our website.



DirectLase is a trademark of OFS Fitel, LLC. OFS reserves the right to make changes to the prices and product(s) described in this document at any time without notice. This document is for informational purposes only and is not intended to modify or supplement any OFS warranties or specifications relating to any of its products or services.