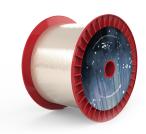


19/400 Yb-doped Optical Fiber



Product Description

- Ytterbium-doped optical fiber with 19 μm mode-field diameter and 400 μm cladding diameter
- · Designed for multi-killowatt, narrow-linewidth, fiber-laser systems
- High stimulated Brillouin scattering and transverse-mode instability thresholds.

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

Product Specifications				
Product Description	19/400 Yb-doped Optical Fiber			
Feature	Min	Typical	Max	Notes
Optical Performance				
Mode Field Diameter	19 µm	19.5 µm	21 µm	@ 1070 nm calculated from $A_{\rm eff}$
Cladding NA		0.46		
Cladding Absorption	0.4 dBm	0.45 dBm	0.5 dBm	@ 915 nm
Core Concentricity			±1 μm	
13 dB Cladding Absorption Length			10 m	@ 976 nm
Optical-Optical Efficiency	80%			13 dB of 976 nm pump absorption, 1070 nm
TMI Threshold	2.5 kW			broadband signal, minimum bend diameter of 10 cm
Optimal Starting End Diameter	10 cm			
Mechanical Performance				
Equivalent Cladding Diameter	385 µm	400 µm	415 µm	Averaged over the shaped cladding
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		8000105		

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.





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