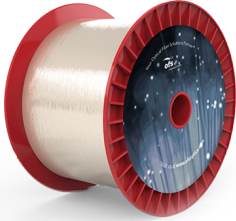


## 19/400 Yb-doped Optical Fiber



### Product Description

- Ytterbium-doped optical fiber with 19  $\mu\text{m}$  mode-field diameter and 400  $\mu\text{m}$  cladding diameter
- Designed for multi-kilowatt, 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
<b>Optical Performance</b>				
Mode Field Diameter	19 $\mu\text{m}$	19.5 $\mu\text{m}$	21 $\mu\text{m}$	@ 1070 nm calculated from $A_{\text{eff}}$
Cladding NA	0.46			
Cladding Absorption	0.4 dBm	0.45 dBm	0.5 dBm	@ 915 nm
Core Concentricity	$\pm 1 \mu\text{m}$			
13 dB Cladding Absorption Length	10 m			@ 976 nm
Optical-Optical Efficiency	80%			13 dB of 976 nm pump absorption, 1070 nm broadband signal, minimum bend diameter of 10 cm
TMI Threshold	2.5 kW			
Optimal Starting End Diameter	10 cm			
<b>Mechanical Performance</b>				
Equivalent Cladding Diameter	385 $\mu\text{m}$	400 $\mu\text{m}$	415 $\mu\text{m}$	Averaged over the shaped cladding
Cladding Shape	Star			
Cladding Diameter	535 $\mu\text{m}$	550 $\mu\text{m}$	565 $\mu\text{m}$	
Coating Material	Low Index Polymer			
Proof Test Level	100 kpsi			
Order by Part Number	<b>8000105</b>			

For additional information please contact your sales representative.

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