

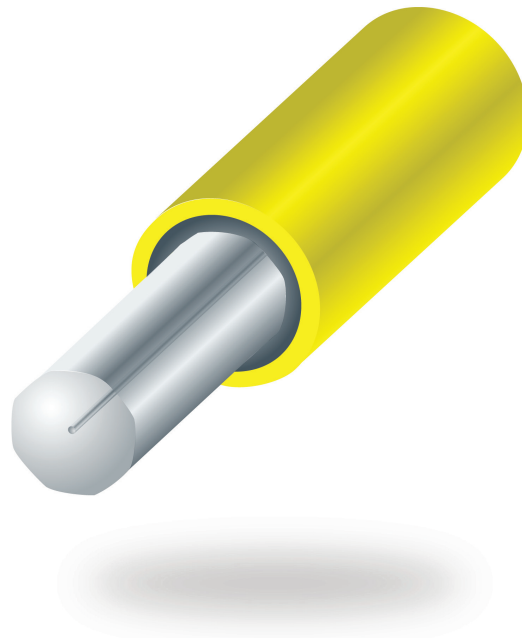


A Furukawa Company

Your Optical Fiber Solutions Partner™

# TrueLase™ Optical Fiber

## for Fiber Laser Applications



Development of the new OFS TrueLase™ Optical Fiber family was driven by an increasing demand for a reliable fiber supply in the rapidly growing fiber laser market space. Fiber lasers had their start in the erbium doped amplification work done in the early 1990's. OFS, a global market leader in the design and manufacture of erbium doped fibers, possesses the expertise and experience in fiber fabrication technology necessary to meet that demand. OFS has been developing and manufacturing high power components and modules for many years and understands the reliability standards expected in the diverse material processing applications.

The OFS family of TrueLase 20-400 LMA Double Clad fibers is an ideal tool for integrated high power fiber lasers and amplifiers. Our fibers combine high clad absorption, precision matched fiber waveguide designs and unprecedented manufacturing control ensuring easy integration across the entire laser architecture. All TrueLase optical fibers utilize the latest TrueClad™ low index polymer coating specially engineered to ensure superior reliability & performance in the most demanding of environments.

	TrueLase™ Yb20-400 LMA DCF	TrueLase™ Passive 20-400 LMA DCF
<b>Optical Specifications</b>		
Output wavelength	1030 – 1115 nm	
Core NA	0.065 ± 0.005	
First cladding numerical aperture	≥0.46	
Core background loss	≤10 dB/km @ 1200 nm	
Cladding background loss	≤10 dB/km @ 1095 nm	
Cladding absorption	0.55 dB/m @ 915 m	Not applicable
Slope efficiency	>70% @ 915 nm	Not applicable
<b>Geometrical &amp; Mechanical Specifications</b>		
Core diameter	20 ±1 μm	
Cladding diameter	400 ± 10 μm	395 ± 5 μm
Core eccentricity	<1 μm	<0.5 μm
Coating diameter	550 ± 15 μm	
Coating material	TrueClad™ low index coating	
Proof test level	100 kpsi	
Item #	7000189	7000266
<b>Key Features &amp; Benefits</b>		
<p>TrueMatch fiber series – Enables easy &amp; efficient integration for monolithic fiber lasers and amplifiers.            Excellent fiber consistency and uniformity using OFS proprietary RE vapor phase delivery process.            TrueClad low index coating for extensive durability in sensitive environment and operating conditions.</p>		
<b>Typical Applications</b>		
<ul style="list-style-type: none"> <li>• High power fiber lasers and amplifiers</li> <li>• Lasers for material processing</li> <li>• Industrial, medical and military</li> </ul>		