For current pricing, please see our website.

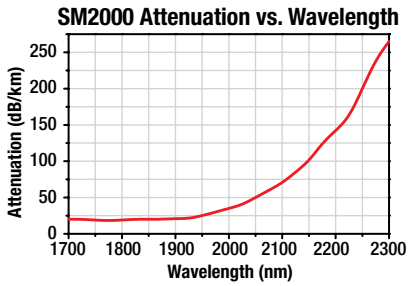
# Single Mode Fiber: 1.7 to 2.1 µm

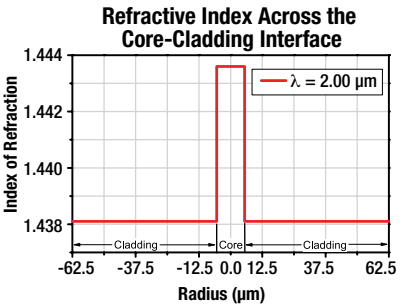
NEW product

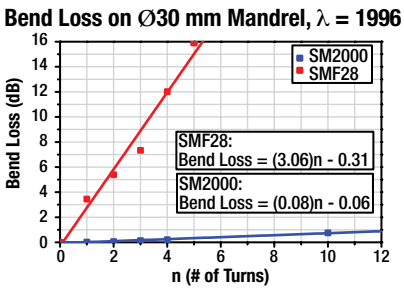
SM2000

## Features

- Shipped from Stock, No Minimums
- Ge-Doped Silica Core
- Large Core for Coupling 2 µm Light
- NA Compatible with SMF-28e+ Fiber
- Exceptional Core/Clad Concentricity Specifications
- Low Bend Loss
- Recommended Stripping Tool: T06S13 (See Page XXX)



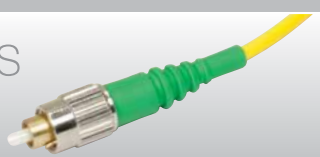




The SM2000 was developed by Thorlabs for the growing market of 2 µm components. This fiber offers significantly lower bend loss than the SMF-28e+ fiber, as shown in the plot below, which makes it suitable for many demanding applications in the IR. While all silica-based fibers will suffer absorption in the IR, caused by vibration of the Si-O bonds, our SM2000 fiber features a Ge-doped core to increase the usable range further into the IR. Doping the silica with Ge lowers the resonant frequency of the vibrations, and therefore the wavelength where absorption becomes an issue is increased. The SM2000 has an NA compatible with SMF-28e+ for excellent compatibility.

## Would you prefer...

SM2000 Patch Cables

See pages XXX - XXX



| ITEM # | OPERATING WAVELENGTH | MODE FIELD DIAMETER | CORE DIAMETER | CLADDING DIAMETER | BU FFER DIAMETER | CLADDING NONCIRCULARITY | CORE/CLADDING CONCENTRICITY | INSERTION LOSS[a] | NA |
|---|---|---|---|---|---|---|---|---|---|
| SM2000 | 1700 – 2100 nm | 13 µm @ 1996 nm | 11 ± 1 µm | 125 ± 1.0 µm | 245 ± 10 µm | ≤2% | ≤0.8 µm | 0.1 dB | 0.11 |

[a]When mating with SMF-28e+

### Popular Compatible Connectors (See Page XXX)

| CLADDING DIAMETER | FC/PC CONNECTOR | FC/APC CONNECTOR* |
|---|---|---|
| 80 µm | 30080D1 | N/A |
| 125 µm | 30126D1 | 30126K1 (Ø900 µm)<br>30126F1 (Ø3 mm) |

*Furcation Tubing Diameter is given in Parentheses

| ITEM # | PRICE/m* | $ | £ | € | RMB |
|---|---|---|---|---|---|
| SM2000 | 1 to 9 m | $ 14.73 | £ 10.61 | € 12,82 | ¥ 117.40 |
| | 10 to 49 m | $ 12.52 | £ 9.02 | € 10,90 | ¥ 99.79 |
| | 50 to 249 m | $ 10.31 | £ 7.43 | € 8,98 | ¥ 82.18 |

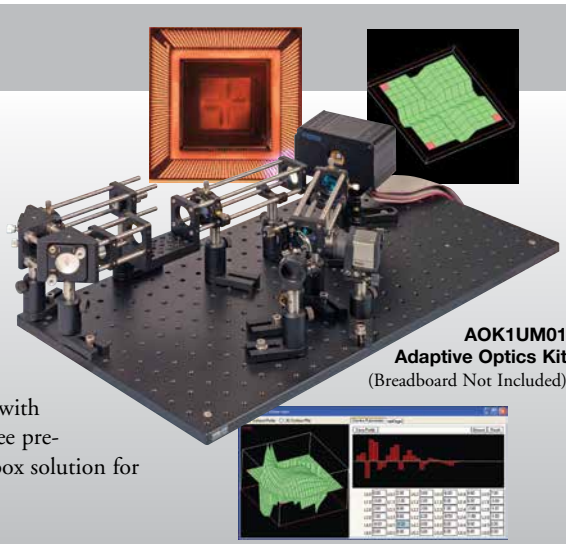
*Call for Quantities Over 250 m

## Have you seen our...

# Adaptive Optics Kits

- MEMS-Based Deformable Mirror Achieves High Spatial Resolution Due to High Actuator Count and Low Inter-Actuator Coupling
- Shack-Hartmann Wavefront Sensor
- Includes Light Source, Imaging Optics, and Associated Mounting Hardware

Thorlabs offers Adaptive Optics Kits that incorporate a MEMS-based deformable mirror (either gold or aluminum coated), a Shack-Hartmann wavefront sensor, all necessary imaging optics and mounting hardware, fully functional stand-alone control software for immediate control of the system, and a support library to assist with tailored applications authored by the end user. In addition, since the kit ships as three pre-aligned optomechanical sections, our adaptive optics kits provide a near out-of-the-box solution for real-time wavefront compensation.



**AOK1UM01**
**Adaptive Optics Kit**
(Breadboard Not Included)

*For more details, see pages XXX - XXX*