

# Standard singlemode fibers

## SM Series



**OXFORD** ELECTRONICS

Manufacture and supply of specialised optical fibers

Single mode fibers are readily available for telecom wavelengths (1300 nm and 1550 nm) with acrylate coating. Oxford Electronics fibers are available in additional wavelengths, a choice of cladding diameters and are also available with higher temperature polyimide coatings.

These fibers can be supplied as cables or patchcords with Kevlar reinforced jackets and fitted with a variety of connectors.

Acrylate coated fibers are suitable for temperatures from -40°C to +85°C. Polyimide coated fibers are suitable for temperatures from -190° to +350°C.

	<b>SM400</b>	<b>SM600</b>	<b>SM800</b>	<b>SM1000</b>	<b>SM1300</b>
Operating wavelength (µm)	<b>400-450</b>	<b>600-700</b>	<b>800-900</b>	<b>950-1100</b>	<b>1250-1600</b>
Mode field diameter (µm)	<b>4</b>	<b>5</b>	<b>7</b>	<b>8</b>	<b>9</b>
Attenuation dB/km	<b>&lt;60</b>	<b>&lt;20</b>	<b>&lt;5</b>	<b>&lt;3</b>	<b>&lt;2</b>
Cut-off wavelength nm	<b>380</b>	<b>585</b>	<b>770</b>	<b>900</b>	<b>1170</b>

### Acrylate

Coating diameter (125 µm fibers) = 280 µm  
Coating diameter (80 µm fibers) = 190 µm

### Polyimide

Coating diameter (125 µm fibers) = 140 µm

Other wavelengths can be supplied to order.

Singlemode fibers are also available with CuBALL high temperature metal coatings.

### Ordering information

**SM 800-125 P**

↑ Coating type  
(P = Acrylate, I = Polyimide)  
↑ Cladding diameter µm  
↑ Operating wavelength nm