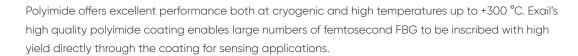
IXF-SM-1550-80-024-PI

Single Mode Fiber

The IXF-SM family regroups singlemode fibers designed for operation from UV to NIR wavelengths. Available with different cladding diameter, numerical aperture, and coating material, a wide range of singlemode fibers are available.

The IXF-SM-1550-80-024-PI fiber is designed for singlemode operation at 1550 nm. With a 80 μ m cladding diameter and high numerical aperture, it offers low bending loss and high mechanical reliability when coiled to tight diameters.





Benefits & Features

- 1550 nm singlemode operation
- Ø80 µm cladding diameter
- Operation from cryogenic temperatures to +300 °C
- · High numerical aperture
- · Low macrobending loss
- · High mechanical reliability under tight bending
- · High-quality polyimide coating
- · Other diameters and coatings available upon request

Applications

- Sensing
- · FBG inscription

Related Products

•	IXF-SM-1550-80-016	Øclad 80 μm, NA 0.16
•	IXF-SM-1550-80-019	Øclad 80 μm, NA 0.19
•	IXF-SM-1550-80-022	Øclad 80 μm, NA 0.22
•	IXF-SM-1550-80-019-PI	Øclad 80 µm, Polyimid

IXF-SM-1550-80-024-PI 1.75 1.50 1.50 0.25 0.00 1.500

Typical attenuation spectrum of the IXF-SM-1550-80-024-PI fiber.

Parameters

Cutoff wavelength (nm)	< 1450
Attenuation @1550 nm (dB/km)	< 1.75
Mode field diameter @1550 nm (µm)	5.3 ± 1
Numerical aperture	0.24 ± 0.01
Core/Clad concentricity (µm)	< 0.75
Cladding diameter (µm)	80 ± 1
Coating diameter (µm)	110 ± 5
Proof test level (kpsi)	100

Design parameters

Coating material	Polyimide
Operating temperature range (°C)	-60 to +300
Bending loss Ø15 mm @1550 nm (dB/turn)	< 0.1