

Endlessly Single Mode Fiber - Visible

IXF-ESM-10-125-VIS

This fiber displays an endlessly single mode behavior with lower photodarkening in the visible range due to the nature of its specific silica. The high OH content of the UV grade silica confers to this fibre excellent transmission resistance against radiation and high power visible light. This fibre is therefore ideally suited for excellent mode delivery in the visible.

Partnership with  **PHOTONICS**
BRETAGNE
Product line **PERFOS**

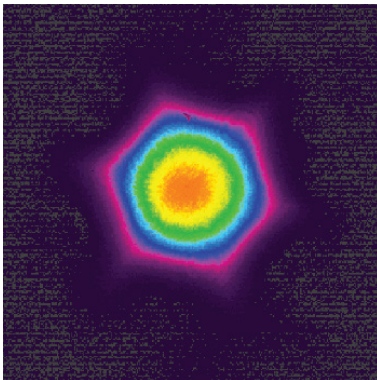


FEATURES & BENEFITS

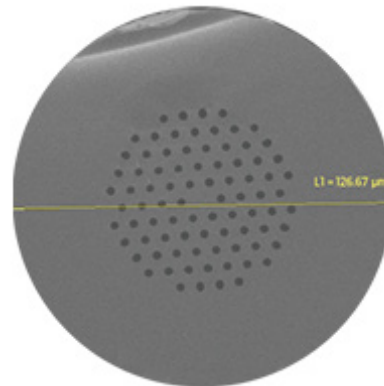
- Singlemode over the whole wavelength range
- Visible-Grade silica

APPLICATIONS

- Singlemode delivery in the visible spectral range



Measured fundamental mode shape @ 375 nm

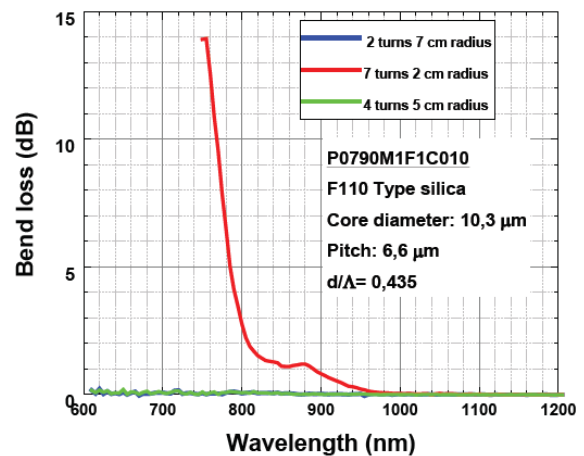
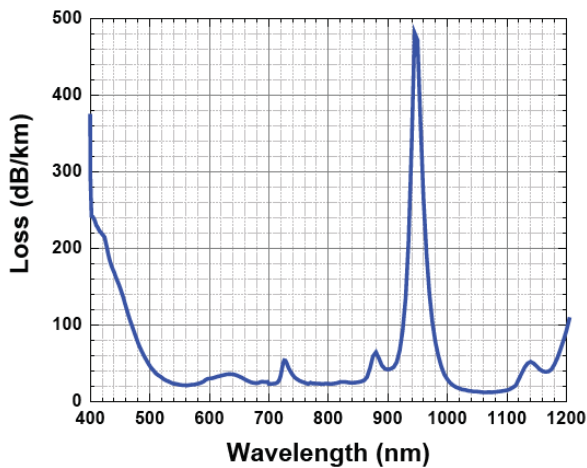


IXF-ESM-10-125-VIS TECHNICAL SPECIFICATIONS

Parameters

Material	UV grade silica
OH content (ppm)	400
Core diameter (μm)	10.5 ± 0.5
Cladding diameter (μm)	126 ± 3
Coating outside diameter (μm)	248 ± 5
Coating type	dual coat high index acrylate
Numerical aperture @ 780 nm	0.11 ± 0.01
LP_{11} cut-off wavelength (nm)	none
Background loss @ 400 nm (dB/km)	< 300
Background loss @ 532 nm (dB/km)	< 35
Background loss @ 780 nm (dB/km)	< 35
Background loss @ 1060 nm (dB/km)	< 20
Mode Field diameter @ 780 nm (μm)	7 ± 0.5
Effective area @ 780 nm (μm^2)	35 ± 10
Proof test (kpsi)	20

Specifications are subject to change without notice



Typical measured fibre attenuation and bend loss sensitivity