

Main characteristics

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

Applications

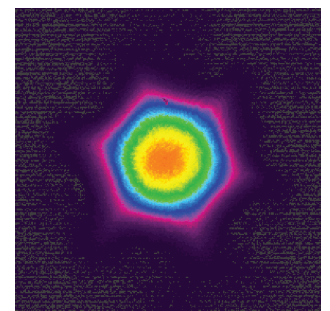
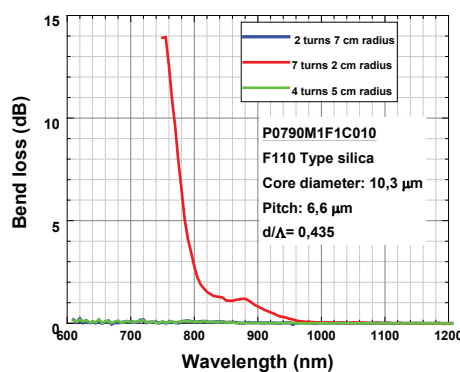
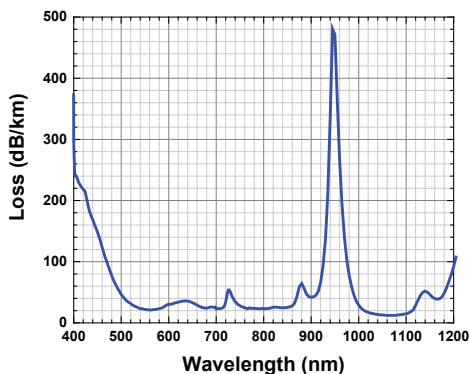
Singlemode delivery in the visible spectral range

This fibre 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 F110 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.

Fibre specifications

| Fibre type | ESM-10-125-VIS |
|--|-------------------------------|
| Optical parameters | |
| 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 |
| Physical/Material parameters | |
| Material | F110 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 |

Typical measured fibre attenuation and bend loss sensitivity



Measured fundamental mode shape @ 375 nm

