

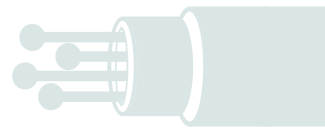
Main characteristics

- Singlemode over the whole wavelength range
- Standard and PM versions

Applications

Singlemode light delivery

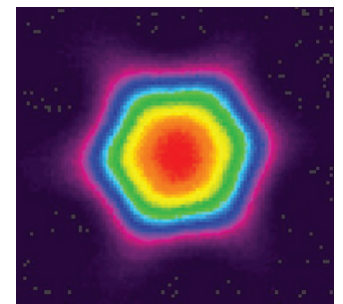
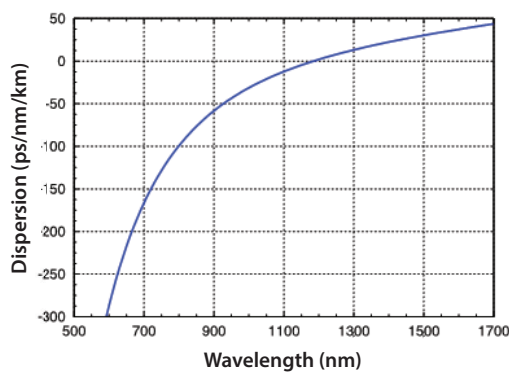
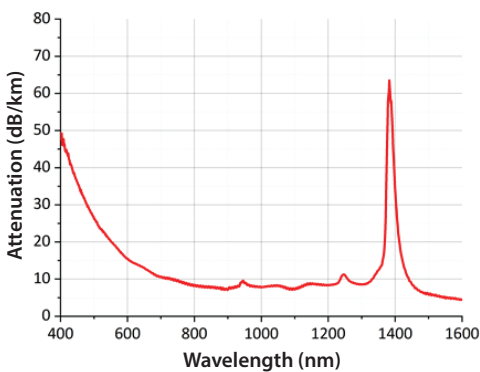
Those fibers display an endlessly single mode behavior and do not exhibit a high order mode cut off. They are therefore ideally suited for excellent mode delivery in the visible and above.



Fibre specifications

Fibre type	ESM-5-125	ESM-5-125-PM	ESM-10-125	ESM-10-225-PM
Optical parameters				
Numerical Aperture @ 1064 nm	0.20+/-0.01	0.20+/-0.01	0.1+/-0.02	0.1+/-0.02
LP ₁₁ cut-off wavelength (nm)	None			
Background loss @ 532 nm (dB/km)	< 50	< 38	<40	<38
Background loss @ 1060 nm (dB/km)	< 18	< 19	<12	<15
Background loss @ 1550 nm (dB/km)	< 15	< 29	<5	<10
Mode Field Diameter @ 1064 nm (µm)	4.3 +/- 0.2	4.5 +/- 0.2	8.8 +/-0.4	8.7 +/-0.4
Effective Area @ 1064 nm (µm ²)	12.6 +/- 0.1	15.1 +/- 0.1	56.5 +/-0.2	55.6 +/-0.2
Physical/Material parameters				
Material	F300 Silica			
Core Diameter (µm)	4.8 +/- 0.1	5.1 +/- 0.1	10 +/-0.1	9.1 +/-0.5
Cladding Diameter (µm)	125 +/- 2	124 +/- 2	125 +/- 5	225 +/- 5
Coating Outside Diameter (µm)	246 +/- 10	240 +/- 10	250 +/-10	355 +/- 10
Coating Type	Dual coat high index acrylate			

Typical measured attenuation and dispersion



Measured fundamental mode shape of the ESM-5-125-PM @ 532 nm

