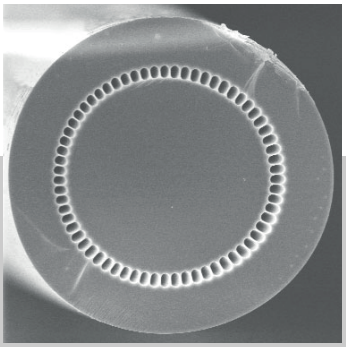
PHOTONICS BRETAGNE
Photonics Innovation Hub

SPECSHEET
10/2024

MICROSTRUCTURED FIBRES | SOLID-CORE

AIRCLAD FIBRES



These pure silica multimode fibres offer both a large core diameter and ultra high numerical aperture which make them particularly suited for power delivery and light collection for spectroscopy application from the visible range to the near-infrared.

Product line PERFOS

MAIN CHARACTERISTICS

- Pure silica core
- Multimode
- Ultra-high numerical aperture

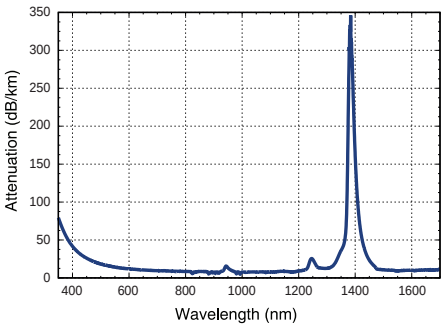
APPLICATIONS

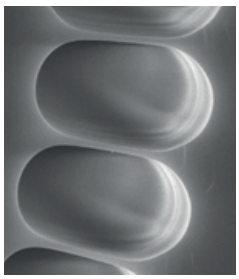
- Power delivery
- Spectroscopy

FIBRE SPECIFICATIONS	ACF-50-80	ACF-80-125	ACF-100-160	ACF-165-265	ACF-180-290	ACF-200-320
Optical parameters						
Background loss @ 850 nm (dB/km) (1)	< 25					
Background loss @ 1300 nm (dB/km) (1)	< 25					
Background loss @ 1550 nm (dB/km) (1)	< 25					
OH content (ppm)	< 4					
Numerical aperture @ 1060 nm	> 0.48					
Physical/Material parameters						
Material	F300 silica					
Core diameter (µm)	50 +/- 3	79 +/- 3	100 +/- 3	165 +/- 2	180 +/- 3	198 +/- 3
Web thickness (nm)	155 +/- 15	280 +/- 20	500 +/- 100	360 +/- 20	270 +/- 50	550 +/- 100
Cladding diameter (µm)	80 +/- 5	126 +/- 3	160 +/- 5	265 +/- 5	290 +/- 5	320 +/- 5
Coating outside diameter (µm)	240 +/- 10	255 +/- 10	260 +/- 10	460 +/- 5	465 +/- 5	475 +/- 5
Coating type	dual coat high index acrylate					

(1) Multimode OTDR measurement, launch from an OM3 50-125 .21 NA fibre

Typical measured attenuation





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All our optical fibres and components are manufactured according to our ISO certified quality management system, which places the needs and values of customers and partners at the heart of our organization. Throughout the manufacturing process, our components and systems are subjected to rigorous tests and inspections, which guarantees their robustness and reliability in the most demanding environments.