

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.

MAIN CHARACTERISTICS

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

APPLICATIONS

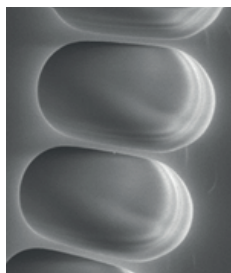
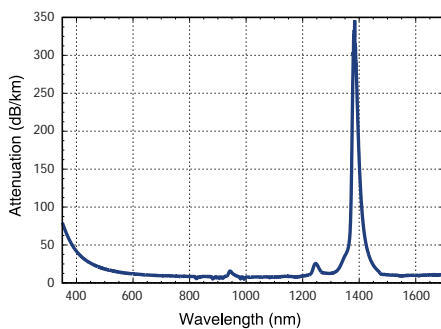
- Power delivery
- Spectroscopy

Product line **PERFAS**

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



Multiple options and configurations are available. Please contact Photonics Bretagne to find the best fit.

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