

Optran® MIR

Silver halide fiber

This unique fiber, which comprises a photosensitive compound (AgCl, AgBr), is ideal for the mid-infrared (MIR) range.

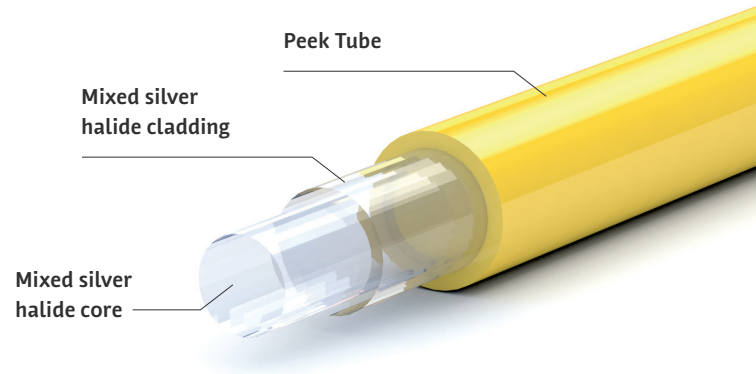
Middle infrared range

Wavelength

Optran® MIR	4–18 μm
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Numerical aperture (NA)

Low	0,13 \pm 0,02
Standard	0,25 \pm 0,02
High	0,35 \pm 0,02



Technical data

Wavelength / spectral range	Optran® MIR: 4–18 μm
Numerical aperture (NA)	0,13 \pm 0,02 0,25 \pm 0,02 0,35 \pm 0,02
Operating temperature	-60 to +110 °C
Standard diameter	Core / cladding (μm) 400 / 500 μm 600 / 700 μm 860 / 1000 μm
Calculation index (core)	2,1
Reflective losses @ 10.6 μm	25%
Minimum bending radius	100 \times cladding diameter
Highest power	30 Watt
Attenuation values	in relation to wavelength: see p. 19

Applications

First choice for applications including CO₂-laser guides, FTIR spectroscopy, laser surface treatments and many more.