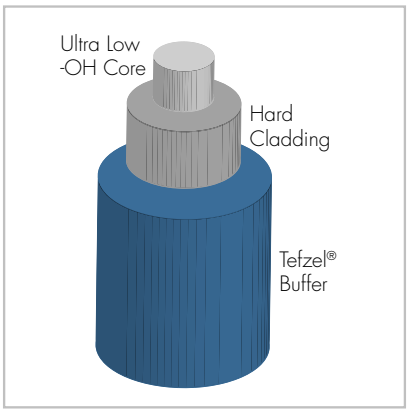
Fiber Optics

Silica/PolyClad Optical Fiber JTFLH-Low-OH

Low-OH/Hard-clad Fibers

Low-OH step-index fibers are particularly well suited for use with wavelengths in the Vis-NIR range. The cladding consists of PolyClad®, a hard polymer. Quartz is used for the fiber core. Tefzel® is used as a buffer material; optionally, acrylate, nylon, or Hytrel® can also be used.

The fibers are sold under the designation JTFLH. They feature a large numerical aperture.



Fiber Design

Characteristics

- Step index
- Numerical aperture: 0.37 ± 0.02
- Low-OH core, PolyClad® hard polymer clad
- Low-OH core for Vis-NIR transmission
- Sterilizable and bio-compatible – USP class VI*
- Standard buffer: Tefzel®
- Custom buffer: Actylate, Nylon, Hytrel
- Operating temperature: -65 °C to +140 °C
- 0.48 NA available with Tefzel®
- High-OH and custom sizes available

* The end manufacturer is responsible for bio-compatibility and sterilization testing and validation studies.

Tefzel® and Hytrel® are registered trademarks of DuPont Corporation.

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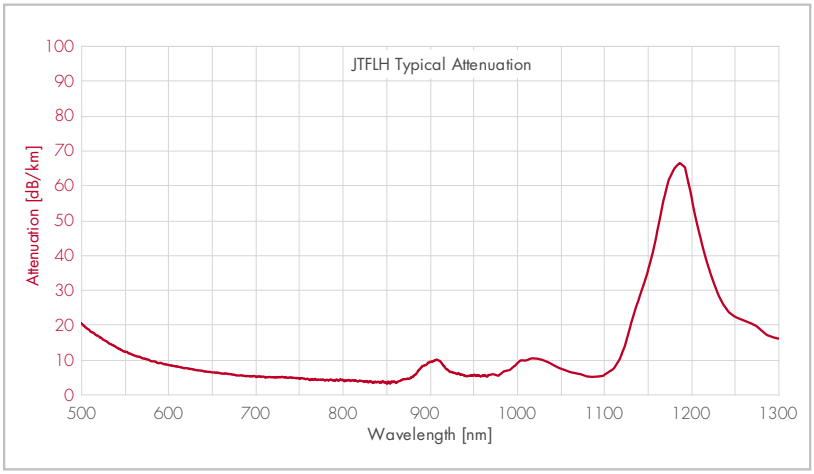

Typical Attenuation of the JTFLH Series

Specifications

Fiber Type	JTFLH200	JTFLH300	JTFLH400	JTFLH600	JTFLH800	JTFLH1000
Core diameter [µm]	200 ± 4	300 ± 6	400 ± 8	600 ± 10	800 ± 10	1000 ± 15
Cladding diameter [µm]	230 +0 / -10	330 +5/-10	430 +5/-10	630 +5/-10	830 ± 10	1035 ± 15
Buffer diameter [µm]	500 ± 30	650 ± 30	730 ± 30	1040 ± 30	1040 ± 30	1400 ± 50
Wavlength [nm]	650/850	650/850	650/850	650/850	650/850	650/850
Temperature area [nm]	-65 ... +125	-65 ... +125	-65 ... +125	-65 ... +125	-65 ... +125	-65 ... +125
Numerical aperture	0.37 ± 0.02	0.37 ± 0.02	0.37 ± 0.02	0.37 ± 0.02	0.37 ± 0.02	0.37 ± 0.02
Part number	3000628	3000629	3001231	3001232	3002100	3002101

Note:
The items listed in this table are standard configurations and sizes.
Other configurations may be available on request.

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