

Silica/PolyClad Optical Fiber JTFSH-High-OH

High-OH/Hard-clad Fibers

High-OH step-index fibers with the designation JTFSH are used for wavelengths from the UV to the Vis range.

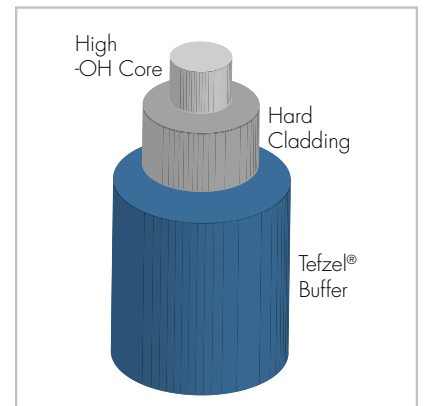
In these fibers as well, the fiber core consists of quartz and the fiber cladding consists of the hard polymer PolyClad[®]. Tefzel[®] is used as a buffer material. Optionally, acrylate, nylon, or Hytel[®] can also be used as a buffer.

Characteristics

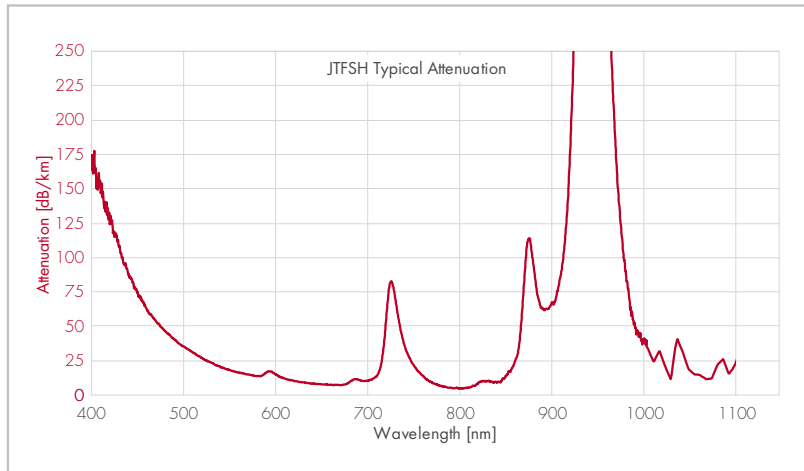
- Step index
- Numerical aperture: 0.37 ± 0.02
- Low-OH core, PolyClad[®] hard polymer clad
- Low-OH core for Vis-NIR transmission
- Sterilizable and bio-compatible – USP class VI*
- Standard buffer: Tefzel[®]
- Custom buffer: Acrylate, Nylon, Hytel[®]
- Operating temperature: -65 °C to +140 °C
- 0.48 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 Hytel[®] are registered trademarks of DuPont Corporation.



Fiber Design



Typical Attenuation of the JTFSH Series

Specifications

Fiber Type	JTFSH200	JTFSH300	JTFSH400	JTFSH600	JTFSH800	JTFSH1000
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
Wavelength [nm]	650/850	650/850	650/850	650/850	650/850	650/850
Temperature area [$^{\circ}\text{C}$]	-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	3002102	3002103	3002107	3002108	3002109	3002110

Note:

The items listed in this table are standard configurations and sizes.

Other configurations may be available on request.