

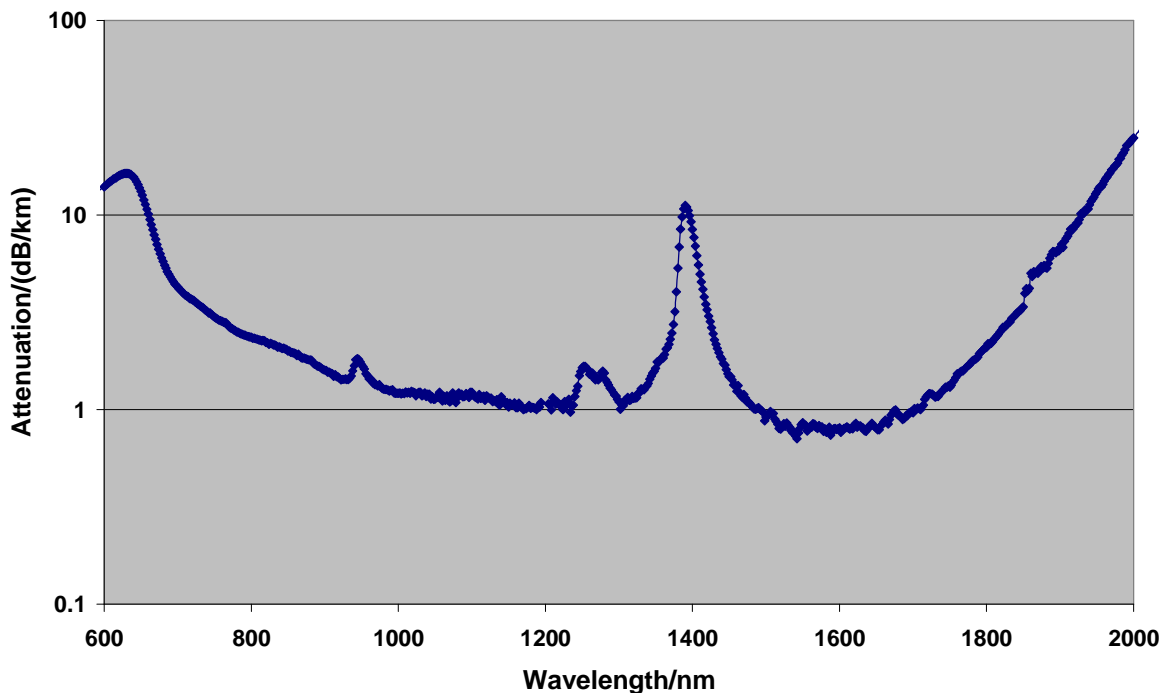
## Product Information

### Fibers / Light Guides for High Power Applications

#### Principles

If high intensities of light shall be transported by light guides it is important to make sure that no light “sees” the absorptive coating layer surrounding the core-cladding structure of an optical fiber. To achieve that fibers with a large cladding/core ratio are used; the thick cladding layer prevents the light from reaching the coating.

For very high irradiance, free standing fibers shall be used to overcome issues with cementing.



*Attenuation of LIR (SWU) fibers (source Heraeus)*

## Product Information

### Fibers / Material

Various qualities of quartz are used to provide a core / cladding structure with low absorption at the desired wavelength range. For NIR lasers, only material with low OH content is feasible.

Typical application wavelength: 809nm, 1064nm, 1600nm

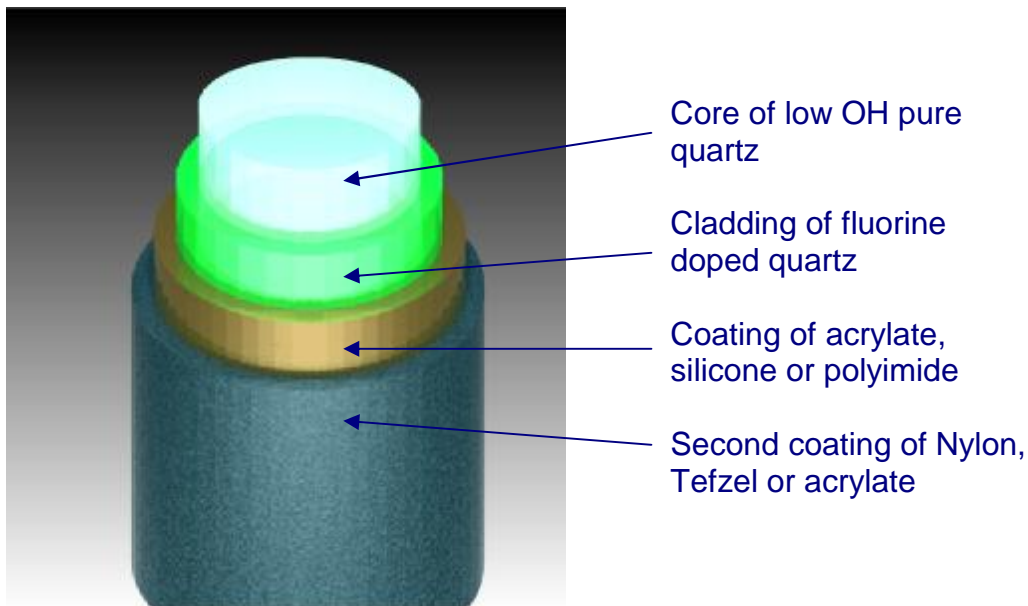
Quality: LIR (SWU)

Diameters:

Core: 200 $\mu$ m, 400 $\mu$ m, 600 $\mu$ m

Cladding: 720 $\mu$ m

Power transmission: up to 600W cw



### Termination & Jackets

All kinds of connectors possible: SMA, FC/PC, etc.

Free standing fibers for power higher than 600W cw.

All kinds of jackets available.