LUXA

Large-Core UV Laser Delivery Fiber

Laser Fibers

A large silica core guides ultraviolet laser light. Core diameter and numerical aperture determine compatibility with the coupling optics.



Technical specifications

Fiber types, in order: UV105/125-22/245 / UV200/220-22/320 / UV400/420-22/650

Core numerical aperture	0.22±0.02 / 0.22±0.02 / 0.22±0.02
Attenuation (dB/km)	≤20.0 / ≤20.0 / ≤20.0
Fiber core diameter (µm)	105.0±3.0 / 200.0±3.0 / 400.0±4.0
Fiber cladding diameter (µm)	125.0±1.0 / 220.0±2.0 / 420.0±4.0
Fiber outside diameter (µm)	245.0±7 / 320.0±20 / 650.0±30
Core/cladding concentricity error (µm)	≤0.6 / ≤2.0 / ≤4.0
Core material	High-OH pure silica
Cladding material	Fluorine-doped silica