

CeramOptec®

Innovative Fiber Optics...Every Step of the Way™



Leading the Way in Long-Term Performance

For long-term performance, PowerLightGuide all silica fiber optic bundles, fused-end bundles, and assemblies set the standard. Tested for well over 40,000 continuous, unfiltered hours, our PowerLightGuide bundles exhibit level, steady transmission at 95% of the original input!

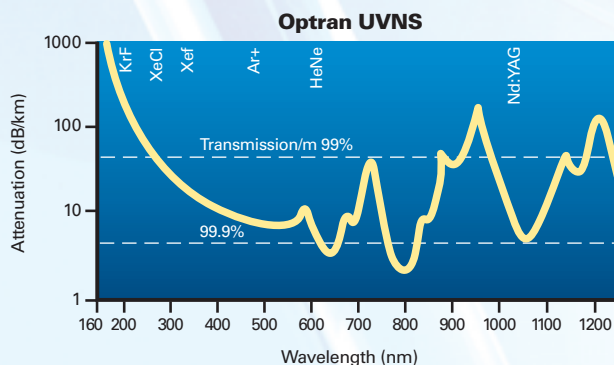
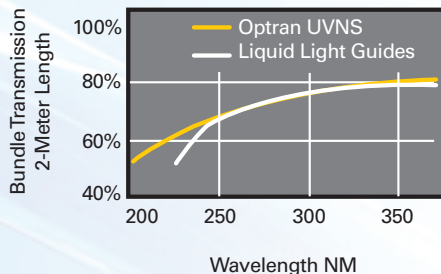
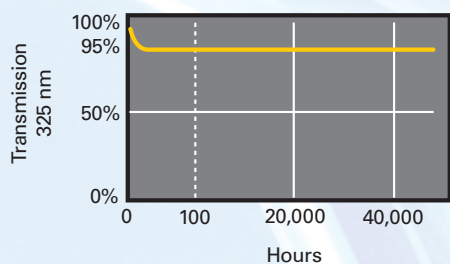
Traditionally, bundle transmission level has been limited by NA and the packing factor of the active fiber core area. However, in PowerLightGuide bundles, CeramOptec's Optran UVNS (UV Non-Solarizing) fibers are fused to eliminate inter-fiber spaces—without the need for epoxy and its inherent limiting properties. While maintaining the fibers' NA, CeramOptec's PowerLightGuide fused-end bundles typically increase transmission by 50%! Used in applications with temperatures as high as 1500° C, PowerLightGuides are the most advanced fiber bundles available today.



A Solid Solution for UV Spectroscopy and Liquid Light Guides

PowerLightGuide fused-end bundles offer a distinct advantage over liquid light guides because they offer exceptional throughput for wavelengths ranging from 160 to 1200 nm—without solarization. Unlike liquid light guides, our new PowerLightGuides are available in unlimited lengths and will not leak or deteriorate over time.

Our ability to integrate high NA (0.22, 0.28, 0.30, 0.37 and 0.40), fused ends, and other technologies allows bundle transmission to typically be 50% higher than any other manufacturer of fused silica UV fiber products.



Applications

■ Industrial / Scientific

- Replacement for UV Liquid Light Guides
- Spectroscopy
- Sensors
- UV photolithography
- Laser welding/soldering/markings
- Laser delivery
- Nuclear plasma diagnostics
- Analytical instruments
- Laser diode pigtailling
- Pyrometry
- Semiconductor capital equipment
- Thomson scattering
- UV illumination and monitoring
- UV Raman spectroscopy
- UV curing
- Super high temperature applications

■ Medical

- Medical diagnostics
- Laser delivery
- Photodynamic therapy
- Medical treatments such as UV psoriasis treatment

Notes:

Available NAs: 0.22, 0.28, 0.30, 0.37, 0.40 and others available upon request.

Available in custom active area and lengths; all bundles and assemblies are custom designed to meet your specifications.

NA is measured at the 95% intensity angle.

CeramOptec strives to ensure the accuracy of all information provided; however, we imply no warranties and disclaim any liability in connection with the use of this information.

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CeramOptec was founded in 1986 and today is a global leader in the production of stock and custom silica / silica, plastic-clad silica, and hard polymer-clad silica optical fibers; fused capillary tubing; DPSS lasers; diode modules; and low loss bundles and assemblies for UV, VIS, and IR transmission, medical laser delivery, sensors, plasma fusion, and spectroscopy.

With several facilities worldwide, we are able to provide our customers with local, prompt, and reliable service and products. By maintaining complete control over the entire manufacturing process—from preform manufacturing to finished fiber product—we are able to provide the highest quality control, custom solutions, and competitive pricing to our customers.

Please visit <http://www.ceramoptec.com> for more information.

CeramOptec is a subsidiary of biolitec™ AG.

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