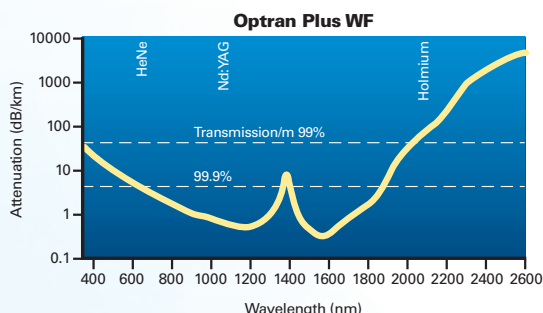
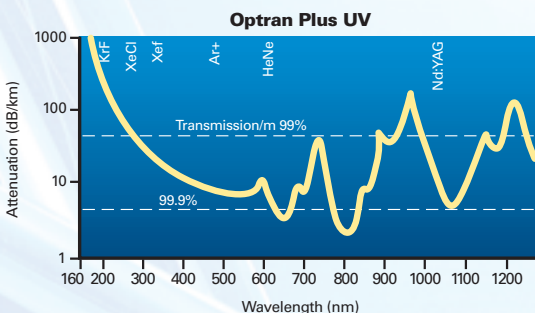
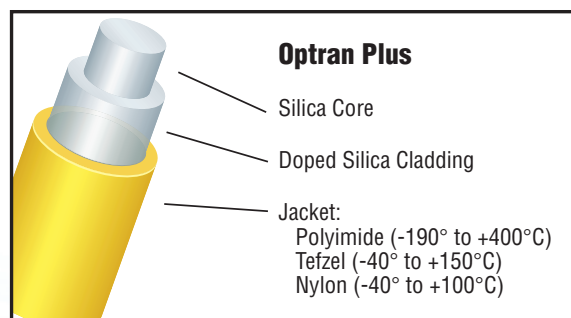


CeramOptec®

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



As the innovative leader of the fiber optic industry, CeramOptec is proud to introduce its new line of high NA silica/silica optical fiber—Optran Plus. Ideal for a broad range of applications, from laser delivery to sensing, Optran Plus fibers offer exceptional performance from deep UV to IR. We offer a choice of several jacket types and sizes—as well as custom-designed products and sizes to meet your specifications.



Applications

- Industrial/Scientific
 - Spectroscopy
 - Sensors
 - UV photolithography
 - Laser welding/soldering/marking
 - Laser delivery
 - Nuclear plasma diagnostics
 - Medical
 - Medical diagnostics
 - Laser delivery
- Analytical instruments
 - Laser diode pigtailling
 - Pyrometry
 - Semiconductor capital equipment
 - Thomson scattering
- Photodynamic therapy

Features

- Broad UV / VIS / NIR spectral range:
 - Optran Plus UV: 160 – 1200 nm
 - Optran Plus WF: 350 – 2500 nm
 - High laser damage resistance
 - Broad temperature range
 - High core to clad ratio
 - Large core diameters to 1700 µm
- Biocompatible materials
 - Radiation resistance: 10⁹ rad. total
 - Sterilizable by ETO and other methods
 - Manufactured at GMP and ISO 9001 compliant facility
 - Specialty coatings available for high temperatures, high vacuum, and harsh chemicals
 - All dielectric, non-magnetic construction

Our High NA Family of fibers and bundles utilizing these fibers allow for closer core/clad relationships. The net result is a more flexible fiber/fiber bundle while retaining optimum protection against microbend losses.

- Better protection against microbending losses
- Closer core clad ratios
- Smaller diameter fiber
- More flexibility
- A breakthrough for low light spectroscopy application
- The only answer when every photon counts

Properties

- Step index profile
- Pure silica core
- Standard proof test: 70 kpsi
- Core/clad ratios: 1:1.1 and others available upon request
- Minimum bend radius:
 - 100 x clad radius (momentary)
 - 300 x clad radius (long term)

Optran Plus (NA 0.28, 0.30) Specifications

Product Code	Ø Core (µm) ± 2% Silica Core	Ø Cladding (µm) ± 2% Doped Silica Cladding	Ø Jacket (µm) ± 5% Polyimide
100/110 P	100	110	125
200/220 P	200	220	245
300/330 P	300	330	355
400/440 P	400	440	470
600/660 P	600	660	710

Please prefix product code with “UV” or “WF” according to wavelength.

Please suffix product code with “28” for Optran Plus 0.28 or “30” for Optran Plus 0.30

Example: UV 100/110 P 28

Notes:

Custom sizes (fiber diameters up to 1700 µm) and jackets (nylon, Tefzel) are available upon request.

Replace “P” of product code with “N” for nylon and “T” for Tefzel.

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.

Tefzel® is a registered DuPont product.

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Innovative Fiber Optics...Every Step of the Way

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.

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