Ultraviolet Fiber Optic Communication Manufacturers

Overview

Lightera offers a comprehensive portfolio of communication infrastructure solutions that cater to diverse markets, including data centers, industries, offices, operators and services, across all application levels.

Key Takeaways

Leading manufacturers of ultraviolet (UV) fiber optic products include ThomasNet-listed custom fiber suppliers, CeramOptec, Laser Components, and Corning, offering specialized UV-transmitting fibers and assemblies for industrial, medical, and scientific applications. Key Manufacturers and Suppliers1.

Thomas

Net UV Fiber Suppliers Thomas

Net lists multiple custom manufacturers of UV-transmitting optical fibers suitable for UV photolithography, UV curing, medical diagnostics, pollution analysis, and chemical processing. These fibers feature core diameters from 50 µm to 1,000 µm, operating wavelengths from 180 nm to 1,100 nm, and options for hydrogen doping, anti-solarization, radiation resistance, and sterilization. They provide fibers with SMA or ST connectors, fused silica cores, and polyimide buffers, often ISO 9001 certified for quality assurance.

2.

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Ceram

Optec Ceram

Optec specializes in custom optical fiber solutions and OEM assemblies for UV, high-power, high-temperature, and harsh chemical environments. Their products include bare fibers, fiber cables, and fully integrated assemblies optimized for laser light transmission, spectroscopy, sensing, and medical devices.

Ceram

Optec emphasizes precision, reproducibility, and scalability, making them suitable for industrial, aerospace, semiconductor, and research applications. 3. Laser Components Laser Components offers UV fibers with high solarization resistance, suitable for deep UV applications (down to 190 nm).

They provide fibers with hydrogen-enriched cores for improved UV performance, and options for large core diameters or cooling to extend lifetime. Their fibers are designed for spectroscopy, imaging, and UV laser systems, ensuring stability after UV irradiation. 4.

Corning Optical Communications Corning manufactures a broad range of high-performance fiber optic components and integrated modules, including fibers for UV and other specialized applications. Their solutions support OEMs in optical network equipment, data centers, and high-speed communication systems, providing reliable, scalable, and high-quality fiber backbones.

Considerations for Selecting UV Fiber Manufacturers

Wavelength Range: Ensure the fiber supports the required UV spectrum (e.g., 193–350 nm for deep UV applications). Solarization Resistance: Fibers should maintain low attenuation under prolonged UV exposure. Core Material: High-OH silica cores are preferred for UV transmission.

Customization: Check for availability of custom lengths, connectors, and protective coatings. Certifications: ISO 9001 or equivalent quality certifications indicate reliable manufacturing standards. These manufacturers provide both standard and custom UV fiber solutions, catering to applications in communications, medical diagnostics, industrial processing, and scientific research.

Selecting a supplier depends on the specific wavelength, power handling, environmental resistance, and integration requirements of your application.

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Article Content

Ultraviolet (UV) Transmitting Optical Fibers Manufacturers and ...

Find Ultraviolet (UV) Transmitting Optical Fibers Manufacturers and Suppliers in the USA and Canada on Thomasnet

Top 28 Optical Communication Systems Companies

Our advanced optics concentrate more UV output at the fiber, resulting in faster line speeds. We provide significant energy and operating savings through efficient

Lightera Optical Fiber & Connectivity Solutions

Lightera offers a comprehensive portfolio of communication infrastructure solutions that cater to diverse markets, including data centers, industries, offices, operators and services, across all application levels.

Corning Optical Communications | Fiber Optic Connectivity Solutions ...

We design and manufacture a broad range of high-performance fiber optic components and integrated modules for original equipment manufacturers (OEMs) within the optical network equipment market.

UV Transmitting Fiber Optics Manufacturers and Suppliers in

Manufacturer and distributor of standard and custom corrosion resistant mid- to far infrared, near infrared (NIR), and ultraviolet (UV) transmitting carbon fiberoptics.

UV-NIR Large Core Fibers | Multimode Fiber Bundles & Light Guides

UV/VIS, or ultraviolet to visible fibers have a useable wavelength range of 250 to 1150 nm. VIS/NIR, or visible to near-infrared fibers are suitable for wavelength transmittance from 400 to 2100 nm. In

Ultra Communications, Inc. – Harsh environment fiber optics, fiber ...

Ultra Communications designs, develops and manufactures the industry''s most compact high-speed fiber optic components for harsh environments (HEFO).

Optical Fiber Products

Corning''s optical fiber products enable the voice, data, and video communications that are transforming our world. Get the details about our innovative fiber product offerings here.

Fiber Color Code Guide | Fiber Optic Cable Color Coding Standards

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Learn the complete fiber color code guide. Understand fiber optic cable color coding standards and charts to simplify installation, identification, and network management.

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Equipment for fibre optic networks Companies in South Korea | Find ...

Company Activity:manufacturing, distribution and salesOptical network detection fence system Supplier of: Installation and maintenance services for the optical industry Equipment for fibre optic networks

109 Fiber Optic Cable Manufacturers in 2026

This section provides an overview for fiber optic cables as well as their applications and principles. Also, please take a look at the list of 109 fiber optic cable manufacturers and their company rankings.

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Optical Communications Products

Browse our optical communication connectivity products designed to help you enable your communication networks. Easily create a bill of materials list.

Solar-Blind Mobile Deep Ultraviolet Optical Communication ...

Ozone in the atmosphere strongly absorbs deep ultraviolet light with wavelengths between 200 and 280 nm. Therefore, this characteristic is advantageous and promising for

10 Best Fiber Optic Manufacturers for 2026

Discover the best fiber optic manufacturers globally, offering cutting-edge multimode and single mode fiber solutions. See who tops the list for quality and innovation.

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Optical Transceiver Market: Top 10 Manufacturers Ranked

Optical transceiver market leaders: the top 10 manufacturers powering 400G and 800G modules for hyperscale data centers and AI networking.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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