ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Fiber Array Manufacturers



Overview

Fiber Optic Arrays Manufacturers and Suppliers in the USA and CanadaFind Fiber Optic Arrays Manufacturers and Suppliers in the USA and Canada on Thomasnet.

Key Takeaways

Leading fiber array manufacturers include Molex (Phillips Medisize), Fibertec, Olantech, Broadex Technologies, Shenzhen Tykofiber, and Photonic Manufacturing Service Ltd.Key Manufacturers and Capabilities



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Molex (Phillips Medisize) offers optical assemblies and arrays with extremely tight tolerances in 1D and 2D configurations. Their products range from a few fibers to thousands, supporting high-power, high-temperature, and cryogenic applications. They provide custom fiber assemblies with various sheathing, connectors, and endcaps to optimize coupling efficiency and minimize laser-induced damage, suitable for telecommunications, medical devices, spectroscopy, and industrial sensing . Fibertec specializes in 1D and 2D fiber arrays made of silica single-mode and multimode fibers. Their arrays are robust, precisely manufactured, and used in industry, sensor technology, image processing, and telecom applications . Olantech manufactures PLC-type optical splitters and fiber arrays designed for high reliability under harsh temperature and humidity conditions, compliant with Telcordia standards . Broadex Technologies focuses on planar lightwave circuit (PLC) products, offering expertise in optical design, testing, and packaging of fiber arrays and splitters for telecom and FTTH networks . Shenzhen Tykofiber Co., Ltd. develops and produces fiber arrays, pigtails, collimators, and PLC chips, providing solutions for optical communication and integrated optical components . Photonic Manufacturing Service Ltd. provides full-spectrum fiber optic component manufacturing and contract packaging services, supporting single-source solutions for custom fiber arrays .

Applications

Fiber arrays are used in:

• Telecommunications: Connecting optical fibers to arrayed waveguide gratings (AWGs) and WDM systems .

• High-power laser systems: Coherent beam combining and laser delivery with polarization-maintaining fibers .

• Optical switching and sensing: High-density datacom switches, MEMS mirror arrays, and industrial sensors .

• Scientific instrumentation: Astronomy, spectroscopy, and bioanalytical devices .
Considerations for Selection

When choosing a fiber array manufacturer, consider:

• Fiber type: Single-mode, multimode, or polarization-maintaining.

• Array configuration: 1D vs. 2D, number of fibers, and pitch accuracy.

• Environmental tolerance: Temperature, humidity, and mechanical robustness.

• Connector and packaging options: Endcaps, sheathing, and custom assemblies.

• Integration needs: Compatibility with photonic integrated circuits (PICs) or PLC devices . These manufacturers provide a range of standard and custom solutions to meet precise optical and mechanical requirements for diverse applications.

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Article Content

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Fiber optic array manufacturer, linear and 2D fiber optic arrays

Combining deep expertise in optical and mechanical tolerances with advanced custom manufacturing capabilities, we deliver

Fiber Arrays – Buyer''s Guide & Supplier List | RP

This buyer''s guide for fiber arrays provides technical background, comparison of major types, selection

Paulsson, Inc. | Fiber Optic Sensing Solutions | Pipeline Monitoring ...

Paulsson is a leader in advanced optical sensing solutions, specializing in fiber optic, seismic, acoustic, pressure, and temperature

Welcome

Infinity Fiber specializes in manufacturing high quality fiber optic cable assemblies for various industries

Fiber Optic Systems Inc. (FSI) | Fiber Optic Solutions

Discover cutting-edge fiber optic solutions from FSI. We offer custom and standard products for medical,

QPC Fiber Optic, LLC

We specialize in designing and manufacturing fiber optic connectors, fiber optic cable assemblies, and custom fiber optic products for

Fiber Arrays

Our offering covers the wavelength range from ultraviolet to infrared, channel counts up to 64, and various

Optical Assemblies and Arrays

Whether you need simple, single-fiber patch cables or custom fiber optic assemblies, our team is dedicated to meeting your volume

Fiber Arrays – 1D, 2D, packaging, fiber endfaces,

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With our extensive experience in connecting fiber arrays to PICs for various platforms like Silicon Nitride,

Fiber optic array manufacturer, linear and 2D fiber optic

Fiber Optic Arrays FiberTech Optica manufactures high-precision linear, 2D, and V-groove fiber arrays in a

Fiber Array Assemblies

SENKO''s Fiber Array and Assemblies meet industry requirements and demand High precision fiber array components Available for

Our offering

Our products and services include prototype and volume photonic packages, fiber arrays with optional

Fiber Optic Manufacturer And Supplier in US | Amerifiber

At Amerifiber, we''re more than just a fiber optic cable supplier. We''re a full-service, customer-first manufacturer and

Fiber Alignment Arrays Fabrication

We offer optical fiber alignment structures (2D micro-hole arrays) fabrication services. It is a crucial

Fiber Arrays – 1D, 2D, packaging, fiber endfaces, cleaving, splicing ...

Fiber arrays are 1D or 2D arrays of optical fibers, used for coupling to photonic circuits, telecom signals, and laser beam combining.

Fiber Array Design & Manufacturing | Broadex Technologies

We can customize all aspects of a fiber array, including the fiber locations, array pitch and dimensions, materials, packaging and

FAU and Multifiber Assemblies | Optek Systems

FAU (Fiber Array Unit) multifiber assemblies offer high-density, high bandwidth solutions for the new era of fiber optic applications,

Fibermart

Fibermart provides fiber cables, pigtails, optical components, fiber tools and integrated network solutions worldwide

Xin Zhenhua Photonics | One of the largest v-groove and fiber array ...

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Fiber Array is fabricated with high precise V-Groove substrate to locate the fiber cores and accurately polished surface. As one of key

V-GROOVE ASSEMBLIES USA Patent: 7058275

PM V-Groove Array ER Measurements OZ Optics ER Meter for PM V-Groove arrays provides fast and accurate extinction ratio

Fiber Array (up to 196CH or customized)

Fiber Arry Lenght (m): 1.5± 0.1 or Customized Polishing Angel (°): 0, 8, -8 (± 0.3) or Customized Polishing flatness: 5

2d Fiber Array, Custom Design & Fabrication Of 2D Matrix Optical Fiber ...

Two-dimensional fiber array is widely used in optical waveguide devices, integrated optics, optical imaging, etc. It is also a key

Fiber Arrays Market Size | Industry Growth Report 2035

Fiber Arrays Market report highlights growth from USD 1.3 Billion in 2025 to USD 2.94 Billion by 2035, reflecting a CAGR of 8.5%

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AuthenX to Unveil Detachable 2D FAU Technology at COMPUTEX

The showcase will be headlined by the first live technical demonstration of AuthenX''s Detachable 2D FAU (Fiber

China Optic Fiber Array Manufacturers and Suppliers

We''re one of leading optic fiber array manufacturers and suppliers in China.Source here the best customized optic fiber array

Top US Fiber Optic Cable Manufacturers & Best Global Alternatives

Looking for top fiber optic companies in the USA? We review leaders like Corning & AFL, and compare them with global

Products | Fiber Array Units — PLC Connections

mfd conversion fiber array polarization-maintaining fiber array fa ice (in-plane coupling element) collimating fiber array trench probe

Fiber Arrays Market Outlook 2026–2035 | Size & CAGR

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Major Market Restraint: Around 31% of manufacturers face production cost challenges due to complex alignment and

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10 Best Fiber Optic Manufacturers for 2026

Discover the best fiber optic manufacturers globally, offering cutting-edge multimode and single mode fiber solutions.

Lensed Fiber Arrays

PHIX offers lensed fiber arrays for free space coupling to other fibers arrays or photonic integrated circuits (PICs).

XSOF | Custom and Specialty Fiber Optic Manufacturers

Fiber optic bundles and arrays are crafted with care and quality. We have a wide range of options for you to choose from, each

Fiber Array

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Custom Fiber Array Manufacturer About Fibconet Providing Custom Fiber Optic Array Design&Solution FIBCONET

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