Find raw material manufacturers for fiber optic cables



Overview

Fiber Optic Manufacturers Checklist | PHILISUNUse this checklist to compare fiber optic cable manufacturers for quality control, custom assemblies, testing.

Key Takeaways

Leading companies supplying raw materials for fiber optic cables include Corning, YOFC, Sumitomo Electric, and Dekam Optical, providing high-purity silica, optical preforms, specialty fibers, and polymer coatings.

Key Raw Materials for Fiber Optic Cables

Fiber optic cables rely on a combination of specialized materials to ensure high-speed, low-loss, and durable performance: Core & Cladding: Ultra-pure silica (SiO_2) with germanium doping to control the refractive index, forming the light-transmitting core and surrounding cladding. Coatings: Dual-layer UV-cured acrylate coatings (soft primary + hard secondary) protect the glass fiber from mechanical stress. Identification: UV-cured color inks for fiber identification in multi-fiber cables.

Ribbon Matrix: UV-curable resin for ribbon cables, maintaining stability during high-speed extrusion. Strength Members & Armoring: Materials like FRP, aramid yarn, or steel provide tensile strength and protection against environmental stress. Protective Jackets: Polymers and specialized chemical repellents enhance durability and water resistance.

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Leading Raw Material Suppliers

Corning Inc.: A pioneer in optical fiber technology, Corning manufactures high-purity glass and optical fibers, including SMF-28® single-mode fiber, and supplies essential materials for global telecom networks.

YOF

C (Yangtze Optical Fibre and Cable Joint Stock Limited Company): Offers optical preforms, specialty fibers, polymer coatings, and cable sheathing, serving telecom, healthcare, and industrial sectors worldwide. Sumitomo Electric Industries: Provides optical fibers, preforms, and related materials, leveraging over a century of experience in telecommunications and electronics. Dekam Optical Communication Technology Co., Ltd: Supplies fiber optic cables and raw materials for various applications, including G.

652D and G. 657A fibers suitable for long-distance communication.

OF

S Optics (Furukawa Electric subsidiary): Specializes in advanced fiber-optic technologies for telecommunications, medical imaging, and defense, with a focus on R&D and domestic supply chain support. Prysmian Group: Offers high-density optical fibers and submarine cabling solutions, including innovative Hollow-Core Fiber for ultra-low-latency applications.

Certifications and Quality Standards

Top raw material suppliers maintain rigorous quality and safety standards, including ISO 9001, TL9000, CE, RoHS, ITU-T, and IEC certifications, ensuring compliance with global telecommunications and industrial requirements. These certifications guarantee high reliability, low signal loss, and long-term durability of fiber optic cables.

Conclusion

For businesses or manufacturers seeking raw materials for fiber optic cable production, companies like Corning, YOFC, Sumitomo Electric, Dekam Optical, OFS Optics, and Prysmian Group are leading suppliers. They provide high-quality optical preforms, ultra-pure silica, specialty fibers, polymer coatings, and protective materials, backed by global certifications and decades of industry expertise.

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Article Content

Fiber Optic Manufacturers Checklist | PHILISUN

Use this checklist to compare fiber optic cable manufacturers for quality control, custom assemblies, testing, labeling and project support.

Fibre Optic Material Suppliers: Reliable Sources for Cables

Need fibre optic materials? Discover verified suppliers offering high-performance cables, connectors, and components for telecommunications. Compare options and request quotes today.

Top 9 Raw Fiber Optic Companies In The World

Find out the best fiber optic companies worldwide, highlighting key players that stand out in quality and performance in telecom networking services.

Optical Fiber Raw Material Market: Key Suppliers & Trends

Discover top suppliers in the optical fiber raw material market. Find high-purity silica, preforms, and advanced materials for telecom networks. Click to explore verified manufacturers with

Top 24 Fiber Optic Cable Manufacturing Companies

This list features 24 notable fiber optic cable manufacturing companies, varying in size from 50 to over 5,000 employees. They are headquartered in locations across the globe, including the United States,

10 Best Fiber Optic Manufacturers for 2026

This comprehensive guide examines the top fiber optic cable manufacturers delivering high-performance fiber optic cables and optical fiber solutions that enable lightning-fast data

Fiber Optic Cables in or near Metro New York (NY) on Thomasnet

Custom manufacturer of fiberoptic, power, flat, and ribbon cables for the military, medical, computer, transportation, and commercial industries. Secondary services such as precision wire

Top 15 Fiber Optic Manufacturers (2026 Global Ranking)

An authoritative 2026 guide to the top 15 fiber optic manufacturers — from Corning and Prysmian to Fujikura and LS Cable — with headquarters, tech focus, and flagship products.

Industrial Fiber Optics

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We specialize in providing leading edge solutions and manufacturing technology products such as industrial networking cables, illumination fibers, medical assemblies and optical sensors.

China Raw Material Manufacturers, Optical Fiber Suppliers, Optical ...

We''re known as one of the most professional raw material, optical fiber, optical fiber cable, indoor optical cable, special cable manufacturers and suppliers in China.

G.657.A2 optical fiber – wholesale supplies for telecommunications ...

G.657.A2 fiber optic cable for FTTH, FPV drones, military systems and data transmission. Wholesale supplies, technical documentation and individual conditions.

Global Fiber Optic Cable Market Analysis | OPELINK

Raw material supply chains — particularly high-purity silicon tetrachloride for preform manufacturing and specialized coating materials — remain exposed to geopolitical risk.

Global Fiber-optic Cable Market Research Report 2026

Global Fiber-optic Cable key players include ZTT, YOFC, Prysmian, HTGD and FiberHome. Global top five manufacturers hold a share about 40%. Asia-Pacific is the largest market, with a share over

Fiber Optic OSP Cable Market in the world | Report

The World Fiber Optic OSP Cable market comprises cables designed for direct burial, aerial, and underground installation outside buildings, linking central offices to distribution points and

Fiber optic cable manufacturers Mainz and Rheinland-Pfalz

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Optical Fiber | Optical Fiber Products | Corning

Our proprietary optical fiber manufacturing process continues to set the standard for excellence. From raw materials to delivery, each step of the process has been perfected to ensure our customers

13,824-Core Fiber Optic Cable: Furukawa Electric

Conclusion: Japan''s Fiber Optic Edge in the AI Era The fact that two Japanese companies — Furukawa Electric and Fujikura — are leading the world

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