

Optical Cable Industry Cluster



AI Overview

The optical cable industry is concentrated in major global hubs such as North America, Europe, China, and India, driven by data center expansion, 5G deployment, and high-speed connectivity demand.

Global Market Overview The fiber optic cable market is experiencing rapid growth, valued at approximately USD 13 billion in 2024 and projected to reach USD 34.5 billion by 2034, growing at a CAGR of 10.4%. This expansion is fueled by the proliferation of data centers, the rollout of 5G networks, and increasing broadband penetration. Active optical cables (AOCs) are also seeing strong adoption, particularly in data centers and enterprise networks, with the market expected to grow from USD 3.97 billion in 2023 to USD 9.07 billion by 2030 at a CAGR of 12.6%.

Key Industry Clusters

- North America:** A leading hub for optical cable manufacturing and deployment, particularly in the United States, driven by hyperscale data center construction and AI applications. Optical cable demand for data centers in North America is projected to rise from 3% of total cable demand in 2025 to 7% by 2030.
- Europe:** Strong demand is supported by telecom infrastructure upgrades, 5G rollout, and government-backed rural broadband programs.
- China:** A major production and consumption center, with extensive fiber optic deployment for telecom and data center applications.
- India:** Rapidly growing data center market, expected to increase from USD 4.5 billion in 2023 to USD 11.6 billion by 2032, driving fiber optic cable demand.

Technological and Market Drivers

- Data Centers and AI:** The rise of Generative AI and cloud computing has significantly increased optical cable demand, particularly for single-mode and multi-mode fiber.
- 5G Networks:** High-speed, low-latency networks require dense fiber infrastructure for backhaul and fronthaul connectivity, prompting manufacturers to develop high-capacity, low-latency cables.
- Active Optical Cables (AOC):** Adoption of SFP+ and InfiniBand technologies supports high-speed, low-latency connectivity in modern data centers, enabling transmission...

Article Content

A Deep Dive into the Copper and Optical Interconnects

These large clusters need a flat, low-latency network that spans across a larger building or multiple buildings within the same campus. As a

CRU's data centre forecasting for optical fibre and cable

Following an extensive consultation period with the industry and senior leaders across CRU, we have published the results of a global data centre

US & European Fiber Optic Cable Market Forecasts 2031

United States And European Fiber Optic Cable Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031) The United States and

CRU's data centre forecasting for optical fibre and cable

CRU's Wire and Cable team have recently dug deep into the data centre market around the world, which has seen rapid growth in recent years in

Optical fibre and cable: Top ten industry shifts in 2025

Discover how AI growth, supply and demand shifts, and more are influencing the optical fibre and cable industry with CRU Group.

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From that time on, our research team has grown to cover the whole supply chain supporting Optical Networks, Data Centers and AI Clusters. We have been

How to Choose the Right Fiber Optic Cable for Your Optical

Learn how to choose the right fiber optic cable for SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP-DD, and OSFP optical transceivers. Avoid common fiber compatibility mistakes and improve

Data Center Cabling for AI Workloads: What's Changing

By 2025, AI-driven compute clusters will demand unprecedented processing power and transformative cabling solutions to enable faster, denser, and greener

AI Data Center Optical Transceiver Module Market

The AI data center optical transceiver market has entered a historic growth phase, driven by the exponential expansion of AI computing clusters and the

27 Leading Fiber Optic Cables Companies Shaping the Global Market ...

To access the full competitive analysis, industry trends, regional forecasts, and segmented insights, download the comprehensive Fiber Optic Cables Market by Product, Product Type, Cable

Fiber Optic Cable Market Size

Fiber Optic Cable Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031) The Fiber Optic Cable Market Report is Segmented

Fiber Optics Companies

Fiber Optics industry insights on factors that are driving the growth of the Fiber Optics Market and key players along with their go to market strategies and new revenue sources.

Fiber Optic Cable Market Size, Share, Industry Outlook 2026

Fiber Optic Cable Market size was valued at US\$ 15.5 billion in 2025 and is expected to reach US\$ 32.7 billion by 2032, growing at a significant CAGR of 11.3% from 2026-2032. A fiber optic is a

India Wire & Cable Market Share & Size 2031 Outlook

The India Wire And Cable Market worth USD 23.13 billion in 2026 is growing at a CAGR of 9.01% to reach USD 35.58 billion by 2031. Finolex Cables

Fiber Optic Cable Market Size, Forecasts Report 2026-2035

The fiber optic cable market was estimated at USD 14.6 billion in 2025 and is expected to grow at a CAGR of 9.5% between 2026 and 2035, driven by expansion of 5g network infrastructure.

Photonics in Germany

The German optics and photonics industry is concentrated within several clusters and industry associations. Regional clusters are organized in OptecNet Deutschland – the association of the

How will fiber and equipment vendors meet the increased demand for ...

Fiber optic network equipment vendors like Ciena and Nokia are preparing for increased demand in 2026 by significantly ramping up production of high-speed optical components (like 800G

Building AI-Optical Network to Drive New Growth in the AI Era

For new opportunities in national and international DCI, Huawei has launched the industry's only ultra-large OTN cluster solution and integrated submarine-terrestrial cable solution.

Fiber Optics Market Size Report 2024-2029 [234 Pages

Fiber optics players are focusing on leveraging new revenue sources such as FTTX, Data Center Interconnect (DCI), and subsea fiber optic cable networks. These

Trends & developments for optical fibre cables in the datacentre industry

After an extensive consultation with industry experts and senior leaders, we have published the results of a comprehensive global data centre market model that tracks demand for

How will fiber and equipment vendors meet the increased demand for ...

Fiber optic vendors are employing a mix of manufacturing expansion, technological innovation in high-density and next-generation fibers, and strategic supply chain alignment to meet

Fiber Optic Cable Market Size, Forecast Report [2026-2035]

The Fiber Optic Cable Market Report highlights growing deployment of 5G backhaul, FTTH networks, and hyperscale data centers, with billions of fiber kilometers installed across global

AMD, Broadcom, and Nvidia join hyperscalers to define

Tech Industry Artificial Intelligence AMD, Broadcom, and Nvidia join hyperscalers to define optical scale-up interconnect of the future for AI clusters

2026 Fiber Optic Market Crisis: G657A2 Supply

The fiber optic industry is experiencing an unprecedented supply crunch. If you have sourced optical fiber g657 cables in the past month, you

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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