

Sales of optical fiber cable reinforcing cores



Overview

The optical fiber cable market is estimated to grow at a CAGR of 4.1% over the coming years and reach US\$12.6 billion in 2031.

Key Takeaways

The global market for optical fiber cable reinforcing cores is expanding steadily, with aramid-based reinforcements dominating 45-55% of market value and Asia-Pacific leading production and demand.

Market Overview

The optical cable reinforcement market is projected to grow steadily from 2026 to 2035, driven by the global expansion of fiber optic networks for 5G, FTTH, and data center interconnects. Reinforcing cores—including aramid yarns, fiberglass strength members, steel wire armoring, and composite rods—are essential for protecting delicate glass fibers during installation, tension, and thermal cycling (IndexBox) . Aramid-based reinforcements are particularly valued for their high strength-to-weight ratio and fatigue resistance, making them suitable for aerial and submarine cables .

Market Size and Growth



The global optical fiber cable market, which includes reinforcing cores, is projected to reach approximately USD 30 billion by 2035, growing at a CAGR of around 10% from 2025 to 2035. This growth is fueled by increasing demand for high-speed internet, cloud computing, data centers, and smart city initiatives (Core Market Research) . The reinforcing core segment benefits directly from this expansion, as stronger and more durable cables are required for long-haul, submarine, and high-performance applications .

Regional Production and Supply

Asia-Pacific dominates the production of reinforcing cores, accounting for 60–70% of global output, and also serves as the largest demand center. The market is concentrated among a few global chemical and composite manufacturers, reflecting a highly concentrated supply chain (IndexBox) . Non-metallic reinforcements, such as glass-reinforced plastic (GRP) rods, are increasingly preferred in building environments due to stricter fire-safety regulations .

Key Trends and Challenges

- Rising demand for high-performance para-aramid yarns in long-haul and submarine applications.
- Adoption of GRP strength members in micro-duct cables.
- Preference for non-metallic reinforcements in urban and indoor installations.
- Challenges include volatile raw material costs, extended supplier qualification cycles, and trade restrictions on specialty aramid fibers .

Leading Suppliers

Companies such as Aksh OptiFibre Ltd. produce fibre-reinforced plastic (FRP) rods and aramid reinforcement plastic (ARP) rods, supplying both domestic and international markets . Other major global players invest in research and development to improve strength, durability, and fire resistance of reinforcing cores, aligning with the growing demand for high-speed and reliable fiber optic networks .

Outlook

The baseline scenario for the optical cable reinforcement market indicates a CAGR of 4–6% from 2026 to 2035, with the market index projected to reach 150–180 by 2035 (2025=100) . The reinforcing core segment will continue to expand alongside the broader optical fiber cable market, driven by 5G infrastructure, FTTH deployments, and data center growth. In summary, sales of optical fiber cable reinforcing cores are poised for sustained growth, with aramid and composite materials leading the market, Asia-Pacific as the dominant hub, and strong demand from telecommunications, data centers, and smart city projects.

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The FRP (Fiber Reinforced Plastic) optical cable reinforcing core is a product that uses glass fiber as the reinforcing material and

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Fiber Optic Cable

Between 2010 and 2020, fiber optic cable made significant market share gains at the expense of copper-based products, rising from

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