

Structured Cabling Market Outlook 2025-2034: Market Share, and Growth Analysis By Product Type (Fiber Optic Cables, Copper Cables), By Application (LAN, Data Center), By End Use Industry

<https://marketpublishers.com/r/S7CE76A7FB07EN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: S7CE76A7FB07EN

Abstracts

The Structured Cabling Market is valued at USD 12.7 billion in 2025 and is projected to grow at a CAGR of 6.4% to reach USD 22.3 billion by 2034. The structured cabling market plays a crucial role in the telecommunications and data infrastructure industries by providing reliable, high-performance systems for transmitting data across a wide range of applications. Structured cabling refers to the complete system of cables and their associated components that are used to connect various hardware systems, such as computers, servers, and other communication equipment, within a building or between buildings. It is designed to handle both data and voice transmissions while maintaining high standards of reliability, scalability, and performance. With the increasing reliance on digital communication and the rapid growth of the Internet of Things (IoT), the demand for robust and efficient cabling systems has surged. The market spans multiple industries, including telecommunications, commercial real estate, data centers, and industrial applications, each requiring tailored cabling solutions. Structured cabling systems typically include copper cables, fiber optics, patch panels, switches, and other components that help ensure seamless connectivity. With the ongoing expansion of cloud computing, big data, and 5G technology, structured cabling solutions are essential for supporting the increasing bandwidth and data traffic requirements, making them a critical part of modern IT infrastructure. The structured cabling market continued to evolve with advancements in technology and growing infrastructure needs. The rise of data centers, cloud services, and 5G networks led to increased demand for high-capacity, high-performance cabling solutions. Fiber-optic cabling saw widespread adoption due to its ability to support higher data speeds and greater bandwidth over long distances, especially in data centers and large enterprise

networks. Additionally, structured cabling solutions began incorporating more advanced technologies such as Power over Ethernet (PoE), which enables both power and data transmission over a single cable. This trend is particularly useful in smart buildings, where lighting, security systems, and IoT devices require seamless connectivity. Another key development in 2024 was the increased emphasis on sustainability in the cabling market. Manufacturers began offering more eco-friendly options, such as cables made from recyclable materials or those designed to be more energy-efficient. Despite these advancements, challenges such as the high initial costs of installation, the complexity of upgrading existing infrastructure, and the need for skilled labor to install these systems posed significant barriers to market expansion in some regions. The structured cabling market is expected to continue growing, driven by the expansion of smart cities, industrial automation, and the increasing reliance on cloud-based services. As businesses and municipalities embrace digital transformation, the demand for high-speed and high-bandwidth cabling solutions will rise. Fiber-optic cabling is expected to dominate the market due to its ability to support next-generation applications such as 5G, IoT, and ultra-high-definition video streaming. Furthermore, the continued rollout of 5G networks will create a need for enhanced connectivity solutions that provide faster, more reliable data transmission across large networks. The demand for more intelligent, flexible, and scalable cabling solutions will also increase as industries adopt automation, smart buildings, and other advanced technologies. The integration of structured cabling with data center operations and cloud infrastructure will further drive demand for efficient and robust cabling solutions. However, challenges related to the complexity and high costs of implementation, as well as the need for standardization across global markets, will continue to impact the pace of adoption in some regions.

Key Insights Structured Cabling Market

Increased adoption of fiber-optic cabling solutions, driven by the need for higher bandwidth, faster speeds, and greater data capacity.

Growing integration of Power over Ethernet (PoE) technology to support smart buildings, IoT devices, and energy-efficient systems.

Greater focus on sustainability, with manufacturers offering eco-friendly cabling options made from recyclable and energy-efficient materials.

Expansion of cabling solutions to support the rapid growth of 5G networks, cloud computing, and data centers.

Shift towards more intelligent, flexible, and scalable cabling systems to accommodate the demands of modern infrastructure, automation, and smart cities.

The growth of data centers and cloud computing, which require robust, high-performance cabling systems to handle increasing data traffic and storage needs.

The expansion of 5G networks and IoT devices, driving the demand for high-speed, high-capacity cabling solutions to support real-time data transmission.

Increasing adoption of smart buildings and smart cities, which rely on integrated cabling systems to support advanced technologies such as automation, security, and energy management.

The rising demand for sustainability and energy efficiency, prompting the development of eco-friendly, recyclable, and energy-efficient cabling solutions.

The high initial costs of installation and the complexity of upgrading existing infrastructure remain significant barriers to widespread adoption, especially in cost-sensitive markets.

Structured Cabling Market Segmentation

By Product Type

Fiber Optic Cables

Copper Cables

By Application

LAN

Data Center

By End Use Industry

IT & Telecommunication

Residential & Commercial

Government & Education

Transportation

Industrial

Other End Users

Key Companies Analysed

CommScope

Nexans SA

Legrand Group

Corning Inc.

Belden Inc.

Schneider Electric SE

Siemon

Panduit Corporation

Furukawa Electric

ABB Group

TE Connectivity

Superior Essex

Reichle & De-Massari AG

Hitachi Cable Ltd.

Teknon Corporation

Brand-Rex

Paige Electric

Datwyler Cabling Solutions AG

Connectix Ltd.

Electra Link Inc.

VIA Technology

Network Cabling Services

Desert Communications

Xin Networks PTE Ltd.

Synergy Solution

America Fujikura Ltd.

Intelligent Business Technologies

Black Box Network Services

Vega Global

Broadcom Inc.

Sterlite Technologies

ommScope Holding Company Inc.

Corning Incorporated

Panduit Corp.

Furukawa Electric Co. Ltd.

The Siemon Company

ABB Ltd.

Anixter International Inc.

Cisco Systems Inc.

Datwyler Holding Inc.

Structured Cabling Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Structured Cabling Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are

analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Structured Cabling market data and outlook to 2034

United States

Canada

Mexico

Europe — Structured Cabling market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Structured Cabling market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Structured Cabling market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Structured Cabling market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Structured Cabling value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Structured Cabling industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Structured Cabling Market Report

Global Structured Cabling market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Structured Cabling trade, costs, and supply chains

Structured Cabling market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Structured Cabling market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Structured Cabling market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Structured Cabling supply chain analysis

Structured Cabling trade analysis, Structured Cabling market price analysis, and Structured Cabling supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Structured Cabling market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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