Cable Trays Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

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Report description:

The global cable trays market was valued at USD 5.75 Billion in 2024 . Robust industrial automation projects in Asia Pacific continue fuelling demand for durable, modular cable trays. In turn, the market is expected to grow at a CAGR of 10.70% during the forecast period of 2025-2034 to reach a value of USD 15.89 Billion by 2034 .

One of the key driving factors motivating the market is the rising complexity in industrial power and communication infrastructure, particularly across data centres and renewable energy facilities. With data centre electricity use set to more than double by 2030, according to the IEA, the need for effective cable routing systems has become pivotal. Cable trays are gaining traction as a standard choice for structured wiring, owing to their flexibility in accommodating power, control, and communication cables simultaneously.

Several government initiatives have further boosted demand in the cable trays market. For example, with 138 data centres in operation and 45 more on the way, India has witnessing massive demand for scalable electrical infrastructure, where modular cable tray systems are proving indispensable. Likewise, in the European Union, funding under the Digital Europe Programme has driven smart factory upgrades, with companies increasingly opting for wire mesh and ladder-type trays due to their accessibility and heat dissipation advantages.

Even in traditional sectors such as oil and gas, operators are shifting to stainless steel and galvanised tray systems to cope with harsh environments and safety compliance. Moreover, smart tray monitoring systems equipped with sensors for load and thermal analysis are being adopted in offshore rigs and large-scale facilities, indicating the cable trays market's shift toward intelligent hardware integration. This shift underlines how the industry is moving beyond static metal fixtures into high-performance, tech-enhanced cable management solutions. Manufacturers who innovate around ease of installation, safety, and adaptability are expected to remain competitive over the coming years.

Key Trends and Recent Developments

July 2024

Niedax Group, a top global provider of cable management systems, and ABB, a leader in automation and electrification, have agreed to establish a new 50/50 joint venture. Customary closing requirements apply to the transaction. This signals intensified focus on integrated, scalable cable management and electrification solutions for industrial and infrastructure-scale deployments.

June 2024

Hermi introduced Hermi Fast Klick Cable Trays, the newest product in its lineup. The Magnelis version is currently available. This improvement gives the well-known Hermi Fast Klick series a new level of robustness, resistance to corrosion, and simplicity of installation. This cable trays market development highlights innovation in corrosion-resistant, tool-free installation systems tailored for harsh industrial and coastal applications.

February 2024

Igus has created the first motor cable for energy chains and cable trays in history, both of which have UL approval and a four-year functional guarantee. This eliminates the need for a plug connection between the energy chain and the cable tray, enabling the cable to be placed smoothly. The chainflex line now includes a shielded PVC motor cable thanks to the CF33.UL. This enhances compatibility between cable trays and energy chains, reducing installation complexity and improving safety in automated facilities.

January 2024

The Wire Basket Cable Tray Routing System, a next-generation cable management solution from Panduit, a global leader in network and electrical infrastructure solutions, has been introduced. It is intended to be used in data centres, connected buildings, and industrial settings to route and manage copper, fibre optic, or power cables. This reflects growing demand for modular, high-density routing in smart buildings and data-driven environments like data centres.

Surge in Renewable Energy Installations Requires Scalable Cabling Infrastructure

As per the cable trays market analysis, with solar and wind energy accounting for nearly 12% of global electricity generation in 2023, renewable projects are demanding robust cable management systems. In offshore wind farms and solar plants, where long-distance cabling is inevitable, ladder-type and galvanised trays are becoming the industry norm. The European Commission's REPowerEU plan, which targets 42.5% renewable power by 2030, has accelerated deployments, especially in the Nordics. In Japan, post-Fukushima reforms now mandate resilient power evacuation systems, pushing firms to adopt corrosion-resistant stainless-steel trays for their solar farms.

Data Centre Expansion Fuelling High-Density Cabling Needs

As global internet traffic increases, the number of hyperscale data centres is rising fast, notably in North America, India, and Southeast Asia. In April 2024, Meta announced investment in a hyperscale facility in Chennai, India, where advanced cable trays with better airflow management are being deployed, accelerating the cable trays market opportunities. Tray systems in these environments are engineered to handle high-density cabling, thermal management, and rapid scaling. Vendors are responding with perforated trays for superior ventilation and intelligent add-ons like temperature and load sensors.

Smart Cities and Digital Infrastructure Driving Tray Upgrades

Smart cities are prioritising efficient utility grids and communication lines, especially across transport, surveillance, and emergency networks. Projects like Saudi Arabia's NEOM and Singapore's Smart Nation have integrated tray systems beneath roads and structures for discreet yet accessible cable management. In many cases, lightweight aluminium trays and channel systems are preferred due to reduced load bearing on infrastructure. Smart trays with RFID tagging and maintenance alerts are also being trialled, enabling predictive maintenance and fewer manual interventions. These cable trays market developments are transforming cable trays into active components in a city's digital architecture.

Manufacturing Sector Embracing Modular and Fire-Rated Trays

Cable trays with modular assemblies and built-in fire resistance have become standard in such facilities. Fire-rated trough trays with thermally protected coatings are being installed in sectors like chemicals, where temperature fluctuations and corrosive agents pose operational risks. The United States National Fire Protection Association (NFPA) has also updated standards, encouraging wider adoption of fire-tested tray systems. With manufacturers focusing on rapid installation and safer maintenance access, modular tray kits are growing in popularity, especially across APAC.

Innovations in Tray Materials and Finishing Technologies

Traditional galvanisation is being replaced or enhanced by hybrid coatings that resist both mechanical stress and chemical corrosion. For instance, Hot-Dip Galvanised (HDG) trays with zinc-aluminium alloys are gaining traction in marine and mining applications. Companies are launching nano-coating solution for trays used in semiconductor fabs to prevent particulate contamination, widening the cable trays market scope. This reflects a growing trend toward material science innovation within the cable tray market. Lightweight composites are also being explored for aerospace hangars and tunnels, where conventional materials fall short on electromagnetic shielding and weight optimisation.

Global Cable Trays Industry Segmentation

The EMR's report titled "Global Cable Trays Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

- Ladder type
- Solid Bottom
- Trough Cable Tray
- Channel Cable Tray
- Wire Mesh
- Others

Key Insight: Ladder-type trays are dominating due to their structural strength and ventilation capabilities in high-load, high-heat environments. Wire mesh trays are rapidly scaling, particularly within tech-led infrastructure like hyperscale data hubs.
Solid-bottom trays continue to serve in sensitive cabling scenarios where EMI protection is vital, such as defence and broadcast installations. Trough trays find use in clean aesthetics-driven environments, including healthcare and interior fit-outs.

Market Breakup by Material

- Aluminium
- Steel
- Stainless Steel

Key Insight: Aluminium trays hold the largest share, owing to their lightweight, corrosion-resistant profile, favoured in solar farms, ports, and green buildings. Stainless steel is growing fastest due to its performance in extreme settings like chemical plants and deep-sea rigs. Steel remains widely adopted in cost-sensitive, general-purpose industrial environments. Material selection across projects now aligns less with cost alone, and more with safety norms, environmental exposure, and lifecycle durability, pushing manufacturers to expand multi-material product portfolios targeting region-specific industrial demands.

Market Breakup by Finishing

- Galvanised Coatings
- Pre-Galvanised
- Hot-Dip Galvanised

Key Insight: Hot-dip galvanised trays maintain their lead in the cable trays industry due to rugged coating thickness and weatherproofing, especially across rail, mining, and power grid projects. Pre-galvanised variants are gaining momentum in the fast-moving commercial and retrofit segments where aesthetics and lightweight design are key. Other finishes like powder-coated and hybrid layers are entering niche uses, ranging from cleanrooms to food processing zones, where additional hygiene, abrasion resistance, or colour-coding are project requirements. Decision-makers are increasingly treating finish as a functional enabler rather than a visual choice.

Market Breakup by Application

- Power
- Construction
- Manufacturing
- IT and Telecommunication
- Others

Key Insight: Power generation and transmission continue to lead in the cable trays market dynamics due to increasing electrification, grid redundancy efforts, and renewable rollouts. IT and telecom is the fastest growing, with investments in cloud infrastructure, 5G, and server architecture fuelling demand for thermally efficient, modular tray systems. Manufacturing, construction, and emerging segments like transportation and logistics are diversifying demand, requiring trays that balance fire resistance, easy install, and retrofitting flexibility. Applications now demand both load performance and integration with evolving digital and operational architectures.

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Key Insight: Asia Pacific dominates the global market, fuelled by urbanisation, industrial corridors, and expanding utility grids. The

Middle East and Africa show the fastest growth, backed by large-format smart city and energy diversification projects. Europe maintains solid share due to manufacturing modernisation and ESG-driven construction. North America continues strong on data centre and smart grid upgrades. Latin America contributes steadily, with infrastructure renewal and telecom expansions shaping adoption.

Global Cable Trays Market Share

By Type, Ladder Type Tray Register the Largest Share of the Market due to High Ventilation Capacity

Ladder-type trays remain the most preferred type due to their high load-bearing capacity and superior ventilation for power cables. Ideal for industrial and utility-scale installations, these trays offer rapid heat dissipation, critical in data centres and renewable energy plants. In offshore wind projects, especially across Northern Europe, ladder trays are being paired with corrosion-resistant coatings to withstand extreme weather. Their easy configurability for vertical and horizontal runs is making them a go-to choice for electrical contractors managing complex layouts.

Wire mesh trays are fast gaining expanding shares in the cable trays market revenue, particularly across IT and telecom sectors. Their lightweight construction and flexibility make them suitable for retrofit and underfloor installations. Their open architecture supports better airflow and simplifies re-routing during infrastructure upgrades. As green buildings grow in popularity, architects are favouring wire mesh trays for their clean aesthetics and recyclable material base, positioning this segment for significant near-term growth.

By Material, Aluminium Trays Secure the Largest Share owing to Lightweight and Anti-Corrosion Features

Aluminium trays dominate the cable trays industry for their corrosion resistance and lightweight build. Used widely across commercial construction, solar farms, and marine applications, these trays reduce structural load while maintaining durability. Their recyclability also aligns well with green building mandates, especially under the LEED and BREEAM frameworks. Countries like Australia and Canada are increasingly shifting towards aluminium systems for their above-ground utility projects.

Stainless steel trays are recording rapid growth in the cable trays market, especially across petrochemical, mining, and offshore platforms. These trays offer superior mechanical strength and resistance to both corrosion and fire, making them indispensable for safety-critical installations. As inspection standards tighten, stainless steel trays are being bundled with anti-theft and smart monitoring features, ensuring longevity and compliance across high-risk sectors. This shift is strengthening the segment's position as a future-facing solution for hostile environments.

By Finishing, Hot-Dip Galvanised Coatings Clock in the Dominant Share Due to Superior Outdoor Resistance

Hot-dip galvanised trays are most favoured finishing category in outdoor and exposed applications. With thicker zinc coating offering long-term protection against rust, these trays dominate infrastructure and utility projects. In the United Kingdom's Crossrail project, HDG trays were deployed in ventilation shafts and tunnels to meet longevity standards. Their reliability under fluctuating temperature and moisture conditions makes them essential in renewable energy and utility-grade transmission systems. These trays are also compliant with IEC and ASTM standards, assuring buyers of high quality and performance across critical infrastructure builds.

Pre-galvanised trays are emerging as the fastest-growing finishing type boosting demand in the cable trays market, largely due to their cost advantage and clean aesthetic appeal. Commonly used in commercial buildings, retail infrastructure, and low-humidity zones, they balance corrosion resistance with ease of fabrication. With fast-paced urban development in markets like Southeast Asia and Latin America, demand for pre-galvanised trays has surged in indoor cable distribution applications.

By Application, the Power Sector Dominates the Market Due to Grid Expansion Demands

The power sector accounts for the largest share in the global cable trays market, driven by the urgent need to expand, modernise, and secure energy transmission networks. Cable trays in this segment offer robust routing for high-voltage and low-voltage lines, ensuring uninterrupted power flow. Governments worldwide are investing in grid digitalisation and transmission redundancy, prompting large-scale adoption of heavy-duty trays, especially in substations and wind farms.

The IT and telecom sector is seeing rapid adoption of cable trays due to booming data centre construction, 5G rollout, and smart infrastructure expansion. Wire mesh and perforated trays are ideal for these high-density setups, offering efficient cable airflow and easy maintenance. Modular tray systems that allow for quick re-routing and scalability are also gaining favour in this sector. In modern server farms and telecom exchanges, trays now often come with smart load indicators and RFID-based monitoring systems.

Global Cable Trays Market Regional Analysis

Asia Pacific Secure the Largest Market Share Due to Industrialisation and Infrastructure Boom

Asia Pacific dominates the cable trays market, primarily due to aggressive investments in infrastructure, energy, and manufacturing. Countries like India, China, and Indonesia are rapidly deploying industrial parks, metro rail networks, and smart grid systems. These developments require complex electrical installations, where cost-effective and corrosion-resistant trays are critical. Governments in the region are pushing domestic manufacturing and renewable energy integration.

The Middle East and Africa cable trays market boasts significant growth due to mega infrastructure projects such as NEOM, Lusail City, and the UAE's clean energy agenda. In such large-scale developments, cable trays are integral to both electrical and fibre optic routing. With a harsh desert environment, stainless steel and HDG trays with enhanced coatings are being widely adopted. Meanwhile, African economies are upgrading utility infrastructure and telecom sectors, creating fresh demand. Smart city ambitions, paired with rising foreign investments in industrial estates, are propelling the market forward with a focus on reliability and scalability.

Competitive Landscape

Key cable trays market players are focusing on innovation, durability, and smart integrations. A growing number of players are offering trays with built-in sensors, corrosion-resistant coatings, and tool-free installations to reduce labour time and improve lifecycle value. Opportunities lie in smart city projects, modular infrastructure, and renewable energy installations, sectors where tray requirements are evolving from static metal supports to intelligent cable routing systems.

Most of the cable trays companies are also entering strategic partnerships with EPC contractors and data centre builders to tailor offerings. Environmental compliance, recyclability, and lightweight designs are key areas of product differentiation. Companies that are integrating IoT-based diagnostics, offering cloud-connected tray monitoring, or introducing hybrid material blends stand to gain significant traction. With safety norms and installation costs under scrutiny, innovations that ensure long-term performance while cutting time on-site are winning attention. Market leaders are also exploring emerging markets in Southeast Asia and Sub-Saharan Africa for volume growth.

Schneider Electric

Established 1836, headquartered in Rueil-Malmaison, France, Schneider Electric offers intelligent cable tray solutions through its

Universal Enclosures division. Known for modularity and smart integration, its cable trays are used in energy-efficient data centres and industrial automation setups. The firm focuses on digital twin compatibility and quick-fit tray systems that reduce installation effort, supporting the cable trays market growth.

Hubbell Incorporated

Hubbell Incorporated, founded in 1888, headquartered in Shelton, Connecticut, United States, serves power and industrial customers with a robust range of cable trays under its Hubbell Wiring Device-Kellems line. Its latest innovation includes prefabricated tray supports designed for seismic compliance. The company also offers hot-dip galvanised trays with patented impact-resistant designs for oil and gas facilities.

Legrand SA

Found in 1865, Legrand is renowned for aesthetic and smart cable management systems, catering primarily to the IT, telecom, and commercial building sectors. Through its Cablofil brand, it pioneered wire mesh tray designs now widely used in data centres. Its trays come with snap-in accessories and integrated partitioning for efficient cable segregation.

Eaton Corporation plc

Headquartered in Ireland and founded in 1911, Eaton offers an extensive line of cable trays through its B-Line series, focusing on heavy-duty and seismic-rated applications. Its latest launches include tool-less ladder trays and snap-on fittings that significantly reduce field labour. Eaton is also incorporating AR/VR tools for tray design and layout planning.

Other key players in the market include Basor Electric Ltd, and Chalfant Manufacturing Co., among others.

Key Highlights of the Global Cable Trays Market Report:

- Comprehensive historical assessment and forward-looking forecasts until 2034 for precise market positioning.
- Evaluation of smart tray innovations including integrated load sensors, IoT-enabled diagnostics, and hybrid-coated materials.
- Competitive benchmarking featuring manufacturers introducing seismic-rated, fire-retardant, and anti-microbial tray solutions.
- Region-specific infrastructure trends highlighting growth corridors in smart city, offshore energy, and hyperscale data projects.
- Capital deployment insights for EPC contractors, OEMs, and utility stakeholders targeting resilient, modular cable management systems.
- Granular segmentation of the cable trays market report across materials, finishes, and applications tailored for rapid deployment and long-span installations.

Why Rely on Expert Market Research?

- Decades of cross-industry insight from infrastructure, power systems, and industrial automation experts.
- Custom reports shaped by real-time stakeholder needs and engineering-specific cable routing applications.
- Primary interviews with on-ground installation experts and procurement leads from global and regional projects.
- Data-backed strategy tools enabling actionable, location-aware decisions for manufacturers and system integrators.

Call to Action

Explore the latest trends shaping the global cable trays market 2025-2034 with our in-depth report. Gain strategic insights, future forecasts, and key market developments that can help you stay competitive. Download a free sample report or contact our team for customised consultation on cable trays market trends 2025 .

Table of Contents:

13.5.1 Schneider Electric
13.5.1.1 Company Overview
13.5.1.2 Product Portfolio
13.5.1.3 Demographic Reach and Achievements
13.5.1.4 Certifications
13.5.2 Hubbell Incorporated
13.5.2.1 Company Overview
13.5.2.2 Product Portfolio
13.5.2.3 Demographic Reach and Achievements
13.5.2.4 Certifications
13.5.3 Legrand SA
13.5.3.1 Company Overview
13.5.3.2 Product Portfolio
13.5.3.3 Demographic Reach and Achievements
13.5.3.4 Certifications
13.5.4 Eaton Corporation plc
13.5.4.1 Company Overview
13.5.4.2 Product Portfolio
13.5.4.3 Demographic Reach and Achievements
13.5.4.4 Certifications
13.5.5 Basor Electric Ltd
13.5.5.1 Company Overview
13.5.5.2 Product Portfolio
13.5.5.3 Demographic Reach and Achievements
13.5.5.4 Certifications
13.5.6 Chalfant Manufacturing Co.
13.5.6.1 Company Overview
13.5.6.2 Product Portfolio
13.5.6.3 Demographic Reach and Achievements
13.5.6.4 Certifications
13.5.7 Others

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