

Global Automotive Wiring Harness Protection Tubes and Sleeves Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Wiring Harness Protection Tubes and Sleeves market size was valued at US\$ 2216 million in 2025 and is forecast to a readjusted size of US\$ 2903 million by 2032 with a CAGR of 3.8% during review period.

Automotive wiring harness protection tubes and sleeves are functional protective materials used to cover, route, insulate and protect vehicle wire harnesses. Typical product forms include plastic corrugated tubes, smooth tubes, braided sleeves, self-closing sleeves, expandable sleeves, heat-shrink tubing and heat-reflective sleeves. Their key functions include abrasion resistance, impact protection, thermal insulation, flame retardancy, noise damping, moisture and dust resistance, oil and chemical resistance, EMI shielding and orange identification for high-voltage harnesses. Upstream materials include PP, PE, PA6, PA12, PET, PPS, TPE, cross-linked polyolefin, fiberglass, basalt fiber, silicone rubber, aluminum-laminated materials, flame retardants, masterbatches and polymer modifiers. Downstream applications include low-voltage harnesses, high-voltage harnesses, battery-pack harnesses, engine-compartment harnesses, chassis harnesses, ADAS sensor harnesses and cockpit harnesses in ICE vehicles, hybrid vehicles, EVs, commercial vehicles. As vehicles become more electrified, connected and software-defined, harness protection products are evolving from low-cost coverings into safety-critical components that support durability, routing efficiency and vehicle-level reliability.

In 2025, global automotive wiring harness protection tubes and sleeves production reached approximately 7 million kilometers, with an average global market price is \$300 per kilometer.

Market Drivers: The automotive wiring harness protection tubes and sleeves market is mainly driven by vehicle electrification, intelligent vehicle development, increasing onboard electronic systems, and higher vehicle safety requirements. In new energy vehicles, high-voltage wiring harnesses, battery packs, charging systems, electric drive systems, and thermal management systems are increasing demand for abrasion-resistant, flame-retardant, heat-resistant, EMI-shielding, orange-identification, and highly reliable harness protection solutions. The growth of advanced driver assistance systems, smart cabins, sensors, cameras, radars, and domain controllers is also making low-voltage and signal harness systems more complex, driving higher usage and performance requirements for corrugated tubes, braided sleeves, self-closing sleeves, heat-shrink tubes, thermal insulation sleeves, and shielding sleeves.

Market Restraints: Some basic products in the automotive wiring harness protection tube and sleeve market, such as standard plastic corrugated tubes, general braided sleeves, heat-shrink tubes, and spiral wraps, have relatively limited technical barriers and a large number of suppliers, resulting in strong price competition. Continuous cost-reduction pressure from OEMs and Tier-1 harness manufacturers, combined with fluctuations in resin, engineering plastics, fiberglass, aramid fiber, copper wire, aluminum foil, and other raw material prices, may compress margins for mid- and low-end products. At the same time, automotive qualification cycles are long, and requirements differ significantly by vehicle model, regional regulation, and harness location, including temperature rating, flame retardancy, abrasion resistance, oil resistance, chemical resistance, low odor, low VOC, and EMI shielding. This leads to fragmented specifications, longer development cycles, and more complex inventory and tooling management. For new energy vehicle high-voltage harnesses, in-pack battery harnesses, and high-temperature engine-bay areas, products must also meet stricter safety, durability, and vehicle-level validation requirements, making it difficult for smaller suppliers to enter high-end supply systems.

Market Opportunities: Future opportunities in automotive wiring harness protection tubes and sleeves will mainly come from high-value vehicle platforms and upgraded protection solutions. New energy vehicles, hybrid vehicles, 800V high-voltage platforms, high-power fast charging, intelligent driving, smart cabins, and steer-by-wire or brake-by-wire chassis systems will drive growth in heat-resistant sleeves, flame-retardant halogen-free sleeves, EMI-shielding sleeves, lightweight braided sleeves, self-closing quick-installation sleeves, orange high-voltage identification sleeves, and battery-pack-specific protection sleeves. As vehicle wiring harnesses move toward lightweight, modular, platform-based, and automated assembly designs, protection tubes and

sleeves are no longer simple covering components. They increasingly need to provide mechanical protection, thermal protection, electrical safety, electromagnetic compatibility, harness organization, and assembly-efficiency improvement. Suppliers with capabilities in material modification, structural design, flame-retardant and temperature-resistance validation, EMI-shielding solutions, automation compatibility, and co-development with OEMs will be better positioned to enter high-value new energy vehicle and intelligent vehicle supply chains.

Report Scope

This report is a detailed and comprehensive analysis for global Automotive Wiring Harness Protection Tubes and Sleeves market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive Wiring Harness Protection Tubes and Sleeves market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/K Meter), 2021-2032

Global Automotive Wiring Harness Protection Tubes and Sleeves market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/K Meter), 2021-2032

Global Automotive Wiring Harness Protection Tubes and Sleeves market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/K Meter), 2021-2032

Global Automotive Wiring Harness Protection Tubes and Sleeves market shares of main players, shipments in revenue (\$ Million), sales quantity (K Meter), and ASP (US\$/K Meter), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Wiring Harness Protection Tubes and Sleeves

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Wiring Harness Protection Tubes and Sleeves market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Tenneco, Delfingen, JDDTECH, Relats, HellermannTyton, Techflex, Tresse Industrie, Murrplastik Systemtechnik, Shenzhen Woer Heat-shrinkable Material Co., Ltd., TE Connectivity, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive Wiring Harness Protection Tubes and Sleeves market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Plastic Protection Tubes

Braided Sleeve

Textile Sleeve

Others

Market segment by Material

PP

Nylon

PET

Others

Market segment by Vehicle

Internal Combustion Engines

New Energy Vehicles

Market segment by Application

Body & Cabin Harness

Engine Compartment & Powertrain Harness

EV High-Voltage & Battery-Pack Harness

Chassis & Underbody Harness

Others

Major players covered

Tenneco

Delfingen

JDDTECH

Relats

HellermannTyton

Techflex

Tresse Industrie

Murrplastik Systemtechnik

Shenzhen Woer Heat-shrinkable Material Co., Ltd.

TE Connectivity

Sumitomo Electric Industries

DSG-Canusa

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Automotive Wiring Harness Protection Tubes and Sleeves product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Wiring Harness Protection Tubes and Sleeves, with price, sales quantity, revenue, and global market share of Automotive Wiring Harness Protection Tubes and Sleeves from 2021 to 2026.

Chapter 3, the Automotive Wiring Harness Protection Tubes and Sleeves competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Wiring Harness Protection Tubes and Sleeves breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automotive Wiring Harness Protection Tubes and Sleeves market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Wiring Harness Protection Tubes and Sleeves.

Chapter 14 and 15, to describe Automotive Wiring Harness Protection Tubes and Sleeves sales channel, distributors, customers, research findings and conclusion.

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