

North America Flexible Electrical Conduit Market By Trade Size (? to 1, 1? to 2, 2? to 3, 3 to 4, 5 to 6, Others), By Configuration (Flexible Metallic (FMC), Liquid-Tight Flexible Metal (LFMC), Flexible Metallic Tubing (FMT), Liquid-Tight Flexible Non-Metallic (LFNC)), By Application (Rail Infrastructure, Military Aerospace, Healthcare Facilities, Process Plants, Energy, Others), By End Use (Residential, Commercial, Industrial, Utility), By Country, Competition, Forecast and Opportunities, 2020-2030F

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Abstracts

Market Overview

The North America Flexible Electrical Conduit Market was valued at USD 782.51 million in 2024 and is projected to reach USD 1109.26 million by 2030, growing at a CAGR of 5.99% during the forecast period. The market is witnessing substantial growth driven by increasing developments in the construction, industrial, and automotive sectors. Flexible electrical conduits are essential for protecting electrical wiring from moisture, abrasion, and mechanical damage, and are widely utilized in residential, commercial, and industrial applications. Rising construction activity, particularly in emerging urban areas across North America, is fueling the demand for secure and efficient electrical systems.

As the focus on energy-efficient installations intensifies, builders are turning to flexible conduit solutions that offer long-term durability and lower maintenance.

These conduits are increasingly deployed in challenging environments such as industrial plants, data centers, and renewable energy projects that demand high-performance electrical systems. The proliferation of solar and wind installations also supports market expansion due to the adaptability of flexible conduits in such infrastructures. Furthermore, the rise of smart home technology and retrofitting of older buildings with modern systems continues to propel market growth. Collectively, these factors are driving steady and sustained demand for flexible electrical conduits across North America.

Key Market Drivers

Growth of the Construction Industry

The rapid expansion of the North American construction industry is a leading factor driving the flexible electrical conduit market. As both residential and commercial developments increase, so does the demand for reliable electrical infrastructure. Flexible conduits are preferred for their adaptability, ease of installation, and superior protection capabilities in various construction settings. These conduits can conform to complex building designs and comply with evolving safety standards.

The need for resilient wiring systems that withstand physical and environmental stresses is growing alongside green building initiatives and energy-efficient construction practices. Materials like PVC, steel, and aluminum offer the durability and compliance needed in modern structures. As construction standards evolve to include sustainability and safety, flexible conduits are becoming integral components. The trend is reflected in the U.S. Census Bureau's report showing over USD 1.4 trillion in new housing units authorized in 2023, signaling substantial growth opportunities for electrical infrastructure, including conduit systems.

Key Market Challenges

Rising Raw Material Costs

The escalating cost of raw materials presents a major challenge for the North America Flexible Electrical Conduit Market. Key manufacturing inputs such as PVC, steel, thermoplastic elastomers, and aluminum have seen considerable price volatility influenced by global supply chain disruptions, trade regulations, and commodity fluctuations. These rising costs place pressure on manufacturers' margins and can lead to higher prices for end-users, affecting market competitiveness—especially in cost-

sensitive sectors like residential construction.

Unpredictable pricing makes planning and budgeting difficult, discouraging investment and hindering production consistency. Moreover, sourcing disruptions or shortages can delay manufacturing and delivery timelines. The volatile pricing of materials like PVC resin further complicates long-term strategic planning for conduit producers, creating challenges that require adaptive sourcing strategies and material innovation to maintain market stability.

Key Market Trends

Growing Adoption of Sustainable Materials

A significant trend shaping the North America Flexible Electrical Conduit Market is the increasing shift toward environmentally sustainable materials. As sustainability gains momentum across construction and manufacturing sectors, conduit producers are incorporating recyclable and eco-friendly materials such as thermoplastics and low-impact PVC into their products. This aligns with tightening environmental regulations and building standards across the region.

Manufacturers are also responding to rising consumer and regulatory demands by exploring alternatives like high-density polyethylene (HDPE), which maintains durability while reducing environmental impact. These sustainable innovations meet green building requirements and appeal to environmentally conscious developers. As demand for energy-efficient and low-emission materials continues to rise, sustainable flexible conduits are expected to play a central role in shaping future market dynamics.

Key Market Players

General Electric Company

Panduit Corporation

Schneider Electric SE

ABB Ltd.

Legrand S.A.

Emerson Electric Co.

Southwire Company, LLC

Kidde-Fenwal, Inc.

Report Scope:

In this report, the North America Flexible Electrical Conduit Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

North America Flexible Electrical Conduit Market, By Trade Size:

? to 1"

1? to 2"

2? to 3"

3 to 4"

5 to 6"

Others

North America Flexible Electrical Conduit Market, By Configuration:

Flexible Metallic (FMC)

Liquid-Tight Flexible Metal (LFMC)

Flexible Metallic Tubing (FMT)

Liquid-Tight Flexible Non-Metallic (LFNC)

North America Flexible Electrical Conduit Market, By Application:

Rail Infrastructure

Military Aerospace

Healthcare Facilities

Process Plants

Energy

Others

North America Flexible Electrical Conduit Market, By End Use:

Residential

Commercial

Industrial

Utility

North America Flexible Electrical Conduit Market, By Country:

United States

Canada

Mexico

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North America Flexible Electrical Conduit Market.

Available Customizations:

North America Flexible Electrical Conduit Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. NORTH AMERICA FLEXIBLE ELECTRICAL CONDUIT MARKET OUTLOOK

- 5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Trade Size (? to 1, 1? to 2, 2? to 3, 3 to 4, 5 to 6, Others)

5.2.2. By Configuration (Flexible Metallic (FMC), Liquid-Tight Flexible Metal (LFMC), Flexible Metallic Tubing (FMT), Liquid-Tight Flexible Non-Metallic (LFNC))

5.2.3. By Application (Rail Infrastructure, Military Aerospace, Healthcare Facilities, Process Plants, Energy, Others)

5.2.4. By End Use (Residential, Commercial, Industrial, Utility)

5.2.5. By Country (United States, Canada, Mexico)

5.2.6. By Company (2024)

5.3. Market Map

6. UNITED STATES FLEXIBLE ELECTRICAL CONDUIT MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Trade Size

6.2.2. By Configuration

6.2.3. By Application

6.2.4. By End Use

7. CANADA FLEXIBLE ELECTRICAL CONDUIT MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Trade Size

7.2.2. By Configuration

7.2.3. By Application

7.2.4. By End Use

8. MEXICO FLEXIBLE ELECTRICAL CONDUIT MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Trade Size

8.2.2. By Configuration

8.2.3. By Application

8.2.4. By End Use

9. MARKET DYNAMICS

9.1. Drivers

9.2. Challenges

10. MARKET TRENDS & DEVELOPMENTS

10.1. Merger & Acquisition (If Any)

10.2. Product Launches (If Any)

10.3. Recent Developments

11. COMPANY PROFILES

11.1. General Electric Company

11.1.1. Business Overview

11.1.2. Key Revenue and Financials

11.1.3. Recent Developments

11.1.4. Key Personnel/Key Contact Person

11.1.5. Key Product/Services Offered

11.2. Panduit Corporation

11.3. Schneider Electric SE

11.4. ABB Ltd.

11.5. Legrand S.A.

11.6. Emerson Electric Co.

11.7. Southwire Company, LLC

11.8. Kidde-Fenwal, Inc.

12. STRATEGIC RECOMMENDATIONS

13. ABOUT US & DISCLAIMER

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