

North America Commercial Scale Non-Metal Electrical Conduit Market By Trade Size (? to 1, 1 ? to 2, 2 ? to 3, 3 to 4, 5 to 6, Others), By Configuration (Polyvinyl Chloride (PVC), Reinforced Thermosetting Resin (RTRC/FRE), Rigid Non-Metallic (RNC), Electrical Non-Metallic Tubing (ENT)), By Country, Competition, Forecast and Opportunities, 2020-2030F

<https://marketpublishers.com/r/NC19EE4A5BC6EN.html>

Date: May 2025

Pages: 120

Price: US\$ 4,000.00 (Single User License)

ID: NC19EE4A5BC6EN

Abstracts

Market Overview

The North America Commercial Scale Non-Metal Electrical Conduit Market was valued at USD 123.59 million in 2024 and is projected to reach USD 192.99 million by 2030, registering a CAGR of 7.71% during the forecast period. This market segment encompasses the use of non-metallic conduit systems—primarily made of polyvinyl chloride (PVC), fiberglass, and high-density polyethylene (HDPE)—to safeguard and manage electrical wiring within commercial properties. These conduit types offer distinct benefits over traditional metal systems, such as resistance to corrosion, chemicals, and moisture, making them suitable for applications in data centers, hospitals, retail centers, and educational facilities. Their lighter weight and simplified installation process reduce labor costs and enhance construction efficiency. With commercial construction expanding due to urbanization, technological advancements, and retrofitting needs, non-metal conduits are gaining traction for their durability, compatibility with smart and green infrastructure, and compliance with safety regulations. Additionally, the growing importance of digital systems and sustainable practices is accelerating adoption across the region.

Key Market Drivers

Expansion of Commercial Real Estate Construction Projects Across Urban Centers

The robust development of commercial infrastructure in metropolitan areas throughout North America is significantly increasing the demand for non-metal electrical conduits. Cities such as Austin, Toronto, and Chicago are experiencing rapid urban expansion, creating high-volume demand for efficient and durable wiring protection systems. Commercial projects—including office towers, healthcare institutions, educational buildings, and data centers—are favoring non-metal conduit solutions for their corrosion resistance, ease of handling, and reduced labor requirements. The appeal of PVC and fiberglass conduits lies in their lightweight nature and resilience in moist and chemically active environments. These features make them especially suitable for modern, energy-efficient buildings. Additionally, labor constraints in the construction sector are encouraging the shift to non-metal systems that simplify installation. Supported by favorable financing, smart city initiatives, and demand for digital-ready buildings, the commercial real estate boom continues to strengthen demand for these conduit systems.

Key Market Challenges

Limitations in Mechanical Strength and Load-Bearing Capacity

A key challenge in the North America commercial non-metal electrical conduit market lies in the reduced mechanical strength and load tolerance of non-metal conduit systems compared to metallic alternatives. Non-metal options like PVC and fiberglass are more prone to cracking or deformation under mechanical stress or repeated vibration, especially in high-impact environments such as industrial plants or transport terminals. These performance limitations restrict their suitability for structurally demanding applications, where reliability and durability are critical. Designers and engineers often resort to hybrid systems or revert to metal conduits when mechanical performance cannot be compromised. Moreover, regulatory requirements and insurance standards may favor systems with higher impact resistance, further limiting exclusive use of non-metal conduits. Until material innovations address these durability concerns at a competitive cost, adoption in mechanically intensive commercial environments may remain constrained.

Key Market Trends

Rising Preference for Lightweight and Flexible Conduit Solutions in Modular

Construction

The increasing adoption of modular and prefabricated construction methods across North America is accelerating demand for lightweight and flexible non-metal conduit solutions. These conduits—particularly those made from PVC and HDPE—are ideal for modular environments where quick installation, design flexibility, and ease of handling are essential. As modular construction becomes more prevalent in commercial sectors such as healthcare, education, and retail, non-metal conduit systems are being integrated into prefabricated electrical assemblies to streamline project timelines. Manufacturers are developing pre-lubricated and tool-free connection products, tailored to meet modular construction requirements. The combination of reduced weight, cost-efficiency, and adaptability is positioning non-metal conduits as a key component in modern, scalable, and energy-efficient commercial building practices.

Key Market Players

Atkore Inc.

ABB Ltd.

Eaton Corporation plc

Southwire Company, LLC

HellermannTyton Group PLC

Legrand SA

Dura-Line Corporation

Prime Conduit, Inc.

Report Scope:

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

North America Commercial Scale Non-Metal Electrical Conduit Market, By Trade Size:

? t%li%1

1 ? t%li%2

2 ? t%li%3

3 t%li%4

5 t%li%6

Others

North America Commercial Scale Non-Metal Electrical Conduit Market, By Configuration:

Polyvinyl Chloride (PVC)

Reinforced Thermosetting Resin (RTRC/FRE)

Rigid Non-Metallic (RNC)

Electrical Non-Metallic Tubing (ENT)

North America Commercial Scale Non-Metal Electrical Conduit Market, By Country:

United States

Canada

Mexico

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North

North America Commercial Scale Non-Metal Electrical Conduit Market By Trade Size (? to 1, 1 ? to 2, 2 ? to 3,...

America Commercial Scale Non-Metal Electrical Conduit Market.

Available Customizations:

North America Commercial Scale Non-Metal 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 COMMERCIAL SCALE NON-METAL 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 (Polyvinyl Chloride (PVC), Reinforced Thermosetting Resin (RTRC/FRE), Rigid Non-Metallic (RNC), Electrical Non-Metallic Tubing (ENT))

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

5.2.4. By Company (2024)

5.3. Market Map

6. UNITED STATES COMMERCIAL SCALE NON-METAL 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

7. CANADA COMMERCIAL SCALE NON-METAL 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

8. MEXICO COMMERCIAL SCALE NON-METAL 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

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. Atkore Inc.

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. ABB Ltd.

11.3. Eaton Corporation plc

11.4. Southwire Company, LLC

11.5. HellermannTyton Group PLC

11.6. Legrand SA

11.7. Dura-Line Corporation

11.8. Prime Conduit, Inc.

12. STRATEGIC RECOMMENDATIONS

13. ABOUT US & DISCLAIMER

I would like to order

Product name: North America Commercial Scale Non-Metal Electrical Conduit Market By Trade Size (? to 1, 1 ? to 2, 2 ? to 3, 3 to 4, 5 to 6, Others), By Configuration (Polyvinyl Chloride (PVC), Reinforced Thermosetting Resin (RTRC/FRE), Rigid Non-Metallic (RNC), Electrical Non-Metallic Tubing (ENT)), By Country, Competition, Forecast and Opportunities, 2020-2030F

Product link: <https://marketpublishers.com/r/NC19EE4A5BC6EN.html>

Price: US\$ 4,000.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/NC19EE4A5BC6EN.html>