

# North America Aircraft Wiring Harness Market Forecast to 2030 - Regional Analysis - by Type (Wire Harness Terminal, Wire Harness Connector, and Others) and Material (PVC, Polyethylene, Polyurethane, Thermoplastic Elastomers, and Vinyl)

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## Abstracts

The North America aircraft wiring harness market is expected to grow from US\$ 721.64 million in 2022 to US\$ 1,237.04 million by 2030. It is estimated to register a CAGR of 7.0% from 2022 to 2030.

### Rise in Demand for Commercial Aircraft Boost North America Aircraft Wiring Harness Market

The number of commercial aircraft is increasing significantly worldwide. Commercial airline operators are maximizing the utilization of their aircraft to meet growing passenger demand for air travel. As more people choose air travel, airlines operate more flights with shorter turnaround times between departures. This increased flight frequency demands aircraft maintenance to ensure safe and reliable operations. According to the World Bank, the number of air passengers reached ~2.07 billion in 2021, including ~21.8 million departures recorded by registered air carriers. Moreover, according to the report World Bank, ~205,267 million ton-km freight was moved by air transport in 2022. In comparison to 2021, ~1.6 billion passengers were carried through air transport, and ~17.9 million departures were recorded by registered air carriers in 2020. Furthermore, ~171,582 million ton-km freight was moved by air transport, according to the same report. To carry current and electronic signals from the nose to the tail of an aircraft, the aircraft wire harness assembly plays a crucial role in maintaining smooth operations. From the fuselage harness to the power distribution assembly, wire harness makers create intricate electrical harnesses and harness

assemblies, enabling the operating and controlling of almost every aircraft component. Therefore, with the growing demand for commercial aircraft, the demand for aircraft wiring harnesses is also increasing, which boosts market growth.

## North America Aircraft Wiring Harness Market Overview

The North America aircraft wiring harness market is segmented into the US, Canada, and Mexico. The growing demand for cockpit replacement and electrification of various aircraft systems is one of the main elements propelling the expansion of the market. Electric technology saves fuel consumption while providing a reliable power supply for aircraft. Electrically powered systems are a viable alternative to mechanically powered engine accessories, pumps, and generators. Over the last few decades, aircraft systems have undergone revolutionary design and power distribution improvements. Companies such as Boeing (US), Bombardier (Canada), and Airbus (France) are developing electrical systems to replace older systems to maximize aircraft performance and reduce maintenance costs. Airbus started developing hybrid-electric propulsion systems in September 2021. The Airbus Flight Lab helicopter has begun flight tests with a backup engine system that serves as an emergency electrical power supply. Thus, the increase in aircraft electrification propels the growth of the aircraft wiring harness market. North America reported a 51.6% increase in air traffic in March 2023 compared to 2022. The capacity of carrying passengers surged by 34.0% during the mentioned period, which can be attributed to focus on adopting more aircraft in the region. Moreover, the expansion of the terminal building at Kelowna International Airport (YLW) in Canada is scheduled to start in the summer of 2023. The Kelowna City Council approved US\$ 90 million for the expansion.

Further, as of February 2023, the scope of airport development plans across the US was substantially expanding due to recent changes to federal funding programs. Chicago O'Hare International Airport, one of the busiest airports in the world, has revealed plans to expand for US\$ 7.1 billion. Its oldest passenger facility will be demolished, and a new terminal will be built. Another massive project was announced for the Sacramento International Airport. The various stages of this program are expected to cost US\$ 1.3 billion. A greater range of passenger services will be consolidated, and airport facilities will be expanded through six development projects. All these plans will be carried out through several construction phases from 2024 to 2027. Thus, the development of airport facilities is expected to propel the growth of the aircraft wiring harness market in the region.

## North America Aircraft Wiring Harness Market Revenue and Forecast to 2030 (US\$

Million)

## North America Aircraft Wiring Harness Market Segmentation

The North America aircraft wiring harness market is segmented into type, material, and country.

Based on type, the North America aircraft wiring harness market is segmented into wire harness terminal, wire harness connector, and others. The wire harness terminal segment held the largest share of the North America aircraft wiring harness market in 2022.

In terms of material, the North America aircraft wiring harness market is segmented into PVC, polyethylene, polyurethane, thermoplastic elastomers, and vinyl. The PVC segment held the largest share of the North America aircraft wiring harness market in 2022.

Based on country, the North America aircraft wiring harness market is segmented into the US, Canada, and Mexico. The US dominated the North America aircraft wiring harness market in 2022.

Collins Aerospace, GKN Aerospace Services Ltd, Heritage Aviation Pvt Ltd, Interconnect Solutions Company LLC, Latecoere SA, Safran SA, Samvardhana Motherson International Ltd, and Steinair Inc are some of the leading companies operating in the North America aircraft wiring harness market.

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