

# How Has Rise in Digitalization Expanded the Scope of the U.S. Cables and Wires for Aerospace and Defense Industry?

*U.S. Cables and Wires for Aerospace and Defense Market Expected to Reach \$6.6 Billion by 2032*

WILMINGTON, DE, UNITED STATES, March 5, 2025 /EINPresswire.com/ -- The aerospace and defense sector has witnessed tremendous growth in the last few years due to a rise in the integration of digital technologies. The growing defense budgets of developed countries such as the U.S. have contributed to the expansion of the industry. As a result, the demand for different types of cables and wires has surged drastically. These power lines act as critical infrastructure for data transmission, communication, and electricity distribution across different platforms, including military systems, naval warships, space shuttles, and aircraft.



U.S. Cables And Wires for Aerospace and Defense Market Size

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The leading application of the U.S. Cables and Wires for Aerospace and Defense Market is in the field of military aerospace.”

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In the last few years, many new private aerospace, defense, and space exploration companies have emerged

in the U.S. This has led to an increase in investments in advanced cables and wires that enhance the efficiency and productivity of the operations being conducted by aircraft crew and defense forces. The most important advantage of these high-tech power lines is their ability to withstand harsh weather conditions and extreme climates. The U.S. is a vast geographical entity with

physiological features ranging from snow-clad mountains to hot and humid beaches along the east and west coasts. Thus, the annual temperature range in certain places in the country varies from -30°C to 40°C. To help defense and aerospace companies operate seamlessly in such diverse conditions, telecom equipment manufacturers have started developing cables with durable insulation materials.

Another important trend in the U.S. cables and wires for the aerospace and defense industry is the emergence of customized aerospace and defense-graded cable assemblies. These products are designed as per the needs of the client, thus helping aerospace and defense companies maintain their unique protocols and operating standards. The rise in threats of cyberattacks and malware intrusions has increased focus on the security and safety of data, thereby enhancing the importance of customized cables and wires.

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The mergers and acquisition deals signed by several leading players are anticipated to help the [U.S. Cables And Wires for Aerospace and Defense Market](#) to gather a revenue of \$6.6 billion by 2032. The market accounted for \$4.4 billion in 2023 and is predicted to rise at a CAGR of 3.9% during 2024-2032. Over the years, many defense contractors and aerospace businesses have established alliances with their peers to expand their footprint in the sector. For instance, in December 2024, Molex, a key electronics company, announced the acquisition of AirBorn, a defense and aerospace infrastructure developer. Over the last few decades, AirBorn has gained a reputation as a reliable manufacturer of electronic components and connectors for defense applications. The acquisition by Molex is, thus, predicted to create favorable conditions for the company's growth shortly.

Similarly, in February 2025, Marmon Aerospace & Defense Group, one of the largest companies in the U.S., announced that it had signed a definitive agreement to acquire Marine Tech Wire & Cable, Inc., an electrical wire and cable manufacturer. According to the press release issued by the company, Robert Canny, Senior Vice President at Marmon A&D Group, stated that the acquisition is estimated to help the company address the demands of the U.S. Navy ships for robust connectivity infrastructure seamlessly.

In conclusion, the expansion of the U.S. cables and wires for the aerospace and defense industry is attributed to the rise in the integration of advanced digital technologies in military and aerospace applications. Various advantages offered by high-tech power lines, such as flexibility, durability, data security, and protection against cyberattacks, are expected to boost the revenue share of the sector in the coming period. The strategic alliances established by multinational giants are projected to open new avenues for growth in the U.S. cables and wires for aerospace

and defense industry.

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