

# **RF Cable Assemblies & Jumpers Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Cable Type (Connector, Plug, Switch, Other), By End User (IT & Telecommunication, Defense, Automobile, Healthcare, Commercial, Others), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global RF Cable Assemblies & Jumpers Market is projected to expand from USD 4.36 Billion in 2025 to USD 6.48 Billion by 2031, reflecting a compound annual growth rate of 6.83%. These assemblies, which consist of coaxial cables terminated with connectors, are specialized interconnect solutions designed to transmit radio frequency signals with minimal loss between antennas and radio equipment. The primary catalysts for this growth include the widespread global deployment of 5G infrastructure, the surge in mobile data traffic, and the increasing integration of Internet of Things devices across various industries. These drivers create a need for durable and reliable connectivity systems capable of supporting denser network architectures and maintaining signal integrity in complex wireless environments.

According to data from 5G Americas, global 5G connections exceeded two billion in 2024, a milestone that underscores the immense scale of physical infrastructure and cabling components needed to support such rapid adoption. However, the market faces a significant obstacle in the form of volatile raw material prices, particularly for copper and high-performance dielectrics. This financial unpredictability leads to pricing instability for manufacturers and complicates the establishment of long-term supply agreements, potentially delaying vital capital expenditures in regions sensitive to price fluctuations.

## Market Driver

The aggressive rollout of 5G networks and telecommunications infrastructure acts as a primary driver for the Global RF Cable Assemblies & Jumpers Market. As network operators increase coverage density using small cells and massive MIMO antennas, the need for high-performance, low-loss interconnects becomes crucial for maintaining signal integrity across higher frequency bands. These specialized assemblies are vital for connecting baseband units to remote radio heads, ensuring reliable transmission within increasingly crowded spectral environments. The massive data throughput required by modern mobile networks highlights the necessity for robust physical layer infrastructure to support capacity growth. According to the Ericsson Mobility Report from November 2024, 5G networks are expected to handle 80% of global mobile data traffic by 2030, a trend that demands continuous upgrades to the cabling components underpinning these communication grids.

Simultaneously, rising investment in aerospace and defense communication systems is significantly boosting market demand. Modern military operations depend heavily on sophisticated Command, Control, Communications, Computers, and Intelligence (C4ISR) platforms, which require ruggedized RF assemblies capable of withstanding extreme conditions while delivering precise signal transmission for radar, navigation, and electronic warfare. Governments are prioritizing the modernization of these electronic backbones to ensure tactical superiority, directly driving the procurement of advanced interconnects. In March 2024, the U.S. Department of Defense requested \$21.1 billion for C4I systems in its Fiscal Year 2025 budget, reflecting a major commitment to upgrading connectivity assets. Additionally, IPC reported in January 2024 that global electronics manufacturers anticipated revenue growth of 9.5% for the year, signaling a positive outlook for the component supply chain driven by these critical sectors.

## Market Challenge

The main impediment to the expansion of the Global RF Cable Assemblies & Jumpers Market is the persistent volatility of raw material prices, particularly regarding copper and high-performance dielectrics. This fluctuation creates a financially precarious environment for manufacturers who depend heavily on these commodities for the production of coaxial cables and connectors. When input costs swing unpredictably, producers struggle to maintain stable pricing, often forcing them to pass increased costs on to customers or absorb losses that erode profit margins. Consequently, this instability complicates the negotiation of long-term supply agreements, making it difficult

for network operators to commit to the large-scale purchasing necessary for 5G and industrial IoT deployments.

This uncertainty significantly disrupts supply chain planning and delays critical infrastructure investments. The International Wrought Copper Council reported in October 2024 that global copper mine output was forecast to increase by only 1.6% for the year due to various supply disruptions. Such restricted production growth in the face of rising demand exacerbates the pricing instability that hampers the steady capital expenditures required for market growth, particularly in price-sensitive regions.

## **Market Trends**

The miniaturization of RF interconnects for compact electronics is significantly reshaping the component landscape, driven by the relentless demand for denser internal architectures in mobile devices and wearables. Manufacturers are focusing on the development of ultra-small, low-profile connectors that conserve printed circuit board space while preserving signal integrity in increasingly crowded, space-constrained environments. This strategic shift toward high-density packaging is evident in the financial results of major industry players. Amphenol Corporation reported in its 'Fourth Quarter 2024 Results' press release in January 2025 that the company achieved a 30% increase in sales compared to the prior year, a performance attributed in part to robust organic growth within the mobile devices market. This surge highlights the critical need for miniaturized cabling solutions to support the next generation of portable electronic hardware.

At the same time, the market is undergoing a decisive transition toward millimeter-wave frequency cable assemblies, necessitated by the deployment of 5G Advanced and early 6G infrastructure operating in bands above 24 GHz. These high-frequency applications require specialized interconnects engineered with advanced dielectrics to minimize insertion loss and ensure phase stability, particularly in dense urban deployments where signal propagation is difficult. The acceleration of this technology is most pronounced in regions that are aggressively upgrading their wireless grids. In its 'Annual Report 2024' released in March 2025, Huber+Suhner reported that net sales in the Asia-Pacific region increased by 26.0%, a growth trajectory driven by the strong uptake of communication connectivity solutions. This substantial regional expansion indicates a growing reliance on high-performance RF assemblies capable of sustaining the rigorous demands of millimeter-wave transmission.

## **Key Market Players**

TE Connectivity Ltd.

Radiall GmbH

Aptiv Plc

Rosenberg GmbH

W. L. Gore & Associates

Lighthouse Technologies Inc.

Molex LLC

Amphenol RF

Pasternack Enterprises Inc.

Samtec Inc.

## Report Scope

In this report, the Global RF Cable Assemblies & Jumpers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### RF Cable Assemblies & Jumpers Market, By Cable Type

Connector

Plug

Switch

Other

### RF Cable Assemblies & Jumpers Market, By End User

IT & Telecommunication

Defense

Automobile

Healthcare

Commercial

Others

## RF Cable Assemblies & Jumpers Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global RF Cable Assemblies & Jumpers Market.

## **Available Customizations:**

Global RF Cable Assemblies & Jumpers 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).

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