

Hybrid Fiber Optic Connectors Market Size, Share & Trends Analysis Report By Application (Telecom, Oil & Gas, Military & Aerospace), By Region (North America, Europe), And Segment Forecasts, 2023 - 2030

<https://marketpublishers.com/r/H79868F2C28EN.html>

Date: January 2023

Pages: 100

Price: US\$ 4,950.00 (Single User License)

ID: H79868F2C28EN

Abstracts

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Hybrid Fiber Optic Connectors Market Growth & Trends

The global hybrid fiber optic connectors market size is expected to reach USD 1,400.3 million by 2030, according to a new report by Grand View Research, Inc. The market is anticipated to expand at a CAGR of 6.8% from 2023 to 2030. The growing demand for a safer, spark-free medium for implementation in hazardous areas such as aircraft fuel cells and other applications that contain volatile gases is driving the need for hybrid fiber optic connectors.

These connectors are primarily deployed in extreme environmental conditions and settings as they possess features such as resistance to dirt or dust, chemical, submersion, vibration, and humidity. The demand for high-performance fiber optic connectors is rising in order to assure adequate environmental, mechanical, and optical performance in various industries, such as military & aerospace, oil & gas, safety & security, civil engineering, railways, power & utility, and others.

Hybrid fiber optic connectors save installation time, network complexity, and cost, which leads to new possibilities for 4G/5G applications, wireless/cell tower small cell/DAS installations, fixed wireless access, offshore energy, extended distances, and more. For instance, in March 2022, TE Connectivity, a manufacturer of electronic components in

Europe, launched an innovative hybrid inline connector that allows ease of manufacturing for OEMs, simplifies supply chain complexity, reduces the number of connections, and reduces cost.

Military and aerospace systems operate in hostile environments and inclement weather, which are responsible for the increased demand for robust fiber optic interconnects and extended beam connectors with lower susceptibility. For instance, in March 2022, W. L. Gore & Associates, Inc., a manufacturer of waterproof, breathable Gore-Tex fabrics, released GORE Fiber Optic Cables with high impact resistance to aggressive chemicals, abrasion, scrapes, and undesirable fluids that aircraft typically experience during maintenance activities and complex installation.

Market players are upgrading connectors that provide rugged, dependable, and user-friendly connectivity solutions for various applications to increase productivity. For instance, in February 2019, Fischer Connectors Inc., a manufacturer of electronic connectors in Europe, expanded its Fischer FiberOptic Series with a revolutionary hybrid connector that combines two fiber channels and two electrical contacts in a single small package to offer high-quality fiber optic solutions.

The Asia Pacific region is expected to be the fastest-growing market, owing to the rapid improvements in manufacturing practices and infrastructure development activities which have contributed to the swift uptake of hybrid fiber optic technology in end-use industries such as automotive, manufacturing, and railway sector in the region.

Hybrid Fiber Optic Connectors Market Report Highlights

The growing demand for improved optical performance and other attributes, such as mechanical and environmental constraints, operating conditions, maintenance plans, and reliability requirements, is expected to drive hybrid fiber optic connectors market demand in the coming years

The increasing adoption of contemporary manufacturing policies and infrastructure development gears in the Asia-Pacific region is expected to provide new growth opportunities over the forecast period

The military & aerospace segment dominated the market and accounted for the largest revenue share of over 33.4% in 2022. The increased demand for high-speed data transfer is expected to drive the use of fiber frameworks in the military and aerospace segment

North America dominated the market and accounted for a revenue share of over 34.3% in 2022, owing to the availability of high government funding, the presence of leading players in the region, and a strong technical adoption base

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