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Global Double-Clad Photonic Crystal Fiber Market Growth 2026-2032

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Abstracts

The global Double-Clad Photonic Crystal Fiber market size is predicted to grow from US$ 16.13 million in 2025 to US$ 25.59 million in 2032; it is expected to grow at a CAGR of 7.0% from 2026 to 2032.

Double-clad photonic crystal fiber (DC-PCF) is a specialized type of optical fiber featuring a photonic crystal microstructure cladding design and a dual-layer cladding structure (comprising an inner and an outer cladding). It achieves optical field confinement through a photonic crystal structure formed by an array of air holes, while utilizing the double-clad design to facilitate efficient pump light coupling and laser signal transmission.

The upstream segment of the industry chain primarily includes high-purity quartz glass preforms, rare-earth dopants (such as ytterbium, erbium, and thulium), high-purity chemical raw materials, precision fiber drawing equipment, fiber coating materials, and equipment for manufacturing microstructured preforms; among these, photonic crystal microstructure design and preform fabrication are critical factors determining product performance. The midstream segment involves the R&D and manufacturing of DC-PCFs, utilizing processes such as microstructured preform processing, fiber drawing, double-clad structure design, rare-earth doping, and high-precision coating to produce fibers for high-power laser and fiber amplification applications. The downstream segment primarily encompasses applications in laser transmission, fiber-optic sensing, and optical communications.

In 2025, the global sales volume of double-clad photonic crystal fibers is projected to reach 33,730 meters, with a production capacity of approximately 48,100 meters; the average selling price is estimated at $489 per meter, and the average gross profit

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margin ranges from 35% to 45%.

Double-clad photonic crystal fibers are primarily used in high-power fiber lasers and fiber amplifiers—representing the largest segment of market demand—and serve a wide range of industrial sectors, including laser cutting, laser welding, additive manufacturing (3D printing), and precision micromachining. Meanwhile, the advancement of aerospace, defense equipment, LiDAR, ultrafast laser technology, and scientific instrumentation has driven a continuous rise in the demand for high power, superior beam quality, and low-nonlinearity transmission performance, serving as the primary engine for market growth.

LP Information, Inc. (LPI) ' newest research report, the “Double-Clad Photonic Crystal Fiber Industry Forecast” looks at past sales and reviews total world Double-Clad Photonic Crystal Fiber sales in 2025, providing a comprehensive analysis by region and market sector of projected Double-Clad Photonic Crystal Fiber sales for 2026 through 2032. With Double-Clad Photonic Crystal Fiber sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Double-Clad Photonic Crystal Fiber industry.

This Insight Report provides a comprehensive analysis of the global Double-Clad Photonic Crystal Fiber landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Double-Clad Photonic Crystal Fiber portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Double-Clad Photonic Crystal Fiber market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Double-Clad Photonic Crystal Fiber and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Double-Clad Photonic Crystal Fiber.

This report presents a comprehensive overview, market shares, and growth opportunities of Double-Clad Photonic Crystal Fiber market by product type, application, key manufacturers and key regions and countries.

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Segmentation by Type:

Active-Doped Type

Passive Type

Segmentation by Light-Guiding Mechanism:

Total Internal Reflection Type

Photonic Bandgap Type

Segmentation by Core Diameter:

20–30 ?m

30–50 ?m

Segmentation by Application:

Laser Transmission

Fiber-Optic Sensing

Optical Communication

Others

This report also splits the market by region:

Americas

United States

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- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa

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Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NKT Photonics

GLOphotonics

YOFC

YSL Photonics

Yangtze Optical Electronic

FORC-Photonics

fiberware GmbH

Key Questions Addressed in this Report

What is the 10-year outlook for the global Double-Clad Photonic Crystal Fiber market?

What factors are driving Double-Clad Photonic Crystal Fiber market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Double-Clad Photonic Crystal Fiber market opportunities vary by end market size?

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How does Double-Clad Photonic Crystal Fiber break out by Type, by Application?

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