

# Global Double-Clad Photonic Crystal Fiber Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G6EF84C94741EN.html>

Date: August 2026

Pages: 91

Price: US\$ 3,480.00 (Single User License)

ID: G6EF84C94741EN

## Abstracts

According to our (Global Info Research) latest study, the global Double-Clad Photonic Crystal Fiber market size was valued at US\$ 16.97 million in 2025 and is forecast to a readjusted size of US\$ 26.31 million by 2032 with a CAGR of 6.5% during review period.

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 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.

This report is a detailed and comprehensive analysis for global Double-Clad Photonic Crystal Fiber market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Double-Clad Photonic Crystal Fiber market size and forecasts, in consumption value (\$ Million), sales quantity (Meters), and average selling prices (US\$/Meter), 2021-2032

Global Double-Clad Photonic Crystal Fiber market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Meters), and average selling prices (US\$/Meter), 2021-2032

Global Double-Clad Photonic Crystal Fiber market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Meters), and average selling prices (US\$/Meter), 2021-2032

Global Double-Clad Photonic Crystal Fiber market shares of main players, shipments in revenue (\$ Million), sales quantity (Meters), and ASP (US\$/Meter), 2021-2026

#### The Primary Objectives in This Report Are:

*Global Double-Clad Photonic Crystal Fiber Market 2026 by Manufacturers, Regions, Type and Application, Forecas...*

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Double-Clad Photonic Crystal Fiber

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Double-Clad Photonic Crystal Fiber market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NKT Photonics, GLOphotonics, YOFC, YSL Photonics, Yangtze Optical Electronic, FORC-Photonics, fiberware GmbH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Double-Clad Photonic Crystal Fiber market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Active-Doped Type

Passive Type

### Market segment by Light-Guiding Mechanism

Total Internal Reflection Type

Photonic Bandgap Type

## Market segment by Core Diameter

20?30 ?m

30?50 ?m

## Market segment by Application

Laser Transmission

Fiber-Optic Sensing

Optical Communication

Others

## Major players covered

NKT Photonics

GLOphotonics

YOFC

YSL Photonics

Yangtze Optical Electronic

FORC-Photonics

fiberware GmbH

## Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Double-Clad Photonic Crystal Fiber product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Double-Clad Photonic Crystal Fiber, with price, sales quantity, revenue, and global market share of Double-Clad Photonic Crystal Fiber from 2021 to 2026.

Chapter 3, the Double-Clad Photonic Crystal Fiber competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Double-Clad Photonic Crystal Fiber breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Double-Clad Photonic Crystal Fiber market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Double-Clad Photonic Crystal Fiber.

Chapter 14 and 15, to describe Double-Clad Photonic Crystal Fiber sales channel, distributors, customers, research findings and conclusion.

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