

Optical Waveguide Market by Type (Planar, Channel), Material (Glass, Polymer, Semiconductor), Propagation (Single-mode, Multi-mode), Refractive Index (Step-index, Graded-index), Interconnect Level, End-user Industry and Region – Global Forecast to 2028

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Abstracts

The Optical Waveguide Market is projected to grow from USD 6.6 billion in 2023 and is projected to reach USD 9.5 billion by 2028; it is expected to grow at a CAGR of 7.3% from 2023 to 2028.

The growth of this market is driven by factors such as technological advancements in photonic integrated circuits (PICs), rising number of data centers worldwide, surging demand for high bandwidth.

“The chip- and board-level optical interconnect segment is projected to grow at high CAGR during the forecast period.”

The chip- and board-level optical interconnect segment is projected to grow at high CAGR during the forecast period. The increasing requirement for co-packaged optics, processors, and optical transceivers with low power consumption and high data transmission rates drives the market growth. The increased popularity of parallel computing and the arrival of multicore processors and 3D chips are creating an increased demand for chip-and-board-level optical interconnects. They are becoming crucial to cope with various end-use industries' high computing speed requirements.

“North America will be one of the fastest growing region in optical waveguide market

during the forecast period”

North America is expected to be one of the fastest-growing region in the optical waveguide market during the forecast period. The proliferation of data center facilities across the US, Canada, and Mexico is expected to boost the optical waveguide market in the region. The data centers are extensively integrated with optical waveguide components such as transceivers, connectors, optical fibers, and amplifiers. These components help to interconnect two or more data center facilities located over a long distance and transfer large volumes of data with high data transmission speeds. According to Data Center Map, the number of colocation data centers in the US accounted for 1,851 across 50 states, of which 239 were in California, 187 facilities in Texas, and 112 facilities in Florida. The increasing deployment of newer data centers in the region will fuel the optical waveguide market growth during the forecast period.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry experts in the optical waveguide space. The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1 – 10%, Tier 2 – 20%, and Tier 3 – 70%

By Designation: C-level Executives – 30%, Directors –10%, and Others – 60%

By Region: North America –45%, Europe – 10%, Asia Pacific– 35%, and RoW – 10%

The report profiles key players in the optical waveguide market with their respective market ranking analysis. Prominent players profiled in this report are include Corning Incorporated (US), Sumitomo Electric Industries, Ltd. (Japan), Yangtze Optical Fibre and Cable Joint Stock Limited Company (YOFC) (China), Fujikura Ltd. (Japan), Prysmian Group (Italy), Furukawa Electric Co., Ltd. (Japan), Coherent Corp. (US), CommScope (US), Sterlite Technologies Limited (India), and DigiLens Inc. (US). Apart from these, Holographix (US), HC Photonics Corp. (Taiwan), Teem Photonics (France), Mitsubishi Chemical Group Corporation (Japan), Asahi Kasei Corporation (Japan), Birla Cable Ltd. (India), Optical Cable Corporation (US), and Belden Inc. (US) are among a few emerging companies in the optical waveguide market.

Research Coverage:

Optical Waveguide Market by Type (Planar, Channel), Material (Glass, Polymer, Semiconductor), Propagation (Sin...

This research report categorizes the optical waveguide market on the basis of type, material, propagation, refractive index, interconnect level, end-user industry and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the optical waveguide market and forecasts the same till 2028. Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the optical waveguide ecosystem.

Key Benefits of Buying the Report

The report would help leaders/new entrants in this market in the following ways:

1. This report segments the optical waveguide market comprehensively and provides the closest market size projection for all subsegments across different regions.
2. The report helps stakeholders understand the pulse of the market and provides them with information on key drivers, restraints, challenges, and opportunities for market growth.
3. This report would help stakeholders understand their competitors better and gain more insights to improve their position in the business. The competitive landscape section includes competitor ecosystem, product developments and launches, partnerships, and mergers and acquisitions.
4. The analysis of the top 27 companies, based on the market rank as well as the product footprint will help stakeholders visualize the market positioning of these key players.
5. Patent analysis, trade data, and technological trends that will shape the market in the coming years has also been covered in this report.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 OPTICAL WAVEGUIDE MARKET: SEGMENTATION

1.3.2 REGIONAL SCOPE

1.4 INCLUSIONS AND EXCLUSIONS

1.5 YEARS CONSIDERED

1.6 CURRENCY CONSIDERED

1.7 LIMITATIONS

1.8 STAKEHOLDERS

1.9 RECESSION ANALYSIS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 OPTICAL WAVEGUIDE MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Secondary sources

2.1.1.2 Key data from secondary research

2.1.2 PRIMARY DATA

2.1.2.1 Primary interviews with experts

2.1.2.2 Breakdown of primaries

2.1.2.3 Key data from primary sources

2.1.3 SECONDARY AND PRIMARY RESEARCH

2.1.3.1 Key industry insights

2.2 MARKET SIZE ESTIMATION

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY (SUPPLY SIDE):

REVENUE OF MARKET PLAYERS

2.2.1 BOTTOM-UP APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.2.1.1 Approach to derive market size using bottom-up analysis (demand side)

2.2.2 TOP-DOWN APPROACH

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.2.2.1 Approach to derive market share using top-down analysis (supply side)

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 6 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

2.5 IMPACT OF RECESSION

2.6 RISK ASSESSMENT

TABLE 1 RISK ASSESSMENT

2.7 RESEARCH LIMITATIONS

3 EXECUTIVE SUMMARY

3.1 RECESSION ANALYSIS

FIGURE 7 GDP GROWTH PROJECTIONS TILL 2023 FOR MAJOR ECONOMIES

FIGURE 8 REVENUE PROJECTIONS FOR OPTICAL WAVEGUIDE MARKET, 2019–2028

3.2 GROWTH RATE ASSUMPTIONS/FORECAST

FIGURE 9 CHANNEL WAVEGUIDE SEGMENT TO DOMINATE OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

FIGURE 10 GLASS SEGMENT TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD

FIGURE 11 SINGLE-MODE SEGMENT TO REGISTER HIGHER CAGR BETWEEN 2023 AND 2028

FIGURE 12 CHIP- AND BOARD-LEVEL OPTICAL INTERCONNECT SEGMENT TO REGISTER HIGHEST CAGR BETWEEN 2023 AND 2028

FIGURE 13 DATA CENTER & HIGH-PERFORMANCE COMPUTING (HPC) SEGMENT TO EXHIBIT HIGHEST CAGR FROM 2023 TO 2028

FIGURE 14 ASIA PACIFIC TO ACCOUNT FOR LARGEST SHARE OF OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS OPERATING IN OPTICAL WAVEGUIDE MARKET

FIGURE 15 GROWING DEPLOYMENT OF 5G TELECOMMUNICATION NETWORKS

4.2 OPTICAL WAVEGUIDE MARKET, BY TYPE

FIGURE 16 CHANNEL WAVEGUIDE SEGMENT TO HOLD LARGER SHARE OF OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

4.3 OPTICAL WAVEGUIDE MARKET, BY MATERIAL

FIGURE 17 GLASS SEGMENT TO HOLD LARGEST SHARE OF OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

4.4 OPTICAL WAVEGUIDE MARKET, BY PROPAGATION AND INTERCONNECT LEVEL

FIGURE 18 SINGLE-MODE AND METRO AND LONG-HAUL OPTICAL INTERCONNECT SEGMENTS TO HOLD LARGEST SHARES OF OPTICAL WAVEGUIDE MARKET IN 2023

4.5 OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY

FIGURE 19 TELECOMMUNICATIONS SEGMENT TO LEAD OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

4.6 OPTICAL WAVEGUIDE MARKET, BY REGION

FIGURE 20 ASIA PACIFIC TO HOLD LARGEST SHARE OF OPTICAL WAVEGUIDE MARKET IN 2023

4.7 OPTICAL WAVEGUIDE MARKET, BY COUNTRY

FIGURE 21 OPTICAL WAVEGUIDE MARKET IN CHINA TO REGISTER HIGHEST CAGR FROM 2023 TO 2028

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 22 OPTICAL WAVEGUIDE MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Rising number of data centers worldwide

5.2.1.2 Technological advancements in photonic integrated circuits (PICs)

5.2.1.3 Surging demand for high bandwidth

FIGURE 23 OPTICAL WAVEGUIDE MARKET: DRIVERS AND THEIR IMPACT

5.2.2 RESTRAINTS

5.2.2.1 Issues associated with designing and fabricating optical waveguides

FIGURE 24 OPTICAL WAVEGUIDE MARKET: RESTRAINTS AND THEIR IMPACT

5.2.3 OPPORTUNITIES

5.2.3.1 Growing deployment of 5G telecommunication networks

5.2.3.2 Rising investments in augmented/mixed reality (AR/MR) market

FIGURE 25 OPTICAL WAVEGUIDE MARKET: OPPORTUNITIES AND THEIR IMPACT

5.2.4 CHALLENGES

5.2.4.1 Challenges associated while embedding optical waveguide components into small circuits

FIGURE 26 OPTICAL WAVEGUIDE MARKET: CHALLENGES AND THEIR IMPACT

5.3 TECHNOLOGY ANALYSIS

5.3.1 OPTICAL WAVEGUIDE FABRICATION PROCESSES

5.3.1.1 Lithography

5.3.1.2 Microreplication

5.3.1.3 Photo-addressed method

5.4 VALUE CHAIN ANALYSIS

FIGURE 27 OPTICAL WAVEGUIDE MARKET: VALUE CHAIN ANALYSIS

5.5 ECOSYSTEM ANALYSIS

FIGURE 28 OPTICAL WAVEGUIDE MARKET: ECOSYSTEM ANALYSIS

TABLE 2 OPTICAL WAVEGUIDE ECOSYSTEM: COMPANIES AND THEIR ROLE

5.6 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 29 TRENDS AND DISRUPTIONS IN OPTICAL WAVEGUIDE MARKET

5.7 PORTER'S FIVE FORCES ANALYSIS

TABLE 3 OPTICAL WAVEGUIDE MARKET: PORTER'S FIVE FORCES ANALYSIS

5.7.1 INTENSITY OF COMPETITIVE RIVALRY

5.7.2 BARGAINING POWER OF SUPPLIERS

5.7.3 BARGAINING POWER OF BUYERS

5.7.4 THREAT OF SUBSTITUTES

5.7.5 THREAT OF NEW ENTRANTS

5.8 AVERAGE SELLING PRICE (ASP) ANALYSIS

TABLE 4 AVERAGE SELLING PRICE OF OPTICAL WAVEGUIDE COMPONENTS

FIGURE 30 AVERAGE SELLING PRICE OF OPTICAL FIBERS OFFERED BY MAJOR MARKET PLAYERS TO TOP THREE END-USER INDUSTRIES

TABLE 5 AVERAGE SELLING PRICE OF OPTICAL FIBERS OFFERED BY MAJOR MARKET PLAYERS TO TOP THREE END-USER INDUSTRIES

TABLE 6 AVERAGE SELLING PRICE OF OPTICAL TRANSCEIVERS BASED ON DATA RATES

5.9 CASE STUDY ANALYSIS

5.9.1 AIM PHOTONICS AND SPARK PHOTONICS TEAMED UP TO DEVELOP HANDS-ON EDUCATIONAL PHOTONIC INTEGRATED CIRCUIT (PIC) CHIP

5.9.2 ALMA TELECOM UPGRADED ITS NETWORK USING FTTP SOLUTION OFFERED BY CORNING INCORPORATED

5.9.3 COMMSCOPE HELPED E-FIBER COMMERCIALIZE FTTX NETWORKS IN NETHERLANDS

5.10 TRADE ANALYSIS

FIGURE 31 IMPORT DATA FOR HS CODE 900110, BY COUNTRY, 2017–2021

FIGURE 32 EXPORT DATA FOR HS CODE 900110, BY COUNTRY, 2017–2021

5.11 PATENT ANALYSIS

FIGURE 33 NUMBER OF PATENTS GRANTED PER YEAR, 2013–2022

FIGURE 34 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT

APPLICATIONS IN LAST 10 YEARS

TABLE 7 LIST OF TOP PATENT OWNERS IN LAST 10 YEARS

5.11.1 PATENT ANALYSIS

TABLE 8 LIST OF MAJOR PATENTS PERTAINING TO OPTICAL WAVEGUIDE MARKET

5.12 KEY CONFERENCES AND EVENTS, 2023–2024

TABLE 9 OPTICAL WAVEGUIDE MARKET: DETAILED LIST OF CONFERENCES AND EVENTS

5.13 TARIFF ANALYSIS

TABLE 10 MFN TARIFF FOR HS CODE 900110 EXPORTED BY US

TABLE 11 MFN TARIFF FOR HS CODE 900110 EXPORTED BY CHINA

5.14 STANDARDS AND REGULATORY LANDSCAPE

5.14.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 12 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.14.2 REGULATORY STANDARDS

5.14.2.1 International Organization for Standardization (ISO)/International Electrotechnical Commission (IEC)

5.14.2.2 International Telecommunication Union (ITU) Standards

5.14.3 GOVERNMENT REGULATIONS

5.14.3.1 US

5.14.3.2 Europe

5.14.3.3 China

5.14.3.4 India

5.15 KEY STAKEHOLDERS AND BUYING CRITERIA

5.15.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 35 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USER INDUSTRIES

TABLE 16 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USER INDUSTRIES (%)

5.15.2 BUYING CRITERIA

FIGURE 36 KEY BUYING CRITERIA FOR TOP THREE END-USER INDUSTRIES

TABLE 17 KEY BUYING CRITERIA FOR TOP THREE END-USER INDUSTRIES**6 OPTICAL WAVEGUIDE MARKET, BY TYPE****6.1 INTRODUCTION**

FIGURE 37 CHANNEL WAVEGUIDE SEGMENT TO DOMINATE OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

TABLE 18 OPTICAL WAVEGUIDE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 19 OPTICAL WAVEGUIDE MARKET, BY TYPE, 2023–2028 (USD MILLION)

6.2 PLANAR WAVEGUIDE

6.2.1 RISING DEMAND FOR OPTICAL TRANSCEIVERS IN DATA CENTERS

FIGURE 38 ASIA PACIFIC TO REGISTER HIGHEST CAGR IN OPTICAL WAVEGUIDE MARKET FOR PLANAR WAVEGUIDE SEGMENT DURING FORECAST PERIOD

TABLE 20 PLANAR WAVEGUIDE: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 21 PLANAR WAVEGUIDE: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3 CHANNEL WAVEGUIDE

6.3.1 GROWING USE OF CHANNEL WAVEGUIDES TO MEET LONG-DISTANCE AND HIGH-BANDWIDTH REQUIREMENTS

FIGURE 39 ASIA PACIFIC TO HOLD LARGEST SHARE OF OPTICAL WAVEGUIDE MARKET FOR CHANNEL WAVEGUIDE SEGMENT DURING FORECAST PERIOD

TABLE 22 CHANNEL WAVEGUIDE: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 23 CHANNEL WAVEGUIDE: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

6.4 UNIT SHIPMENTS OF OPTICAL WAVEGUIDE-BASED COMPONENTS

TABLE 24 OPTICAL WAVEGUIDE COMPONENT MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 25 OPTICAL WAVEGUIDE COMPONENT MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 26 OPTICAL FIBER MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 27 OPTICAL FIBER MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 28 OPTICAL FIBER MARKET, BY TYPE, 2019–2022 (MILLION FIBER KILOMETER)

TABLE 29 OPTICAL FIBER MARKET, BY TYPE, 2023–2028 (MILLION FIBER KILOMETER)

TABLE 30 OPTICAL WAVEGUIDE COMPONENT MARKET, BY TYPE, 2019–2022

(MILLION UNITS)

TABLE 31 OPTICAL WAVEGUIDE COMPONENT MARKET, BY TYPE, 2023–2028

(MILLION UNITS)

7 OPTICAL WAVEGUIDE MARKET, BY MATERIAL

7.1 INTRODUCTION

FIGURE 40 GLASS SEGMENT TO DOMINATE OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

TABLE 32 OPTICAL WAVEGUIDE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 33 OPTICAL WAVEGUIDE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

7.2 GLASS

7.2.1 GLASS-BASED OPTICAL WAVEGUIDES DELIVER HIGH PERFORMANCE IN EXTREME CONDITIONS

FIGURE 41 ASIA PACIFIC TO REGISTER HIGHEST CAGR IN OPTICAL WAVEGUIDE MARKET FOR GLASS SEGMENT DURING FORECAST PERIOD

TABLE 34 GLASS: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 35 GLASS: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

7.3 POLYMER

7.3.1 POLYMER-BASED OPTICAL WAVEGUIDES OFFER HIGH FLEXIBILITY

FIGURE 42 ASIA PACIFIC TO HOLD LARGEST SHARE OF OPTICAL WAVEGUIDE MARKET FOR POLYMER SEGMENT DURING FORECAST PERIOD

TABLE 36 POLYMER: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 37 POLYMER: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

7.4 SEMICONDUCTOR

7.4.1 SEMICONDUCTOR-BASED OPTICAL WAVEGUIDES USED IN PHOTONIC INTEGRATED CIRCUITS (PICS)

FIGURE 43 ASIA PACIFIC TO HOLD LARGEST SHARE OF OPTICAL WAVEGUIDE MARKET FOR SEMICONDUCTOR SEGMENT DURING FORECAST PERIOD

TABLE 38 SEMICONDUCTOR: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 39 SEMICONDUCTOR: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

8 OPTICAL WAVEGUIDE MARKET, BY PROPAGATION

8.1 INTRODUCTION

FIGURE 44 SINGLE-MODE SEGMENT TO DOMINATE OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

TABLE 40 OPTICAL WAVEGUIDE MARKET, BY PROPAGATION, 2019–2022 (USD MILLION)

TABLE 41 OPTICAL WAVEGUIDE MARKET, BY PROPAGATION, 2023–2028 (USD MILLION)

8.2 SINGLE-MODE

8.2.1 GROWING PREFERENCE FOR OPTICAL WAVEGUIDES WITH SINGLE-MODE PROPAGATION AMONG TELECOMMUNICATION COMPANIES

FIGURE 45 ASIA PACIFIC TO REGISTER HIGHEST CAGR IN OPTICAL WAVEGUIDE MARKET FOR SINGLE-MODE SEGMENT DURING FORECAST PERIOD

TABLE 42 SINGLE-MODE: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 43 SINGLE-MODE: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

8.3 MULTI-MODE

8.3.1 GROWING DEMAND FOR UNLIMITED BANDWIDTH CAPACITY

FIGURE 46 ASIA PACIFIC TO HOLD LARGEST SHARE OF OPTICAL WAVEGUIDE MARKET FOR MULTI-MODE SEGMENT DURING FORECAST PERIOD

TABLE 44 MULTI-MODE: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 45 MULTI-MODE: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

9 OPTICAL WAVEGUIDE MARKET, BY REFRACTIVE INDEX

9.1 INTRODUCTION

FIGURE 47 OPTICAL WAVEGUIDE MARKET, BY REFRACTIVE INDEX

9.2 STEP-INDEX

9.2.1 RISING USE OF STEP-INDEX IN SHORT-DISTANCE APPLICATIONS

9.3 GRADED-INDEX

9.3.1 RISING USE OF GRADED-INDEX FOR LOW ATTENUATION AND HIGHER BANDWIDTH SIGNAL TRANSMISSION

10 OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL

10.1 INTRODUCTION

FIGURE 48 CHIP- AND BOARD-LEVEL OPTICAL INTERCONNECT SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 46 OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL, 2019–2022 (USD MILLION)

TABLE 47 OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL, 2023–2028 (USD MILLION)

10.2 METRO AND LONG-HAUL OPTICAL INTERCONNECT

10.2.1 RISING ADOPTION OF METRO AND LONG-HAUL OPTICAL INTERCONNECTS IN TELECOMMUNICATION NETWORKS

FIGURE 49 ASIA PACIFIC TO REGISTER HIGHEST CAGR IN OPTICAL WAVEGUIDE MARKET FOR METRO AND LONG-HAUL OPTICAL INTERCONNECT SEGMENT DURING FORECAST PERIOD

TABLE 48 METRO AND LONG-HAUL OPTICAL INTERCONNECT: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 49 METRO AND LONG-HAUL OPTICAL INTERCONNECT: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

10.3 BOARD-TO-BOARD AND RACK-LEVEL OPTICAL INTERCONNECT

10.3.1 INCREASING DEMAND FOR BOARD-TO-BOARD AND RACK-LEVEL OPTICAL INTERCONNECTIONS FOR FAST AND ENERGY-EFFICIENT SYSTEMS
FIGURE 50 ASIA PACIFIC TO BE LARGEST OPTICAL WAVEGUIDE MARKET FOR BOARD-TO-BOARD AND RACK-LEVEL OPTICAL INTERCONNECT SEGMENT DURING FORECAST PERIOD

TABLE 50 BOARD-TO-BOARD AND RACK-LEVEL OPTICAL INTERCONNECT: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 51 BOARD-TO-BOARD AND RACK-LEVEL OPTICAL INTERCONNECT: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

10.4 CHIP- AND BOARD-LEVEL OPTICAL INTERCONNECT

10.4.1 SURGING USE OF CHIP- AND BOARD-LEVEL OPTICAL INTERCONNECTIONS IN DATA CENTERS

FIGURE 51 ASIA PACIFIC TO BE LARGEST OPTICAL WAVEGUIDE MARKET FOR CHIP- AND BOARD-LEVEL OPTICAL INTERCONNECT SEGMENT DURING FORECAST PERIOD

TABLE 52 CHIP- AND BOARD-LEVEL OPTICAL INTERCONNECT: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 53 CHIP- AND BOARD-LEVEL OPTICAL INTERCONNECT: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

11 OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY

11.1 INTRODUCTION

FIGURE 52 TELECOMMUNICATIONS SEGMENT TO LEAD OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

TABLE 54 OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 55 OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

11.2 TELECOMMUNICATIONS

11.2.1 COST EFFICIENCY, HIGHER BANDWIDTH, AND HIGHER SPEED THAN COPPER WAVEGUIDES

FIGURE 53 ASIA PACIFIC TO DOMINATE OPTICAL WAVEGUIDE MARKET FOR TELECOMMUNICATIONS SEGMENT DURING FORECAST PERIOD

TABLE 56 TELECOMMUNICATIONS: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 57 TELECOMMUNICATIONS: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

11.3 DATA CENTER & HIGH-PERFORMANCE COMPUTING (HPC)

11.3.1 GROWING USE OF OPTICAL WAVEGUIDES FOR HIGH-SPEED DATA TRANSMISSION

FIGURE 54 ASIA PACIFIC TO DOMINATE OPTICAL WAVEGUIDE MARKET FOR DATA CENTER & HIGH-PERFORMANCE COMPUTING (HPC) SEGMENT DURING FORECAST PERIOD

TABLE 58 DATA CENTER & HIGH-PERFORMANCE COMPUTING (HPC): OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 59 DATA CENTER & HIGH-PERFORMANCE COMPUTING (HPC): OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

11.4 MEDICAL

11.4.1 RISE IN BIO-COMPATIBLE OPTICAL WAVEGUIDES IN PHOTO MEDICAL APPLICATIONS

FIGURE 55 ASIA PACIFIC TO DOMINATE OPTICAL WAVEGUIDE MARKET FOR MEDICAL SEGMENT DURING FORECAST PERIOD

TABLE 60 MEDICAL: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 61 MEDICAL: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

11.5 METROLOGY

11.5.1 RISING ADOPTION OF OPTICAL WAVEGUIDE-BASED INSPECTION DEVICES

FIGURE 56 ASIA PACIFIC TO DOMINATE OPTICAL WAVEGUIDE MARKET FOR METROLOGY SEGMENT DURING FORECAST PERIOD

TABLE 62 METROLOGY: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 63 METROLOGY: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

11.6 AEROSPACE & DEFENSE

11.6.1 INCREASING MILITARY BUDGETS WORLDWIDE

FIGURE 57 ASIA PACIFIC TO DOMINATE OPTICAL WAVEGUIDE MARKET FOR AEROSPACE & DEFENSE SEGMENT DURING FORECAST PERIOD

TABLE 64 AEROSPACE & DEFENSE: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 65 AEROSPACE & DEFENSE: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

11.7 CONSUMER ELECTRONICS

11.7.1 ADVANCEMENTS IN AUGMENTED REALITY/MIXED REALITY (AR/MR) TECHNOLOGIES

FIGURE 58 ASIA PACIFIC TO DOMINATE OPTICAL WAVEGUIDE MARKET FOR CONSUMER ELECTRONICS SEGMENT DURING FORECAST PERIOD

TABLE 66 CONSUMER ELECTRONICS: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 67 CONSUMER ELECTRONICS: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

11.8 INDUSTRIAL

11.8.1 RISING ADOPTION OF OPTICAL WAVEGUIDE-BASED SENSORS IN INDUSTRIAL SENSING APPLICATIONS

FIGURE 59 ASIA PACIFIC TO DOMINATE OPTICAL WAVEGUIDE MARKET FOR INDUSTRIAL SEGMENT DURING FORECAST PERIOD

TABLE 68 INDUSTRIAL: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 69 INDUSTRIAL: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

11.9 OTHERS

TABLE 70 OTHERS: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 71 OTHERS: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

12 OPTICAL WAVEGUIDE MARKET, BY REGION

12.1 INTRODUCTION

FIGURE 60 ASIA PACIFIC TO DOMINATE OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

TABLE 72 OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 73 OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

12.2 NORTH AMERICA

12.2.1 NORTH AMERICA: RECESSION IMPACT

FIGURE 61 NORTH AMERICA: SNAPSHOT OF OPTICAL WAVEGUIDE MARKET

FIGURE 62 US TO DOMINATE NORTH AMERICAN OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

TABLE 74 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 75 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 76 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 77 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 78 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 79 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 80 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY PROPAGATION, 2019–2022 (USD MILLION)

TABLE 81 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY PROPAGATION, 2023–2028 (USD MILLION)

TABLE 82 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL, 2019–2022 (USD MILLION)

TABLE 83 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL, 2023–2028 (USD MILLION)

TABLE 84 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 85 NORTH AMERICA: OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

12.2.2 US

12.2.2.1 Rising investments in development of telecommunication and data center

infrastructures

12.2.3 CANADA

12.2.3.1 Growing demand for high-speed networking

12.2.4 MEXICO

12.2.4.1 Increasing internet penetration

12.3 EUROPE

12.3.1 EUROPE: RECESSION IMPACT

FIGURE 63 EUROPE: SNAPSHOT OF OPTICAL WAVEGUIDE MARKET

FIGURE 64 GERMANY TO DOMINATE EUROPEAN OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

TABLE 86 EUROPE: OPTICAL WAVEGUIDE MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 87 EUROPE: OPTICAL WAVEGUIDE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 88 EUROPE: OPTICAL WAVEGUIDE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 89 EUROPE: OPTICAL WAVEGUIDE MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 90 EUROPE: OPTICAL WAVEGUIDE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 91 EUROPE: OPTICAL WAVEGUIDE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 92 EUROPE: OPTICAL WAVEGUIDE MARKET, BY PROPAGATION, 2019–2022 (USD MILLION)

TABLE 93 EUROPE: OPTICAL WAVEGUIDE MARKET, BY PROPAGATION, 2023–2028 (USD MILLION)

TABLE 94 EUROPE: OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL, 2019–2022 (USD MILLION)

TABLE 95 EUROPE: OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL, 2023–2028 (USD MILLION)

TABLE 96 EUROPE: OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 97 EUROPE: OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

12.3.2 GERMANY

12.3.2.1 Strengthening of FTTH network under “Gigabit Strategy”

12.3.3 UK

12.3.3.1 Presence of large-scale telecommunication service providers

12.3.4 FRANCE

12.3.4.1 Increasing investments in deployment of submarine fiber network

12.3.5 REST OF EUROPE

12.4 ASIA PACIFIC

12.4.1 ASIA PACIFIC: RECESSION IMPACT

FIGURE 65 ASIA PACIFIC: SNAPSHOT OF OPTICAL WAVEGUIDE MARKET

FIGURE 66 CHINA TO DOMINATE ASIA PACIFIC OPTICAL WAVEGUIDE MARKET DURING FORECAST PERIOD

TABLE 98 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 99 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 100 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 101 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 102 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 103 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 104 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY PROPAGATION, 2019–2022 (USD MILLION)

TABLE 105 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY PROPAGATION, 2023–2028 (USD MILLION)

TABLE 106 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL, 2019–2022 (USD MILLION)

TABLE 107 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL, 2023–2028 (USD MILLION)

TABLE 108 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 109 ASIA PACIFIC: OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

12.4.2 CHINA

12.4.2.1 Increasing investments by Chinese telecommunication operators in deployment of 5G infrastructure

12.4.3 INDIA

12.4.3.1 Government-led initiatives to increase broadband connectivity across rural areas

12.4.4 JAPAN

12.4.4.1 Presence of prominent optical waveguide component manufacturers

12.4.5 SOUTH KOREA

12.4.5.1 Proliferation of data centers

12.4.6 REST OF ASIA PACIFIC

12.5 ROW

12.5.1 ROW: RECESSION IMPACT

TABLE 110 ROW: OPTICAL WAVEGUIDE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 111 ROW: OPTICAL WAVEGUIDE MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 112 ROW: OPTICAL WAVEGUIDE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 113 ROW: OPTICAL WAVEGUIDE MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 114 ROW: OPTICAL WAVEGUIDE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 115 ROW: OPTICAL WAVEGUIDE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 116 ROW: OPTICAL WAVEGUIDE MARKET, BY PROPAGATION, 2019–2022 (USD MILLION)

TABLE 117 ROW: OPTICAL WAVEGUIDE MARKET, BY PROPAGATION, 2023–2028 (USD MILLION)

TABLE 118 ROW: OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL, 2019–2022 (USD MILLION)

TABLE 119 ROW: OPTICAL WAVEGUIDE MARKET, BY INTERCONNECT LEVEL, 2023–2028 (USD MILLION)

TABLE 120 ROW: OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 121 ROW: OPTICAL WAVEGUIDE MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

12.5.2 MIDDLE EAST & AFRICA

12.5.2.1 Increasing data center establishments

12.5.3 SOUTH AMERICA

12.5.3.1 Rising investments in deployment of subsea communication cables

13 COMPETITIVE LANDSCAPE

13.1 OVERVIEW

13.1.1 OVERVIEW OF KEY GROWTH STRATEGIES ADOPTED BY MAJOR COMPANIES

TABLE 122 OVERVIEW OF KEY GROWTH STRATEGIES ADOPTED BY MAJOR COMPANIES**13.2 REVENUE ANALYSIS****FIGURE 67 OPTICAL WAVEGUIDE REVENUE ANALYSIS OF TOP FIVE COMPANIES, 2018–2022****13.3 MARKET SHARE ANALYSIS (2022)****TABLE 123 OPTICAL WAVEGUIDE MARKET: DEGREE OF COMPETITION****13.4 COMPANY EVALUATION MATRIX****13.4.1 STARS****13.4.2 EMERGING LEADERS****13.4.3 PERVASIVE PLAYERS****13.4.4 PARTICIPANTS****FIGURE 68 OPTICAL WAVEGUIDE MARKET: COMPANY EVALUATION MATRIX, 2022****13.5 STARTUP/ SMALL AND MEDIUM-SIZED ENTERPRISES (SME) EVALUATION MATRIX****TABLE 124 OPTICAL WAVEGUIDE MARKET: STARTUPS****13.5.1 PROGRESSIVE COMPANIES****13.5.2 RESPONSIVE COMPANIES****13.5.3 DYNAMIC COMPANIES****13.5.4 STARTING BLOCKS****FIGURE 69 STARTUP/SME EVALUATION MATRIX, 2022****TABLE 125 STARTUP/SME MATRIX: DETAILED LIST OF KEY STARTUPS****13.6 COMPETITIVE BENCHMARKING****TABLE 126 OPTICAL WAVEGUIDE MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SME****13.7 OPTICAL WAVEGUIDE MARKET: COMPANY FOOTPRINT****TABLE 127 COMPANY FOOTPRINT****TABLE 128 COMPANY TYPE FOOTPRINT****TABLE 129 COMPANY MATERIAL FOOTPRINT****TABLE 130 COMPANY PROPAGATION FOOTPRINT****TABLE 131 COMPANY INTERCONNECT LEVEL FOOTPRINT****TABLE 132 COMPANY END-USER INDUSTRY FOOTPRINT****TABLE 133 COMPANY REGIONAL FOOTPRINT****13.8 COMPETITIVE SCENARIO AND TRENDS****13.8.1 PRODUCT LAUNCHES****TABLE 134 PRODUCT LAUNCHES, 2019–2022****13.8.2 DEALS****TABLE 135 DEALS, 2019–2022**

14 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) *

14.1 KEY PLAYERS

14.1.1 CORNING INCORPORATED

TABLE 136 CORNING INCORPORATED: COMPANY OVERVIEW

FIGURE 70 CORNING INCORPORATED: COMPANY SNAPSHOT

TABLE 137 CORNING INCORPORATED: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 138 CORNING INCORPORATED: DEALS

TABLE 139 CORNING INCORPORATED: PRODUCT LAUNCHES

TABLE 140 CORNING INCORPORATED: OTHERS

14.1.2 SUMITOMO ELECTRIC INDUSTRIES, LTD.

TABLE 141 SUMITOMO ELECTRIC INDUSTRIES, LTD.: COMPANY OVERVIEW

FIGURE 71 SUMITOMO ELECTRIC INDUSTRIES, LTD.: COMPANY SNAPSHOT

TABLE 142 SUMITOMO ELECTRIC INDUSTRIES, LTD.:
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 143 SUMITOMO ELECTRIC INDUSTRIES, LTD.: DEALS

TABLE 144 SUMITOMO ELECTRIC INDUSTRIES, LTD.: PRODUCT LAUNCHES

14.1.3 YANGTZE OPTICAL FIBRE AND CABLE JOINT STOCK LIMITED COMPANY (YOFC)

TABLE 145 YANGTZE OPTICAL FIBRE AND CABLE JOINT STOCK LIMITED COMPANY (YOFC): COMPANY OVERVIEW

FIGURE 72 YANGTZE OPTICAL FIBRE AND CABLE JOINT STOCK LIMITED COMPANY (YOFC): COMPANY SNAPSHOT

TABLE 146 YANGTZE OPTICAL FIBRE AND CABLE JOINT STOCK LIMITED COMPANY (YOFC): PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 147 YANGTZE OPTICAL FIBRE AND CABLE JOINT STOCK LIMITED COMPANY (YOFC): DEALS

TABLE 148 YANGTZE OPTICAL FIBRE AND CABLE JOINT STOCK LIMITED COMPANY (YOFC): PRODUCT LAUNCHES

TABLE 149 YANGTZE OPTICAL FIBRE AND CABLE JOINT STOCK LIMITED COMPANY (YOFC): OTHERS

14.1.4 FUJIKURA LTD.

TABLE 150 FUJIKURA LTD.: COMPANY OVERVIEW

FIGURE 73 FUJIKURA LTD.: COMPANY SNAPSHOT

TABLE 151 FUJIKURA LTD.: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 152 FUJIKURA LTD.: DEALS

TABLE 153 FUJIKURA LTD.: PRODUCT LAUNCHES

TABLE 154 FUJIKURA LTD.: OTHERS

14.1.5 PRYSMIAN GROUP

TABLE 155 PRYSMIAN GROUP: COMPANY OVERVIEW

FIGURE 74 PRYSMIAN GROUP: COMPANY SNAPSHOT

TABLE 156 PRYSMIAN GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 157 PRYSMIAN GROUP: DEALS

TABLE 158 PRYSMIAN GROUP: PRODUCT LAUNCHES

TABLE 159 PRYSMIAN GROUP: OTHERS

14.1.6 FURUKAWA ELECTRIC CO., LTD.

TABLE 160 FURUKAWA ELECTRIC CO., LTD.: COMPANY OVERVIEW

FIGURE 75 FURUKAWA ELECTRIC CO., LTD.: COMPANY SNAPSHOT

TABLE 161 FURUKAWA ELECTRIC CO., LTD.: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 162 FURUKAWA ELECTRIC CO., LTD.: DEALS

TABLE 163 FURUKAWA ELECTRIC CO., LTD.: PRODUCT LAUNCHES

TABLE 164 FURUKAWA ELECTRIC CO., LTD.: OTHERS

14.1.7 COHERENT CORP. (FORMER II-VI INCORPORATED)

TABLE 165 COHERENT CORP.: COMPANY OVERVIEW

FIGURE 76 COHERENT CORP.: COMPANY SNAPSHOT

TABLE 166 COHERENT CORP.: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 167 COHERENT CORP.: DEALS

TABLE 168 COHERENT CORP.: PRODUCT LAUNCHES

TABLE 169 COHERENT CORP.: OTHERS

14.1.8 COMMSCOPE HOLDING COMPANY, INC.

TABLE 170 COMMSCOPE HOLDING COMPANY, INC.: COMPANY OVERVIEW

FIGURE 77 COMMSCOPE HOLDING COMPANY, INC.: COMPANY SNAPSHOT

TABLE 171 COMMSCOPE HOLDING COMPANY, INC.:
PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 172 COMMSCOPE HOLDING COMPANY, INC.: DEALS

TABLE 173 COMMSCOPE HOLDING COMPANY, INC.: PRODUCT LAUNCHES

14.1.9 STERLITE TECHNOLOGIES LIMITED

TABLE 174 STERLITE TECHNOLOGIES LIMITED: COMPANY OVERVIEW

FIGURE 78 STERLITE TECHNOLOGIES LIMITED: COMPANY SNAPSHOT

TABLE 175 STERLITE TECHNOLOGIES LIMITED: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 176 STERLITE TECHNOLOGIES LIMITED: DEALS

TABLE 177 STERLITE TECHNOLOGIES LIMITED: PRODUCT LAUNCHES

14.1.10 DIGILENS INC.

TABLE 178 DIGILENS INC.: COMPANY OVERVIEW

TABLE 179 DIGILENS INC.: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 180 DIGILENS INC.: DEALS

TABLE 181 DIGILENS INC.: PRODUCT LAUNCHES

14.2 OTHER PLAYERS

14.2.1 COVESION LTD.

14.2.2 HFCL

14.2.3 QUINSTAR TECHNOLOGY, INC.

14.2.4 AKSH OPTIFIBRE

14.2.5 ART PHOTONICS GMBH

14.2.6 RPG CABLES (DIVISION OF KEC INTERNATIONAL LIMITED)

14.2.7 MITSUBISHI CHEMICAL GROUP CORPORATION

14.2.8 ASAHI KASEI CORPORATION

14.2.9 BIRLA CABLE LTD.

14.2.10 ORBIS OY

14.2.11 AUXORA (SHENZHEN), INC.

14.2.12 BELDEN INC.

14.2.13 LS CABLE & SYSTEM LTD.

14.2.14 OPTICAL CABLE CORPORATION

14.2.15 HC PHOTONICS CORP.

14.2.16 HOLOGRAPHIX LLC

14.2.17 TEEM PHOTONICS

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

15 APPENDIX

15.1 DISCUSSION GUIDE

15.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

15.3 CUSTOMIZATION OPTIONS

15.4 RELATED REPORTS

15.5 AUTHOR DETAILS

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