

Indonesia Fiber Optic Cable Laying Construction



Overview

Centratama Group Completes More Than 2,500 Kilometers Of Optical This 2,500-kilometer optical fiber cable has connected more than 1,000 locations, of which.

Key Takeaways

Indonesia is rapidly expanding its fiber optic infrastructure, with major projects connecting thousands of sites across multiple islands and supporting 4G, 5G, and broadband growth. Recent Terrestrial Fiber Projects

PT Centratama Telekomunikasi Indonesia, a subsidiary of EdgePoint Group, has completed over 2,500 kilometers of fiber optic cables across 13 locations on Java, Sumatra, and North and South Sulawesi, connecting more than 1,000 sites, including 178 In-Building-Coverage (IBC) locations . This Fiber-to-the-Tower (FTTT) infrastructure enhances network performance, reduces latency, and supports 4G and 5G expansion, enabling mobile network operators to deliver faster, more reliable services at lower costs . Fiberization also supports high-data applications, IoT, edge computing, and smart manufacturing.

Underground and Urban Fiber Initiatives



Since 2024, Indonesian cities have accelerated underground fiber deployment and overhead cable clean-up programs. Jakarta, Bandung, Depok, Tangerang, Bekasi, and Makassar have initiated Integrated Utility Network Facilities (SJUT) and ducting projects to improve urban aesthetics, public safety, and network resilience . For example, Jakarta has reorganized hundreds of kilometers of overhead cables, while Makassar invested approximately IDR 33.4 billion for 15 km of SJUT routes, highlighting the economic scale of underground fiber construction . These initiatives are part of broader smart city and digital infrastructure strategies.

Offshore and Submarine Fiber Expansion

Indonesia's offshore fiber optic cable market is projected to grow at 8–11% annually from 2026 to 2035, driven by domestic data traffic, hyperscale data center expansion, and government programs like the Palapa Ring and national broadband initiatives . The market relies heavily on imported cable-lay vessels and specialized subsea equipment, with local content requirements encouraging partnerships with Indonesian-flagged vessels and marine engineering firms . Hyperscale content providers such as Google, Meta, Amazon, and Microsoft are expected to account for 40–50% of new submarine cable demand by 2030 .

Fixed Broadband and FTTH Deployment

Fixed broadband penetration in Indonesia remains relatively low at 17%, but initiatives aim to increase it to 30% by 2024, requiring approximately 28 million FTTH lines . Companies like Link Net are deploying PON-based FTTH networks across Java, Sumatra, Sulawesi, and Kalimantan, prioritizing cost-efficient passive optical networks over active HFC upgrades . These deployments support high-speed symmetric 10G PON bandwidth for government, enterprise, and residential users, ensuring scalability and future-proofing for 10G PON evolution .

Key Drivers and Challenges

- **Geography:** Indonesia's archipelagic nature increases construction complexity and costs .
- **Urban planning:** Overhead cable clean-up and ducting programs improve safety and aesthetics .
- **Technology adoption:** Fiber supports 4G/5G, IoT, edge computing, and smart city applications .
- **Regulatory and local content requirements:** Encourage domestic participation in submarine cable projects . Indonesia's fiber optic construction strategy combines terrestrial, underground, and submarine deployments to enhance connectivity, support digital transformation, and meet growing consumer and enterprise data demands.

Article Content

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Inside Indonesia's 2026 Underground Fiber Shift: How ...

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Communication Cable Systems Indonesia (CCSI) offerings : CCSI Distinguished and only submarine fiber optic cable manufacturer

Indonesia: Fibre-optic cables across an archipelago – Palapa Ring

Finances Building fibre-optic and wireless infrastructure across the world's largest archipelago was expensive and technically difficult.

10 Best Fiber Optic Installation Companies (2026 Updated)

Discover leading fiber optic installation companies offering high-speed, reliable solutions for your connectivity needs.

The FOA Reference For Fiber Optics -Outside Plant Construction ...

Outside Plant Construction Guide Introduction Review Of Fiber Optic Technology. Project Preparation And Guidelines. Underground

Indonesia Fiber Optic Cable Market (2025-2031) | Analysis & Forecast

6Wresearch actively monitors the Indonesia Fiber Optic Cable Market and publishes its comprehensive annual report, highlighting

Decoding the Complexities of Indonesia's Fiber Optic Infrastructure

Conclusion Indonesia's fiber optic infrastructure stands at a critical inflection point where rapid digital demand collides with structural

Top Fiber Optic Cable Manufacturing Companies in Indonesia

When exploring the Fiber Optic Cable Manufacturing industry in Indonesia, several key considerations emerge. The regulatory

Economic impacts of submarine fiber optic cables and broadband ...

Abstract This study explores the economic impact of the internet connectivity delivered by submarine fiber optic cables ("subsea

Top 10 Fiber Optical Cable Factories in Indonesia

In this article, we'll explore the top 10 fiber optic cable factories in Indonesia that are leading the charge in producing

Indonesia Fibre Optic Cables Market | Share & Revenue 2032

Indonesia's fibre optic cables market is poised for significant growth from 2026 to 2032, reflecting evolving industry trends and

Submarine Cable Systems: Products & Solutions | NEC

The AUG East is an 8,900 km submarine cable system connecting Singapore and Japan, with Brunei, Indonesia, Malaysia, the

Kontraktor Fiber Optik Terbaik & Profesional | PT. Indokarya Duta

Dengan pengalaman lebih dari 20 tahun, kami adalah kontraktor fiber optik yang dapat diandalkan untuk semua kebutuhan instalasi

FIBER OPTIC

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