Papua New Guinea Communication Optical Cable



Overview

Enhance Connectivity Today The 4700 km Coral Sea Cable System is a 40Tbps submarine fibre optic cable that brings next-generation connectivity to the peopl.

Key Takeaways

PNG's optical cable infrastructure is primarily managed by PNG DataCo and supported by the Coral Sea Cable System, providing high-speed international and domestic connectivity. Coral Sea Cable System (CS2)The Coral Sea Cable System (CS2) is a 4,700 km submarine fiber-optic cable linking Port Moresby in Papua New Guinea and Honiara in the Solomon Islands to Sydney, Australia, a major global internet hub. The system has a total capacity of 40 terabits per second, with each country able to access up to 20 terabits/sec if fully expanded.

CS2 uses Dense Wavelength Division Multiplexing (DWDM) and 100G technology, ensuring high reliability and scalability. The project was constructed by Vocus Communications and Alcatel Submarine Networks, with funding from the Australian and PNG governments. The CS2 project also includes the Solomon Islands Domestic Network (SIDN), a 730 km submarine cable connecting Honiara to provincial centers, and is designed to reduce reliance on expensive satellite links while improving internet speed and affordability.

PN

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G DataCoPNG DataCo Limited is the primary operator and maintainer of PNG's fiber-optic network. The company manages over 12,000 km of fiber optic cable, including both international and domestic links, and operates three data centers and 51 satellite infrastructures across the country.

PN

G DataCo's network covers 67 out of 96 districts, with 44 districts connected via fiber and 23 via satellite, achieving a 70% district connectivity rate. The company also maintains international Points of Presence (PoPs) in Sydney, Guam, Hong Kong, and Jayapura, sourcing peering and IP transit services from Tier 1 providers.

PNG Data

Co is also responsible for implementing the Domestic Submarine Cable network, a 5,600 km system connecting at least 15 coastal and maritime provincial centers, funded through a combination of PNG government contributions and a loan from China's EXIM Bank. This network aims to provide reliable, affordable, and consistent in-country connectivity. East Coast NetLinkEast Coast NetLink, part of the East Coast Group Ltd, provides fiber optics connectivity solutions for businesses and organizations in PNG.

Their services include high-speed internet, secure data transmission, cloud services, and satellite communications for remote areas.

Net

Link offers customized solutions for enterprises, government agencies, and SMEs, ensuring reliable connectivity even in rural regions. They also provide satellite services via Hong Kong hubs using C Band, Ku Band, and Ka Band platforms, supporting backup and emergency communications. Impact on PNG TelecommunicationsThe combined efforts of PNG DataCo, East Coast NetLink, and the Coral Sea Cable System have significantly enhanced PNG's telecommunications landscape.

These initiatives have: Increased internet speed and reliabilityReduced costs for wholesale and retail digital servicesExpanded access to remote and rural areasSupported economic and social development by connecting PNG to global networks Overall, PNG's optical cable companies and submarine cable projects are central to modernizing the country's digital infrastructure, improving connectivity, and fostering economic growth.

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Article Content

Enhance Connectivity Today

The 4700 km Coral Sea Cable System is a 40Tbps submarine fibre optic cable that brings next-generation connectivity to the people of Papua New Guinea and Solomon Islands.

East Coast Group Ltd

East Coast NetLink provides fiber optics connectivity solutions for businesses and organizations in Papua New Guinea. We offer high-speed, reliable and secure internet access, data transmission and

Leading Fiber Optic Supplier Port Moresby

Cetelnet is a top-tier fiber optic supplier in Port Moresby, offering a full range of fiber cables, accessories, and installation materials to support robust and scalable network infrastructure.

Coral Sea Cable Company

The Coral Sea Cable System is a 4700km long fibre optic submarine cable system linking Sydney, Australia, to Port Moresby, Papua New Guinea and Honiara.

Papua New Guinea Fiber Optic Cable Market (2025-2031)

In the Asia region, the Fiber Optic Cable market in Papua New Guinea is projected to expand at a high growth rate of 10.80% by 2027. The largest economy is China, followed by India, Japan, Australia

Coral Sea Cable System

The Coral Sea Cable System (CS2) is a 4700 kilometre-long fibre optic submarine telecommunications cable that links both Papua New Guinea and Solomon Islands to the major East

Google to build undersea cables in Papua New Guinea

Google will build three subsea cables in Papua New Guinea, which the Pacific Island nation says is being funded by Australia under a mutual

Google to Build Three Strategic Subsea Cables in Papua New Guinea

Papua New Guinea''s government announced that Alphabet''s Google will construct three high-capacity subsea cables in partnership with Australia under a mutual defence treaty known as

Coral Sea Cable System (Australia Papua New Guinea Solomon

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The CS2 has a four fibre-optic pair core, sheathed in one physical cable from Australia over 2500 km to a Branching Unit (BU) in the Coral Sea, where the four fibre-pair core is then split into two cables,

Average Salary in Papua New Guinea 2026: Pay Breakdown

What people in Papua New Guinea earn in 2026: median, percentiles, top-paying jobs, gender split and how pay compares across categories.

RELIABLE POWER SOLUTIONS FOR PAPUA NEW GUINEA

Papua New Guinea Fiber Optic Cable Tube Manufacturer PNG DataCo Limited (DataCo) is a state-owned entity committed to provide wholesale telecommunication services to the Information and

Papua New Guinea Strengthens Digital Ties with Australia and Google

Papua New Guinea is strengthening digital ties with Australia and Google through high-level collaboration at the AI Impact Summit in India.

DR Congo Plans Fiber-Optic Corridor Along Congo River

The proposed project covers about 2,100 kilometers of infrastructure, including 1,700 kilometers of fiber-optic cable along the Congo River from Muanda to Kisangani and nearly 400 kilometers of ...

Digicel leads project to deliver high-capacity undersea cable to Haiti ...

By Alcatel-Lucent Two years after Haiti was struck by a devastating 7.0 magnitude earthquake, the country is set to receive a major boost with the delivery of a US$16m 200km

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Papua New Guinea''s National Submarine Optical Cable Network

Recently, the Papua New Guinea national submarine optical cable network project financed by the Export-Import Bank was completed ahead of schedule. The smooth progress of the

Leading Fiber Optic Supplier Port Moresby

In today''s connected world, high-speed communication is no longer a luxury—it''s a necessity. As the capital of Papua New Guinea, Port Moresby is at the heart of

Trusted Fiber Optic Contractor Papua New Guinea

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Leading Fiber Optic Supplier Papua New Guinea Fast, secure, and reliable connectivity is essential for national development in the digital age. As

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