

RIVO MULTITRADE OPTICAL SYSTEMS

Papua New Guinea Single-Mode Gigabit Fiber Optic Cable



Equipped with a removable **Mounting Plate** inside the enclosure, enabling customized drilling and secure component mounting.

Overview

As a leading supplier of fiber optic cables near Port Moresby, we maintain ready stock optimized for the local 240V infrastructure.

Key Takeaways

Papua New Guinea's high-speed connectivity is supported by single-mode fiber optic cables through the Coral Sea Cable System and extensive domestic networks operated by PNG DataCo. Submarine Connectivity: Coral Sea Cable System

The Coral Sea Cable System (CS²) is a 4,700 km submarine fiber optic cable linking Sydney, Australia, to Port Moresby, PNG, and Honiara, Solomon Islands . It uses single-mode fiber with Dense Wavelength Division Multiplexing (DWDM) in the 1550nm window, supporting up to 40 Tbps of capacity . The system employs 100G repeaters and ASN's 1620 SOFTNODE Submarine Line Terminal Equipment, providing configurable client interfaces and robust protection against cable faults . CS² ensures faster, more reliable, and cost-effective international connectivity, replacing PNG's aging undersea cable to Sydney .

Domestic Fiber Network



PNG DataCo operates over 12,000 km of fiber optic cable across the country, connecting 44 out of 96 districts via fiber and achieving a 70% district connectivity rate . The network integrates with three data centers and 51 satellite infrastructures, providing low-latency, high-availability services. Single-mode fiber is used extensively for long-distance, high-speed gigabit connections, supporting both wholesale telecommunications and digital services . DataCo also maintains international Points of Presence (PoPs) in Sydney, Guam, Hong Kong, and Jayapura, sourcing upstream IP transit and peering services .

Local Suppliers and Installation

In Port Moresby, suppliers like Cetelnet provide single-mode and multi-mode fiber optic cables suitable for indoor, outdoor, aerial, and underground installations . They offer pre-terminated patch cords, pigtails, splice enclosures, distribution boxes, and installation tools to support professional deployment. Their technical team assists in selecting compatible fiber products for gigabit-speed networks, ensuring signal integrity and durability in PNG's diverse environments .

Benefits and Applications

The deployment of single-mode gigabit fiber in PNG enables:

- High-speed internet access for businesses, government, and communities
- E-governance and digital service delivery
- Support for entrepreneurship and digital skills development
- Integration into global digital markets Overall, PNG's combination of international submarine cables and domestic single-mode fiber networks provides a robust foundation for gigabit-speed connectivity, supporting economic growth and bridging the digital divide.

Article Content

Fiber Optic Cables Near Port Moresby, Papua New Guinea

As a leading supplier of fiber optic cables near Port Moresby, we maintain ready stock optimized for the local 240V infrastructure.

Leading Fiber Optic Supplier Papua New Guinea

Fiber Optic Cable Supply: We provide single-mode and multi-mode fiber optic cables suitable for underground, aerial, and in-building

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We can deliver the LC to LC Fibre Patch Cable 5m, OS1/OS2 Leads Single Mode Duplex 9/125 Fiber Optic Cable (LSZH) for

East Coast Group Ltd

East Coast NetLink provides fiber optics connectivity solutions for businesses and organizations in Papua New Guinea. We offer high

Leading Fiber Optic Supplier Port Moresby

We're committed to powering Papua New Guinea's digital future with high-performance fiber products and customized solutions.

Papua New Guinea Fiber Optics Cable Market (2025-2031) | Trends ...

6Wresearch actively monitors the Papua New Guinea Fiber Optics Cable Market and publishes its comprehensive annual report,

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

Papua New Guinea Fiber Optic Cable Market Size Growth Rate The Papua New Guinea Fiber Optic Cable Market is projected to

East Coast Group Ltd

East Coast NetLink Fiber Optic Internet East Coast NetLink provides fiber optics connectivity solutions for businesses and

The System | Enhance Connectivity Today — Coral Sea Cable Company

The 4700 km Coral Sea Cable System is a 40Tbps submarine fibre optic cable that brings next-generation connectivity to the people

Papua New Guinea Fiber Optics Market (2025-2031) | Value & Revenue

The Papua New Guinea Fiber Optics Market is projected to witness mixed growth rate patterns during 2025 to 2029. Growth

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6.1.3 Papua New Guinea Fibre Optic Cable Market Revenues & Volume, By Single Mode Fiber, 2021 - 2031F 6.1.4 Papua New

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PNG DataCo Coverage – PNG DataCo

DataCo operates and maintains an extensive network of over 12,000km of fiber optic cable both internationally and locally. In

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