

Maintenance of Tonga stranded power optical cable



Article Overview

Tonga's submarine fibre-optic cable maintenance involves specialized repair ships, careful reconnection of severed ends, and adherence to international optical cable standards.

Background of the Cable Damage

Tonga's international internet connectivity was severely disrupted by the 2022 Hunga Tonga-Hunga Ha'apai volcanic eruption, which caused multiple breaks in the submarine fibre-optic cable connecting the islands to the global network. The eruption generated debris and underwater landslides, severing the cable in at least two locations, leaving the middle portion drifting in the ocean and the ends flailing on the seabed. This resulted in widespread communication outages, affecting internet, phone services, and critical infrastructure reliant on connectivity .

Repair Operations

Repairing a submarine cable requires a specialized cable repair ship equipped to locate, retrieve, and reconnect the damaged cable ends. For Tonga, ships such as the SubCom vessel Resilience and the Lodbrog have been deployed. The repair process involves:

- Locating the damaged sections using sonar and GPS mapping.
- Retrieving the cable ends from the seabed...

Article Content

ITU-T Rec. L.25 (01/2015) Optical fibre cable network maintenance

The objective of this Recommendation is to identify the general functions of optical fibre cable network maintenance, and to provide

ITU-T Rec. L.25 (01/2015) Optical fibre cable network maintenance

Summary Recommendation ITU-T L.25 deals with general features in relation to the maintenance and operation of optical fibre cable

Maintenance of Submarine Optical Cable

In the event of a system failure, under the maintenance agreement, the relevant maintenance authority responsible for the system

Recommendation ITU-T L.312 (01/2024) Optical fibre cable

This Recommendation describes the functional requirements of optical fibre cable maintenance systems for optical fibre cables

Tonga Cable Limited – Tonga

Tonga Cable Limited (TCL) owns and manages the fibre-optic submarine cable, connecting Tonga to Fiji, which was commissioned

Tonga Domestic submarine cable repair completed

Tonga's domestic submarine cable system connecting Vavaú and Haápai Islands has been successfully repaired and

Tonga cable | Matangi Tonga

Tonga's broken international submarine fibre optic cable should be fixed by midday tomorrow, if all goes to plan, according to the

44172-022: Tonga-Fiji Submarine Cable Project

The project was designed with two outputs: (i) link Tonga to the submarine fiber optic cable network via connection through Fiji, a

Tonga Cable System Explained

Tonga Cable System is a submarine fiber-optic cable system connecting Tonga with Fiji, where it connects to other international

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1 Fiber Optic Installation and Maintenance S V Deshmukh, H A Atre, Santosh Wangde, D B Rane Tata Power Co. Mumbai, India

JOINT MEDIA RELEASE GOVERNMENT OF TONGA AUSTRALIAN

A survey of the 383-kilometre route for the cable has been conducted over the past week between the Hawaiki trunk cable and the

Maintenance of Submarine Optical Cable

This chapter introduces the organization of international submarine cable protection, relevant laws, and international submarine

FACT SHEET Expanding digital connectivity in Tonga via a second ...

BW Digital worked closely with Tonga Cable Limited, including training and development opportunities to enhance in-country

Tonga : Tonga-Fiji Submarine Cable Project

The Tonga-Fiji Submarine Cable Project will provide a submarine fiber optic cable system linking Tonga to Fiji where an existing

An Underwater Internet Cable Mishap Sent an Entire Country Back

Tonga, a tiny island nation east of Australia, immediately lost power and internet service. The eruption happened during

Contact Us

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