

North Africa Monitoring Line Optical Cable



Article Overview

The North Africa Monitoring Line Optical Cable, also known as the Medusa Submarine Cable System, is a high-capacity subsea fiber-optic network connecting North Africa with Europe, designed to enhance connectivity, support 5G, and enable AI-era technologies.

Overview

The North Africa Monitoring Line Optical Cable, implemented as the Medusa Submarine Cable System, is a transformative infrastructure project owned by AFR-IX Telecom and powered by Nokia's 1830 GX Series platform with ICE7 coherent optics . It connects the Atlantic coast, Mediterranean Sea, and Red Sea, creating a high-capacity digital corridor that links North African countries—including Morocco, Tunisia, Libya, Algeria, and Egypt—to Europe . The system is designed as an open-access network, allowing multiple telecom providers to leverage its advanced connectivity services.

Technical Specifications

- Capacity: Tens of terabits per second per fiber pair, supporting high-bandwidth applications .
- Latency: Low-latency design optimized for real-time applications such as cloud computing, AI, and 5G networks .
- Platform: Nokia 1830 GX Series with ICE7 coherent optics, ensuring cost-efficient...

Article Content

Submarine Cable Map 2025

Telecom Egypt has arisen as a trusted hub linking Africa, Europe, and Asia. Driven by the dedication of its top-notch professionals

Submarine Cable Map 2024

The Digital Hub Telecom Egypt has established itself as one of the largest subsea cable operators in the region, thanks to its

€100 The EurAfrica Gateway Cable, connecting the EU with milli

With 12,000 kilometres of fibre-optic cables, the first of its kind backbone will span Central, Eastern, and Southern Africa, close

List of terrestrial fibre optic cable projects in Africa

Ara Eve Leo Sal 1x Terrestrial fibre optic cable projects in Africa comprise land-based optical fiber networks deployed to establish

Fiber Atlantic

This interactive submarine cable map shows the global undersea fiber optic cables connecting world. Explore cable routes, landing

List of terrestrial fibre optic cable projects in Africa

Map of active and planned African undersea fibre optic cables, as of September 2025
This is a list of terrestrial fibre optic cable

Design and Application of Optical Cable Online Monitoring System in ...

Optical communication plays an important role in the power backbone communication network. As its only carrier, optical cable

List of terrestrial fibre optic cable projects in Africa

This is a list of terrestrial fibre optic cable projects in Africa. While submarine communications cables are used to connect countries

Middle East and Africa Optical Fiber Monitoring Market Report Size ...

The Middle East and Africa Optical Fiber Monitoring market was valued at USD 92.18 Million in 2024 and is expected to reach USD

Nokia selected for Medusa Submarine Cable System to bring new ...

The Medusa subsea cable is a significant step toward closing the digital divide between Europe and North Africa, connecting

Submarine Cable Map 2022

The Africa-1 consortium is comprised several telecom carriers including Etisalat, Mobily, Pakistan Telecommunication Company, and

Optimizing Fibre-Optic Monitoring: A Case Study in the Norwegian North

Additionally, the permanent installation of fibre optic cables ensures continuous monitoring throughout the lifespan of the reservoir,

African Undersea and Terrestrial Fibre Optic Cables

Explore the development and spread of African undersea and terrestrial fibre optic cables, a transformative revolution in

Fiber Monitoring

Fiber Monitoring & RFTS Fiber monitoring refers to the ongoing assessment of fiber quality with software tools and devices that

Maroc Telecom invests €150 mln in subsea cable to connect African ...

The demand for broadband connectivity is set to keep growing in Africa over the next few years. To meet this demand, operators are

Home | 2Africa Cable

The 2Africa cable will be integrated into STC's MENA Gateway (MG1) datacentre in Jeddah, enabling customers to access our

Automatic Optical Cable Line Monitoring System-YOFC | Smart Link

With built-in optical protection, the system can perform real-time fault monitoring and periodic testing of the communication fibre core.

Monitoring Submarine Power T/M Cable Cond. with Optical Fiber

Therefore, constant monitoring of the cables is required to mitigate potential damage through early detection. NEC is engaged in

Submarine Cable Map 2023

New Builds Europe, Africa, and the Middle East These regions are all experiencing a surge in new submarine cables. Projects such

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

This document is for informational purposes only. Specifications subject to change without notice.

