

Article Overview

Sierra Leone offers robust fiber optic connectivity through national backbone operators like Leonecom, Ultra One, and Metro Cable, with international access via the ACE submarine cable.

National Fiber Infrastructure

Sierra Leone's national fiber optic backbone spans approximately 1,630 km, connecting over 85% of districts and many towns and villages, with ring redundancy for resilience . Leonecom manages the backbone as a neutral operator, providing services such as E-LAN, Dark Fiber, Layer 3 Network, Co-location, IP VPN, and Metro services across more than 40 coverage points . The network is designed to allow operators to scale bandwidth and build backbone solutions according to business needs . Ultra One offers a complementary network infrastructure, including a submarine cable landing station, fiber backbone interconnecting major cities, and high-capacity 5G O-RAN access points, supporting ISPs and mobile operators . Metro Cable has expanded fiber-to-the-home (FTTX) services in Freetown, covering over 120 km in the eastern part of the city, connecting thousands of homes and businesses .

International Connectivity

Sierra Leone is connected to the Africa Coast to Europe (ACE) submarine cable, a consortium linking West Africa to Europe. This provides high-speed international bandwidth and low-latency connectivity, enabling branches in Sierra Leone to access global networks efficiently .

Considerations for Deployment

- o Power reliability: The national grid is often unstable, so operators rely on diesel generators and solar power, which can affect network performance .
- o Security and maintenance: Approximately 90% of backbone cable damages are due to vandalism, accidental cuts, or construction interference, which may impact service continuity .
- o Service options: Businesses can choose from leased dark fiber, IP VPN, Metro Ethernet, or FTTX solutions, depending on location, bandwidth requirements, and scalability .

Recommendations

- o Engage with Leonecom for backbone connectivity and scalable bandwidth solutions nationwide.
- o Consider Ultra One for high-capacity links and integration with 5G or enterprise networks.
- o Use Metro Cable for urban branch connectivity, especially in Freetown, leveraging FTTX services for offices or residential branches.
- o Plan for redundancy and backup power to ensure uninterrupted service. By leveraging these providers, a branch in Sierra Leone can achieve reliable, high-speed fiber optic connectivity both nationally and

Fiber Optic Cable in Sierra Leone

internationally, supporting business operations, cloud services, and digital communications.

The Sierra Leone Fiber Optics Market is projected to witness mixed growth rate patterns during 2025 to 2029. The growth rate

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Metro Cable Africa, a leading fiber optic cable company, has recently arrived in Sierra Leone with the aim of

6.3.2 Sierra Leone Fiber Optic Cables Market Revenues & Volume, By Single-mode, 2021-2031F 6.3.3 Sierra Leone Fiber Optic

An undersea telecommunications cable landed in Sierra Leone on Monday, part of a 17,000-kilometre fiber optic line that aims to

Open access, fibre optic cable, network infrastructure, Sierra Leone, connectivity, telecommunications, prospects, challenges,

6Wresearch actively monitors the Sierra Leone Fibre Optic Cable Market and publishes its comprehensive annual report, highlighting

Metro Cable Africa is a fiber optic cable company, with operations in many countries across the continent. The

Approximately 90% of backbone cable damages are due to vandalism--deliberate acts of destruction, often carried out by individuals

Sierra Leone Cable | 569 followers on LinkedIn. Sierra Leone Cable Limited (SALCAB) is a wholly government owned Optical Fiber

Before the fiber optic cable, Sierra Leone's internet service had only been through Revolution in communication President Ernest Bai

Sierra Leone has confirmed a US\$30-million loan agreement to finance its contract with Huawei for the second phase of its National

Guinea and Sierra Leone have signed a new agreement to advance regional digital integration by jointly exploiting their fiber optic



Fiber Optic Cable in Sierra Leone

The fibre optic cable is part of the Africa Coast to Europe (ACE) submarine cable landed in 2012 to enable Sierra Leone and other

Sierra Leone Cable. 6,806 likes · 1 talking about this. Sierra Leone Cable Limited(SALCAB)

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Web: <https://millstraining.co.za>

