

# Construction of Fiber Optic Communication Network in Senegal



## Overview

This network, with a capacity of 100/200G, is nearing completion and is set to enhance communication and data transmission capabilities across the country. The network leverages SENELEC's existing optical fiber infrastructure, which spans more than 2,000 km across Senegal. Since liberalization of the sector in the 1990s, the country has transformed into a leader in West Africa for developed and modern telecommunications infrastructure. The initiative comes amid rapid growth in fiber connectivity, with nearly 600,000 lines connected by the end of 2025, driven by national ambitions under the New Deal Technologique to achieve universal connectivity, digital sovereignty, and a thriving digital economy by 2034. The Autorité de Senegal launches a public consultation to define operational and regulatory rules for fiber optic network sharing. Senegal Horn of Africa Regional Express (SHARE), the optic fiber interconnection project connecting Senegal and. Senegal's fiber optic network coverage is projected to reach 65% by 2026, enhancing internet speeds nationwide. Our expertise spans the entire telecom value chain, from civil engineering to active equipment, in partnership with the region's major operators. From design to commissioning, XGiant Group masters.

## Article Content

### Fiber Optic Network Design & Deployment Guide

As the world races toward faster, more reliable digital communication, Fiber optic networks stand at the core of telecom innovation. Fiber optics bandwidth,

Senegal: launch of installation work on Meta's 2Africa submarine fiber ...

Senegal will soon be connected to the 2Africa submarine fiber optic cable from the eponymous consortium led by the American technology company Meta. Installation work on the

### SENELEC-Huawei Collab to Digitalize Senegal

This network, with a capacity of 100/200G, is nearing completion and is set to enhance communication and data transmission capabilities across the country. The network leverages

Mobile networks, SIM cards, and home internet in Senegal

Internet and mobile connectivity in Senegal: SIM cards, fiber plans, mobile networks, public WiFi, internet speeds, and what expats need to know about outages.

### Telecommunications

This page contains more information about the Fiber Optic Cable System, a specific investigation on how cellular activity might be used to map poverty at high

Senegal: Government picks ATOS to manage national fiber optic network ...

ATOS Senegal, subsidiary of French digital services which was inaugurated on June 23, 2016, in Dakar, was selected to manage Senegal's optic fibre network. The firm beat the State IT Agency (ADIE) on

Sénégal 2030 : Une couverture nationale en fibre

Lors de l'Africa CEO Forum 2025 à Abidjan, le président sénégalais Bassirou Diomaye Faye a annoncé une ambition majeure : assurer une

The Senegal-Cabo-Verde optic fiber interconnection

The project funded by Senegal will introduce an upgraded international bandwidth route to West Africa. According to Cheikh Bakhom, it will probably be

The Senegal-Cabo-Verde optic fiber interconnection

Senegal Horn of Africa Regional Express (SHARE), the optic fiber interconnection project connecting Senegal and Cabo Verde will soon be completed, according to

Senegal Optical Fibre Tenders, Bids & RFPs 2026

Users can register and get updated information on Senegal Government Optical Fibre Tenders, RFQ, government contracts and eprocurement tenders.

### New Construction Fiber Optic Cabling Overview & Guide

Fiber optics are crucial in modern buildings, providing the backbone for advanced digital communications. Integrating fiber optic installations during

### Sonatel introduces Senegal's first FTTH network

Orange Group-owned, incumbent Senegalese telco Sonatel has announced the launch of a fibre-optic broadband network this week. Senegal's first fibre-to-the-home (FTTH) service has

### Senegal: Fiber boosts fixed Internet, +321% subscribers between

Read all about "Senegal: Fiber boosts fixed Internet, +321% subscribers between 2020 and 2024" and get the latest news & updates from Extensia.

### Design and Implementation of a Hybrid FTTH-FSO Network for the ...

Therefore, this article aims to develop a proactive technique for deploying and maintaining the FTTH network in inaccessible areas or construction sites such as the Bus Rapid Transit (BRT) projects in

### Fiber Optic Coverage and Internet Usage Statistics in Senegal (2026)

An overview of Senegal's fiber optic infrastructure and internet usage statistics projected for 2026, highlighting digital growth and connectivity.

### Sonatel will connect Senegal to its 5th fiber optic submarine cable

The construction and installation of the infrastructure are carried out by the company Alcatel Submarine Networks. The new cable will be added to the 4 infrastructures of this type already operated by

### XGiant Telecom | Telecommunications Infrastructure & Networks in ...

We design and deploy end-to-end fiber optic networks, from backbone trunks to FTTH subscriber connections. Our teams master GPON, XGS-PON and point-to-point architectures for optimal

### FTTH Network Deployment in Senegal | PDF | Fiber To The X

The document is a final cycle report from Cheikh Anta Diop University of Dakar, detailing the deployment of a Fiber to the Home (FTTH) network in Madinatou Salam, supervised by Sonatel. It discusses the

### Fiber Optic Construction

Network Connex teams have deep experience in both underground fiber and aerial construction and are ready to support projects throughout the U.S. From fiber

## Structured Cabling Dakar | Data Cabling Senegal | Fibre,UTP & Network

Cable Types and our Structured Cabling Installation The most commonly used types of network cables are twisted pair cable. Twisted pair cable is used for connectivity in many Ethernet networks. Fiber

### Senegal. Broadband Expands

By December 2024, fiber optics already represented 57.23% of fixed internet consumers, compared to 35.07% for FWA and 7.69% for ADSL. The

### Construction Of A Fiber Optic Communication Network

The objective of this research is to establish a fiber optic communication network and demonstrate the conversion of electrical energy to light (optical) energy. The authors have the further objective of

### Senegal Targets Lower Internet Costs via Fiber Mutualization

Senegal launches a public consultation to define operational and regulatory rules for fiber optic network sharing. Authorities aim to reduce duplication, lower investment costs, and expand high-speed

### Senegal Regulator Seeks Industry Input on FTTx

The Autorité de Régulation des Télécommunications et des Postes (ARTP) has launched a public consultation on the deployment and sharing of

## Contact Us

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