

Installation Solution for New FTTH Cable Relay Stand in Cameroon



Overview

OPTICAL FIBER SERVICES We Deploy optical fiber and cable both underground and aerial, we Install ATB, TB, FDT for FTTH, FTTX, FTTD, FTTA, we do Fiber Decko.

Key Takeaways

A complete FTTH installation in Cameroon involves route surveying, civil works, fiber laying, splicing, junction box installation, and network commissioning using IP65-rated outdoor equipment for durability. Planning and Surveying

Before installation, conduct a site survey to determine the optimal route for the fiber cable, considering both aerial and underground options. This includes identifying obstacles, obtaining wayleave permits, and coordinating with local authorities to ensure compliance with regulations and minimize disruptions. Accurate as-built drawings should be prepared to document the network layout for future maintenance.

Civil Works and Infrastructure

Civil construction is essential for a reliable FTTH relay stand. This includes:

- Trenching and duct laying for underground cables
- Manhole and handhole construction for access points
- Directional drilling to cross roads or rivers

- Backfilling and surface reinstatement to restore roads or pavements For aerial deployment, poles and cable supports must be installed according to local standards.
- ### Fiber Installation and Splicing

Fiber optic cables are laid along the prepared route, followed by splicing and termination at the relay stand. Use high-quality fiber pigtails, patch cables, and splitters to ensure minimal signal loss . Testing should be performed to verify continuity, attenuation, and overall network performance .

Relay Stand and Junction Box Setup

The relay stand should house IP65-rated FTTH junction boxes to protect against dust and water ingress, suitable for outdoor conditions . Boxes can accommodate multiple ports (from 2 up to 144) depending on network size. For indoor or flush-mounted installations, IP20-rated boxes are sufficient. Proper labeling and organization of fibers within the box are critical for maintenance and scalability .

Network Commissioning and Testing

After installation, perform end-to-end testing to ensure signal integrity and network reliability. This includes:

- Optical power measurements
- OTDR testing for splice quality
- Verification of splitter and coupler connections Once verified, the network can be commissioned and integrated with the service provider's backbone .

Local Service Providers in Cameroon

Several companies offer turnkey FTTH solutions in Cameroon:

- ROOT IT: Provides design, civil works, procurement, and commissioning services
- AFOSE WORKS Plc: Specializes in aerial and underground fiber deployment, splicing, and testing
- Decko Africa: Offers end-to-end FTTx solutions, including planning, trenching, splicing, and network monitoring
- RAYNO SYSTEMS SARL: Provides structured cabling and fiber solutions for residential and enterprise networks

Best Practices

- Use weather-resistant, IP65-rated equipment for outdoor installations
- Maintain detailed documentation for all fiber routes and splices
- Ensure qualified personnel handle splicing and testing to minimize signal loss

- Plan for future scalability by installing extra ducts and ports in junction boxes By following these steps and leveraging local expertise, a new FTTH cable relay stand in Cameroon can be installed efficiently, reliably, and in compliance with industry standards .

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