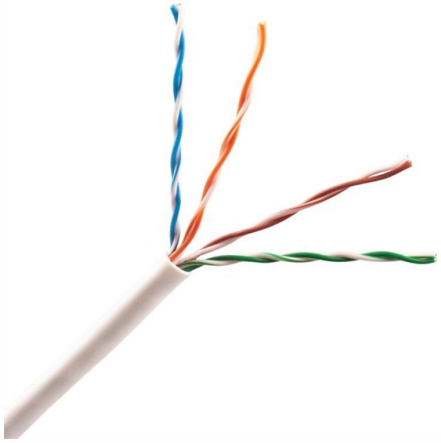
Ethiopia Fiber Optic Cable



Overview

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Key Takeaways

Ethiopia has a growing fiber optic network spanning over 23,000 km, supported by local manufacturing and international technology partnerships. National Fiber Optic InfrastructureEthiopia's fiber optic backbone is primarily managed by Ethio Telecom, which owns about 23,000 km of fiber-optic cable connecting major cities and linking to undersea cables via Djibouti. In 2024, Ethio Telecom partnered with Djibouti Telecom and Sudatel to establish the Horizon Fiber corridor, a multi-terabit cross-border link connecting Ethiopia, Djibouti, and Sudan, enhancing regional connectivity.

Fiber deployment supports both fixed broadband and mobile networks, with 5G commercial services launched in Addis Ababa and ongoing expansion to other cities.

Market and Technology

The Ethiopian fiber optic cable market is expanding rapidly, with international suppliers introducing high-capacity solutions. Huawei's OptiXtreme 400G DR4 series supports long-haul and metro networks at speeds up to 400 Gbps, while ZTE's ZXMP-G6500 series can handle up to 650 Gbps for data centers. Corning's SMF-28® ULL fiber enables ultra-long-distance transmission of up to 10,000 km at 400 Gbps.

These technologies are being integrated into Ethiopia's growing broadband and enterprise networks.



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Local Manufacturing

Ethiopia has developed a domestic fiber optic cable manufacturing industry, led by BMET Energy Telecom Industry and Trade PLC, the largest and most advanced cable manufacturer in the country.

BME

T produces a wide range of fiber optic, telecom, and electrical cables for both local and international markets, using state-of-the-art technology and quality control measures. This local production supports infrastructure growth, reduces reliance on imports, and strengthens Ethiopia's self-sufficiency in telecom hardware.

Market Adoption and Connectivity

As of 2023, Ethiopia had about 669,000 fixed broadband subscribers, with fiber deployment concentrated in Addis Ababa and select business districts. Mobile connectivity is widespread, with over 85 million mobile subscriptions, and 4G/5G networks are gradually expanding. The introduction of Safaricom Ethiopia and mobile money services like M-Pesa has increased competition and digital adoption.

Starlink has also begun beta testing, offering high-speed satellite internet as an alternative in areas with limited fiber coverage. SummaryEthiopia's fiber optic ecosystem combines extensive national infrastructure, international high-speed technology, and robust local manufacturing. The network supports the country's digital transformation, enabling faster broadband, mobile connectivity, and regional integration, while local manufacturers like BMET ensure sustainable growth and supply of fiber optic cables.

This positions Ethiopia as an emerging hub for digital infrastructure in East Africa.

Article Content

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Inside Ethiopia''s Internet Boom: Fiber Optics, 5G

High-speed fiber-optic cables form the foundation of Ethiopia''s internet, connecting cities and carrying data to the global internet. Ethio Telecom

Ethiopia Fiber Optic Cable Market 2023-2030

In Ethiopia, Huawei unveiled its brand-new OptiXtremeTM 400G DR4 series of fibre optic cables. Long-haul and metro networks can make advantage

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Fiber optic cable price in Ethiopia

Fiber optic cable in Ethiopia Prices from 580 birr → Choose from suppliers in Addis Ababa with product photos and details | Engocha

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How to Source Genuine Networking Cables in Ethiopia

Using low-quality or counterfeit cables can lead to slow network speeds, frequent outages, data transmission errors, and costly maintenance. For businesses in Ethiopia, sourcing genuine

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Djibouti, Ethiopia and Sudan telecom operators agree new regional fibre ...

Ethiopia and Kenya agreed in June twenty twenty-five to finalise their fibre-optic interconnection. Kenya is currently linked to seven submarine cables, with two additional systems

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Birla Cable Limited (Formerly known as Birla Ericsson Optical Limited) is a premier company in the field of Telecommunication Cables, which offers one of widest

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South Sudan to Launch Fiber-Optic Project from Kenya

The Ministry of Information, Communication Technology and Postal Services (MOICT&PS) of South Sudan, in partnership with the World Bank, is preparing to start laying a fiber

Broadband Fiber Optic Splice Closures

Broadband Fiber Optic Splice Closures The Panduit fiber optic splice closure (PANFSC) shall be a butttype closure that provides environmental protection of fiber optic splices in the outside plant

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Gulf states race to build overland data cables to Europe

Saudi Arabia, Qatar, and the UAE are financing six competing fiber-optic corridors through Syria, Iraq, and East Africa to reduce dependence on

Fiber Optics in Ethiopia

We found 4 businesses in Ethiopia which have fiber optics listed among their services. Please read through the company profiles below to find more information about the best Ethiopian fiber optics

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