

# Performance parameters of Burkina Faso optical fiber cable



## Article Overview

Burkina Faso's optical fiber network, including the Burkina Faso-Benin link, uses 36-core G.652D cables with 100 Gbps backbone capacity, IP-MPLS over OTN over DWDM transport, and high reliability standards.

### Key Technical Specifications

- Cable Type: 36-core single-mode G.652D fiber, designed for low attenuation and resistance to hydrogen-induced losses, suitable for long-distance transmission .
- Backbone Capacity: 100 Gbps at installation, supporting high-speed national and international data traffic .
- Network Architecture: IP-MPLS over Optical Transport Network (OTN) over Dense Wavelength Division Multiplexing (DWDM), enabling scalable, high-throughput, and low-latency communication .
- Length: The Burkina Faso section of the link spans 160 km from Fada N'Grouma to the Benin border at Porga .
- Points of Presence (PoP): One PoP is planned halfway to Pama to facilitate network access and redundancy .

### Performance Parameters

- Throughput: The network is designed to handle 100 Gbps, with potential for future upgrades using DWDM technology to increase capacity without laying new fiber .
- Latency: Single-mode G.652D fiber ensures minimal signal delay over long distan...

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This Specification covers the design requirements and performance standard for the supply of optical fibre cable in the industry.

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Burkina Faso optical fiber cable project

The Ministry for the Development of the Digital Economy and Posts (MDENP) of Burkina Faso has entrusted Sofrecom with the task

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Evaluation of Fiber-Optic Cable Performance

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Recommendation ITU-T G.652 (08/2024)

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

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: [sales@chromadecksigns-eastrand.co.za](mailto:sales@chromadecksigns-eastrand.co.za)

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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