# Cables and Fiber Optic Cables for Smart Buildings in Guyana



## Overview

PM Phillips launches the first direct submarine fiber optic cable to Bartica, enhancing connectivity and boosting digital infrastructure in the region.

## Key Takeaways

Guyana is rapidly expanding its fiber-optic network, including submarine and terrestrial cables, providing the high-speed connectivity necessary for smart buildings and advanced digital services.

### Fiber Optic Expansion in Guyana

Guyana has recently commissioned its first direct submarine fiber-optic cable to Bartica, a key hinterland town, connecting it to the national fiber backbone and enabling gigabit-speed internet and 5G mobile coverage. This project, led by telecommunications provider ENet, traversed challenging terrain, including major rivers, and now links seven of Guyana's ten administrative regions. The rollout supports full fiber-to-home (FTTH) services, which are essential for smart building applications requiring reliable, high-bandwidth connections.

### Implications for Smart Buildings

Smart buildings rely on high-speed, low-latency networks to integrate IoT devices, automated systems, and cloud-based management platforms. The expansion of Guyana's fiber-optic infrastructure enables: Real-time monitoring and control of lighting, HVAC, and security systems. High-speed internet access for tenants and commercial operations.

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Integration with smart city initiatives, including digital public services and energy management. Scalable connectivity for future technologies such as AI-driven building management and telepresence systems.

### Cable Types and Deployment

For smart buildings, the following cable types are relevant: Fiber Optic Cables: Single-mode or multi-mode fibers provide high bandwidth and long-distance connectivity, ideal for backbone and inter-building links. Structured Cabling: Cat6a or Cat7 copper cables can complement fiber for internal building networks, supporting high-speed Ethernet connections. Submarine and Terrestrial Links: Guyana's new submarine cable to Bartica demonstrates the feasibility of connecting remote regions to the national fiber backbone, ensuring consistent service for both urban and hinterland smart buildings.

### Strategic Considerations

Private Sector Involvement: ENet's investment highlights the role of private companies in expanding digital infrastructure, which is critical for smart building adoption. Digital Inclusion: The government's Digital Guyana strategy aims to modernize ICT infrastructure, ensuring that both coastal and interior regions can access high-speed connectivity, which is essential for smart building technologies.

### Future-

Proofing: Deploying fiber-optic networks now ensures that buildings can support emerging technologies, including 5G, IoT, and AI-driven automation, without requiring major infrastructure upgrades. In summary, Guyana's ongoing fiber-optic expansion, including submarine and terrestrial deployments, provides the technical foundation for smart buildings, enabling high-speed connectivity, IoT integration, and advanced digital services across both urban and hinterland regions.

## Article Content

ENet commissions fibre-optic cable at Bartica

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PM Phillips launches the first direct submarine fiber optic cable to Bartica, enhancing connectivity and boosting digital infrastructure in the region.

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