

National Optical Cable System



AI Overview

The national optical cable belongs to the National Optical Fibre Network (NOFN) and the Backbone Optical Cable network connecting China's major computing power hubs. Overview The national optical cable serves as a key infrastructure for the National Integrated Computing Power Network, forming the backbone of China's data transmission system. It is designed to support the East Data, West Computing Project and the broader Computing Power Network, ensuring high-speed connectivity between major computing hubs across the country. Network Structure The network interconnects the Eight Major National Computing Power Hubs, along with ten national computing power clusters and three coordinated development regions, forming an "Eight Plus Ten Plus Three" spatial layout. By the end of 2025, 145 Backbone Optical Cable lines had been constructed, reducing network latency between provinces and computing hubs to within 20 milliseconds. The cables are laid along high-speed railway lines to optimize data transmission efficiency and reliability. Technical Specifications The network uses G.654.E optical fiber, which offers ultra-low loss and ultra-large capacity, supporting 400G, 800G, and future higher-rate transmission systems. The NOFN ensures that all service providers, including telecommunications, internet, and cable operators, have equal access, enabling services such as e-health, e-education, and e-governance in remote areas. Purpose and Significance The national optical cable network is the main artery of China's information and communication infrastructure, providing a high-capacity, low-latency channel for data transmission. It underpins the country's computing power strategy, facilitates the integration of regional data centers, and supports the growing demand for cloud computing, AI, and other data-intensive applications. In summary, the national optical cable is part of the National Optical Fibre Network (NOFN) and the Backbone Optical Cable system, forming the core of China's national computing an...

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National Optical Backbone Network Solution

The national all-optical backbone network solution leverages the high bandwidth, long distance, and high reliability empowered by Huawei's advanced optical

Optical networking

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National Optical Backbone Network

South Africa's national broadband infrastructure company Broadband Infraco (BBI) has partnered with Huawei to build a national intelligent all-optical backbone

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Optical networks

An optical transport network is a high-speed communication system that sends light signals over fiber-optic cables to move large amounts of data across long

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Fiber Optic Cables | Corning

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Submarine communications cable

These early cables used copper wires in their cores, but modern cables use optical fiber technology to carry digital data, which includes telephone, internet and private data traffic.

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