

New type of optical cable from the Ministry of Industry and Information Technology



Overview

Achieved using a newly developed standard 19-core optical fiber, equivalent to 19 standard fibers, low loss across multiple wavelength bands, and the development of an optical amplification relay function compatible with this fiber. Fiber now underpins nearly all fixed broadband in China – With 99% of lines on fiber, operators and policymakers rely on it as the backbone for gigabit services, smart cities and national digitalization efforts. Next-gen fiber helps stabilize ARPU amid saturation – Multi-gigabit tiers, smart-home. Optical Communication Industry News Brief (June 21 - July 21, 2025) 1. Policies & Standards: Strategic Impetus Drives Industrial Upgrades China's Ministry of Industry and Information Technology released the 14th Five-Year Plan for Optical Communication Industry Development on June 15, setting a. China will advance the evolution of 5G-A (5G-Advanced) technology and the research and development of 6G, while deploying next-generation optical networks in advance, said the Ministry of Industry and Information Technology (MIIT) on Friday. The 5G-A technology marks an important stage in the. The Ministry of Industry and Information Technology issues guidelines to promote the construction of all-optical computing power networks, with OCS and optoelectronic converged networking deployments on the horizon. "It is a milestone in the development of the country.

Article Content

Inside China's fiber future

Fiber now underpins nearly all fixed broadband in China – With 99% of lines on fiber, operators and policymakers rely on it as the backbone for gigabit services, smart cities and national

Optical Communication Industry News Brief (June 21

Designed with a gas core, these new fibers increase channel capacity by 5x and reduce latency by 30%, and have been piloted in scenarios such as financial high-frequency trading and

China to deploy next-generation optical networks in advance: MIIT

China will advance the evolution of 5G-A (5G-Advanced) technology and the research and development of 6G, while deploying next-generation optical networks in advance, said the Ministry of

Latency of less than 1 millisecond! The Ministry of Industry and ...

Amid the booming demand for AI computing power, all-optical network solutions are taking over from optoelectronic integration to become a new trend in the development of the optical

World Record Achieved in Transmission Capacity and Distance: With

The research team has achieved a dramatic extension of the transmission distance by developing a novel 19-core optical fiber also with a standard cladding diameter but with low loss

ICT Minister: Copper-to-optical cable transition a turning point

Iran's Minister of Information and Communication Technology Seyed Sattar Hashemi said on Sunday that the nation-wide project to convert the copper cables to optical fibers is a landmark

China to conduct 10-gigabit optical network pilot projects in 2025

China's Ministry of Industry and Information Technology announced Tuesday that the country will implement its superfast 10-gigabit optical network pilot projects in certain cities and

CODE OF PRACTICE FOR TELECOMMUNICATION WIRING WORK

“YD/T 1258.3” means the YD/T 1258.3 standard issued by The Ministry of Industry and Information Technology of the People's Republic of China titled The series of indoor optical fiber cables.

Ministry of Industry and Information Technology: to carry out ten ...

At present, new services and new applications continue to emerge, which puts forward the demand for optical networks with greater bandwidth, lower latency, and higher reliability, and it is urgent to

Top 2025 Optic Cable Innovations: Enhancing Connectivity for the

One of the most prominent trends is the development of ultra-high bandwidth fibers, designed to meet the insatiable demand for data transmission. These advanced fibers will not only

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Handbook Optical fibres, cables and systems

Malcolm Johnson Director ITU Telecommunication Standardization Sector As we approach the half century mark for the dawn of the era of optical communications, it is appropriate to take stock of the

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Ministry of Industry and Information Technology

The Ministry of Industry and Information Technology (MIIT) is a prominent governmental body of the People's Republic of China, headquartered in Beijing. Established to regulate and

Recent Advances in Optical Networking Technology: A Look at the

Since several decades ago, optical networking technology has been developing quickly. Fiber optics is becoming a key component of the telecommunications infrastructure due to its high

Ministry of Industry and Information Technology

Established in 2008 as a department under the State Council responsible for the administration of China's industrial development and information industry. Its main responsibilities

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