China Unicom Fiber Optic Cable Network Cable



Overview

Hengtong, in collaboration with China Unicom, has successfully deployed and begun operating China Unicom''s first commercial hollow-core fiber optic cable line.

Key Takeaways

China Unicom operates an extensive fiber optic network, including domestic hollow-core fiber deployments and international subsea cables connecting Asia, the Middle East, and Europe.

Domestic Fiber Optic Network

China Unicom has recently deployed its first commercial hollow-core fiber optic cable line, in collaboration with Hengtong. This line serves a dedicated connection for a bank branch in Jiangsu, integrating into the live network with verified stability and reliability. The cable uses a hybrid configuration of 46-core G.

652 fibers plus 2-core hollow-core fibers, combining compatibility with existing networks and enhanced transmission performance. Hollow-core fiber offers lower latency and higher bandwidth potential, representing a significant step toward next-generation telecom infrastructure within China.

International Subsea Cable Projects

China Unicom is also a key participant in the EMA (Europe-Middle East-Asia) subsea cable project, a $500 million initiative jointly developed with China Telecom and China Mobile.

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The EM

A cable will link Hong Kong to Hainan, then extend to Singapore, Pakistan, Saudi Arabia, Egypt, and France, creating one of the most advanced and far-reaching subsea networks. The cable is manufactured and laid by HMN Technologies, with financial support from the Chinese government, and is expected to be operational by the end of 2025. This project is strategically designed to compete with U.

S.-backed subsea cables and strengthen China's global internet infrastructure.

Strategic Significance

China Unicom's fiber optic initiatives, both domestic and international, aim to: Enhance high-speed connectivity for commercial and financial sectors within China. Expand global network reach, providing direct links between Asia, the Middle East, and Europe. Support technological leadership in fiber optic and subsea cable technologies, including hollow-core fiber.

Strengthen China's position in the global telecom landscape amid international competition.

Summary

China Unicom's fiber optic network combines cutting-edge domestic deployments with strategic international subsea cables, positioning the company as a major player in both national and global telecommunications. The integration of hollow-core fiber and participation in the EMA cable project highlight its commitment to high-capacity, low-latency, and future-ready network infrastructure.

Article Content

HENGTONG GROUP CO.,LTD.

Hengtong, in collaboration with China Unicom, has successfully deployed and begun operating China Unicom''s first commercial hollow-core fiber optic cable line. This hollow-core fiber

Fiber Optic Cables

UNICOM UC-FBR-GO Cables provides sufficient bandwidth to support 10 Gigabit Ethernet for longer distances. UC-FBR-GO is designed for duct, underground

Hengtong Has Successfully Deployed and Begun Operating China

This design supports compatibility with current networks while utilizing hollow-core fiber to enhance transmission performance—a balance of present utility and future potential.

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Hengtong collaborates with China Unicom to deploy

This design supports compatibility with current networks while utilising hollow-core fibre to enhance transmission performance—a balance of

China to Connect Europe, Middle East and Asia via $500 Million

The cable, which will cost $500 million to complete, will be manufactured and laid by the Chinese cable firm, HMN Technologies. Sources familiar with the development revealed that the firm

China Telecoms Funds $500m Asia Cable

The cable, which would cost approximately $500 million to complete, would be manufactured and laid by China''s HMN Technologies Co Ltd, a fast

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Chinese state-owned telecom firms, China Telecom, China Mobile, and China Unicom, are developing a $500 million undersea fiber-optic internet cable network that would link Asia, the...

China Plans $500M EMA Undersea Cable Network to

Chinese state-owned telecom companies are planning a large undersea fiber-optic cable network called EMA (Europe-Middle East-Asia). The

China Telecom Guangdong Launches Hollow-Core Optical Cable

Hollow-core optical fiber has become one of the key transmission directions attracting industry attention. China Telecom, China Mobile, and China Unicom have all initiated pilot projects

China Unicom to Lay Subsea Fiber Cable Linking Hong

China Unicom Group, one of China''s major telecommunications operators, has revealed plans for the construction of a nearly 3,000-kilometer

GL FIBER

GL Technology Co., Ltd. is a manufacturer of power fiber optic cable, aluminum clad stee for electric power and other fiber optic cable in China.

Fiber Optic Connectivity Market Share & Forecast, 2026-2033

The fiber optic cables segment is expected to account for 36.0% of the global fiber optic connectivity market share in 2026. The global fiber optic connectivity market is dominated by fiber

China plans $500 million subsea internet cable to rival

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SINGAPORE, April 6 (Reuters) - Chinese state-owned telecom firms are developing a $500 million undersea fiber-optic internet cable network that would link Asia,

Hyperscalers Dominance of Subsea Cable Capacity to Increase in the

Washburn noted Google''s extensive transpacific cable network as a primary example. Because this hyperscaler traffic is routed over fully private, dark fiber subsea segments, it remains

Inside China''s fiber future

China''s operators are aggressively embedding AI into fiber networks to improve reliability, reduce costs and enhance customer experience. According to Pradeepthi, AI is now used

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Optical Modules Market Research Report 2034

As smart manufacturing facilities deploy time-sensitive networking (TSN) and industrial Ethernet standards requiring deterministic, high-bandwidth optical backbones, the market for industrial-grade

China''s Optical Fibers, Bundles and Cables Market Report 2026

The Chinese market for optical fibers, bundles, and cables represents the single largest national arena for consumption and production globally, a position of dominance that is projected to

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