China Unicom network fiber optic cable



Overview

China Unicom to Lay Subsea Fiber Cable Linking Hong China Unicom Group, one of China's major telecommunications operators, has revealed plans for the const.

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.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

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

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

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

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.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

YOFC assists China Unicom to complete the first gl

In 2014, China Unicom took the lead in launching the exploration of new types of optical fibre in the global industry, and promoted and participated in setting the ITU-T G.654E optical cable

Guangdong Unicom Procures 82 Core-Kilometers of Hollow-Core Fiber

This procurement involves hybrid optical cables containing hollow-core fiber, along with fiber splicing and termination services, and corresponding auxiliary materials.

Advance network innovation and strengthen the construction of new ...

The Company gradually expanded the deployment of international network infrastructure, broadened overseas infrastructure connections, accelerated the deployment of submarine cables in key regions,

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

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 Communication Equipment Report, 2004-2005

China Communication Equipment Report, 2004-2005 ... This report gives full details about mobile, data, optical and other communication equipments in China. If this report could not still meet your

Fiber Optical Cable Corporation & Manufacturer

Weichuang Optics, a leading optical cable corporation, serves as your trusted supplier. Discover latest fiber optic cables in 2024 with patents certified.

What You Need to Know About China Unicom and Its Fiber Optic

China Unicom is a leading Chinese telecommunications provider specializing in fiber optic solutions, 5G networks, and high-speed internet. As a state-owned enterprise, it drives digital infrastructure growth,

China Top 10 Fiber Optic Cable Manufacturers in 2025

The fiber optic cable industry in China has solidified its position as a global powerhouse, driving the expansion of high-speed networks, 5G

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

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.

Global Fiber Optic Cable Market Analysis | OPELINK

Deploy high-performance PLC splitters for your 5G fronthaul network. OPELINK offers full-band PLC solutions with low insertion loss and exceptional uniformity. Explore PLC Splitter

Fiber Optic Preform Market in China | Report

China is the world''s largest market for fiber optic preforms, consuming roughly 45–50% of global production by volume. The market''s scale reflects the country''s dominant position in optical

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

The 15 Largest Fiber Optic Companies In The World, And What They Do

Key Points: Sumitomo Corporation is the world''s largest fiber optic company with $31.62 billion in annual revenue. They provide cables, connectors, network solutions and more to telecom

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Contact Us

Continue your research online:

Website: https://fdsoluciones.es
Technical inquiry: https://fdsoluciones.es/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved