China Mobile Fiber Optic Cable Construction Project

Overview

China Mobile's 9.2 billion yuan fiber optic cable order. On the one hand, the price of raw materials has risen, and on the other hand, the price of opti.

Key Takeaways

China Mobile is actively expanding its fiber optic network through large-scale domestic procurement and international subsea cable projects, involving top Chinese suppliers and strategic global partnerships.

Domestic Fiber Optic Cable Procurement

China Mobile has been conducting centralized procurement for optical fiber and cable projects to support its nationwide network expansion. The 2025/2026 loose-tube optical cable tender covered 98. 8 million fiber-kilometers (F-km), attracting 27 bids, with 14 companies ultimately awarded contracts.

The top four suppliers—ZTT, Hengtong, YOFC, and FiberHome—secured a combined 60% share, equivalent to 59. 3M F-km, highlighting their dominant positions in the Chinese market.

ZT

T led with a 19. 36% share at a bid value of RMB 5,416 million, followed by Hengtong, YOFC, and FiberHome. For the 2025–2027 G.

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654E optical fiber and cable project, China Mobile planned to procure approximately 22,900 fiber kilometers (3. 1386 million core kilometers). The project uses share bidding, with 2–3 winning suppliers, and sets a maximum bid price limit of RMB 630.

56 million (excluding tax). If three suppliers win, the shares are allocated as 50%, 27%, and 23%; if two suppliers win, the shares are 70% and 30%. Recent procurement trends show a significant increase in both volume and price.

From 2021–2022, China Mobile's centralized procurement of ordinary optical fiber cables reached 4. 47 million skin-length kilometers (143. 2 million core kilometers), a 36.

38% increase over 2019. The average transaction price rose to over RMB 60 per core-km, reflecting a rare situation of rising volume and price in the optical fiber industry.

International Subsea Cable Projects

China Mobile is also participating in the EMA (Europe-Middle East-Asia) undersea cable network, a $500 million project led by HMN Technologies. This subsea network will connect Hong Kong, Hainan, Singapore, Pakistan, Saudi Arabia, Egypt, and France, with Chinese state-owned telecoms—including China Mobile, China Telecom, and China Unicom—owning over half of the network. Foreign partners such as Orange, PTCL, Telecom Egypt, and Zain Saudi Arabia are also involved.

The EM

A cable aims to enhance China's global connectivity and provide an alternative to US-backed subsea cables, with operations expected to begin by 2025.

Strategic Implications

China Mobile's fiber optic initiatives reflect a dual strategy: Domestic expansion: Strengthening nationwide broadband infrastructure with high-quality suppliers and advanced fiber technologies (G. 654E), ensuring reliable delivery and R&D capabilities. Global connectivity: Participating in international subsea networks to secure strategic data routes, enhance global reach, and reduce dependency on US-backed infrastructure.

These projects demonstrate China Mobile's commitment to both technological leadership and geopolitical positioning in global telecommunications.

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Article Content

China Mobile''s 9.2 billion yuan fiber optic cable order ...

On the one hand, the price of raw materials has risen, and on the other hand, the price of optical fiber and cable has bottomed out. Optical fiber and cable companies are under pressure on both sides.

ZTT Secures Top Position in China Mobile''s 2025–2026 Optical Cable ...

On June 7, China Mobile, China''s largest telecom operator and the world''s biggest purchaser of optical fiber, officially announced the shortlisted candidates for its centralized procurement of outdoor optical

China Mobile Completes Landing of Hong Kong Segment of SEA-H2X ...

The initiative complements China Mobile''s existing submarine cables, such as SJC, APG, and the SJC2 added in July this year, and will help to fully revitalize Asia-Pacific backbone...

YOFC Assists Three Major Operators in Advancing the

Recently, Yangtze Optical Fibre and Cable Joint Stock Limited Company (YOFC, stock code: 601869.SH, 06869.HK), in collaboration with China Mobile and China Telecom, established the

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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 Middle

China Mobile collaborates with Yitofc Company to conduct multi-core ...

Focusing on the core capabilities of optical transmission, it cooperates with the industry chain, conducts technical research and industrial promotion, and is committed to building advanced ultra high-speed

China Mobile collaborates with Yitofc Company to conduct ...

This line is the world''s first existing network test of four core optical fiber and seven core optical fiber cable, the first domestic pilot line of four core optical fiber, and the first...

Telecom Industry Weekly Report: Optical Fiber Assemblies Solutions ...

This week''s industry review focuses on the recovery of fiber prices, the completion of China Mobile''s special optical cable procurement, and the long-term growth potential driven by AI

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Practice and Case Study on Cross-border Cable Project

Fiber Optic Cable is the first cross-border terrestrial cable directly connecting China and Pakistan. It stretches from Urumqi to Rawalpindi through the Khunjerab Pass at the China-Pakistan border. The

Report on China''s Participation in the Construction and Protection of ...

Report on China''s Participation in the Construction and Protection of International Communication Submarine Cables (2025)

China Eximbank provides RMB 234 million government ...

On November 8, 2014, China Eximbank and the Government of Pakistan signed an RMB 234,000,000 government concessional loan agreement {{CHINA EXIMBANK GCL NO.

China boasts world-leading optical fiber, mobile communications network

China has now built the world''s largest and technologically advanced optical fiber and mobile communications network, Industry and Information Technology Minister Jin Zhuanglong said

Inside China''s fiber future

Pradeepthi said fiber has become central to China''s connectivity model, noting that “about 99% of China''s fixed broadband subscriptions are already on fiber-optic lines.” Fiber, she

2Africa International Submarine Cable Project: Building an Information ...

The project aims to deliver high-speed and stable Internet connections to 33 countries by deploying advanced submarine optical cable technology. As a key partner, China Mobile has

Subsea Internet Cable: China plans $500 million subsea internet cable ...

Chinese state-owned telecom firms are developing a $500 million undersea fiber-optic internet cable network that would link Asia, the Middle East and Europe to rival a similar U.S.-backed

China builds world''s largest mobile broadband and fiber optic network ...

China has constructed the world''s largest mobile broadband and fiber optic network with network quality reaching the world''s top level, a senior Chinese official said on Tuesday, World

China Proposes $500 Million Subsea Internet Cable To

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A $500 million undersea fiber-optic internet cable network connecting Asia, the Middle East, and Europe is being developed by state-owned Chinese telecom companies to compete with a

China''s $500m subsea optic cable to link Middle East

Chinese state-owned telecom firms are developing a $500 million undersea fibre-optic internet cable network that would link Asia, the Middle East

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