

# Anhui Mobile Optical Cable Project



## Overview

Lasun Optic-Electric was established in Shenzhen in 2004 and headquartered in Anqing City, Anhui Province.

## Key Takeaways

The Anhui Mobile Optical Cable Project is a major initiative by China Mobile Anhui to expand high-capacity optical fiber infrastructure, integrating advanced 5G, AI, and smart manufacturing technologies.

## Project Overview

The Anhui Mobile Optical Cable Project is part of China Mobile's broader effort to enhance network capacity and support next-generation telecommunications infrastructure in Anhui province. The project involves deploying loose-tube optical cables across the region, with a focus on high-speed, high-capacity connectivity to support 5G, AI applications, and industrial digitalization.

## Key Participants

Major optical cable manufacturers have been awarded contracts for China Mobile's 2025/2026 optical cable tenders, which include the Anhui region. Leading suppliers such as YOFC, ZTT, Hengtong, and FiberHome secured a combined 60% of the tender, reflecting their dominant positions in the Chinese optical cable market.



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C, in particular, is notable for its advanced fiber technologies, including hollow-core and triple-band optical fibers, which significantly enhance transmission capacity and efficiency. Local manufacturers like Anhui Lasun Optic-Electric also contribute to production and deployment, providing integrated solutions for smart cities and industrial applications.

## Technological Integration

The project leverages 5G and AI technologies to optimize manufacturing and deployment. At facilities like the Wuwei Cable Factory, Anhui Mobile has implemented 5G+AI quality inspection systems, enabling ultra-fast defect detection and real-time feedback to production equipment. This reduces labor requirements, increases efficiency by 20%, and lowers costs by 60%.

Automated guided vehicles (AGVs) and digital twin factory platforms further enhance logistics and production efficiency, demonstrating the integration of industrial internet technologies into optical cable manufacturing.

## Advanced Fiber Technologies

China Mobile has also introduced cutting-edge optical fiber technologies in the region, including the S+C+L triple-band multi-core optical fiber, which increases total transmission capacity by over five times compared to traditional fibers. This technology supports high-speed data transmission for AI infrastructure, cloud computing, and next-generation networks, positioning Anhui as a hub for advanced telecommunications and digital services.

## Impact and Significance

The Anhui Mobile Optical Cable Project strengthens the province's digital infrastructure, enabling faster, more reliable connectivity for industrial, commercial, and residential applications. By combining high-capacity optical cables with intelligent manufacturing and AI-driven production, the project supports Anhui's goal of becoming a leader in smart manufacturing and digital economy development. In summary, the Anhui Mobile Optical Cable Project represents a strategic investment in both telecommunications infrastructure and intelligent industrial transformation, leveraging advanced fiber technologies, 5G networks, and AI-enabled manufacturing to enhance efficiency, capacity, and regional competitiveness.

## Article Content

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YOFC Science Park was launched, and the foundation of YOFC Qianjiang Science Park was laid; optical fibre and cable plants were successively established within a year in Lanzhou, Shenyang, and

### Lasun Optic-Electric——Manufacturer and Service Provider of

Lasun Optic-Electric was established in Shenzhen in 2004 and headquartered in Anqing City, Anhui Province. It is a modern technology-based enterprise group integrating R&D, production and sales of

### Mobile "Smart" Manufacturing Empowers the Future | "Connection

With connectivity as the foundation and computing power as the core, Anhui Mobile is assisting traditional factories in undergoing a metamorphosis, revitalizing them into a modern

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The top four winners – ZTT, Hengtong, YOFC, and FiberHome – secured a combined 60% share of China Mobile's optical cable tender, equivalent to 59.3M

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Optical Communication Development in China During

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On May 23, 2025, the 20 Years of High-Quality Development of Anhui Wire and Cable Industry Conference convened in Hefei, gathering industry leaders, researchers, and experts to

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On July 8, Anhui Wanwei Group delivered China's first domestically developed large-width polyvinyl alcohol (PVA) optical film production equipment—marking a major milestone toward full ...

Cable Manufacturer Supplier

Anhui Tianxing Optical Fiber Communication Equipment Co., Ltd is a high-tech incorporated company specialized in the production of wire&cable for communication, products of communication and

Anhui Surxin: Leading the Way in network cables

Anhui Surxin stands as a leader in network cable manufacturing, committed to innovation and quality. Established in the early 2000s, the company offers a wide

Lasun Optic-Electric's 2025 Anhui New Products: Advanced

Discover Lasun Optic-Electric's 2025 Anhui-certified innovations: GDTZY Photoelectric Composite Cable for stable optical/electrical/data transmission & Class B1 flame-retardant sheathing material meeting

Anhui LASUN Communication Co., Ltd., a subsidiary of LASUN Group ...

As a well-known domestic manufacturer of information and energy transmission facilities and an internationally renowned ODM original design manufacturer of optoelectronic transmission cable

## White Paper on China International Optical Cable Interconnection

Foreword International optical cables are vital to global communications. With the vast majority of international data transmission occurring through submarine optical cables, a country's degree of

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