

# Fiber optic cable for China Telecom and China Unicom



## Overview

By selecting the right fiber optic equipment, you can ensure efficient and reliable network performance, ultimately supporting China Unicom's mission to deliver high-quality telecommunications services.

## Key Takeaways

Interconnection between China Telecom and China Unicom is typically achieved through shared backbone networks, CN2 routes, and enterprise-grade peering agreements rather than direct physical cable splicing.

## Overview of Fiber Infrastructure

Both China Telecom and China Unicom operate extensive fiber-optic networks across China, including terrestrial and submarine cables. China Telecom's network includes ChinaNet and CN2, a next-generation MPLS-optimized backbone with multiple international submarine cable connections and over 450 on-net data centers in Mainland China, supporting high-capacity, low-latency traffic between cities and overseas locations. China Unicom similarly maintains a robust fiber network with terrestrial and submarine links, offering cross-border connectivity and OTT services for enterprises.

**CN2 and Inter-Carrier Connectivity** The CN2 network is a key platform for interconnection. CN2 GIA (Global Internet Access) provides premium, low-latency connections and is backed by the top Chinese carriers, including China Telecom and China Unicom. Enterprises or service providers seeking to connect networks between these carriers typically leverage CN2 or other Tier-1 backbone interconnection points.

These connections are managed through Points of Presence (POPs) and Provider Edge (PE) routers, allowing traffic to traverse both networks without requiring direct physical fiber splicing.

### **Submarine and Terrestrial Cable Integration**

For international or cross-regional connectivity, both carriers participate in submarine cable systems such as the New Cross Pacific (NCP) Cable, which links the US and Asia and is jointly operated by China Telecom, China Unicom, and other consortium members. These shared cable systems provide a framework for inter-carrier traffic exchange and redundancy.

### **Practical Steps for Enterprise or Network-Level Interconnection**

**Engage Carrier Account Teams:** Enterprises or network operators must coordinate with both carriers to establish interconnection agreements, specifying bandwidth, SLAs, and routing preferences. **Select Interconnection Points:** Use shared POPs or data centers where both carriers have presence. These are typically in major cities or strategic network hubs.

**Configure Network Routing:** Implement MPLS or IP peering configurations to allow traffic to flow between the two networks. CN2 GIA or other backbone services can be used to optimize latency and reliability. **Compliance and Authorization:** Ensure all interconnection activities comply with China's MIIT regulations and carrier-specific policies.

**Physical fiber splicing** between carriers is generally restricted to authorized personnel and approved facilities. **Testing and Monitoring:** After configuration, monitor traffic performance, latency, and redundancy using carrier-provided tools or third-party network monitoring solutions.

### **Key Considerations**

Direct physical fiber splicing between China Telecom and China Unicom is rarely done outside of carrier-approved facilities. Most interconnections rely on shared infrastructure, peering, and MPLS routing. Using CN2 GIA or enterprise interconnection services ensures low latency, high reliability, and compliance with regulatory requirements.

Both carriers support cross-border and OTT connectivity, which can be leveraged for international enterprise networks. By leveraging shared backbone networks, CN2 routes, and authorized interconnection points, organizations can effectively connect fiber-optic networks between China Telecom and China Unicom while maintaining performance, reliability, and regulatory compliance.

## Article Content

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

By selecting the right fiber optic equipment, you can ensure efficient and reliable network performance, ultimately supporting China Unicom's mission to deliver high-quality telecommunications services.

### Inside China's fiber future

In an interview with RCR Wireless News, Kantipudi Pradeepthi, telecom analyst at GlobalData, described fiber as the foundation supporting

### 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 plans \$500 million subsea internet cable to rival US-backed ...

Reuters reports that China 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

### 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

### Five Reputable Optical Fiber Cable Manufacturers in China 2026 ...

These five manufacturers collectively represent a significant portion of China's optical fiber cable output, which underpins domestic telecom expansion and global AI data infrastructure.

### China's Top Telecoms Face Sabotage in Expansion into Schools

China Telecom has seen similar problems, having fiber optic cables cut at Nanjing Industrial Technical Institute. And China Unicom may have seen the worst of the sabotage, with fiber

### Fiber Optical Cable Corporation & Manufacturer

Trusted by industry giants like China Telecom, China Mobile, and China Unicom, we have built long-term, stable partnerships with major operators, earning a solid

### ITALY SELLS CHINA UNICOM FIBER OPTIC CABLES

SEARCHED FOR: ITALY SELLS CHINA UNICOM FIBER OPTIC CABLES PM Modi inaugurates first ever submarine optical fibre cable project for Andaman & Nicobar Islands 10 Aug,

G.654.E fiber\_Baiduwiki

In September 2021, China Telecom completed the construction of the country's first all-G.654.E terrestrial backbone optical cable, achieving 400G/s ultra-long-haul transmission in a live network.

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

Global Fiber Optic Cable Market Analysis | OPELINK

In China, the three major telecom operators procured over 182 million core-kilometers of fiber optic cable in the first eleven months of 2025 alone — the highest procurement volume in nearly

Developing Telecoms | Telecom news portal for

Partner Content Beyond robot races: Inside China Unicom and Huawei's innovations for the mobile AI era Operators Why agentic operations

Fiber Map of the World 2026

China's backbone consists of major domestic operators such as China Telecom and China Unicom, while India's National Optical Fiber Network (NOFN) aims to provide rural broadband by extending

Telecom Market Size, Share and Trends Report 2026 to 2035

Telecom systems are critical for enabling communication between people, businesses, and governments, and they operate through networks such as telephone lines, fiber-optic cables,

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

According to the four sources, China Mobile, China Telecom and China Unicom are planning one of the world's most advanced and far-reaching subsea cable networks in a bid to rival

Exclusive-China plans \$500 million subsea internet cable to ...

SINGAPORE (Reuters) - 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...

#### Related Video Reference

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

## Contact Us

Continue your research online:

Website: <https://bagyou.es>

Technical inquiry: <https://bagyou.es/project-enquiry.html>

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

