Height of China Unicom Optical Cable



Overview

Recently, a centralized procurement project of a provincial China Unicom company was announced to be terminated. However, the project was only launched half a month ago.

Key Takeaways

The standard installation height for China Unicom overhead optical cables is typically 5. 5 to 6 meters above ground, following common Chinese telecom engineering standards.

General Installation Guidelines

For overhead optical fiber cables, China Unicom generally follows the China Telecom and industry standards for aerial cable installation: Height above ground: Typically 5. 5–6 meters for roads and public areas to ensure safety and clearance for vehicles and pedestrians. In areas with heavy traffic or special requirements, heights may be increased to 7–8 meters.

Pole spacing: Standard spans between poles are usually 40–60 meters, depending on terrain, cable weight, and environmental conditions. Mechanical protection: Cables are often armored or reinforced to withstand wind, ice, and mechanical stress, as described in technical specifications for 24-fiber or 48-fiber armored cables, which include HDPE sheaths and corrugated stainless steel armoring with minimum corrugation height of 0. 6 mm and pitch of 2.

5 mm. Environmental tolerance: China Unicom's optical cables, including G. 654.

© 2026 EXF OPTICAL NETWORKS - All rights reserved

E LEA

F fiber, are designed for harsh environments such as deserts, snow mountains, and expressway pipelines, ensuring long-term stability and low attenuation.

Cable Structure

China Unicom optical cables typically follow these structural standards: Loose tube design with central strength memberFilling compound to prevent water ingressOuter sheath marking with manufacturer, year, type, and length intervalsStandard reel lengths: 2–3 km per drum, sealed to prevent moisture during transport NotesUnderground or pipeline installations follow different height and spacing requirements, often dictated by conduit dimensions and local regulations. The exact height may vary depending on local municipal codes, road type, and environmental conditions, but the 5. 5–6 meter range is widely used for aerial deployment in China.

By adhering to these standards, China Unicom ensures safe, reliable, and long-lasting optical fiber deployment across urban and rural areas.

Article Content

Operation of China Unicom laying optical cable

Overview China Unicom Group, one of China''s major telecommunications operators, has revealed plans for the construction of a nearly 3,000-kilometer-long submarine optical fiber cable, which will span

A provincial company of a certain operator temporarily stopped ...

Recently, a centralized procurement project of a provincial China Unicom company was announced to be terminated. However, the project was only launched half a month ago.

Optical fiber and cable market: This year is a "big year"

Larger-scale procurement is on the way. Recently, the results of China Unicom''s 2024 optical cable centralized procurement project were announced. 15 optical fiber and cable companies shared this

China Unicom

China United Network Communications Group Co., Ltd., doing business as China Unicom, is a Chinese state-owned telecommunications operator.

China Unicom underground optical cable

© 2026 EXF OPTICAL NETWORKS - All rights reserved

The nearly 3,000-kilometer submarine optical fiber cable will run from Hong Kong to Sihanoukville in southern Cambodia, China Unicom announced yesterday, citing a deal it signed with

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

China Unicom has solidly advanced the “Three-Year Action Plan for Mobile Network Quality Improvement” and the “Special Action for Network Operation Quality Enhancement”, achieving

YOFC Assists Three Major Operators in Advancing the

These world records in optical transmission represent a crucial step forward in advancing hollow-core fibre transmission systems towards greater capacity and longer distances.

Optical Fibre Cable Technical Specification

This Specification covers the design requirements and performance standard for the supply of optical fibre cable in the industry. YOFC ensures a stable quality control system for our cable products

Lingshui International Submarine Cable Landing Station

The "Lingshui International Submarine Cable Landing Station" is located in Lingshui Li Autonomous County, Hainan Province, and serves as the terrestrial terminal facility for international submarine

720-core triple-network integrated sc full-configuration cabinet ⚡ ...

Remember the first time you took over the renovation of the community optical junction box? three tables - china mobile 144 cores, china telecom 288 cores, and china unicom 144 cores, all

China Telecom Guangdong Launches Hollow-Core Optical Cable

China Telecom, China Mobile, and China Unicom have all initiated pilot projects and deployments in various regions. In November 2024, China Telecom Zhejiang Branch completed the

Global Fiber Optic Cable Market Analysis | OPELINK

The fiber optic cable industry is witnessing a structural transformation from a cyclical commodity market to a technology-driven growth sector, with premium fibers commanding 20-30%

White Paper on China International Optical Cable Interconnection

© 2026 EXF OPTICAL NETWORKS - All rights reserved

China''s international interactions, requirements on its networks'' ability to provide global services, and both opportunities and challenges in the submarine optical cable industry. Chinese enterprises

What China''s Major Submarine Cable Means for U.S. Network Architects

Reuters says China''s state-owned telecom firms are building a $500 million fiber-optic internet cable network on the sea floor. China Telecommunications Corporation (China Telecom),

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

China Unicom to Build Cambodia''s First State-Owned

The nearly 3,000-kilometer submarine optical fiber cable will run from Hong Kong to Sihanoukville in southern Cambodia, China Unicom announced

Nanhui Cable Landing Station (FLAG)

Nanhui Cable Landing Station (FLAG landing station) locates in Luchao Harbor, Nanhui, Shanghai, China. Nanhui CLS is owned and operated by China Unicom.

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

The Company will continuously strengthen the construction of new infrastructure, accelerate the reshaping and renewal of the backbone optical cable network, promote the sharing and upgrade

© 2026 EXF OPTICAL NETWORKS - All rights reserved

Contact Us

Continue your research online:

Website: https://explosivefunctions.co.za
Technical inquiry: https://explosivefunctions.co.za/contact.html
EU project coordination: Parque das Nações, Lisbon, Portugal

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

© 2026 EXF OPTICAL NETWORKS - All rights reserved