# Methods for patching fiber optic cables for China Unicom



## Overview

Insert one end of the fiber optic cable into the patch panel port. Connect the other end of the fiber optic cable to the networking device, such as a switch, router, or media converter.

## Key Takeaways

Fiber optic patching for China Unicom involves using standardized patch cords, pig tails, and patch panels with careful adherence to routing, splicing, and management standards.

### Fiber Patch Cords and Pig Tails

China Unicom uses fiber patch cords and pig tails for connecting optical fibers to active devices or extending existing networks. Patch cords are available in singlemode or multimode and can be ordered with standard connectors such as LC, SC, or MT-RJ. Pig tails are typically used for fusion splicing to building cables or optical devices, ensuring low insertion loss and high return loss ( ).

### Patch Panels and Enclosures

Patch panels act as the central hub for fiber distribution.

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## UNICO

M provides 1RU and 2RU rack-mountable panels that can manage 12 to 72 fibers. These panels allow for fiber termination, fixation, splicing, and patching. They often include fusion splice trays with transparent covers to protect splices and maintain organization.

Proper mounting ensures easy access and secure cable management ( ).

## Patching Procedure

Identify the optical cross-connects and splitters in the network and locate the corresponding ports ( ). Determine the fiber core sequence and the splitter port to be patched. Connect the patch cord from the splitter port to the user's fiber cable port, ensuring the correct sequence.

Maintain proper cable slack and avoid exceeding a surplus of 500mm. Observe minimum bend radius requirements (typically 400mm) to prevent signal loss or fiber damage. Route fibers inside the ODF frame: cables should ascend only once inside and outside the frame, avoiding wrapping or hanging across multiple spools ( ).

## Cable Management Best Practices

Use compression fittings to secure entering cables on sliding trays. Employ rear and front fiber clips to manage slack while maintaining minimum bend radius. Ensure neat, aesthetic cabling for ease of operation and minimal space usage.

Avoid temporary external routing; all patch cables should remain within the ODF or integrated box ( ).

## Summary

For China Unicom, effective fiber optic patching combines high-quality patch cords and pig tails, properly configured patch panels, and strict adherence to routing and splicing standards. Following these methods ensures low insertion loss, high return loss, and reliable network performance.

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We test each of our fiber optic patch cables before packing to meet stringent industry standards. We offer custom fiber optic assemblies at the most cost effective price with guaranteed quality assurance.

A Comprehensive Guide to Fiber Optic Patch Cables

This comprehensive guide discusses the differences between the different fiber optic fiber cores, connector types, and jacket types. Read more here.

Fiber-optic cable

A fiber-optic cable, also known as an optical-fiber cable, is an assembly similar to an electrical cable but containing one or more optical fibers that are used to carry light.

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ODF: Optical Distribution Frame

ODF, or Optical Distribution Frame, is a high-capacity, high-density frame used for fiber optic cable connection, distribution, dispatch, and management.

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