

Article Overview

China Unicom primarily uses passive optical splitters, including both Fused Biconical Taper (FBT) and Planar Lightwave Circuit (PLC) types, depending on network scale and application.

Types of Splitters

1. Fused Biconical Taper (FBT) Splitters FBT splitters are widely used in smaller-scale deployments, such as 1x2 or 1x4 configurations. They are made by fusing and tapering two or more fibers together, allowing control over the splitting ratio. FBT splitters are cost-effective and adjustable but are sensitive to wavelength and temperature variations, making them suitable for short-distance or low-port-count applications . 2. Planar Lightwave Circuit (PLC) Splitters PLC splitters are preferred for larger-scale networks, such as 1x16, 1x32, or 1x64 splits, commonly used in FTTH (Fiber-to-the-Home) and GPON deployments. They are fabricated using photolithography on silica substrates, providing uniform splitting ratios, low insertion loss, and high spectral uniformity. PLC splitters are compact, reliable, and less sensitive to environmental changes, making them ideal for carrier-grade networks like China Unicom's .

Deployment Considerations

- o Split Ratios: China Unicom uses splitters with ratios ranging from 1:2 up to 1:64, depending on the number of subscribers served by a single fiber line .
- o Interfaces: Splitters typically support SC, LC, FC connectors with UPC or APC polish types. APC connectors are preferred for long-distance transmission due to lower reflectance .
- o Passive Operation: These splitters are passive devices, requiring no power, which enhances reliability and reduces maintenance costs .
- o Durability: Carrier-grade splitters used by China Unicom are designed for high stability, low insertion loss, and resistance to environmental stress, ensuring consistent performance in residential and commercial deployments .

Summary

China Unicom's fiber optic network relies on both FBT and PLC splitters, with FBT used for smaller, simpler configurations and PLC for large-scale, high-port-count deployments. These splitters are passive, durable, and compatible with standard telecom interfaces, supporting efficient FTTH and GPON services across China .

The construction of our splitter allows for a wide operating wavelength range as well as reliable and



China Unicom optical splitter model

Unicom Mobile Universal Telecom Grade Fiber Optic Equipment 1/2 Optical Splitter 1/2 Tail Fiber Tapered SC LC FC From China No

The optical splitter is an optical power distribution device that splits one optical signal into multiple optical fiber signals

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Our Optical Splitter offers exceptional quality within the Fiber Optic Equipment category. Selecting factory-priced fiber optic equipment

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View results and find data parameters of china unicom optical splitter datasheets and circuit and application notes in pdf format.

Splitter & WDM T&S PLC optical splitters deliver low insertion loss and stable performance, making them ideal for FTTX signal

What brand of optical splitter does China Unicom use GrenTech specializes in the development and production of optical splitters,

Haian Huijue Network Communication Equipment Co., Ltd. is a professional outdoor cabinet supplier. With 20 years of focus, it

China Optic Splitter wholesale - 2026 Optic Splitter products in best price from Chinese Optic Fiber manufacturers, FttH suppliers,

Free-space optical communication technology has long been in experimental stages without extensive real-world

China Unicom is a leading Chinese telecommunications provider specializing in fiber optic solutions, 5G networks, and high-speed

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HK, hereinafter referred to as " YOFC ") passed the acceptance by China Unicom in Hami-Barkol, Xinjiang and Jinan



China Unicom optical splitter model

This 16-port fiber optic splitter box is one of the most commonly used devices for property management in residential communities

Web: <https://bssoda.pl>

