

What is the maximum length that a fiber optic splitter can support



Overview

Single-mode fiber (SMF) supports distances up to 40-100+ kilometers for standard applications, while multimode fiber (MMF) is typically limited to 300 meters to 2 kilometers. The actual distance depends on factors including fiber type, wavelength, network equipment, and signal. For example, a fiber optic cable with a distance of 1km supports a bandwidth of 500MHz, while a fiber optic cable with a distance of 2km can only support a bandwidth of 250MHz. There are three main reasons for this: First, high-bandwidth signals are more susceptible to chromatic dispersion than. A fiber optic splitter is a passive optical component that divides a single incoming optical signal into two or more outgoing signals, or combines multiple incoming signals into one. Unlike active devices (which require power), splitters operate without electricity, relying solely on the physics of. The maximum distance for single mode fiber optic cable can extend up to several hundred kilometers, making it ideal for long distance data transmission. One type of single mode fiber is known as "G. 652," which is commonly used in telecommunications networks. Splits are most commonly factors of 2, such as 1x2, 1x4, 1x8, 1x16, 1x32. Q: Do your splitters support GPON wavelengths?

A: Yes, our PLC splitters support 1260-1650nm, covering GPON, EPON, XGS-PON. Q: Can I order splitters with my own logo?

A: Absolutely. OEM customization for logo, labeling, and packaging is available.

Article Content

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PLC splitters are somewhat more versatile than FBT splitters and can support a range of operating wavelengths between 1260nm and 1650nm. They have higher

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Single-mode optical fiber

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