

Provide fiber optic communication services



Article Overview

Fiber optic communication services provide high-speed, reliable, and secure data transmission using light signals through optical fibers, ideal for businesses and large-scale networks.

Overview of Fiber Optic Communication

Fiber-optic communication transmits information by sending pulses of infrared or visible light through optical fibers, which act as carrier waves modulated to carry data. This technology is preferred over traditional electrical cabling for its high bandwidth, long-distance transmission, and immunity to electromagnetic interference, making it suitable for voice, video, and internet communications across local and wide-area networks (LANs and WANs) (Wikipedia) . Fiber optics are widely used by telecommunications companies for telephone, internet, and cable TV services, and also in medical, defense, industrial, and commercial applications .

Types of Fiber Optic Services

- **Installation and Cabling:** Professional installation is crucial due to the precision required in handling fiber strands. Services include laying single-mode or multimode fiber, splicing, and connecting to network infrastructure. Single-mode fiber supports long-distance, high-speed communication, while multimode fiber is cost-effective for shorter distances (Manhattan Business Phone Systems) .
- **Splicing and Testing:** Fiber-optic splicing joins two fibers to extend distance or repair damage. Mechanical splicing is quick and suitable for short-term fixes, while f...

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