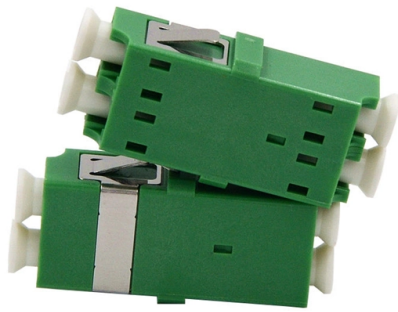


Central Asian Five Countries Solution Extending Fiber Optic Cables OS2



Article Overview

Connecting the five Central Asian countries via OS2 single-mode fiber enables long-distance, high-speed regional broadband infrastructure.

Overview of the Regional Fiber Optic Network

The goal is to establish a regional fiber optic backbone linking Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan. This network aims to provide modern, affordable, and reliable broadband services for government, business, and public users across borders. The approach involves interconnecting existing national broadband networks and constructing new fiber segments where gaps exist, ensuring continuous high-speed connectivity across the region .

Why OS2 Fiber is Recommended

OS2 single-mode fiber is ideal for this project due to its long-distance performance and high bandwidth capabilities:

- **Core and Light Transmission:** OS2 has a small 9µm core and uses laser light sources, allowing light to travel in a single path, minimizing signal loss over long distances .
- **Distance and Speed:** Supports up to 100Gbps over 40 km and can extend to 200 km for 1Gbps, making it suitable for cross-country and inter-city links .
- **Outdoor Deployment:** OS2 fibers are designed for rugged outdoor environments, i...

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