

## Fiber optic cable splicing between Croatia and Kazakhstan



### Overview

Kazakhstan completes key stage of trans-Caspian Fiber Optic Cable Kazakhstan has completed the most technically challenging stage of the Trans-Caspian Fiber.

### Key Takeaways

The Trans-Caspian Fiber-Optic Cable Project is establishing a high-capacity digital corridor between Europe and Kazakhstan, enhancing connectivity across Eurasia. Overview of the Trans-Caspian Project

Kazakhstan and Azerbaijan are collaborating on the Trans-Caspian Fiber-Optic Cable Line, a key component of the Digital Silk Way initiative, aimed at creating a robust digital corridor between Europe and Asia . The project involves laying a 380 km submarine fiber-optic cable across the Caspian Sea, connecting Sumgait in Azerbaijan to Aktau in Kazakhstan. The cable is designed to support data transmission speeds of up to 400 terabits per second, providing low-latency, high-capacity connectivity .

### Technical and Implementation Details

The project is being implemented by AzerTelecom in partnership with Kazakhtelecom, with Pioneer Consulting supervising the construction, including route engineering, permit acquisition, and quality assurance . The construction process includes:

- Detailed marine surveys and seabed assessments
- Design and production of durable, high-quality fiber cables

- Installation and splicing of the submarine cable along the seabed
  - Integration with terrestrial fiber networks in both countries The project is expected to be completed by the end of 2026 .
- Implications for Regional Connectivity

Although the current project does not directly connect to Croatia, it forms part of a broader European-Asian digital network, potentially linking to European fiber networks through Azerbaijan and Turkey. This infrastructure will:

- Strengthen Kazakhstan's role as a digital bridge between Europe and Asia
- Diversify international communication channels and improve resilience against disruptions
- Enable high-speed data transit for regional and global internet traffic
- Support emerging technologies such as 5G and cloud services

#### Fiber Optic Infrastructure in Croatia

In Croatia, companies like ELEKTRO IMBER provide comprehensive FTTX (Fiber to the X) solutions, including fiber splicing, distribution boxes, patchcords, and splitters . These capabilities allow Croatia to integrate with international fiber networks, potentially linking to transcontinental projects like the Digital Silk Way through regional interconnections.

#### Conclusion

While there is no direct fiber optic cable currently connecting Croatia to Kazakhstan, the Trans-Caspian Fiber-Optic Cable represents a major step in creating a high-capacity Eurasian digital corridor. Croatia's existing fiber infrastructure and expertise in FTTX deployments could facilitate future integration with this network, enabling faster, more reliable data transmission between Europe and Central Asia .

## Article Content

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The large-scale infrastructure project aims to build a high-capacity transit fiber-optic network linking Europe with

Trans-Caspian Fiber Optic Cable Delivered to Kazakhstan

Developed by a joint venture between Kazakhstan's Kazakhtelecom and Azerbaijan's AzerTelecom, the approximately 380-kilometer

Azerbaijan, Kazakhstan complete offshore installation of Trans

Offshore cable-laying operations, launched in July 2026, were carried out around the clock by a specialized vessel with

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The project – the first of its kind in the world – will lay a backbone fiber-optic cable between Europe and Asia, through

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The new cable, laid along the Aktau–Sumgayit route, will create a high-speed data transmission corridor between Asia

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Trans-Caspian fiber-optic line between Kazakhstan and ...

The fiber-optic line's bandwidth will be up to 400 Terabits per second. Kazakhtelecom is the leading communication

Trans-Caspian Fibre-Optic line between Baku, Astana promises to

Practical work on the Trans-Caspian Fiber-Optic Cable Line between Azerbaijan and Kazakhstan is set to begin this

Azerbaijan, Kazakhstan to build underwater fiber optic cable

The Trans-Caspian Cable Project, strategically important for the region, involves the construction of a 380 km

Fiber Optic Cable Splicing Explained

Splicing in optical fiber is the joining two fiber optic cables together. There are 2 methods of cable splicing, mechanical

How Trans-Caspian Cable Fits Kazakhstan's Evolving Connectivity ...

Among the clearest examples of this shift is the Trans-Caspian fiber-optic cable project. The first-ever underwater

Azerbaijan, Kazakhstan complete offshore installation of Trans

A key stage in the construction of the Trans-Caspian fiber-optic communication line across the Caspian Sea has been

### Steps of Fusion Splicing Fiber Optic Cables

Fusion Splicing means securely connecting two optical fibers by heating their end faces and pushing them together to

### Azerbaijan, Kazakhstan Advance Trans-Caspian Fiber-Optic Cable

The Trans-Caspian Fiber Optic Cable is a key component of the “Digital Silk Way” project, initiated and implemented

### Transcaspian Fiber Optic Project

The Transcaspian Fiber Optic project aimed to establish a strategic submarine cable across a geopolitically sensitive and

### Trans-Caspian Fibre-Optic Cable Line: Key element of Digital Silk Road

The Trans-Caspian Fibre-Optic Cable Line (TCFO) is an ambitious infrastructure project aimed at establishing a high

### Fiber Optic Cable – Method of Joining and Fusion Splicing

Learn about the fiber optic cable operating principle, types, connectors, method of joining and fusion splicing.

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