European Optical Cable Route

Summary of Content

Europe's optical cable network consists of extensive terrestrial and submarine fiber routes connecting countries across the continent and linking Europe to North America and other regions.

Submarine Cable Routes

Europe is connected to other continents through a network of submarine fiber optic cables. Major transatlantic routes link Europe to North America, with operators like EXA Infrastructure managing eight diversified subsea cables, including the EXA Express, a 4,600 km high-performance route, currently the fastest transatlantic fiber link . These cables are critical for international data traffic, cloud connectivity, and global internet backbone operations. TeleGeography's Submarine Cable Map provides an interactive visualization of these undersea routes, showing landing stations and cable paths .

Terrestrial Fiber Networks

Within Europe, extensive terrestrial fiber networks span thousands of kilometers, connecting major cities, data centers, and regional hubs. EXA operates over 174,500 km of high-capacity fiber across 37 countries, with more than 500 optical Points of Presence (PoPs) and over 65,000 km of 400G-enabled routes . Similarly, the SEFE network offers an interactive map of fiber-optic routes across Europe, allowing users to explore city connections, districts, and detailed fiber paths . These networks support high-speed broadband, enterprise connectivity, and inter-data center communication.

Mapping and Visualization Tools

Article Content

Fibre-optic Link Around the Globe

Fibre-optic Link Around the Globe (FLAG) is a 28,000-kilometre-long (17,398 mi; 15,119 nmi) fibre optic mostly- submarine

Fiber Map of the World 2026

Europe maintains one of the most interconnected terrestrial fiber landscapes, with routes linking London, Frankfurt, Amsterdam, and

OpenFiberMap — Global Fiber Optic Network Map

Free, open-source, interactive 3D map of the world''s terrestrial fiber optic networks. Browse routes, IXPs, data centers, and landing

EXA Infrastructure: Connecting Europe and North America

Our routes extend throughout Europe and North America, crossing the Atlantic via eight diversified subsea cables (three wholly

Interactive map

Explore our fibre-optic grid with our interactive map: Zoom into the map in seven steps (zoom levels) to view the route in detail or

Internet Infrastructure Map (2026)

Explore the physical backbone of the internet with our interactive map of undersea fiber optic cables, peering exchange points, and

Broadband infrastructure mapping (RP2023) | Interoperable Europe

It consists of an interactive online mapping application that aggregates and visualizes various dimensions of quality of service (QoS)

Broadband infrastructure mapping (RP2020) | Interoperable Europe

In this context, the European Commission has launched a project to map fixed and mobile quality of broadband services in Europe.

Network Maps: Europe

Both pan-European and regional networks are welcome. Where only a global map is available, such as for the larger telecoms, I

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