

Norway Japan Optical Cable



Summary of Content

The Far North Fiber is a trans-Arctic submarine cable linking Japan and Norway, providing low-latency, high-capacity connectivity between Europe and Asia.

Overview

The Far North Fiber (FNF) is a proposed 15,000–17,000 km submarine fiber-optic system connecting Japan, Norway, and Europe via the Northwest Passage, with branches to Alaska, Canada, and Greenland . The project is a joint venture between Cinia Oy (Finland), Far North Digital (USA), and Arteria Networks (Japan), with Alcatel Submarine Networks supplying the cable technology . The system is designed to operate entirely through international waters and the maritime boundaries of allied nations, enhancing geopolitical resilience and avoiding traditional chokepoints like the Red Sea and South China Sea .

Technical Specifications

- Fiber Pairs: 24 pairs (12 for express route, 2 for local add/drop)
- Design Capacity: 15 Tbps per pair, with potential evolution to 18–20 Tbps per pair
- Latency: Estimated 142 ms round-trip delay from Tokyo to London, significantly lower than existing routes
- SMART Cable Technology: Integrated sensing for oceanographic and seismic monitoring alongside commercial traffic
- Expected Ready-for-Service: End of 2026, with further branches added later

Route and Strategic Significance

Article Content

Japan Optical Fiber Cable Market Overview, 2028

The Japan Optical Fiber Cable market is expected to add 4.45 Billion from 2023 to 2028.

Norway's submarine cable network provides world-class connectivity

A recent flourishing of submarine fibre optic cables, however, has provided Norway with direct, secure and fast links

Top Fiber Optic Cable Manufacturers in Norway

The Fiber Optic Cable industry in Norway presents several key considerations for potential investors and companies interested in the

State backs Norway's fibre cable capacity building

Norway's capacity-building on the digital, datacentre and cloud fronts will also benefit from the trans-Arctic Northeast

Far North Fiber

The Far North Fiber is a 17,000km submarine cable system linking Europe and Asia through the Arctic region, from Japan, via the

SJC2 optical submarine cable in operation: Press Releases | NEC

The SJC2 consortium announced today with NEC Corporation (NEC; TSE: 6701) the completion of construction and

Japan-USA-Europe fibre link takes the Northwest Passage

Route planning has started on the pan-Arctic submarine cable that could link Europe, North America and Asia via the

Submarine Cable Map

TeleGeography's comprehensive and regularly updated interactive map of the world's major submarine cable systems

Far North Fiber

Far North Fiber, also called Far North Fiber Express Route, is a proposed 14,000 km long submarine fiber-optic cable connecting

NTT Develops the World's Highest-Capacity 192-Core Submarine

NTT developed the world's highest-capacity 192-core submarine cable system using multicore optical fiber (MCF),

Space Norway

Space Norway delivers essential satellite services to governments, commercial maritime and land-based industries, as

Arctic data cable linking Europe to Japan secures first investment

A plan to build the first fibre-optic cable across the Arctic has secured its first investment, the consortium behind the 1.1

Cinia and Far North Digital to develop \$1.15bn pan-Arctic submarine ...

North American telecoms infrastructure development company Far North Digital and Finnish networks provider Cinia

Japanese Fiber Optic Cable Manufacturers

Japan is renowned for its technological innovations and high-quality manufacturing, and this reputation extends into

Fibre optic cables | Space Norway

Discover fibre optic cables connecting Svalbard to mainland Norway, supporting government, residents,

Connectivity — Norsk Datasenter Industri

The majority of traffic in high-capacity networks flows through fiber optic cables, and the latency will basically depend on the time it

High Speed Fiber Networks — Far North Digital

Far North Fiber project is a 14,000 km (Japan to Europe) subsea fiber optic cable system with landings in United

Top Fiber Optic Cable Manufacturing Companies in Norway

When exploring the Fiber Optic Cable Manufacturing industry in Norway, several key considerations come into play. The country has

A trans-Arctic undersea cable attracts Norwegian and Japanese partners

Headed by Sojitz trading house, six Japanese partners have now teamed up for the final feasibility study of the trans

Top 55 Fiber Optic Cable Manufacturers in Japan (2026) | ensun

Top Fiber Optic Cable Manufacturers in Japan The B2B platform for the best purchasing decision. Identify and compare relevant B2B

Fiber Optic Cables Suppliers in Japan

Locate Fiber Optic Cables suppliers, manufacturers & distributors in Japan. Interactive map of Japan provided.

Far North Fiber

Far North Fiber is a submarine fiber-optic cable system under development, spanning approximately 14,000–14,500 kilometers to

Japan Exports of optical fibres, optical fibre bundles and cables to ...

Japan Exports of optical fibres, optical fibre bundles and cables to Norway was US\$867.33 Thousand during 2023, according to the

Norway Imports from Japan of Optical Fibres, Optical Fibre Bundles

Norway Imports from Japan of Optical Fibres, Optical Fibre Bundles and Cables was US\$747.07 Thousand during 2022, according

Norway's submarine cable network provides world-class

Norway's submarine cable network provides world-class connectivity A rapidly expanding

Fiberoptic Cables and Components

Here you will find an overview of all our fiber cables and components for fiber optic networks and communication.

Norway's Optical Fiber Cables Market Report 2026

The optical fiber cables market in Norway has experienced significant developments from 2020 to 2024, with notable

New submarine cable to link Japan, Europe, through famed Northwest Passage

So Finnish company Cinia and US telco infrastructure company Far North Digital have agreed to build a submarine

NORDUnet commitment to Far North Fibre

The FNF Submarine Cable System will interconnect Scandinavia and Japan through the Northern Arctic. The cable

Home | Seaworks Kabel

The project has been executed according to the plans for progress and costs, with good cooperation

Top Fiber Optic Telecommunications Companies in Norway

The Fiber Optic Telecommunications industry in Norway is shaped by several key considerations for those looking to engage with

Progress toward increasing capacity of transoceanic optical submarine ...

To meet such increased communication demand, transmission capacities using optical submarine cable systems

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