

What is the Asia-Europe Optical Cable

Article Overview

The Asia-Europe Optical Cable, known as AAE-1, is a 25,000 km submarine fibre-optic system connecting Southeast Asia to Europe, providing high-capacity international internet connectivity.

Overview

The Asia-Africa-Europe 1 (AAE-1) cable is a major submarine communications system that links Hong Kong, Vietnam, Cambodia, Malaysia, Singapore, Thailand, Myanmar, India, Pakistan, Oman, UAE, Qatar, Yemen, Djibouti, Saudi Arabia, Egypt, Greece, Italy, and France . Launched for commercial service in June 2017, it was one of the longest submarine cables in the world at the time . The cable is designed to support the growing broadband and data traffic between Asia, Africa, and Europe.

Technical Specifications

- o Length: 25,000 km
- o Fibre Pairs: 5
- o Design Capacity: Initially 40 Tbit/s, upgraded to over 100 Tbit/s in 2022 using Infinera ICE6 800G technology
- o Landing Stations: Includes major hubs such as Telecom House in Hong Kong, Equinix in Singapore, and Interxion in France
- o Consortium: Over 17 carriers, including China Unicom, Reliance Jio, Telecom Egypt, Viettel, and others

Route and Geography

AAE-1 spans the Indian Ocean, Red Sea, and Mediterranean, with Egyptian landings at Zafarana (Red Sea) and Abu Talat (Mediterranean), bypassing the Suez Canal via terrestrial crossings . The cable connects multiple countries through 20 landing stations, providing redundancy and high availability for international data traffic .

Significance

Submarine cables like AAE-1 carry the vast majority of intercontinental internet traffic, supporting cloud services, streaming, and global communications . AAE-1 enhances connectivity between Asia and Europe, reduces latency, and provides a high-capacity backbone for enterprises, carriers, and cloud providers. Its upgrades ensure it remains competitive in handling modern data demands, including AI workloads and high-speed internet services .

Additional Notes

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AAE-1 is part of a broader network of Asia-Europe submarine and terrestrial links, complementing other systems like TRANSKZ, which provides a terrestrial DWDM route between Hong Kong and Frankfurt with low latency and high reliability . Together, these networks form the backbone of global internet infrastructure, ensuring resilient, high-speed connectivity across continents.

These invisible highways, consisting of fiber-optic wires connecting landing points, are placed hundreds of metres

The AAE-2 subsea cable will enhance global internet resilience, unlock new digital growth opportunities across

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

Image source: Submarine Cable Networks Cinturion Corp, Ltd. has recently announced a partnership with the Asia and Australia are now connected to Europe by fibre-optic cables which tend to hug the coastlines of the Asian

As of March 7, several organizations have confirmed that at least four Asia-Europe "communication cables" through the

These invisible highways, consisting of fiber-optic wires connecting landing points, are

Israel will build a 254-kilometre (158 mile) fibre-optic cable between the Mediterranean and Red Sea, creating a

PEACE Cable, which stands for Pakistan and East Africa Connecting Europe, is a submarine cable project designed to facilitate data

NEQSOL Holding announces Trans-Caspian Fiber Optic Cable Line connecting Europe, Asia and the Caspian Sea, in

Building on the legacy of the AAE-1 cable, AAE-2 will incorporate the most advanced technological innovations

Cinturion Corp Ltd. says it has launched construction of the Trans-Europe Asia System (TEAS), a fiber network that will combine

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

The Asia-Africa-Europe-1 (AAE-1) Consortium has launched commercial services on the 25,000-km AAE-1 submarine cable system,

News The Asia-Africa-Europe-2 (AAE-2) will provide "seamless, reliable connectivity across the three continents" to

Euro-Asia Network Solution (ENS) is a superior solution offering exceptional reliability and secure connectivity between all major

Web: <https://www.kremgroup.co.za>

