EU promotes fiber optic communication



Overview

The Gigabit Infrastructure Regulation, effective November 12, 2025, simplifies and reduces costs for building high-speed networks by promoting shared infrastructure, digitalizing permits, and establishing central information points. Advanced digital network infrastructure and digital services will be key in shaping the competitiveness of many European Union (EU) sectors – among them manufacturing, energy and healthcare – in the near future. Whatever forms the digitalisation will take and whatever technologies it may be using, a strong, robust. The EU has recently announced an investment of nearly 900 million euros to accelerate the rollout of 5G technology and fiber optic networks across its member states. The existing taxonomy activities cover targeted aspects of digitalisation.

Article Content

A future-proof network for Europe: Full fibre and 5G

In this context, it discusses the current state of full fibre and 5G mobile technology in the EU, including the challenges of attracting private investment, and explores new business models for network

ELFA European Election Paper 2024

The European Local Fibre Alliance (ELFA) shares the European Union''s ambition to bring all-fibre networks (FTTH/B) to all European households and businesses ensuring that all parts of Europe

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Secure, reliable, robust, sustainable, high-quality optical fibre telecommunication networks will make this Europe''s Digital Decade by laying the foundation of an increasingly

EU Invests Nearly 900 Million Euros to Accelerate 5G and Fiber Optic ...

The acceleration of fiber optic cable development and 5G deployment will not only enhance Europe''s digital capabilities but also position it as a leader in the global digital economy.

Europacable calls for the inclusion of optical fiber cables in the EU ...

Including optical fibre cables in the EU Taxonomy is essential for fostering energy efficiency, reducing emissions, and ensuring the development of resilient, future-proof telecommunications infrastructure.

Home Page | FTTH Council Europe

Creating a Brighter Future The FTTH Council Europe is an industry association with a mission to advance ubiquitous full fibre-based connectivity to the whole of Europe.

FTTH Deployment in Europe: Policy & Regulations

The European Commission, European Parliament, and Council of the European Union work together to shape policies and regulations that support FTTH deployment. Their roles

Full-fibre networks in Europe: state of play and future evolution

Europe is no exception: fibre networks have been expanding, driven by a combination of private investment and competition, and by ambitious policy targets to connect every European to a

New EU obligations to equip buildings with fiber-optic cables

Section 145 para. 4 and 5 of the German Telecommunications Act (TKG) already stipulates that passive infrastructures accommodating fiber optic lines must be installed in new

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High-quality, energy efficient fibre telecommunication networks High-quality, energy efficient optical fibre telecommunication networks will be the

New EU obligations to equip buildings with fiber-optic cables

However, the proposed new EU Regulation goes beyond this, because it also requires the building to be equipped with fiber wiring.

The state of the fibre network in Europe from

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Discover how the fibre network in Europe is evolving. Explore key trends, challenges, and opportunities for FTTH/B from 2023-2029.

Fiber communication trends across the EU

These efforts are notable, and, although the EU is taking appropriate steps toward advancing its fiber networks, it''s easy to fall short. Do fiber

European Commission commits €865m funding for 5G, fibre networks

EU accelerates space connectivity programme: European Commission puts forward a plan for an EU space-based secure communication system designed to ensure long-term availability

Accelerating the Pace of Green Fibre Broadband Adoption in Europe

European markets are embracing fibre, but the pace of adoption varies enormously despite the clear benefits and alignment with European views on sustainability. To further accelerate

Connectivity | Shaping Europe''s digital future

These encompass system architecture, wireless communication, infrastructure, reliable services, smart security, and societal impacts. Moreover, the EU promotes collaboration with the US on pivotal 6G

The Future of Business Connectivity: From Fiber Optics to Satellite ...

The future of EU business connectivity hinges on integrating fiber optics and satellite networks to enhance digital infrastructure and support growing demands like 5G, IoT, and cloud

Streamlining conversion to fibre-optic cables will

Streamlining conversion to fibre-optic cables will enhance Europe''s competitive edge Many European countries are struggling to upgrade their

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