



eunetworks

**Super Highway  
Dublin to London  
including Rockabill**





Over 1,000 km of state-of-the-art critical fibre infrastructure across the UK and Ireland, including the 224 km Rockabill subsea cable. This Super Highway's unique routing, new amplification stations, and new ultra low-loss fibre provides a modern alternative to other fibre systems in the region.

### Key features

- Rockabill is one of the newest subsea systems in the North Irish sea, delivering high bandwidth services against legacy systems over 20 years old.
- Best in class low-loss fibre types deliver consistent, high performance in both terrestrial and subsea sections.
- Newly built amplification sites - designed with sustainability in mind, the ILA and CLS sites are built with highly efficient, modern cooling equipment that significantly reduces long-run power demands. This enables a much lower power consumption per bit and an optimised lower carbon footprint, delivering greater efficiency benefits to our customers.
- Unique route options from Manchester to London, including diversity that connects to data centres in Leeds, or bypasses it entirely to avoid regional congestion and competitors routes in the area.
- Our Central London bypass allows Dublin to Amsterdam connectivity avoiding London congestion.



1,300 km | 2 CLS 6 ILAs | G657A1 (terrestrial) G654C (subsea)

# Super Highways

**New and unique state-of-the-art long-haul fibre networks.  
Built, owned and operated by euNetworks.**

## **Built to meet Europe's critical demand for bandwidth**

- Focused on the routes and regions where traffic and demand are highest, between Frankfurt, London, Amsterdam, Paris, and Dublin (FLAP-D).
- Unique, direct long-haul routes that avoid common capacity bottlenecks and existing areas of congestion.
- Pathways between cities follow the shortest distances possible to achieve the lowest latency.

## **The latest fibre technology for optimised performance**

- Modern low-loss fibre that delivers low attenuation, typically a measured loss of 0.20 dB/km, improving end-to-end photonic performance (OSNR).
- High fibre count cable and fibre with a high bandwidth capacity per pair to maximise how much bandwidth can be utilised in every fibre.
- Superior bend insensitivity that reduces signal degradation, and improved transponder performance that contributes to lower power draw and greater efficiency.



## Re-imagining long-haul network design

- The modern fibre types used on Super Highways have advanced characteristics. Specifically (ultra) low loss and bend insensitivity. These characteristics enable us to design routes with wider distances between amplification sites.
- This means fewer amplification sites, which reduces construction, requires fewer resources in delivery, and ensures more efficient performance in operation.
- Super Highways' amplification sites are built with modern cooling equipment that significantly reduces long-run power demands and makes them highly energy efficient.
- Amplification sites on Super Highways are newly built network infrastructure, using joints, racks and connectors with the latest specifications and long-term service life. This delivers high reliability and service stability.

## Sustainably designed for an optimised carbon footprint

- A reduced number of amplification sites in construction and in service means Super Highways use fewer resources and emit less carbon emissions when being built and when in use, reducing carbon impact.
- The sites that are built are optimised for power efficiency, reducing power consumption in service.
- Our innovative Network Construction Carbon Tool calculates project level carbon emissions and gives us the ability to factor carbon impact into our route designs.
- We are also able to provide carbon emissions data to our customers, associated with each euNetworks service, using our Carbon by Service Tool.





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Find out more about Super Highways  
at [eunetworks.com](http://eunetworks.com)