



## Full Fibre Infrastructure Build

**Full Fibre Infrastructure Build (FFIB) delivers the Openreach fibre network into the sites you need, giving you confidence that these sites are future-proofed and ready for connectivity services from a wide range of Communications Providers.**

**FFIB terminates on Network Terminating Equipment (NTE) – included in the building. Having FFIB to sites ensures that the same infrastructure is able to carry all available fibre based services from Gigabit capable Broadband, Ethernet and also Optical high bandwidth services.**

### What is FFIB?

With FFIB, we can build our Openreach full fibre network access (duct infrastructure and fibre delivery) to any location that is not included in our current “fibre broadband to the premises (GEA-FTTP)” roll-out plans.

Once our full fibre infrastructure build has occurred, it provides any customer served from the new fibre distribution point with the ability to order Fibre to the Premises (GEA-FTTP) broadband, Ethernet leased lines, or Very High Bandwidth services without incurring any further build costs. In particular, your sites will be ready for Ultrafast fibre broadband access with download speeds of up to 1Gbps and upload speeds of up to 220Mbps – you will be able to order these services through your own choice of provider.

FFIB is a “passive” fast fibre network build solution – as a local body or private client you can then buy “active” services from your choice of Communications Provider (CP). Or as a CP you can add your own service wrap including SLAs attractive to your public sector customer(s).

Ethernet services can then be provided with no excess construction charges – it’s a long-term, future-proof solution offering enhanced responsiveness to public sector customers’ evolving connectivity needs.

## Using FFIB you can connect to any of these services:

### Ethernet

- Available in 1Gbps and 10Gbps variants
- Permanently connected, point-to-point high speed data circuits
- IEEE (Ethernet specification) compliant
- Optical fibre cable offering uncontended bandwidth with no usage limits
- Individual (single port presentation) point-to-point Ethernet circuits:  
100Mbps 100 BaseT copper interface

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- 1000Mbps 1000 BaseSX Multimode dual fibre working interface

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- 1000Mbps 1000 BaseLX Single-mode dual fibre working interface

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- 10Gbps

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### Fibre to the Premises (GEA-FTTP)

- Offers set speeds between 40Mbps and 1Gbps downstream and 10Mbps-220Mbps upstream
- Regulated price at bandwidths of 40/10
- IEEE (Ethernet specification) compliant
- Engineer installed or if equipment is pre-installed, no engineer visit required
- Range of Download Speeds/Upload Speeds available:  
Up to 40Mbps/10Mbps

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- Up to 55Mbps/10Mbps

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- Up to 80Mbps/20Mbps

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- Up to 330Mbps/50Mbps

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- Up to 40Mbps/10Mbps

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- Up to 500Mbps/165Mbps

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- Up to 1000Mbps/220Mbps

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### Optical Services

- Optical Spectrum Access (OSA), Optical Spectrum Extended Access (OSEA) and Optical Filter Connect are secure, permanently connected, high speed data circuits that use Dense Wavelength Division Multiplexing (DWDM) technology on dedicated fibre. You can use them to develop Wide Area Network (WAN) and Storage Area Network (SAN) applications and to offer complete end-to-end solutions
- Meets very high bandwidth needs:  
2.5 and 10Gbps wavelength options enable you to move very large volumes of data between sites

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## Who is FFIB for?

FFIB is available for individual or multi-site telecommunications network infrastructure upgrades to full fibre.

FFIB is designed in particular with the needs of the public sector market in mind; local bodies, government, schools and public buildings. It may also be of interest to our CP customers, businesses and consumers. We will fully support CPs wishing to help their public sector customer(s) build a local full fibre network. We are happy to work with anyone who will find this solution valuable to their communications needs as part of our wider **Fibre First strategy building an Ultrafast Britain.**

## Bidding for DCMS Local Full Fibre Network (LFFN) Challenge Fund?

**The fund provides local bodies with an opportunity to develop gigabit-capable connectivity to boost local economies.**

LFFN aims to support the deployment of full fibre networks in both rural and urban areas to meet local bodies' connectivity needs. The government is encouraging a broad range of local bodies as well as health, education or transport bodies to apply for the fund. **Openreach can help you win** through our experience and knowledge of best practice in deploying gigabit networks for future growth and investment. FFIB is the Openreach proposition that meets DCMS\* expectations delivering LFFN solutions.

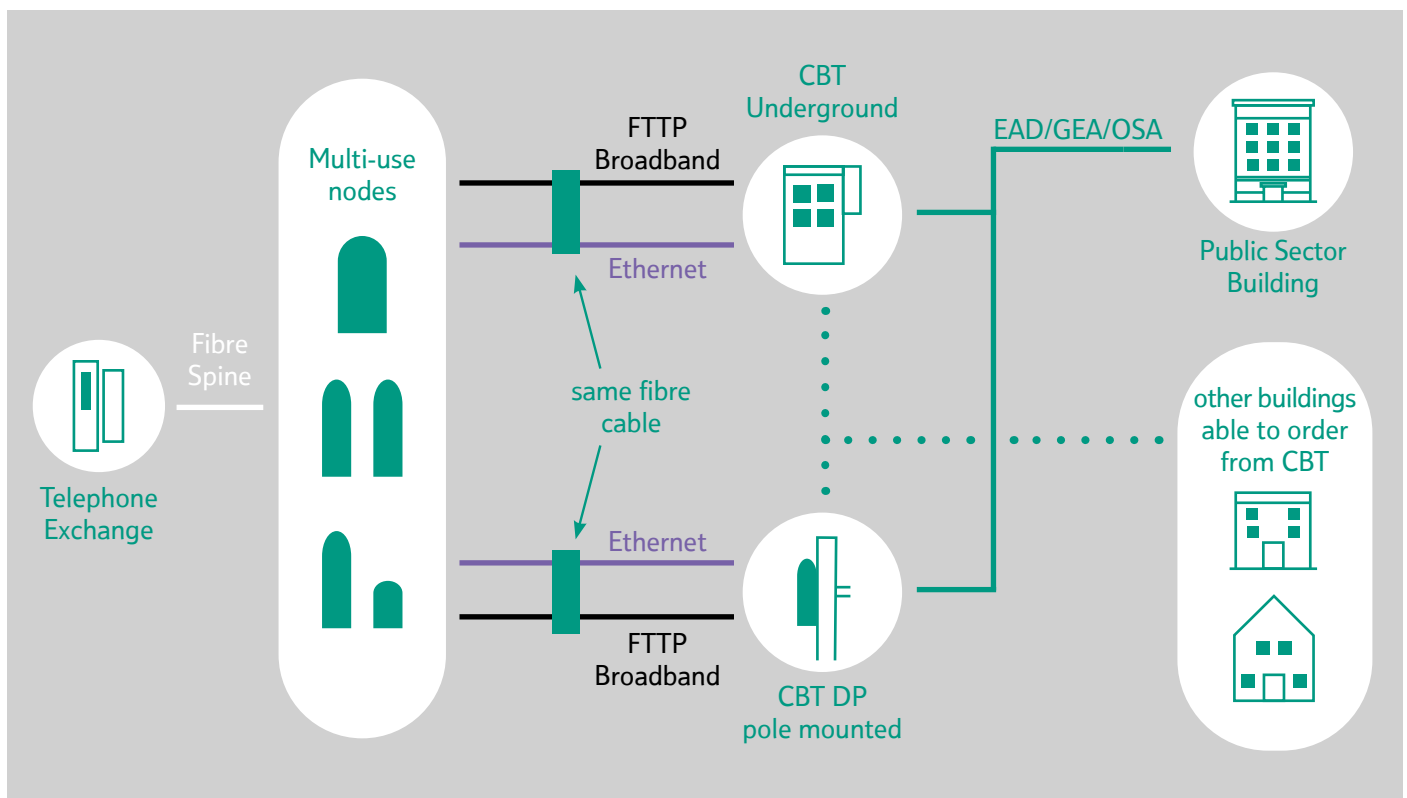
\*DCMS = Department of Digital, Culture, Media and Sport.

## LFFN and FFIB benefits

For LFFN our proposition is FFIB – based around a standard product we can already offer but with the advantage of using our new model of single fibre network build.

- We can give you the full fibre connectivity you want – using our existing network and ducts – avoiding the need to dig up streets
- FFIB takes fibre closer to local residents and businesses meaning they can obtain fibre services more easily
- If you want to keep it simple and cost-effective – it makes sense to work with the established biggest provider of fibre connectivity in Britain – Openreach
- Once built, our proposition is designed to blend seamlessly with the existing Openreach network offering simplicity for local bodies in terms of ongoing maintenance/upgrades and access to the fullest range of speeds and network products

## How FFIB works



## Order process

- ➔ 1. Customer request / bid
- ➔ 2. Bespoke quote shared so everything is clear upfront
- ➔ 3. Customer agrees and signs contract
- ➔ 4. Openreach fibre network delivery
- ➔ 5. Customer can order GEA-FTTP, Ethernet or Optical Services from a CP of their choice

## The Benefits of FFIB

### National coverage with local knowledge and a proven track record

FFIB is available across the UK. We use local regional teams to manage your project regionally and nationally. We apply our unique local knowledge to produce individual estimates for every project to ensure everything is clear upfront. As we will use what network is available locally we provide best value for money.

Openreach has a **proven track record in delivering fibre networks** even in the most challenging of geographical environments.

### Bespoke future proofed design solutions

Our highly experienced fibre engineers and network architects will design the infrastructure plan to meet your needs no matter how large or small the number of sites you need to make fibre-ready.

## Pricing

Our pricing will be for infrastructure build only with no ongoing rental charges and will cover costs for provision of a fibre into a room/location within the site of your choice. Our prices are subject to survey.

We will include project management costs that ensure smooth delivery.

To find out more about FFIB speak to your Openreach client manager or visit [openreach.co.uk/ffib](https://openreach.co.uk/ffib)

### Project management

Tailored project management adds real value by setting goals that fully address the challenges and create accurate plans and timelines. A project manager will work directly with your own project office and give you complete visibility of our activities and progress. The Project Manager will provide a single point of contact that works with you to ensure smooth delivery.

### Benefit your wider community

When investing in Full Fibre Infrastructure Build to your public sector building(s) it will then be easier and cheaper for local communities to connect to faster fibre broadband as the fibre network is now much closer!

[openreach.co.uk](https://openreach.co.uk)

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