

Why do we need full fibre in Brinsworth?

In a nutshell, full fibre enables near limitless volumes of data to be delivered reliably at speeds fit for the 21st Century, underpinning everything from streaming, gaming and home working to autonomous vehicles, 5G mobile, and more.

The truth is that the UK's legacy copper networks are no longer fit for purpose – even if they've been 'upgraded' in recent years. While many of us have 'fibre broadband' today, more often than not, this is very different from 'full fibre'. The chances are there's copper in the connection slowing things down (top tip - if your router connects to a normal telephone socket, then that's what you've got).

Currently, less than 30% of UK premises have access to a true full fibre connection that takes 100% fibre optic technology all the way from the home to the point of connection. This investment in rolling-out full fibre in Brinsworth will make sure it doesn't fall behind and residents and business can enjoy the benefits.

What exactly is happening over the next few weeks and months?

CityFibre is expanding its network and this means that it will be undertaking a wide-scale construction project throughout Brinsworth. The result will be state-of-the-art digital infrastructure that will provide huge and wide-ranging benefits to the entire community for decades to come.

In order to manage disruption, the company is working closely with local councils to coordinate with other road works and construction projects that are taking place. All works will receive individual permits, that have been approved by the council's Highways team.

In addition, all sites will be reinstated to nationally agreed standards and will be inspected and signed off by the Council Highways team.

And the building process itself?

In Brinsworth, a hybrid approach is being taken, meaning as much existing telecoms infrastructure as possible is being used to minimise disruption. CityFibre uses ducts and poles that are already in place, put up new poles so homes can be connected aerially and will only undertake build work when it is absolutely necessary.

In the instance where building work is required, there are several steps required to deliver the project as efficiently as possible. This usually only takes a few days but varies depending on site conditions. For those interested, below is an outline of the steps:

1. **Setting up site:** Most work usually takes place in the pavement rather than the road itself and CityFibre will try to keep traffic moving. In Brinsworth, O'Connor Utilities is the main contractor to construct the network. They'll have CityFibre logos on their clothing and the banners around the site so they can be easily identified.
2. **Laying the ducts:** Once the site is set up, the construction team digs narrow trenches to hold the protective ducting through which the fibre optic cables run. Trenches sometimes pass driveway entrances, but when this happens, workers will make sure they're covered until the work is done so cars can cross easily. If any access is needed during works, supervisors on site will help and provide access in a safe and timely manner. CityFibre workers also take care when working near trees and other plants to ensure roots are not damaged. At each property, a small connection box (about the size of a mobile phone) is built into the pavement. Then, when the residents take up a service, full fibre is simply extended from the connection box into the home.
3. **Reinstating the pavement:** After the ducts have been installed, the pavement is returned to its normal state. Workers make sure to try and lay existing paving slabs or cover the trenched area with tarmac so that it matches the rest of the pavement. New tarmac can sometimes appear to be darker than the rest of the pavement but this fades over time.
4. **Full fibre installation:** When construction work in each street is completed, engineers feed the cables through the duct to the nearest fibre cabinet. This connects the street to the wider network and brings gigabit-capable

full fibre broadband within reach of each home. This doesn't take long and shouldn't create any further inconvenience for residents.

Ready to connect?

Once the above steps have been completed, residents will be ready to connect. The first step is to visit cityfibre.com/residential, where you can enter your postcode to:

- Find out if you're already able to access the network
- See which broadband service providers are available locally
- Register your interest in a service if your postcode isn't live yet

If your address is live, then all you need to do is select your preferred broadband provider and choose the package you'd like (ensuring it's a full fibre-enabled service). To give you a few ideas, packages such as purebroadband's Pure Residential Fibre 200,400 and 1000 and TalkTalk's Future Fibre are delivered over a CityFibre connection.

To get in touch or keep up to date on the latest news in relation to the project, CityFibre can be reached via:

- A 24 hour helpline number available at: 0330 053 6088
- To keep up to date via social media, follow us on Twitter @CityFibre