

Peterborough Core

CityFibre build Peterborough Fibre Network

Leading fibre network infrastructure builders, CityFibre have deployed an entire city-wide fibre network spanning 90km throughout Peterborough's city centre and beyond encompassing over 70 square miles. With well over 4000 businesses across the city, there was significant demand for the ultra-fast, gigabit speeds a pure fibre network could deliver. Operating a pre-registration campaign, CityFibre saw over 1000 businesses, across the city register their interest in the new network.

With existing fibre cabling in Peterborough currently servicing government offices, schools and hospitals, there was already a dark fibre provision to the city. What was needed was an intelligent network design that could distribute the fibre further afield to businesses in and around the city perimeter.

CityFibre started the network deployment in April 2014. Due to the size of the network required for the city, the fibre network was divided into 5 sections or hubs. Each hub then distributes fibre around its area or ring.

The Peterborough network was designed with a ring topology using 288 core fibre optic cable to connect the 5 hubs. Each hub has been designed with an average of 20 FDN fibre optic splice closures from HellermannTyton.

Scott Raine, Regional Delivery Manager at CityFibre comments,

“The FDN closure from HellermannTyton was the ideal choice as it gives us a high quantity of drop ports, perfect for the number of businesses we are targeting.”

In some areas of the network design, CityFibre has also specified in smaller closures from HellermannTyton including the FST and FRBU fibre optic splice closures. Tony Green, Project supervisor at CityFibre added,

“By using the smaller closures at certain points of the network, we were able to segregate the core fibre and use the smaller joints as distribution points.”

The first hub, known as 'Area 1' was complete by July 2014. Hubs 2 and 4 (Area 2 and Area 4) were started in June 2014 and were completed by November. Hubs 3 and 5 (Area 3 and Area 5) were completed by March 2015.

The fibre network went live shortly after Hub 3 (Area 3) was complete and within a few weeks CityFibre had dozens of businesses running on a live network with many more to be connected over the following months.



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Case Study

The infrastructure installed, the fibre cabling and particularly the fibre splice closures from HellermannTyton, offer scalability making future network growth possible. Craig Jones, Business Development Manager at HellermannTyton comments,

“By working closely with CityFibre and understanding the project and the objectives, we were able to specify the best products for the network, now and in the future.”

In less than 1 year CityFibre were able to build a gigabit speed fibre network spanning more than 90km around the city of Peterborough, using over 120 fibre splice closures with the potential to service over 4000 businesses. Impressively, all of which was delivered on time and on budget.

About HellermannTyton

Founded in 1988, HellermannTyton Connectivity is an established leader in the design, development and manufacture of innovative network infrastructure solutions for both LAN and WAN environments.

The company offers a broad range of quality, high performance structured cabling products including Deca10, the Category 6A solution; the unique pre-terminated, ‘plug & play’ RapidNet system and a full range of market leading closures for Broadband applications incorporating the patented Cablelok mechanical seal.

Based in Northampton, UK, the company is part of the global HellermannTyton Group, with operations in 39 countries worldwide.

For more information visit www.htdata.co.uk or www.hellermanntyton.com

About CityFibre

CityFibre is the national builder of Gigabit Cities, as the UK’s largest alternative provider of wholesale fibre network infrastructure. It has major metro duct and fibre footprints in 37 cities across the UK and a national long distance network that connects these cities to major data-centres across the UK and to key peering points in London.

The company has an extensive customer base spanning service integrators, enterprise and consumer service providers and mobile operators. Providing a portfolio of active and dark fibre services, CityFibre’s networks address 26,000 public sites, 7,400 mobile masts, 260,000 businesses and 3.7 million homes.

CityFibre is based in London, United Kingdom, and its shares trade on the AIM Market of the London Stock Exchange (AIM: CITY).

