

HOLLOW CORE FIBRE CONNECTION DATA CENTRE
EAST LONDON

Team - Comms | Value - £1.16m | Distance (km) - 21,647m
Client - Undisclosed | Duration - 4 months | Date - 2022

Pre-construction

The route was surveyed to assess feasibility and identify any constraints. All necessary permits and statutory notices were applied for in accordance with local authority requirements. A detailed project plan and comprehensive risk assessments were developed to ensure safe and efficient delivery.

Construction

The construction phase included the installation of 2,282 metres of new ductwork and the construction of 14 new chambers. A total of 21,093 metres of ducting was proved to confirm route integrity. This was followed by the installation of 21,647 metres of 4-fibre hollow core fibre (HCF) cable and 21,647 metres of 192-fibre singlemode cable. Both cable types were spliced to specification, and final testing was completed in line with client requirements.

Post-construction

As-built chamber drawings were produced, along with fibre routing single-line diagrams (SLDs) and final test results. These were submitted to the client to confirm compliance with all technical and quality standards.

Challenges

- Communication and authorisation from borough councils for cabling works.
- Difficulties encountered while cabling through street environments while maintaining HCF integrity.

Solutions

- Additional manpower was deployed to manage complex street-level cabling scenarios.
- All works were completed in line with borough requirements and client specifications.



Fibre installation	Ductwork	Testing	Chambers
Hollow core fibre	Splicing	Barges	Permits