

HOLLOW CORE FIBRE CONNECTION DATA CENTRE
CENTRAL LONDON - WEST LONDON

Team - Comms | **Value** - £500k | **Distance (km)** - 32km

Client - Undisclosed | **Duration** - 3 months| **Date** - 2023

Pre-construction

The proposed route was surveyed in advance to assess feasibility and identify any constraints. All necessary permits and statutory notices were applied for in accordance with regulatory requirements. A detailed project plan and comprehensive risk assessments were developed to ensure safe and efficient delivery. Access to canal footpaths was agreed to facilitate construction activities with minimal disruption.

Construction

The construction phase included the installation of 46 metres of new ductwork and the construction of 16 new chambers. A total of 30,259 metres of ducting was successfully proved to confirm route integrity. Following this, 32,372 metres of 4-fibre hollow core fibre (HCF) cable were installed, with all splicing completed to a high standard. Final HCF testing was carried out in accordance with client specifications to ensure system performance and compliance.

Post-construction

Upon completion, as-built chamber drawings were produced along with fibre routing single-line diagrams (SLDs) and final test results. These documents were submitted to the client to confirm that all works met the required standards and specifications.

Challenges

Communication and authorisation from the Canal & River Trust (CRT) regarding canal works

Solutions

All works were completed in line with CRT requirements and client specifications through proactive coordination and compliance using barges and specialist supervision along the canal footpath.



As-built drawings	46m new Ductwork	Testing	16 Chambers
Hollow core fibre	Splicing	Barges	Permit management