

MANCHESTER
1824

The University of Manchester

Case study

University of Manchester Fibre Infrastructure

About

Location: Manchester

Project Value: Approx.
£500,000

Site Size: 300 acres, 300
buildings, 15 sites

Duration: 14 weeks

The University of Manchester is the largest full-time non-collegiate University in the UK. It educates the greatest number of full-time students and teaches more academic subjects than any other British University.

The project

As part of the development of the University campus, some of the existing buildings had to be demolished to make way for new buildings. In order for this to be done, all existing data and telecommunication cables, which either ran into, or directly through the buildings, had to be removed.

The installation

In order for the cables to be removed without disruption to existing networks, 7 core Blown Fibre tubes were installed into new ducts and routed around the perimeter of the area to be demolished and new fibre optic bundles were installed to all areas where the old cables were connected.

Singlemode fibres are predominately used at the University of Manchester to link buildings together and Multimode fibres are used for internal links between active equipment. There have been many times at the University where a previously installed fibre which has become surplus to requirements has been blown partly out of its tube and re-blown to another location.



The installation *(cont..)*

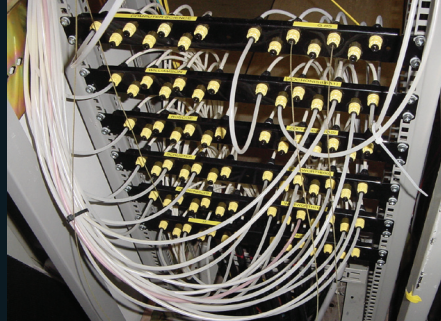
Using Emtelle's Fibreflow system, Sudlows expertly installed 7 core Blown Fibre tube bundles and joint enclosures.

Darren Stephens, Project Manager at Sudlows, who directed the whole project said;

"As Project Manager for the installation of fibre optic cabling for Project Unity, Sudlows installed over 8000 metres of Emtelle internal/external grade tube, 8500 metres of 12 core 50/125 fibre and 14000 metres of 12 core Singlemode fibre.

The tube and fibre was installed across a number of buildings throughout the University campus. Working to a fourteen week timescale, the project was completed on time and to budget.

Thanks to the support of the University staff and project co-ordinators, as well as the service and logistical support from our supplier, Emtelle, Sudlows managed to focus on delivering the essential network backbone cabling to help maintain the University's reputation as a world leading institution for research and learning."



"Sudlows' engineers installed Emtelle's internal/external cable which enabled us to avoid installing gas and water seals in awkward locations"

The conclusion

Tony Jones, Network Manager at Manchester University Computing said the following;

"Manchester is a world class University where research and teaching require a network that is flexible, future proof and able to meet ever increasing bandwidth requirements. Sudlows engineers installed Emtelle's internal/external cable which enabled us to avoid installing gas and water seals in awkward locations. The use of Blown Fibre allows us to install an infrastructure that has capacity for the future but defers the decisions on fibre type."