# molex

# WORLD CLASS CABLING FOR A WORLD CLASS UNIVERSITY



*Leading universities today are so much more than simply places to teach and learn. Their vital IT infrastructure has to satisfy the demands of ground-breaking research; it needs to service a variety of commercial facilities; it may have to enable smart building technology; and of course it must provide staff, students and visitors alike with the wired and wireless connectivity they expect, across all spaces including living and social areas.*

*This leading UK Russell Group university relies on Molex technology for the efficiency of its research, learning and student experiences, its administration and its smart building infrastructure.*

## THE CHALLENGE

**Enabling research and an outstanding teaching, learning and student experience whilst supporting IoT and smart buildings.**

The philosophy and drive of this university is to be recognised as one of in the Top 25 universities in the world. With this ambition, research is a high priority, with its significance and impact making the IT infrastructure mission critical. The ability to gather, store and analyse research data as quickly and as reliably as possible means that the network has to perform to its highest potential 24/7/365.

Simultaneously, the network must empower the university as a teaching and learning environment, ensuring that services are always on and always connected throughout the academic, domestic, social and commercial areas.

Thirdly, the infrastructure plays a vital role in supporting physical security and smart building technology, where the environment responds intelligently to its occupation, application, the prevailing conditions and building faults and alarms. Occupiers' experiences are enhanced, whilst energy consumption is minimised.

## CUSTOMER PROFILE

**COMPANY**
UK university

**TECHNOLOGY PARTNERS**
NGBailey, Sudlows, TIS, CNS

**INDUSTRY**
Education

**PRODUCT NAME**
Powercat 6A U/FTP cable, 24 Port Angled Panels with Powercat 6a jacks, UK standard faceplates with Euromod Cat 6A outlets, Mod-Snap Cat 6A modules for floorboxes. Intelligent Cabinet Access Control

**SOLUTION FEATURES**
Molex's PowerCat 6A solution has been developed with the highest performing capabilities in mind, with improved data transmission over higher frequencies and enhanced noise suppression. The solution has been meticulously designed to provide the most advanced alien crosstalk mitigation and an insertion loss that provides headroom against the standards.

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## THE SOLUTION
**Powercat 6/6A cabling**

This prestigious English university initially selected Molex as one of three specified cabling suppliers. However, the vital benefits of our products' being commercially well priced and widely available, plus their extreme reliability, proven over many years, has now led to the institution making us its sole specified supplier.

Molex's reliability in fulfilling the university's requirements is proven across more than 100,000 points, our Category 6A cable delivering up to 10GB Ethernet.

## THE BENEFITS
**Maximising teaching space by minimising IT footprint**

The university enjoys a consistently high-performing network infrastructure capable of delivering a fast and efficient service to its staff and students. And the quality and reliability of Molex's solution has reduced IT service delivery costs significantly.

Molex's Certified Installer programme, with its ongoing training and professional development programmes, has made it possible for the university to set a high bar for the quality of its framework installers. Molex works closely with the university to monitor installation quality and enables Molex to offer its market-leading 25 year system performance warranty across the university estate.
Molex's research and design resources are used to advise the university about upcoming changes in industry standards and technical developments, ensuring that the university's specifications and

tender requests reflect current industry best practice – with one eye on the future.

Further plans include the push to increase the density of IT connections, effectively maximising space for teaching and learning by minimising the room required for IT. This will be enabled, in part, through the deployment of market-leading high density fibre solutions.

**As the university continues its world-leading research and teaching, and pushes towards its global Top 25 aim, Molex products will remain at the heart of the IT infrastructure that supports it.**

For more information on how Molex Connected Enterprise Solutions can improve the efficiency and physical security of your IT system, please visit us at www.molexces.com