

Case Study

Wakefield One - Civic Centre

Customer	Wakefield One - Civic Centre
Location	Wakefield, Yorkshire
Requirements	A new building which required a state of the art infrastructure installed
Equipment	Excel Category 6 _A U/FTP cable, patch panels, toolless jacks and shutters
Customer's View	The infrastructure that has been installed in the civic centre allows their systems to operate efficiently, giving them the opportunity to provide a service to customers that continues to improve. Providing excellent levels of service is what Wakefield Civic Centre is about and the new technology installed allows them to do that.

Mark Cleeve, Fibrenet (Managing Director)



Dubbed Wakefield One, the newly built civic offices sit within Wakefield's Merchant Gate development which covers the once vacant land between the railway station and the city centre.

Wakefield One provides one point of contact for a range of Council services which are brought together under one roof. The building has been paid for by vacating and selling other Council buildings and will reduce overall running costs by £1m a year, helping the people of Wakefield and surrounding areas to get an improved level of service which ultimately costs them less.

The building houses a museum, café, library, the district council's One-Stop-Shop a business lounge and offices.



The Requirement

A modern multi-purpose newly constructed building which demanded a sophisticated and reliable structured cabling system.

Sourcing a Partner

Fibrenet was established in 1999. Since that time the company has developed considerably to meet the challenges of its client base, increasing its turnover on an annual basis, necessitating the need for the company to relocate several times.

Now based in Stanningley Leeds, the highly experienced team provide guidance for clients by assisting in design, offering invaluable advice and giving support before, during and after a project has been successfully completed.

Fibrenet aim to remain competitive, whilst providing a first class service, carrying out installations that are second to none whilst meeting the challenges that today's market brings.

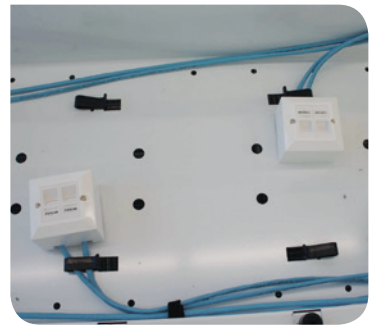
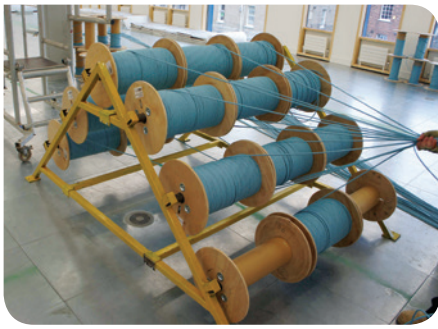
The Right Product

After consultation with the client and educating them about the Excel product range, Fibrenet moved ahead with installing an Excel Category 6_A solution which included cable, patch panels, toolless jacks, and shutters.

OM3 tight buffered fibre cable was also installed along with multi-pair telephone cables.

Excel structured cabling products constitute an end-to-end solution where performance and ease of installation are prerequisites. With an emphasis on compatibility and standards compliance 'from outlet to cabinet', reliability and product availability, Excel is the complete and trusted solution.

Excel Category 6_A systems are amongst a handful in the industry with both channel and component verification. Each of the key products used to build an Excel Category 6_A cabling solution have component level standard compliant performance verification from Delta a third party verification laboratory.



Design and Installation

The Excel brand is owned and distributed by Mayflex. Mayflex leads the way in the distribution of Converged IP Solutions. Working closely with Fibrenet, Mayflex were able to provide the products direct to site at the desired time allowing the engineers to progress with the install quickly and efficiently.

Excel Category 6_A cables and associated connectors take the performance capabilities of copper infrastructure to new levels. The cable has been designed to exceed the ISO/IEC, TIA and CENELEC for Category 6_A component requirements. Each cable consists of two pairs wrapped together in an "S" configuration. The use of two sets of pairs has resulted in a reduced diameter and cable weight. Reducing the size and weight means the cable occupies less space in the containment which in turn improves the airflow in under floor installations. Less weight means the containment can be of a lighter construction.

The Excel Category 6_A Low Profile Screened Keystone Jack, is a reduced size toolless termination RJ45 socket which takes less than 2 minutes to terminate, utilising this product helped to keep the project on track and meet the deadlines imposed.

A modular system like the one used in this installation brings many benefits, especially when using consolidation points in GOP boxes as the system uses the same jacks in the panel, consolidation point and telecommunication outlet. Systems designed where the same jack is used at both ends on average, give better performance when tested.

The Excel fibre range provides a broad choice of multimode and singlemode solutions. Excel's OM3 Multimode Tight Buffered Fibre cables are constructed from a number of 900Um buffered fibres which are colour coded and packed in water resistant rodent protected strength members. The outer sheath is both flame resistant and low smoke zero halogen (LSOH). The design and construction of this range has resulted in a light, easy to install, cost effective cable.

Consolidation points were used to enable flexible seating arrangements for the users. This allows the client to have an infinite amount of layout designs available to them, taking into consideration the constraints of the building itself. Work areas, desks, departments or whole divisions can be easily re-arranged.

When installed by an accredited Excel Cabling Partner, which Fibrenet Office Solutions is, both the copper and fibre cables installed were supported by a comprehensive 25 year warranty programme, offering longevity and peace of mind for the Civic Centre.

The Result

The Civic Centre understood that to run an efficient operation it needed a well designed, expertly installed system which would also allow for future expansion. This is exactly what they got with the Excel system, recommended and delivered by Fibrenet Office Solutions.

"During the installation phase I was invited to attend site on a couple of occasions to carry out a technical evaluation as part of the warranty process as well as providing comment.

The level of workmanship evident was of the highest level, which given the experience and technical capabilities of Fibrenet Installations came as no surprise, who should be complimented on their work"

Paul Cave, Technical Manager – Excel Networking

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