

# Case Study

## Cumbria Constabulary

<b>Customer</b>	Cumbria Constabulary
<b>Location</b>	Carlisle, Cumbria
<b>Requirements</b>	A new build police headquarters
<b>Equipment</b>	Excel Category 6 cable, modules, patch panels, fibre and telephone cable. Incorporating 922 Cat 6 connections. "We needed a Constabulary building that would enable us to grow, both with the expansion of our workforce and the increase of services offered to the general public. The infrastructure now in place has allowed us to do just that, and I have every confidence that we will be able to operate successfully from these premises for many years to come now that we have a flexible, quality cabling system."
<b>Customer's View</b>	<i>Andy Little, Cumbria Police</i>

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without compromise.

Cumbria Constabulary had occupied temporary premises in Carlisle since the floods of 2005, when their station in Rickergate was so badly damaged it was deemed unsuitable to operate out of. This temporary base had provided a short term solution to their problem, but the need for new purpose-built premises was of a high priority to ensure the force could continue to operate efficiently in the community.

The Constabulary provides a wide range of policing services to ensure communities in Cumbria are safer and feel safer, including reducing crime, investigating crime, promoting safety and assisting the public. The Constabulary's aim is "to inspire trust and confidence in our policing service, so that the people of Cumbria feel safe, satisfied and reassured."

A suitable alternative site was chosen and the building of the new Carlisle headquarters began in 2008 on the Durrhill industrial estate.

An experienced contractor was needed to manage the installation of the infrastructure required, so that the new building could operate effectively. Established in 2003, Compass Cabling Systems Ltd is a company specialising in the installation of cable based infrastructures for a wide variety of systems, ranging from voice and data network installation to fire and security systems, and electrical services and installations.



Operating within the retail, industrial, commercial and domestic markets, the company's high levels of customer service and installation expertise, combined with their ability to deliver projects on time and within budget, has enabled them to establish a strong reputation with clients.

Actually being based in Carlisle, Compass Cabling Systems had already established a working relationship with DSSR, the consultants who had been appointed to produce the designs for the new police headquarters. The new headquarters required a future proof system that could grow with the needs of the Constabulary, but a key factor was to keep in line with the allocated budget for the project.

Both Compass Cabling Systems and DSSR had previously worked with the Excel system. The Excel system constitutes an end to end solution where performance, ease of installation and cost effectiveness are prerequisites. The breadth of products in the Excel range enabled Compass Cabling Systems to carry out the entire project using Excel products.

The chosen technology was Excel Cat 6 UTP cable. This type of cable is designed for optimal support of High-Speed data protocols delivering 1 Gbps performance to the workstation. Designed to be quick and easy to install, the cable requires no specialist installation tools.

Combined with the cable was a mixture of Euro, low profile and 6c modules. This range of outlets has been designed to meet or exceed the latest ISO and TIA requirements for Category 6 compliance. When installed with Excel Category 6 cables and patch panels, full link and channel compliance can also be achieved. Category 6 unshielded RJ45 patch panels were also installed. These panels provide quick and easy termination and ensure a neat method of cable management due to the cable tie positions.

The backbone to the installation was Excel 24 core 50/125 OM3 fibre cables and 100 pair CW1308 telephone cable for voice and data links. All Excel patch leads are constructed from high quality connectors and cable. Each cable has a short strain relief boot and is supplied with a test report detailing insertion loss. The multi-pair internal telephone cables used in this installation are manufactured in accordance with BT type CW1308. The pairs are colour coded for ease of identification.

When installed by an official Excel Cabling Partner (ECP), the Excel system comes with a 25 year product and application warranty. Many of the products have also been independently verified by 3rd party test laboratories, such as Delta and ETL, to ensure that a product or a set of products comply with a particular performance standard.

Excel Category 6 wall outlets, floor outlets and desk top outlets were all installed throughout the new building. The installation also called for fibre, voice and data links to be added from existing custody buildings to the new building, as well as running in between three new communication rooms.

The temporary premises that the police force were operating out of increased the urgency for the new building to be completed in the minimum amount of time. Compass Cabling Systems were able to rise to the challenge due to their knowledge of the Excel system and completed a time efficient installation of the components. The Cumbria Constabulary has now moved into the new purpose-built premises.

Compass Cabling Systems has been able to confidently complete a high profile project in the knowledge that the installation will continue to perform for the customer at the level that they expect to receive for the foreseeable future.



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