

Adding value to Local Area Networks in **Education**



 Nexans

Understanding your needs

Nexans philosophy has always been to use our wide range of solutions to solve the diverse needs facing our customers. And education is no exception. With fundamentally different issues and requirements to those of the enterprise market, the Nexans range includes products tailored to meet the demands of Universities, Colleges, and Schools with the aim of providing benefits which deliver true value for money.

Student Accommodation

Student accommodation blocks have their own special needs. Being subjected to a continuous stream of changing users, they are often more prone to physical abuse and accidental damage. Nexans 'snap-in' connectors are not only more robust than traditional 'punch down' solutions but the modular concept enables damaged outlet hardware to be changed without the need to re-terminate the connector itself.

Likewise, Nexans modular patch panels allow easy access for maintenance and additions.

Nexans can deliver robust solutions for environments where ease of maintenance is a prerequisite:

- Fully modular, re-usable connectivity
- Toolless or standard IDC punchdown
- Modular panels for easy access

Campus Connections

Universities are typified by campus layout comprising a myriad of interconnected buildings and a number of concentrators. Fibre is becoming even more dominant as telephony migrates to the data network and duct space is freed up.



Nexans provides a range of warranted performance solutions to meet these needs, including laser optimised fibres from Singlemode OS1 to multimode OM1, OM2, OM3 and the latest OM4 extended distance fibres for 10 Gigabit Ethernet. Fibre solutions can also be integrated into Nexans LANsense intelligent infrastructure solutions to maintain the highest level of infrastructure management and security.

Nexans end to end fibre solutions deliver exceptional value for money:

- Standard LANmark OS 1 and OM grades
- Laser enhanced LANmark-OF xt extended distance & OM4 fibres

Faculty Buildings, Data Centres and PoE+

Universities are at the forefront of pioneering research. For this reason, a high performance infrastructure which enables the early adoption of the latest application platform often vital.

At Nexans too, we pride ourselves on our R&D facilities and technical expertise. From the earliest days of data networking we have continued to develop copper solutions to the current requirements for 10Gigabit and beyond to 40 and 100 Gigabit. Our Cat 6A and Cat 7A (Class EA and Class FA) solutions combined with GG45 connector technology provide the perfect migration paths for the horizontal, backbone and Data Centre connectivity.

Nexans Cat 7A solutions provide further benefits for Power Over Ethernet (PoE) enabled infrastructures. With the introduction of POE+ in the near future, Cat 7A reduces the heating effects on the cable bundle and provides capability for next generation PoE standards.

In the field of fibre optics, we have introduced pre-terminated solutions in conventional and MPO formats for high density patching and rack to rack connections.

Nexans have the expertise to deliver the complete infrastructure solution for the building and Data Centre:

- High performance LANmark-6A and LANmark-7A systems
- Reduced heating effect from POE+
- GG45 Cat 7A & RJ45 backward compatible connector technology
- MPO preterminated fibre assemblies and cassettes





The Nexans 'essential' range provides a fully compliant, value for money system meeting the needs of both the classroom and the administrative functions within the school buildings.

Laboratories and Facility Management

With the introduction of 'MICE' standardisation (Mechanical, Ingress, Climatic and Chemical, Electromagnetic) and further need to improve energy efficiency in buildings, Nexans solutions fit the bill.

The Industry range of products provides appropriate cable types and IP rated outlet solutions for both the laboratory and building management area.

Nexans have a range of solutions to comply with MICE and the need for Carbon Reduction:

- Copper, Fibre, and BMS solutions
- EMAC
- Exterior grade cabling solutions

Nexans Environmental Monitoring & Access Control (EMAC) range of rack management products enable managers to establish energy usage and effect savings in energy whilst improving management of security. Further sensor and control options can be incorporated such as temperature, humidity, water (flood), and power bar management. EMAC solutions can be incorporated into the LANsense intelligent infrastructure platform.



Schools

The performance requirements of networks in schools are often perceived as less demanding than for Universities & Colleges but the issues faced by schools are no less challenging. Data networks are often running at slower speeds and copper cabling infrastructures are modified frequently.

Value for money is of paramount importance, but quality cannot be disregarded.



Nexans products provide industry standard value for money systems in 2 categories:

- 'essential 5' category 5e Class D solutions
- 'essential 6' category 6 Class E solutions
- Both ranges are complimented by Patch cords in standard lengths

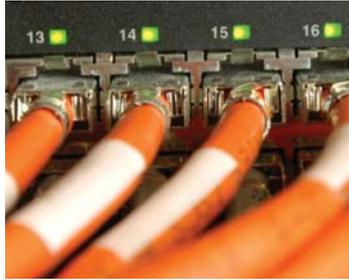
Service & Support

Nexans understands that product excellence must be equally matched with service and support to ensure successful implementation and reduced cost of ownership. We have a network of fully trained partners to ensure products are installed correctly and a range of other services to ensure you get the best from your investment:

- Pre/post sales technical support
- Design tools
- Logistics partners



Education track record - recent major Nexans projects



University College London, UK

UCL used Nexans copper and pre-terminated fibre solutions for its Engineering Building.

Outlets were installed throughout the building, in a variety of different environments including offices, lecture theatres, and laboratories with some mounted at ceiling height for IP security cameras and wireless access points. Due to the industrial type environment in the laboratories and workshops, industrial grade outlets were used to prevent damage from dust or water ingress.

University of A Coruña, Spain

The University of A Coruña in Spain is especially renowned for its Civil Engineering courses. In order to support the anticipated growth in multimedia tools, when it came to upgrading the network, they opted for a 10 Gigabit solution to provide a stable and reliable cabling infrastructure for the years to come.

Macedonian Schools

The republic of Macedonia is the worlds first nation to provide computer access for every student. To achieve this goal the programme, called a 'Computer for Every Child', required re-cabling all school buildings to handle the latest digital communications. Nexans successfully supplied the coveted cabling contract based on a LANmark cabling system.

Full details of all these references can be found at
www.nexans.com/LANsystems



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