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**Innovative building cable solutions  
to ensure safety, performance, and environmental friendliness**

# The dynamic building market...

New residential housing is often stimulated by lower mortgage rates, cheaper materials and the availability of labor, while the construction of new offices, public buildings and industrial plants is often influenced by strategic corporate investment and government economic policy. The dynamism of emerging countries may soon account for 48% of the building market worldwide.

## Cabling trends

Whatever the rate of construction, a number of trends are clearly emerging among our cable customers, often expressed in new expectations and demands.

As a builder, promoter, designer, installer, or system integrator of residential, public and office buildings, or industrial plants, you would like to see:

- Safety: especially in terms of fire-performance to protect people and the building, itself
- Sustainability: energy-efficiency, health and comfort, low environmental impact
- Fast installation: pre-assembled systems, convenient reels, and smart packaging
- More bandwidth: for home entertainment, business and factory applications
- Integrated solutions: for technologies (energy/data, copper/fiber) and systems



## ...calls for safer and greener cable solutions

Nexans offers a comprehensive range of innovative cable solutions to ensure the safety and environmental-friendliness of today's buildings.

- **Residential:** In addition to standard cables, Nexans provides a full choice of specialized cables and network solutions to meet the growing demands of the information-rich modern home, while providing new levels of security and comfort.

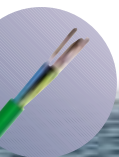
- **Public and Office Buildings:** Nexans works closely with builders and installers to identify needs for specific building types, and new functions, like Data Centers, Security Services and Storage Area Networks (SANs). In some cases this involves upgrading to higher grade copper and optical fiber cables and active and passive equipment, and in others, the merging of multifunctional applications (e.g. Voice and Video-Over-IP) on an enhanced LAN system.

- **Industrial Buildings:** With Ethernet rapidly becoming a common factory platform, connecting machines, robots and equipment on the factory floor with the front/back office, Nexans has developed a number of industrial solutions, including open standards and architectures and Industrial Ethernet. Fire-safety cables protect both people and plant infrastructure. Industrial cables are environmentally-friendly (lead-free, low EMI) and are fully recyclable.

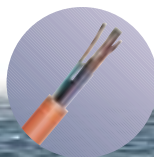




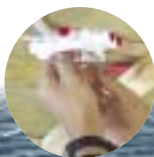
Fire-reaction cables



LV fire-resistant cables



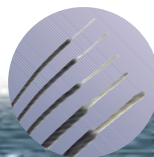
Pre-wired conduits



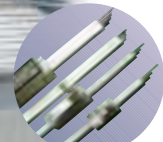
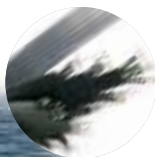
Radiant heating cables



Solar panel cables



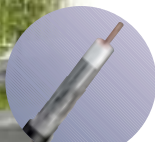
Elevator cables



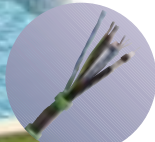
Low-voltage flat cables



MV cables



CATV cables



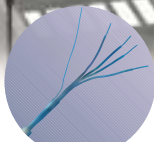
CCTV cables



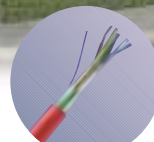
Active network systems and accessories



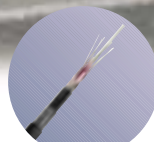
LAN Intelligent Infrastructure Management



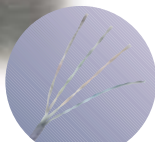
Telereport cables



Anti-intrusion cables



LAN fiber cables



LAN copper cables



...for residential, public and industrial buildings

## COMMUNICATION CABLES

### CATV cables

These coaxial cables are used to deliver television and Internet to apartment blocks, hotels and clusters of small homes, and are also used in small shops for camera surveillance in small shops. A hybrid version combines coax with Cat 5 copper can also be supplied.

*Nexans supplies Norway's two largest Cable TV companies*

### CCTV cables

Developed for surveillance and security, can be delivered as a this hybrid cable with provides a coaxial cable for video, plus two conductors one pair for camera command, and three conductors for power.

*Also, video over cost-efficient LAN webcams*

### LAN copper cables

Nexans provides Cat 5e, 6, 6a, 7 and 7a copper cables for horizontal LAN structures, along with connectors, cords, patch panels and all accessories.

*IKEA (Kuwait); Brann Stadium (Norway); Eurolines (Austria)*

### LAN fiber cables

Used for vertical backbone and campus cabling, Nexans fiber cables can deliver 1 Gbit/s up to 800 m, and 10 Gbit/s up to 550 m with high density and integration of diverse applications. All inside LANs are Low-Smoke, Zero-Halogen (LSZH), while outside fiber is protected against humidity, rodents, extreme cold, etc.

*AZ Sint-Jan AV hospital (Belgium); Ministry of Defense (UK)*

### Anti-intrusion cables

Standard cables that give a simple on/off signal for doors, window frames, etc.

*Also, sensor cables for motion detectors*

### Telereport cables

A two-pair telephonic cable makes it possible to read an electricity counter from a distance. A new version is twinned with the LV drop cable.

*Widely used by EDF (France)*

### LAN Intelligent Infrastructure Management

For Data Centers and building applications, Nexans LANsense IIM enhances visibility of LANs by automatically mapping, locating, reporting and alerting on any event.

*HSBC's London headquarters; Incheon Airport (Korea)*

### Active network systems and accessories

Intelligent switches and converters for installation in residential (Customer Premises Equipment), public, office and industrial buildings provide Fast Ethernet and Gigabit Ethernet capacity, as well as Power over Ethernet (PoE) functionalities for fiber and copper-based network infrastructures.

*RG45 connectivity for IP phones /PCs for Vattenfall Group (Hamburg)*

### LAN cabling solutions

More than just supplying cables, Nexans takes a systems approach providing both copper and fiber, along with connectivity, accessories and infrastructure management.

*TNK-BP (Moscow); Orange (Bucharest); Expo Zaragoza 2008*

### Industrial Ethernet and LANs

Nexans has developed a special category of copper and fiber LAN cables to bring Profinet and Industrial Ethernet solutions to the special plant environment.

*Volvo automobile plant (Sweden)*

### Fiber-to-the-Building solutions

Various access solutions from low to high fiber count ( $\leq 432+$ ), including duct cables, direct buried cables, mini-ducts and micro-blown cables, ribbon cables, aerial short span cables and sewer cables; and associated interconnect solutions. Also Nexans supplies modular Building Basement Terminals (BBTs) or Optical Distribution Frames (ODFs) as an interface to the Building Vertical Riser. *Stokab (Sweden) and Neuf Cegetel (France)*

### Fiber-to-the-Home solutions

Singlemode fiber cable solution to interconnect the operator access network to individual homes, including drop cables and subscriber optical fiber wall outlets for home cabling networks.

*Center Park detached-cottage tourist villages*

### Fiber-to-the-Home, multi-dwelling solutions

Beyond the Building Basement Terminal, Nexans provides extractable fiber-bundled FTTH vertical risers associated with its floor distribution outlets to interconnect to horizontal drop cables to the flat. This enables progressive deployment, in addition to subscriber optical fiber wall outlets and field installable connectors for spliceless option.

*Neuf Cegetel (France); adds value to apartments, enables home office*



## Enhanced services for buildings..

### **GLOBAL EXPERTISE**

For buildings, Nexans offers not only a wide variety of standards, quality cables and accessories, but a number of value-added products and systems to assure greater reliability, capacity, longevity, survivability, while at the same time assuring environmental protection and safety.

### **LOCAL PRESENCE**

Because Nexans is present around the world, we have experts close at hand who are familiar with national construction standards and climatic conditions. They draw on local and company-wide resources to assure fast, reliable delivery and correct installation.

### **TECHNICAL LEADERSHIP**

With an International Research Center based in Lyon and Nuremberg, Nexans is constantly improving cable performance in terms of: strippability, installation, fire safety, data capacity, and environmental friendliness. Special software is used to analyze building design and optimize cabling.



Global expert in cables and cabling systems

With energy as the basis of its development, Nexans, the worldwide leader in the cable industry, offers an extensive range of cables and cabling systems. The Group is a global player in the infrastructure, industry, building and Local Area Network markets. Nexans addresses a series of market segments: from energy, transport and telecom networks to shipbuilding, oil & gas, nuclear power, automotives, electronics, aeronautics, material handling and automation.

With an industrial presence in more than 30 countries and commercial activities worldwide, Nexans employs 22,000 people and had sales in 2007 of 7.4 billion euros. Nexans is listed on Euronext Paris, compartment A.