

Electrify the future data centers

Build more sustainable data centers with Nexans' integrated offering.

In Europe, data center growth is no longer limited by demand, but by energy availability, regulatory complexity and social acceptance. Electrification has become the main differentiator between projects that scale, and projects that stall.

Cables and their accessories are the backbone of reliable, performing and safe electrification. Seen yesterday as a simple commodity, chosen mainly for their cost, they now become a strategic asset. In data centers, cables, accessories, and related services make the difference, and are essential to ensure continuity, security, and performance.

Nexans offers a comprehensive range of solutions designed to meet the key requirements of data centers: installation efficiency, network reliability, and environmental responsibility.

Through groundbreaking innovations and solutions tailored to data centers, Nexans and its teams of specialists guide you through every stage of the project: from design to installation, including cabling system management.

**Together, we electrify
your future data center!**



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1

**Nexans,
your partner
for data center
electrification.**

Nexans at a glance

Nexans, **a global pure player** of sustainable electrification.

Nexans is the world leader in sustainable electrification, committed to building a connected and sustainable future. For over 120 years, we go beyond cables to offer a complete range of services and solutions that maximize power performance and secure critical assets.

Empowering ambitions, **simplifying** electrification.

We make life easier for our clients and partners with turnkey solutions, smart cable management systems, rugged products, and powerful digital tools. Our integrated offerings combine deep expertise to support every step of the electrification journey, from power generation all the way to the end user.



41
countries

60
plants

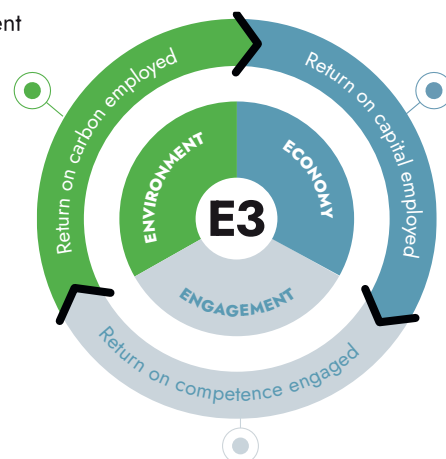
13,000
employees

€6.1bn
standard sales

E³ Empowering Sustainable Performance

1. Environmental Management
2. Circular economy
3. Climate
4. Decarbonized offers

Our unique model drives excellence by optimizing the 3 key dimensions: Environment, Economy and Engagement, to deliver maximum value and positive impact for our employees, our customers, partners and suppliers.

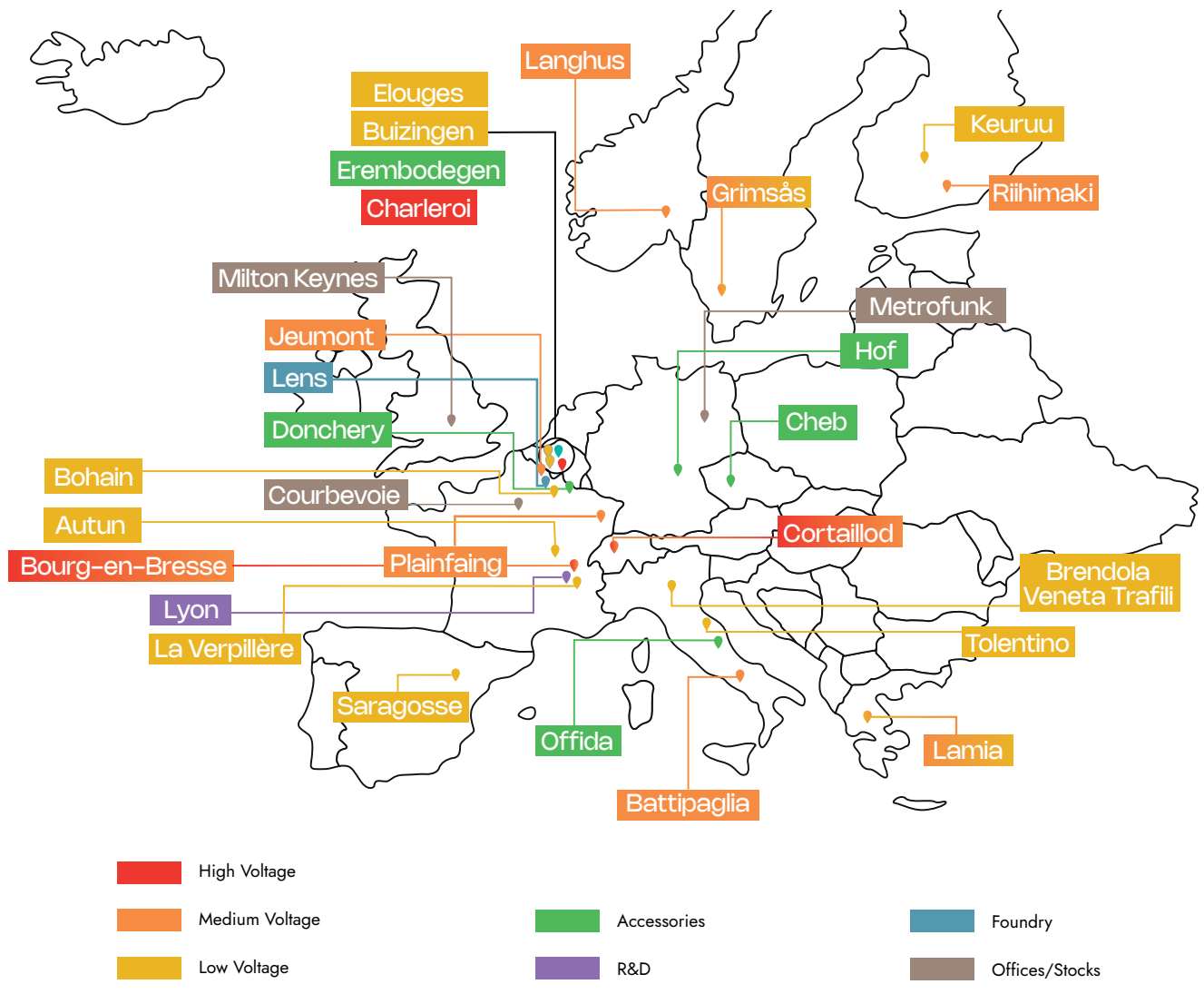


1. Financial data
2. Customers
3. Innovation
4. Competitiveness

1. Inclusion and diversity
2. Training
3. Suppliers Engagement
4. Safety

Worldwide presence with a big focus on Europe

Nexans has one of the continent's most extensive plant networks, engineered to build your reliable and future-ready data center.



Our certifications

Nexans is committed to manufacturing cables and accessories that meet the highest recognized standards:

ecovadis

Score of
77/100
for 2025

Score of

78/100

Reflecting strong performance
in sustainability and responsible
practices

ISO 9001:2015 - Quality Management:

Our unique model drives excellence by optimizing the 3 key dimensions: Environment, Economy and Engagement, to deliver maximum value and positive impact for our employees, our customers, partners and suppliers.

ISO 45001:2018 - Occupational Health and Safety:

Ensures a safe and healthy working environment for employees

ISO 14001:2015 - Environmental Management:

Focuses on reducing the environmental impact of our activities

MSCI ESG Rating:

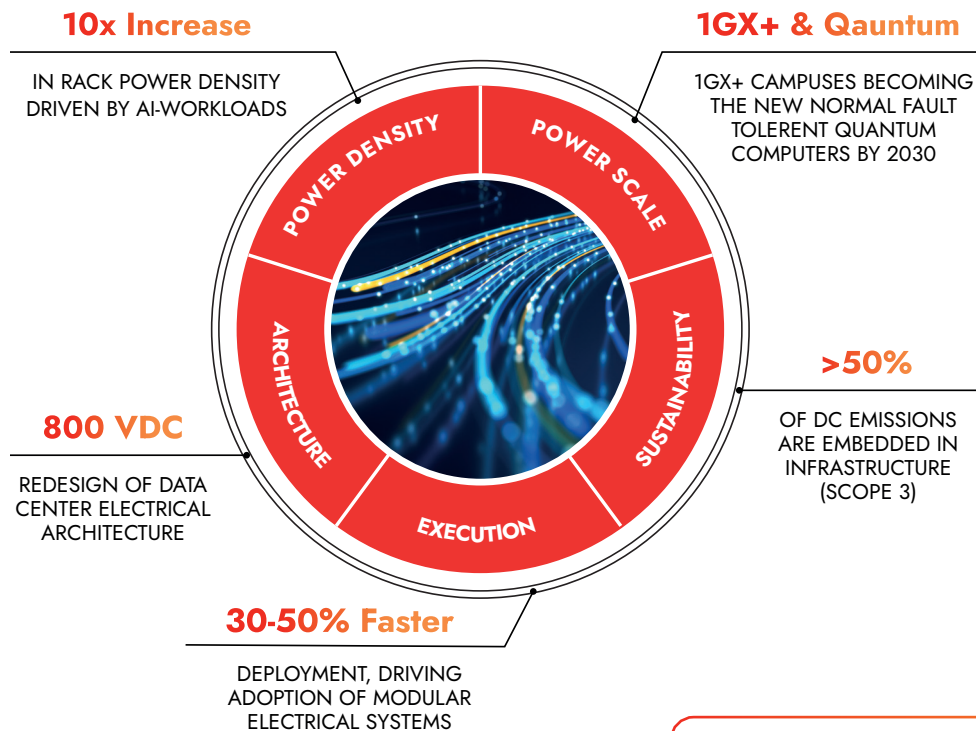
Recognition of Nexans' performance in environmental, social, and governance practices

Europe's data center market: strong growth, but energy access and sustainability challenges to be managed

EUDCA forecasts that Europe's total data center capacity will reach 48 GW by 2031, expanding at a 14% CAGR over the period.

Annual capacity additions will peak in 2029, with approximately 6 GW coming online that year alone. The Nordics, Spain and Germany are set to lead this expansion, recoding the fastest growth rates across the region.

A structural shift in power infrastructure for next-gen data centers.



The key challenges

Every data center project comes down to managing trade-offs, and uptime is always at the top of the list.

- Uptime is critical, yet **45% of network outages are linked to power supply** issues.
- Downtime can reach **\$500,000** per hour, with 70% of outages **exceeding \$100,000 in losses**.
- Energy accounts for up to **50% of operating expenses**, making efficiency a top priority.
- Growing pressure on **Scope 3 emissions** and transparency is raising the bar on environmental performance.

Cable systems represent only

2 to 2.5%

of total investment, but impact

100%

of reliability, stability, and cost control.

Electrification is no longer just a constraint to manage. It is a

key lever

to secure uptime, control costs, and meet sustainability expectations.

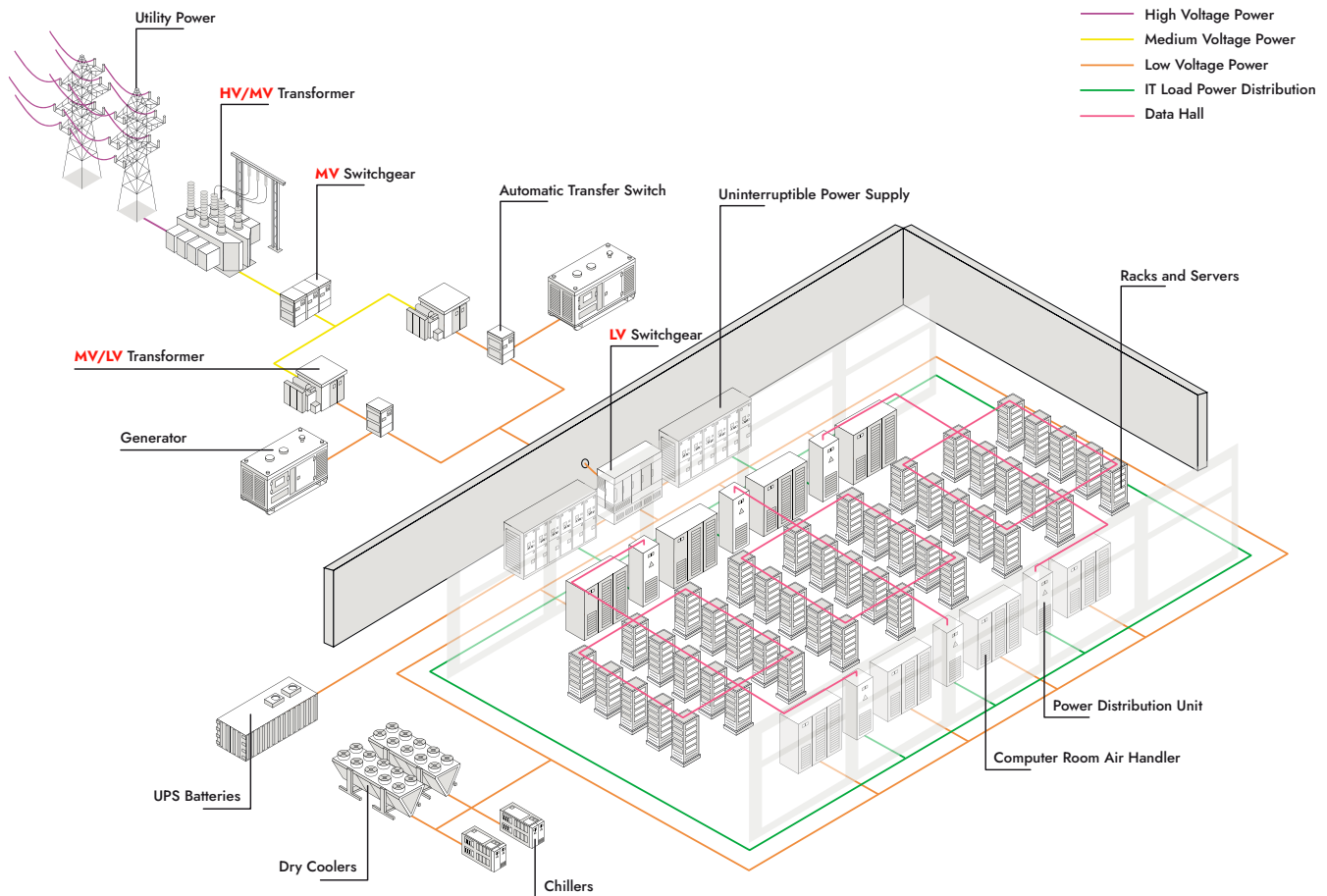


2

**Why trust Nexans
to build your
future-ready
data infrastructure**

2. Why trust Nexans to build your future-ready data infrastructure

At Nexans, we do more than just manufacture cables. We power the critical infrastructures that keep the digital world running. Our ambition is to support data centers' development at every stage of the project by supporting players in managing their key stakes, while limiting environmental impact.



Engineering expertise for seamless execution and energy efficiency

- End to end support from early design to installation.
- Solutions and on-site expertise to secure efficient and reliable deployment.

Innovative technologies to support very high power data centers

- Addressing the challenges of hyperscalers above 1 GW: power density, architecture, efficiency.
- Advanced developments in superconductivity and 800 VDC technologies.

Sustainability, at the heart of Nexans' E3 model

- E3 operating model integrating economic, environment and social performance.
- Low carbon cables range and environmental data transparency to reduce carbon footprint, combined with recycling solutions.

Cables and accessories

- From high voltage to medium and low voltage, including installation facilitating accessories, Nexans can offer products suiting all major European standards and certifications.
- Technical expertise to guide the right choices for each project.
- Delivering best-in-class fire protection with Nexans' range of high-performance fire safety cables.



3

**Engineering
expertise
for seamless
execution and
energy efficiency**

An integrated offering: products, services and solutions

Nexans supports your data center project from design to operation, combining cables, accessories and services to ensure reliable, efficient electrification at every stage.

1

DESIGN

Set the right foundations and prepare for seamless installation

- Balance between CAPEX and OPEX to optimize costs at each stage of the data center's life
- Prepare installation to speed up and secure on-site tasks.
- Make the right product choices, including on fire safety, and integrate low-carbon solutions from the start.

2

BUILD

Execute with speed and control

- Train and certify installation teams.
- Use our dedicated accessories to secure installation.
- Simplify cable installation with adapted packaging and logistics, improving pulling speed, safety and overall efficiency.

3

OPERATE

Ensure reliable and continuous operations to maintain performance and secure uptime on the long run

- Monitor electrical infrastructure to maintain performance and extend system lifetime.
- Improve reliability with predictive maintenance.

Note

In some cases, Nexans can ensure full turnkey cable solutions. Please talk to your commercial contact to discuss this early in the project.

1 DESIGN

The reliability, performance, and durability of your project are rooted in the design phase, specifically the cabling architecture.

Since this architecture dictates your installation requirements, Nexans helps design offices and general contractors implement them seamlessly.

Electrical design engineering to optimize energy consumption CAPEX vs. OPEX

During the design phase of your data center, Nexans helps you determine the optimal configuration for your data center's electrical cabling system to find the most cost-effective compromise, balancing initial investment cost with future electricity consumption and energy losses.

Good to know:

Proper sizing of your cabling system can save up to 1.5% in energy costs per year.



Credit photo Symalix

Product selection advisory

Nexans offers a wide range of cables and accessories that meet local standards across Europe. Our teams help you choose the right solutions and navigate European and international requirements, including fire safety. We can also organize presentations, webinars or training sessions to support your engineering teams on local norms and specific constraints.

Installation engineering and preparation to accelerate on-site execution

To address potential installation bottlenecks, preparation and precise building modelling are key. Nexans provides a comprehensive on-site 3D modelling service, once building is constructed.

This enables detailed BIM model adjustment of the future data center and its installation constraints for cables, including Nexans BIM objects. The model allows early identification of installation challenges, which Nexans experts can address ahead of on-site work, through : advise on cable selection, efficient preparation with pre-formed ducts customized to required bending radii, simplifying and fastening execution by removing rollers in bends and minimizing on-site uncertainties.

With production in Europe and nearby, we stay close to your projects and help secure supply.

Our specialists work directly with your teams, bringing practical support when it's needed.

2

BUILD

Accelerate execution and reduce complexity

During the construction phase, meeting deadlines at the right cost is essential. Nexans understands on-site constraints and supports you with solutions designed to simplify installation and improve execution efficiency.

Our products and handling solutions can improve installation speed and overall project efficiency by **up to 30%**.



Ease of installation and **product ergonomics**

Nexans offers a wide range of cables designed to facilitate installation, with enhanced stripability, flexibility and pullability, helping reduce time and effort on site.

For example

TITANEX flexible rubber cables combine strength and flexibility to adapt to a wide range of installation constraints.

N2HS special cables: high-flexibility cables with a reduced bending radius to make installation easier and faster.

Please refer to our catalogue section.

EUROMOLD

Complete the installation with **Nexans accessories**, designed to **simplify** steps and **ensure** reliable connections



Nexans Euromold separable connectors are designed for safe and easy installation and removal, without specific tools, while ensuring long-term performance even in demanding environments.

Each product is individually tested to guarantee quality and reliability.

ULTRACKER

Efficient logistics, **built** for your timelines

Nexans supports demanding project timelines with dedicated logistics services. Our wide network secures proximity and back-up solutions.

Cable supply is secured and drums arrive on site, ready for installation, exactly when needed.

With ULTRACKER, embedded in cable drum, you gain real-time visibility on location and remaining cable length, while simplifying return management and improving overall control.



3. Engineering expertise for seamless execution and energy efficiency



Medium and low-high voltage connection:
Ready, reliable and resilient.

Data center projects are delivered under tight timelines and leave little room for error. They require connection solutions that are fast, reliable and standardized.

To accelerate on-site execution, Nexans provides plug-and-play prefabricated links, designed and tested in factory conditions to simplify installation and secure performance.

Pre-terminated power cables are assembled in our factories using Nexans accessories, removing critical on-site operations and ensuring consistent quality. Each cable is tested according to industry standards, with additional testing available to guarantee network reliability.

- **5 steps** saved per project by outsourcing cable assembly
- **Over 300** possible combinations
- **100%** factory-tested
- **Zero** special tooling required

Installation **training and support**

Data centers installation requires knowledge and experience to ensure quick and reliable installation. Well-trained installers help reducing installation error risks and save time. Nexans provides theoretical and practical training programs for LV and MV cable supplies.



- **In-house & on-site:** Nexans welcomes trainees in its training centers, or its experienced professional trainers can come on-site to share their knowledge with your installers.
- **Theory & practice:** Training are both theoretical and practical with cable preparation and installation of accessories. All tools are provided to ensure an efficient and safe training.
- **Exam & certificate:** The trainees have to take exams to validate the knowledge and skills. Certificates are delivered to the trained installers.

With Nexans training, your teams become the guarantors of the energy reliability of your data centers.

3

OPERATE

Securing the **medium voltage backbone** of data centers

As data centers scale in capacity and complexity, the reliability of the medium voltage (MV) electrical chain becomes a critical operational priority. Increasing power densities, evolving architectures, and tighter uptime requirements expose operators to higher risks at the interface between the utility grid and internal distribution.

At the same time, the need for enhanced visibility must be balanced with strict cybersecurity

constraints, limiting the deployment of conventional, highly connected monitoring systems.

In this context, **Nexans** offers to **orchestrate end-to-end grid reliability**, focusing on the MV layer as the backbone of data center power infrastructure. By combining its expertise in cables, accessories, and installation with a curated ecosystem of best-in-class technologies, Nexans delivers a

structured approach covering system-level supervision, targeted asset monitoring, diagnostics, and critical interface reliability.

This integrated and technology-agnostic model enables data center operators to strengthen resilience, anticipate failures, and optimize operations, while maintaining full control over their infrastructure and ensuring alignment with cybersecurity and operational requirements.

Our systems allows:

- **Real time monitoring of cable discharges**, faults & short circuits, insulation degradation over time
- **Accurate fault or weak spot location** in less than 1 second
- With meter level accuracy **>99%**
- **Scalable, secure**
- Shortens **downtime**





4

**Innovative
technologies
to support very
high power data
centers**

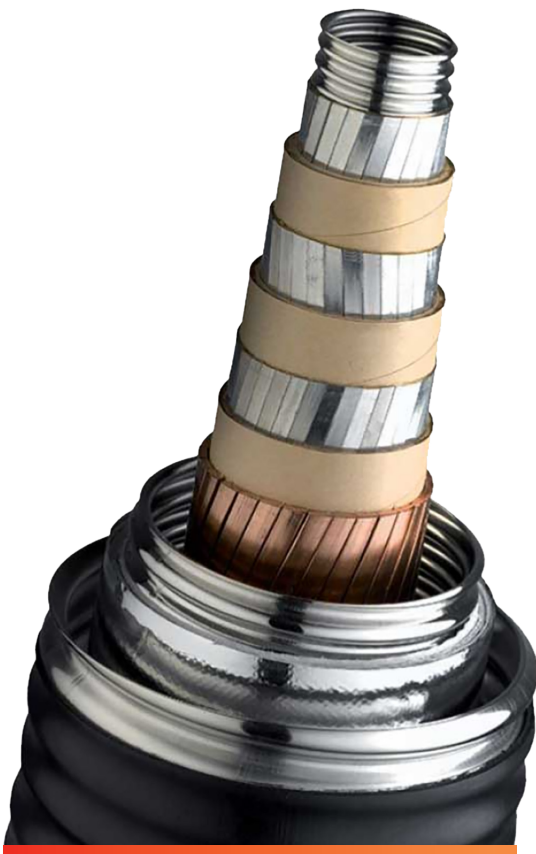
Superconductivity: cutting-edge high-temperature superconductor technology

Hyperscale and gigawatt-scale data centers are emerging to meet soaring compute demands, especially driven by AI, cloud services and advanced analytics. As their footprint and power consumption increase, significant challenges arise driven by complex power architectures, rising energy density, thermal inefficiencies, and increasing sustainability pressures.

These bottlenecks translate into higher costs, longer timelines, and reduced flexibility in terms of project planning and operations. Next generation facilities are **pushing the limits of traditional electrical infrastructure**, both inside and outside the data center footprint.

High-Temperature Superconducting (HTS) cables offer a compelling solution that can radically simplify power infrastructure, reduce costs while unlocking a step change in how data centres transmit and distribute power, and redefining the overall infrastructure design:

- **Ultra-high and efficient current capacity:** ultra-efficient conductors allowing maximum power transmission capacity, up to 3.2 GW, with zero or near-zero electrical losses, enable power savings greater than the energy expended to maintain conductors at a low temperature.
- **Reduced environmental footprint:** with 97% less copper used, no EMF (Electrical Magnetic Field) and only 1/10th of the land required vs conventional cables, superconducting cables generate less heat, reducing the need for extensive cooling infrastructure inside the data halls.
- **Compact design:** HTS cables are up to 10 times narrower than conventional ones. Fewer cables are required and there is no need for space between phases. Superconducting cables require less space with more efficient distribution layouts, and thus, a minimized impact of civil engineering, contributing to lower costs during the construction phase.



60%

of an hyperscale data center operating expenses come from electricity

97%

less copper used in super-conductivity cables

0

energy losses and heat emissions

Shifting to 800 VDC, a pioneer and sustainable approach to powering the next generation of data centers



AI driven workloads are reshaping data center electrical architectures, as high density AI and HPC racks concentrate unprecedented power levels within small footprints, with fast load variations and strict requirements on power quality and availability. Legacy AC distribution, designed for lower and predictable loads, is no longer adapted.

As rack power densities move beyond 100 kW—typical of next generation AI racks—traditional 48–54 VDC distribution architectures reach their practical limits. Since all IT equipment fundamentally operates on Direct Current, rising rack power levels make multiple AC/DC conversion stages increasingly inefficient.

800 VDC architectures therefore becomes a necessity, introducing a structural shift: power is distributed directly from a shared DC backbone to IT equipment, eliminating successive conversions embedded in UPSs, PDUs and server power supplies.

DC architectures also align naturally with modern energy systems, as Battery Energy Storage Systems and photovoltaic sources generate DC power, enabling faster load response, improved resilience and lower carbon, scalable data center designs.

In this context, DC cables become core infrastructure, ensuring safe and reliable power delivery under continuous DC voltage and thermal stress.

Nexans DC Series cables, validated in real life environments such as the Shift2DC demonstrator in Stuttgart, are engineered for long term DC ageing and interoperability, with Nexans also contributing to DC standards through the Current OS Foundation.

We are partner of:



Combining superconductivity and 800 VDC

Considering the growing trend in modern electrical infrastructure to move towards Direct Current (DC) transmission and distribution, particularly in environments where

energy efficiency and power quality are paramount, combining High-Temperature Superconducting (HTS) systems with DC systems, offers a strategic advantage.

When paired with DC systems, HTS cables can deliver electricity with zero electrical loss, enabling a new standard of efficiency and performance.

Key advantages of HTS in DC applications include:

- Loss-free transmission across high voltage (HV), medium voltage (MV), and low voltage (LV) networks.
- Reduced energy consumption, improving sustainability and lowering operating costs.
- Smaller footprint, enabling compact installations in constrained spaces.

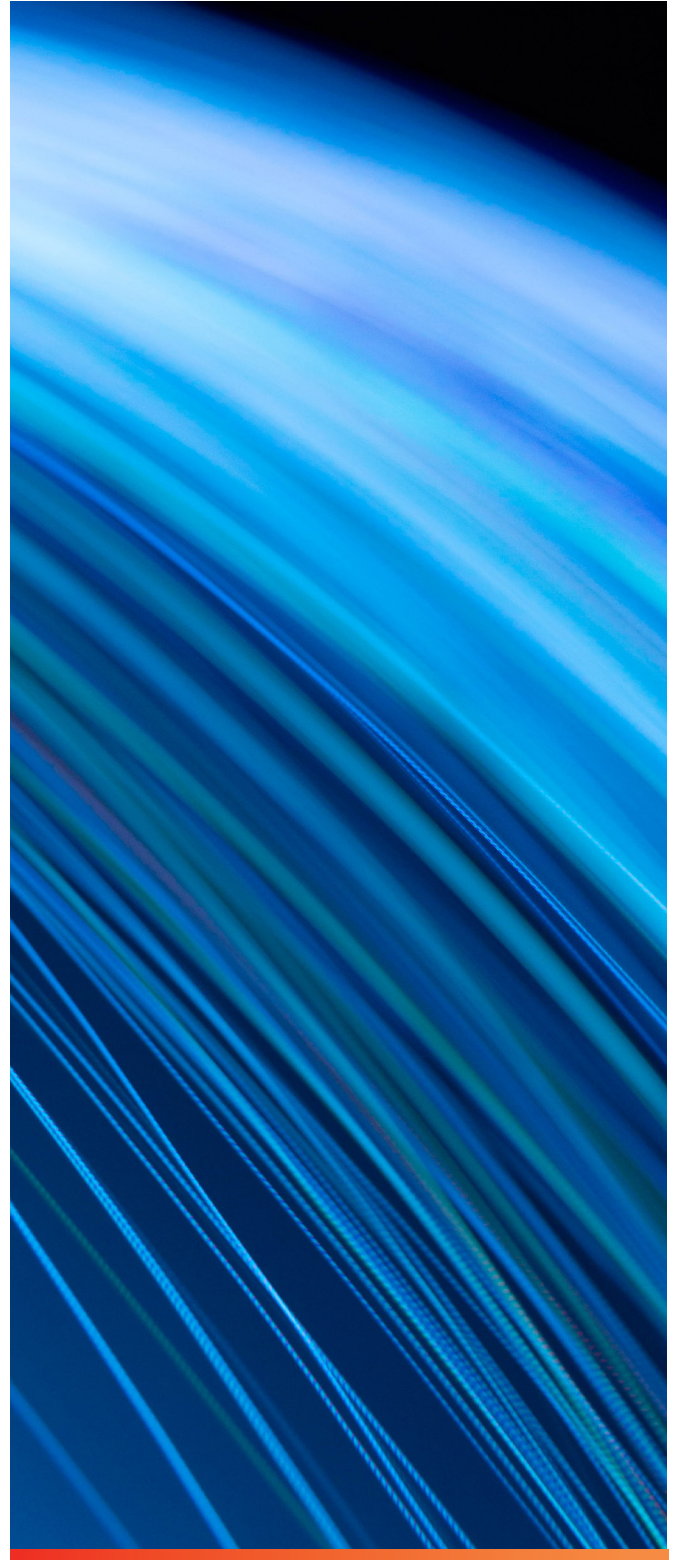
Case study

Nexans has pioneered the direct current power with **SuperRail project** in Paris.

A 1500 VDC superconductor (5.3 GW) cable has been installed for supporting the electrification of rail tracks at Paris Gare de Montparnasse.

This cable which is in operation and certified is a commercial offer that can be used for 800 VDC and LV connection to server racks (and also used with 3 cores for LV AC 480-600 V power distribution to the racks)

This installation demonstrates how superconducting DC systems can modernize critical infrastructure by enabling higher capacity, lower losses, and more efficient energy use.



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5

Sustainability,
at the heart of
Nexans' E3 model

Cutting-off carbon emissions related to the electrical grid

Reducing the carbon footprint (Scope 3 emissions) of data centers is a major concern for leading operators. Nexans has designed a comprehensive approach integrating sustainability at every level by feeding the

production of low-carbon cables with recycled metal and polymers, and transparent communication on the impact across the entire product life cycle.



• **Range of low-carbon cables:** Cables with an optimized environmental footprint up to -35% carbon emissions during the production phase. Nexans best-in-class products are identified by the "Low Carbon" symbol to distinguish products whose environmental footprint has been optimized via one or more of the following levers:

- A minimum integration of 10% recycled copper or aluminum of one or more of the following levers:
- 100% sourcing of "low-carbon footprint" aluminum*

(* Aluminum with an environmental footprint equal to or less than 7.3tCO₂ eq/t of aluminum, representing a 15% reduction compared to the European average (8.6tCO₂ eq/t of aluminum) - [Source: European Aluminium Association – February 2018 – Environmental Profile Report])



As a founding member of the PEP program, Nexans has been publishing environmental declarations for over 15 years.

These standardised declarations are publicly available at:

<http://www.pep-ecopassport.org/>

5. Sustainability, at the heart of Nexans' E3 model

- **Fully transparent environmental data:** With its Low Carbon program, Nexans ensures transparent cables' environmental data by providing reliable information based on PEP declarations, combined with enriched indicators, that allows the carbon footprint of a cable to be assessed at a glance.

Rolled out worldwide, this program applies to all Nexans products with a life cycle assessment (LCA).

As part of this unique program, Nexans has implemented the first environmental labeling of its products' CO₂ data, easily accessible from the technical data sheets of products with a certified LCA.

Up to -35%

carbon emissions with Nexans low carbon cables range

25%

recycled copper in Nexans cables globally by 2028

€90M

invested in Lens to develop state-of-the-art refining process allowing the incorporation of 100% recycled content in new cables

- **Cable recycling service provided by cable experts:** CableLoop for Enterprise is a turnkey scrap management service designed for enterprises. In a context of high tension around the extraction of raw materials such as copper, Nexans buy used cables and transform them in the Lens foundry, into valuable resources, infinitely reusable, for the cable industry, to ultimately reduce the CO₂ emissions related to the production and use of cables.

- Flexible digital logistics management, allowing online containers requests and autonomous collection demands, through a dedicated web
- Full traceability of physical flows, from on-site collection to recycling, with real-time online monitoring ;
- Fair and transparent pricing, based on recycled metals quality, and indexed to LME market prices by Nexans purchasing experts ;
- A 100% controlled recycling process through our European leading recycling center "Recycables", a joint venture between Nexans and Suez.
- Active contribution to a sustainable ecosystem, via recycled materials reintegration into Nexans low carbon cables*.





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Cables and accessories

A complete portfolio

Nexans provides one of the most complete range of cables and accessories designed to support every level of your data center electrical infrastructure. From high voltage transmission to low voltage distribution and final connections to IT server racks, our solutions are engineered to ensure reliable, safe and efficient power delivery across all environments.

High Voltage

Hyperscale data centers demand extremely high levels of power. High voltage cables are custom-designed solutions tailored for high voltage level, installation environment, and specific constraints of each project.

Nexans provides 36 kV to 500 kV solutions, mastering the whole value chain to ensure safe, performing and sustainable energy transportation.

Nexans HT-XLPE



- Sections of conductor : up to 3 000 mm², round or Milliken
- Conductor materials used : aluminum, copper and enameled copper
- Metallic screen : copper or aluminum wires with copper tape or laminated / welded aluminum low carbon cables*.

Specific functionalities :

- Longitudinally water-blocked conductor
- HFFR jacket (halogen-free)
- Optical fiber integrated into a metal tube for temperature monitoring
- Optimized skin effect (SC – Skin Control)
- Compact three-pole solution

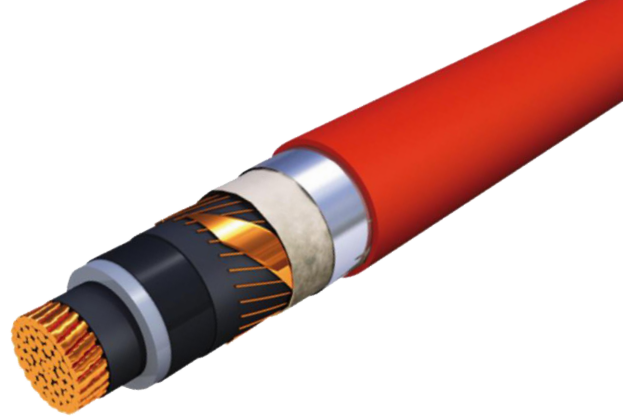
In-house HV accessories (joints, terminations) and full qualified system provider.



6. Cables and accessories

Medium Voltage

Medium voltage cables connect data centers to the grid, or can also connect different structures of a same site



MV cable range

COUNTRY STANDARD	PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	LOW CAR-BON*	STANDARD
FR	Nexans FR-N20XA8E-AR ⁽⁸⁾ Nexans FR-N30XA8E-AR ⁽⁸⁾	Standard	50-630 mm ²	Al - Class 2	Eca	-	X	NF C 33-226
	Nexans FR-N30XA8E-R ⁽⁸⁾ Nexans FR-N20XA8E-R ⁽⁸⁾	Standard	50-630 mm ²	Cu - Class 2	Eca	-	-	NF C 33-226
B	Nexans EAXeCeGB-F2 8,7-15 kV	Fire retardant	95-630 mm ²	Al - Class 2	Cca s1,d2, a1	-	X	NBN HD 620 partie 10 section B
	Nexans EXeCeGB-F2 8,7-15 kV	Fire retardant	95-630 mm ²	Cu - Class 2	Cca s1,d2,a1	-	-	NBN HD 620 partie 10 section B
	Nexans EAXeCWB	Standard	95-1000 mm ² (possible)	Al - Class 2	Fca	-	X	NBN HD 620 partie 10 section B
	Nexans EAXeCeWB	Standard	95-1000 mm ² (possible)	Al - Class 2	Fca	-	X	NBN HD 620 partie 10 section B
	Nexans EXeCWB	Standard	95-1000 mm ² (possible)	Cu - Class 2	Fca	-	-	NBN HD 620 partie 10 section B
	Nexans EXeCeWB	Standard	95-1000 mm ² (possible)	Cu - Class 2	Fca	-	-	NBN HD 620 partie 10 section B
INTL	Nexans SIWO-KUL	Fire retardant	50-400 mm ²	Cu - class 5	B2ca s1 d1 a1	Flexible + very high temperature (180°C)	-	EN 45545
CH	Nexans XKDT	Standard	50 - 630mm ²	Cu and Al - Class 2	Fca	-	-	HD 620
	Nexans XDALT ⁽⁶⁾	Standard	50 - 630mm ²	Cu - Class 2	Fca	Waterproof	-	HD 620
DE	Nexans NA2XS(FL)H 20 kV or 33 kV Nexans NA2XS(F)H or NA2XS(FL)2Y	Fire retardant	95 - 630 mm ²	Al - Class 2	Cca-s1,d2,a1 B2ca-s1,d1,a1	-	-	DIN VDE 0276-part 620 IEC 60502-2
	Nexans N2XS(F)H 10 kV or 20 kV Nexans N2XS(FL)H or N2XS(FL)2Y	Fire retardant	95 - 630 mm ²	Cu - Class 2	Cca-s1,d2,a1 B2ca-s1,d1,a1	-	-	DIN VDE 0276-part 620 IEC 60502-2

* Minimal reduction of CO² emissions of 35% via 100% low carbon aluminium and 50% recycled plastics, plus use of renewable or decarbonated energies in production process

(8) HTA cables EDR and non EDR type

(6) Not tested according AD8 but according IEC 620

COUNTRY STANDARD	PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	LOW CARBON*	STANDARD
FI	Reka HXCMK-HF D 24 kV 1 core	 Fire retardant	35-630 mm ²	Cu - class 2	Dca s2 d2 a2	-	-	SFS 7518 /HD 622 4B rev - XLPE
	Reka AHXAMK-W HF D 20 kV 3 core	 Fire retardant	185-300 mm ²	Al - class 2	Dca s2 d2 a2	-	-	SFS 7518 /HD 622 4B rev - XLPE
IT	LTC - Slimpower Plus HT 105 (rubber insulation) LTC - RG26H1M16-12/20 kV LTC - RG26H1M16-18/30 kV	 Fire retardant	25-630 mm ²	Cu - class 2	Cca s1,d1,a1 (1 conductor) or Cca s1b,d1,a1(3 conductors)	-	-	ref. to IEC 60502-2 CEI UNEL 35334 CEI 20-13 HD 620 Part 9 Section E
	Nexans RG16H1M20 - 12/20 kV (rubber insulation)	 Fire retardant	25-630 mm ²	Cu - class 2	B2ca-s1a,d1,a1	-	-	CEI 20-13 ref. to IEC 60502-2
	Nexans ARP1H5E 12/20 kV	Standard	95-240 mm ²	Al - class 2	Fca	-	-	GSC001
	Nexans ARE4H5EE(X) 12/20 kV (Shockproof)	Standard	70-630 mm ²	Al - class 2	Fca	-	-	CEI 2068; HD 620; IEC 605022
	Nexans ARE4H5EE(X) 18/30 kV (Shockproof)	Standard	70-630 mm ²	Al - class 2	Fca	-	-	CEI 2068; HD 620; IEC 605022
	Nexans ARE4H5E(X) 12/20 kV	Standard	70-630 mm ²	Al - class 2	Fca	-	-	HD 620; IEC 605022
	Nexans ARE4H5E(X) 18/30 kV	Standard	70-630 mm ²	Al - class 2	Fca	-	-	HD 620; IEC 605022
NO SE	Nexans TSLF 24 kV 1 core	Standard	50-1200 mm ²	Al - class 2	Fca Fca Not tested/no requirement	-	-	HD 620 10K - XLPE
	Nexans TSLF 36 kV 1 core		95-800 mm ²	Al - class 2				HD 620 10K - XLPE
	Nexans AXLJ 12-36 kV 1 core		95-800 mm ²	Al - class 2				SS 424 14 16/HD 620 10M - XLPE
SE	Nexans YSLF 24 kV 1 core Nexans AMLJ 12-24 kV 1 core	Standard	50-240 mm ² 50-240 mm ²	Al - class 2 Al - class 2	Not tested/no requirement Not tested/no requirement	-	X	HD 620 12K - TPI SS 424 14 20 - TPI
	Nexans AMCL 12-24 kV 3 core		50 - 300 mm ²	Al - class 2	Not tested/no requirement			SS 424 14 20 - TPI
SE FI	Reka AXCLIGHT TT 3 core	 Fire retardant	50-300 mm ²	Al - class 2	Not tested/no requirement	-	-	SS 424 14 16/HD 620 10M - XLPE
	AXQJ 12-36 kV 3 core		50-300 mm ²	Al - class 2	Dca s2 d2 a2			SS 424 14 16 HD 620 10M - XLPE
SE NO FI	AXQJ-F D / AHXCMK-HF D 24 kV 3 core	 Fire retardant	50-300 mm ²	Al - class 2	Dca s2 d2 a2	-	-	SFS 7518 /HD 622 4B rev - XLPE
	AXQJ 12-36 kV 1 core		50-630 mm ²	Al - class 2				SS 424 14 16 - XLPE
	TSLI 24 kV 1 core		50-630 mm ²	Al - class 2				HD 620 10K - XLPE
UK, IR, DE, GR	AXQJ-F TT D/AHXCAMK-HF D 24 kV 1 core	 Fire retardant	50-800 mm ²	Al - class 2	Dca s2 d2 a2	-	-	SFS 7518 /HD 622 4B rev - XLPE
	2XS(FL)H 20 kV or 33 kV		50 - 630 mm ² (Class 2)	Cu				IEC 60502-2
	A2XS(FL)H 20 kV or 33 kV		50 - 1000 mm ² (Class 2)	Al				IEC 60502-2
UK, IR, DE, GR	A2XS(F)2Y 20 kV or 33 kV	Standard	50 - 1000 mm ² (Class 2)	Al	Eca	-	-	IEC 60502-2 & BS 7870-4.10

6. Cables and accessories

Low Voltage

In data centers, the energy powers data through low voltage cables. They need to meet strict space, safety and temperature control requirements. List of products



LV cable range

COUNTRY STANDARD	PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	LOW CARBON*	STANDARD
FR	Nexans FR-N1X6G3-U/R Protect ^{(1) (2)}	Fire retardant	1,5-630 mm ²	Cu - Class 1&2	Cca-s1,d2,a1	X (3) + NXTAG (11)	-	XP C32-325
	LTC - FR-N1X6G3-U/R	Fire retardant	1x 25-300 mm ² 2x 1,5-35 mm ² 3x 1,5-35 mm ² 4x 1,5-35 mm ² 5x 1,5-25 mm ²	Cu - Cl 2 Cu - Cl1&2 Cu - Cl1&2 Cu - Cl1&2 Cu - Cl1&2	Cca-s1b,d2,a1	-	-	XP C32-325
	Nexans FR-N1X6G3- AR Protect & LFH Twistal	Fire retardant	1,5-630 mm ²	Al - Class 2	Cca-s1,d2,a1	-	-	XP C32-325
	Nexans U-1000AR2V Twistal	Standard	25-300 mm ²	Al - Class 2	Eca	-	X	NF C 32-321
	Nexans U-1000R2V Distingo ⁽³⁾	Standard	1,5-300 mm ²	Cu - Class 1&2	Eca	X (3) + NXTAG (11)	-	NF C 32-321
AU	LTC - FE05C-0,6/1 kV	Fire retardant	1x 10 to 300 mm ² 2x 1,5 to 25 mm ² 3x 1,5 to 10 mm ² 4x 1,5 to 10 mm ² 5x 1,5 to 10 mm ²	Cu - class 1+2	Cca-s1,d1,a1	-	-	TPV-003
B	Nexans XGB or Ultimo	Fire retardant	1,5-300 mm ²	Cu - Class 1&2	Cca-s1,d2,a1	Easystrip ⁽⁹⁾	X	NBN HD 604 Part 5/ Sect.L
	Nexans XVB or Ultimo	Standard	1,5-300 mm ²	Cu - Class 1&2	Cca-s3,d2,a3	Easystrip ⁽⁹⁾	-	NBN HD 604 Part 4/ Sect.G
CH	Nexans FE05-C Flex	Fire retardant	10 - 240mm ²	Cu - Class 5	Cca s1 d1 a1	AD8	-	SEV TP 20B/3C-d
	Nexans FE05-C	Fire retardant	1.5 - 630mm ²	Cu - Class 2	Cca s1 d1 a1	-	-	SEV TP 20B/3C-d
	Nexans FE05-B2	Fire retardant	1.5 - 630mm ²	Cu - Class 2	B2ca s1 d1 a1	-	-	SEV TP 20B/3C-d
DE	Nexans N2XH 0,6/1 kV single or multicores	Fire retardant	1,5-800 mm ²	Cu - Class 1 Class 2 Class 5	Cca-s1,d2,a1 B2ca-s1,d1,a1	Easystrip Flexibility 5x Bending Radius	-	DIN VDE 0276-604 and IEC 60502-1
UK, IR, DE, GR	Nexans N2XH 0,6/1 kV single or multicores	Fire retardant	1,5-800 mm ²	Cu - Class 1 & Class 2	Dca-s1,d2,a1	-	-	VDE and IEC 60502-1

COUNTRY STANDARD	PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	LOW CARBON*	STANDARD
EU	LTC - H07ZZ-F	 Fire retardant	1x 10 to 630 mm ² 2x 1 to 25 mm ² 3x 1 to 185 mm ² 4x 1 to 300 mm ² 5x 1,5 to 240 mm ²	Cu - class 5	Cca-s1b,d1,a1	Flexible	-	EN 50525-3-21
	LTC - H07BN4-F	Standard	1x 10 to 630 mm ² 2x 1 to 25 mm ² 3x 1 to 300 mm ² 4x 1 to 300 mm ² 5x 1 to 120 mm ²	Tinned Cu - class 5	Eca	Flexible	-	EN 50525-2-21
	LTC - H07BB-F	Standard	1x 10 to 630 mm ² 2x 1 to 25 mm ² 3x 1 to 300 mm ² 4x 1 to 300 mm ² 5x 1 to 120 mm ²	Cu - class 5	Eca	Flexible	-	EN 50525-2-21
FI	Reka AXCMK-HF C 1 kV (multi)	 Fire retardant	35-300 mm ²	Alu - Class 2	Cca s1 d1 a1	-	-	SFS 5546
	Reka XCMK-HF C 1 kV (multi)	 Fire retardant	1,5-6 mm ²	Cu - Class 1	Cca s1 d1 a1	-	-	SFS 5546
	Reka XCMK-HF C 1 kV (multi)	 Fire retardant	10-300 mm ²	Cu - Class 2	Cca s1 d1 a1	-	-	SFS 5546
	Reka MK-HF C (single) 450/750V	 Fire retardant	4-630 mm ²	Cu - Class 2	Cca s1 d1 a1	-	-	EN 50525-3-31
	Reka MKEM-HF C 450/750V (single)	 Fire retardant	10-150 mm ²	Cu - Class 5	Cca s1 d1 a1	Flexible	-	EN 50525-3-31
FI NO	MK-HF D 450/750V (single)	 Fire retardant	10-500 mm ²	Cu - Class 2	Dca s2 d2 a2	-	-	EN 50525-3-31
	IX 450/750V (single)	 Fire retardant	10-120 mm ²	Cu - Class 2	Dca s2 d2 a2	-	-	EN 50525-3-31
FI NO SE	MKEM-HF D (single) 450/750V	 Fire retardant	1,5-120 mm ²	Cu - Class 5	Dca s2 d2 a2	Flexible	-	EN 50525-3-31
	RQ 450/750V (single)	 Fire retardant	6-240 mm ²	Cu - Class 5	Dca s2 d2 a2	Flexible	-	EN 50525-3-31
	RQ 450/750V (single)	 Fire retardant	1,5-300 mm ²	Cu - Class 5	Dca s2 d2 a2	Flexible	-	EN 50525-3-31

* Minimal reduction of CO₂ emissions of 35% via 100% low carbon aluminium and 50% recycled plastics, plus use of renewable or decarbonated energies in production process

(1) Rigid or semi-rigid cables, up to 5 conductors

(2) U (solid copper) for 1,5-4 / R (stranded copper) for >= 6

(3) Distingo up to 16 mm : color marking of sections & nb of conductors, as well as remaining length; easy strippable + available on Mobiway

(9) Easystrip if Ultimo

6. Cables and accessories

LV cable range

COUNTRY NORM	PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	LOW CARBON*	STANDARD
INTL	Nexans H07BN4-F	 Fire retardant	1x 10 to 630 mm ² 2x 1 to 25 mm ² 3x 1 to 300 mm ² 4x 1 to 300 mm ² 5x 1 to 120 mm ²	Cu - class 5	Eca	Flexible	-	EN 50525-2-21
	Nexans H07ZZ-F Protect ⁽⁵⁾	 Fire retardant	35-50-70 mm ² single core	Cu - class 5	Cca-s1a,d2,a1	Flexible	-	NF EN 50525-3-21
	Nexans H07ZZ-F Protect ⁽⁵⁾	 Fire retardant	95-630 mm ² single core	Cu - class 5	B2ca-s1a,d2,a1	Flexible	-	NF EN 50525-3-21
	Nexans H07Z- U R 450/750 V - Building Wires for Earthing	 Fire retardant	1,5-500 mm ²	Cu - Class 1&2	Cca-s1,d2,a1 B2ca-s1,d1,a1		-	BS EN IEC 50525-3-41
	Nexans H07Z-K 450/750 V - Building Wires / Earthing Cables	 Fire retardant	1,5-500 mm ²	Cu - Class 5	Cca-s1,d2,a1 B2ca-s1,d1,a1	Flexible	-	BS EN IEC 50525-3-41
	Nexans H07RN-F Titanex ⁽⁴⁾	Standard	1,5-630 mm ²	Cu - class 5	Eca	Flexible	-	EN 50525-2-21
IT	LTC - FG16(O)M16-0,6/1 kV	 Fire retardant	1x 10 to 630 mm ² 2x1,5 to 240 mm ² 3x1,5 to 300 mm ² 4x1,5 to 25 mm ² 5x1,5 to 50 mm ² 3x 35 to 300 + 1x 25 to 150 mm ² 3x70+1x35+1G35 mm ² 3x120+1x70+1G70 mm ²	Cu - class 5	Cca-s1b,d1,a1	Flexible	-	CEI UNEL 35324
	LTC - ARG16M16-0,6/1 kV	 Fire retardant	1x 16 to 300 mm ²	Al - class 2	Cca-s1b,d1,a1	Flexible	-	CEI UNEL 35396 CEI 20-13
	LTC - FG18(O)M18-0,6/1 kV	 Fire retardant	1x 10 to 630 mm ² 2x 1,5 to 70 mm ² 3x 1,5 to 120 mm ² 4x 1,5 to 120 mm ² 5x 1,5 to 50 mm ² 3x 35 to 70+1x 25 to 35 mm ²	Cu - class 5	B2ca-s1a,d1,a1	-	-	CEI UNEL 35312
	LTC - FTG18(O)M16-0,6/1 kV	 Fire resistant	1x 6 to 630 mm ² 2x 1,5 to 70 mm ² 3x 1,5 to 120 mm ² 4x 1,5 to 25 mm ² 5x1,5 to 120 mm ² 3x 35 to 95+1x 25 to 50 mm ²	Cu - Class 5	B2ca-s1a,d1,a1	Flexible	-	CEI 20-45 EN 50200 CEI EN 60331-1

6. Cables and accessories

COUNTRY STANDARD	PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	LOW CARBON*	STANDARD
NL	Nexans YMz1K	 Fire retardant	1,5-300 mm ²	Cu - Class 1 / 2 or 5	B2ca or Cca-s1,d1,a1	Flexible from 10mm possible (class 5)	-	HD 604 Part 5/ sect. C / KEMA 42 C-1-5-C
	Nexans YMvK	Standard	1,5-300 mm ²	Cu - Class 1 / 2 or 5	Dca-s2,d2,a3	Flexible from 10mm possible (class 5)	-	HD 604 Part 4/ Sect.D / KEMA 42 C-1-4-D
SE	Nexans EQLQ Easy 450 750 V	 Fire retardant	1,5-2,5 mm ²	Cu Class1	Dca s2 d2 a2	easy strip	-	SS 424 02 19-6
SE FI	EXQJ (multi) XCMK-HF D 1 kV (multi)	 Fire retardant	2,5-10 mm ² 1,5-6 mm ²	Cu - Class 1	Dca s2 d2 a2	-	-	SS 424 14 18 SFS 5546
SE NO FI	AXQJ Easy 1 kV (multi) IFSI AL Easy 1 kV (multi) AXCMK-HF D 1 kV(multi)	 Fire retardant	25 -300 mm ² 25 -300 mm ² 35 -300 mm ²	Alu - Class 2	Dca s2 d2 a2	easy strip + Flexible	-	HD 603.5AB / SS 424 14 18 HD 604 5D SFS 5546
	FXQJ EMC Easy 1 kV (multi) IFSI EMC CU Easy 1 kV (multi) XCMK-HF D 1 kV (multi)	 Fire retardant	16-300 mm ² 16-300 mm ² 10-300 mm ²	Cu - Class 2	Dca s2 d2 a2	easy strip + Flexible	-	SS 424 14 18 HD 604.5D SFS 5546
SE NO	Nexans RXQ 1 kV (single) Nexans TXXI CU 1 kV (single)	 Fire retardant	95-400 mm ²	Cu - Class 2	Dca s2 d2 a2	-	-	IEC 60502-1 NEK 536 in applicable parts
	Nexans AXQ 1 kV (single) Nexans TXXI AL 1 kV (single)	 Fire retardant	95-630 mm ²	Alu - Class 2	Dca s2 d2 a2	-	-	IEC 60502-1 NEK 536 in applicable parts
SP	RCT RZ1-K	 Fire retardant	1,5-300 mm ²	Cu - class 5	Cca-s1,d1,a1	Flexible	-	UNE 21123-4
	RCT RV-K	Standard	1,5-300 mm ²	Cu - class 5	Eca	Flexible	-	UNE 21123-2
	Nexans RZ1-K ⁽⁷⁾	 Fire retardant	25-240 mm ²	Cu - class 5	Cca-s1,d1,a1	Flexible	-	UNE 21123
UK IR	Nexans CU/XLPE/SWA/LSZH 0,6/1 kV single or multi core	 Fire retardant	1,5-800 mm ²	Cu - Class 2	Cca-s1,d2,a1 B2ca-s1,d1,a1	-	-	BS6724
	Nexans NX100 450/750 V single core	 Fire resistant	1,5-300 mm ²	Cu - Class 2	Fire resistance 120', equivalent to Cca s1,d2,a2	-	-	BS8592
	Nexans NX400 0.6/1 kV single core	 Fire resistant	1,5-400 mm ²	Cu - Class 2	Fire resistance 120', equivalent to Cca s1,d2,a2	-	-	BS7846
	Nexans NX400 0.6/1 kV	 Fire resistant	1,5-400 mm ²	Cu - Class 2	Fire resistance 120', equivalent to Cca s1,d2,a2	-	-	BS7846
	Nexans NX600 0.6/1 kV	 Fire resistant	1,5-400 mm ²	Cu - Class 2	Fire resistance 120', equivalent to Cca s1,d2,a2	-	-	BS7846; BS8519 cat. 3

* Minimal reduction of CO₂ emissions of 35% via 100% low carbon aluminium and 50% recycled plastics, plus use of renewable or decarbonated energies in production process

(5) Flexible monoconductor cables with elastomer covers, resistant, indoor & outdoor, including with oils and chemicals

(4) Flexible cables with elastomer covers, resistant, indoor & outdoor, including with oils and chemicals

(7) Monocables 25–240 mm, and multicables up to 5 cables for sections 25–240 mm; up to 500 mm available by summer 2026 and 630 mm by Q4–2026

High-temperature superconducting cables



HV cables range

COUNTRY STANDARD	PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	LOW CAR-BON*	STANDARD
IEC	Nexans HTS 3in1 AC Mono/Three-Phase LV Cable 66kV/115 kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA	2G-HTS tape	Superconducting cables do not have a Euroclass classification. To date, we are engaged with UL to define an appropriate classification within the NEC.	Flexible; bending radius: 500–3000 mm (depending on outer diameter).	Low CO ₂ footprint; quasi-zero electrical losses	IEC
	Nexans HTS single core AC Mono/Three-Phase LV Cable 135 kV/225 kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA	2G-HTS tape		Flexible; bending radius: 500–3000 mm (depending on outer diameter).	Low CO ₂ footprint; quasi-zero electrical losses	

MV cables range

COUNTRY NORM	PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	LOW CAR-BON*	STANDARD
IEC	Nexans HTS Concentric AC Mono/Three-Phase LV Cable 10 kV/35 kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA	2G-HTS tape	Superconducting cables do not have a Euroclass classification. To date, we are engaged with UL to define an appropriate classification within the NEC.	Flexible; bending radius: 500–300w0 mm (depending on outer diameter).	Low CO ₂ footprint; quasi-zero electrical losses.	IEC compliant; UL certification letter available confirming compliance with UL/NFPA NEC requirements during the interim period (standard in development, expected 2029).
	Nexans HTS 3in1 AC Mono/Three-Phase LV Cable 10 kV/35 kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA	2G-HTS tape				

LV cables range

COUNTRY STANDARD	PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	LOW CAR-BON*	STANDARD
IEC	Nexans HTS concentric DC bipolar/unipolar LV Cable 0.4/1 kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA	2G-HTS tape	Superconducting cables do not have a Euroclass classification. To date, we are engaged with UL to define an appropriate classification within the NEC.	Flexible; bending radius: 500–3000 mm (depending on outer diameter).	Low CO ₂ footprint; quasi-zero electrical losses	IEC compliant; UL certification letter available confirming compliance with UL/NFPA NEC requirements during the interim period (standard in development, expected 2029).
	Nexans HTS single core DC LV Cable 0.4/1 kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA	2G-HTS tape				
	Nexans HTS Concentric AC Mono/Three-Phase LV Cable 0.4/1 kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA	2G-HTS tape				
	Nexans HTS 3in1 AC Mono/Three-Phase LV Cable 0.4/1 kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA	2G-HTS tape				

Power cables & accessories portfolio

Power accessories (connectors, cable terminations) are essential to ensure the reliability and safety of electrical connections across the infrastructure.

Nexans offers a complete range of accessories designed for easy installation, reduced error risk and long-term performance.

Our solutions support faster deployment and help secure connections at every stage of the project.



Detailed product range

Thanks to a wide range of smart, easy to install accessories, Nexans helps you meet your deadlines fast and error-proof.

Nexans Accessories

PRODUCT FAMILY	SECTION RANGE MM ²	CONDUCTOR METAL	NORMS	VOLTAGE kV	BENEFITS
Connectors	16-1200	Cu - Al	CENELEC HD 629.1 CENELEC EN 50180 CENELEC EN 50181	12-72,5	From interface A - F Compact design
Surge arresters	-	-	CENELEC HD 629.1 IEC 60099-4	12-72,5	Interfaces C, E & F
Bushings	-	Cu-Al	IEC 60137 CENELEC EN 50180 CENELEC EN 50181	12-72,5	Interface A - B - C - F
Cold-shrink joints	35-630	Cu-Al	CENELEC HD 629.1 IEC 60502-4	12-36	Easy tech: All-in-one cold-shrink joint. Advanced ergonomics and error-proof design ensure consistent installation quality and improved reliability.
Heat-shrink joints	25-1200	Cu-Al	CENELEC HD 629.1 IEC 60502-4	12-52	-
Cold-shrink terminations	25-630	Cu-Al	CENELEC HD 629.1 IEC 60502-4	12-24	-
Heat-shrik teminations	12-1200	Cu-Al	CENELEC HD 629.1 IEC 60502-4	12-52	-
Slip-on terminations	25-1200	Cu-Al	CENELEC HD 629.1 IEC 60502-4	12-72,5	Ready to install
Pre-terminated power cables	-	Cu-Al	-	12-72,5	Plug-and-play, tailor-made, factory assembled and tested
Smart Accessories	16-1200	Cu-Al	CENELEC HD 629.1	12-36	Interface A and C Smart monitoring and detection of weak points prior to failure.
Ferrules and lugs - Mechanical connectors	16-1200	Cu-Al	VDE 0220 IEC 61238-1 UL 486A-486B	LV - HV	A complete range of bolted products covering from LV to HV
Ferrules and lugs - Cable lugs	16-1200	Cu-Al	VDE 0220 IEC 61238-1 UL 486A-486B	LV - HV	A complete range of bolted products covering from LV to HV

Notes

Notes



For more information on
Nexans' data center solutions,
visit www.nexans.com

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