

DATA CENTER POWER

Electrify the future

Data Centers

Turning power architecture and tech solutions into performance drivers

Nexans
ELECTRIFY THE FUTURE



Build more sustainable data centers with Nexans' end-to-end offering.

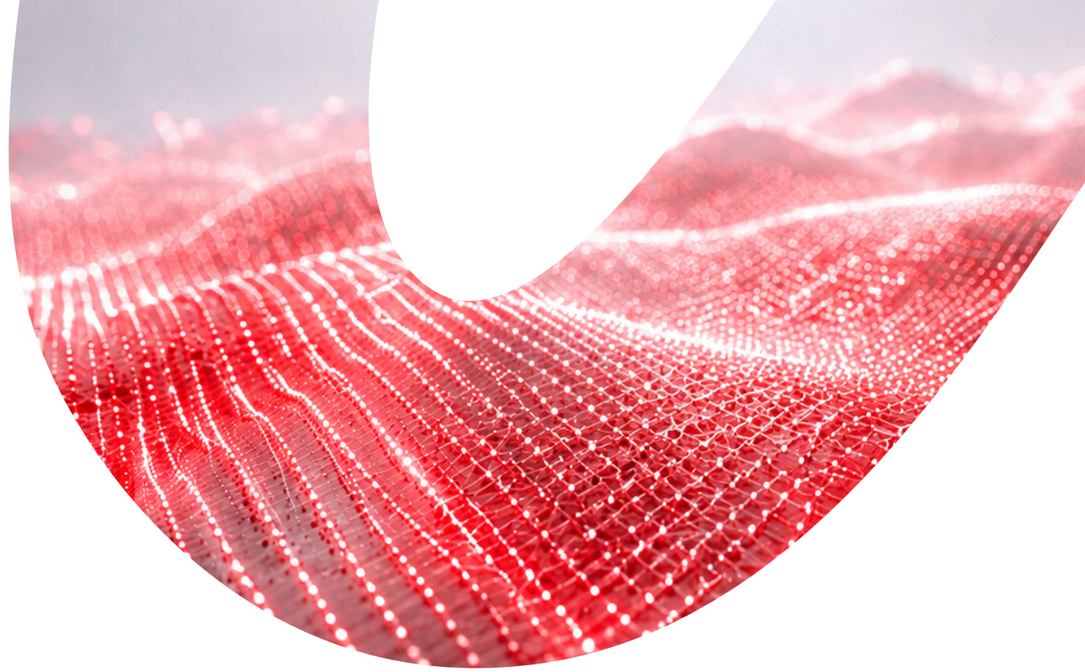
In Europe, data center growth is no longer limited by demand, but by energy availability, regulatory complexity and social acceptance. Electrification has become the main differentiator between projects that scale, and projects that stall.

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, electrical 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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Nexans, your partner for data center electrification.

Nexans in a nutshell

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 140 years, we've been going 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.

39 countries

60 plants

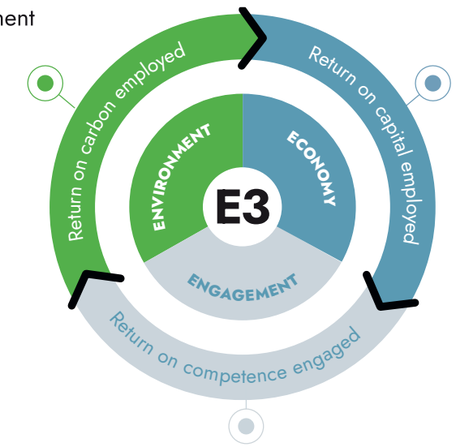
13,000 employees

€6.1bn standard sales in 2025

E^3 Empowering Sustainable Performance

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

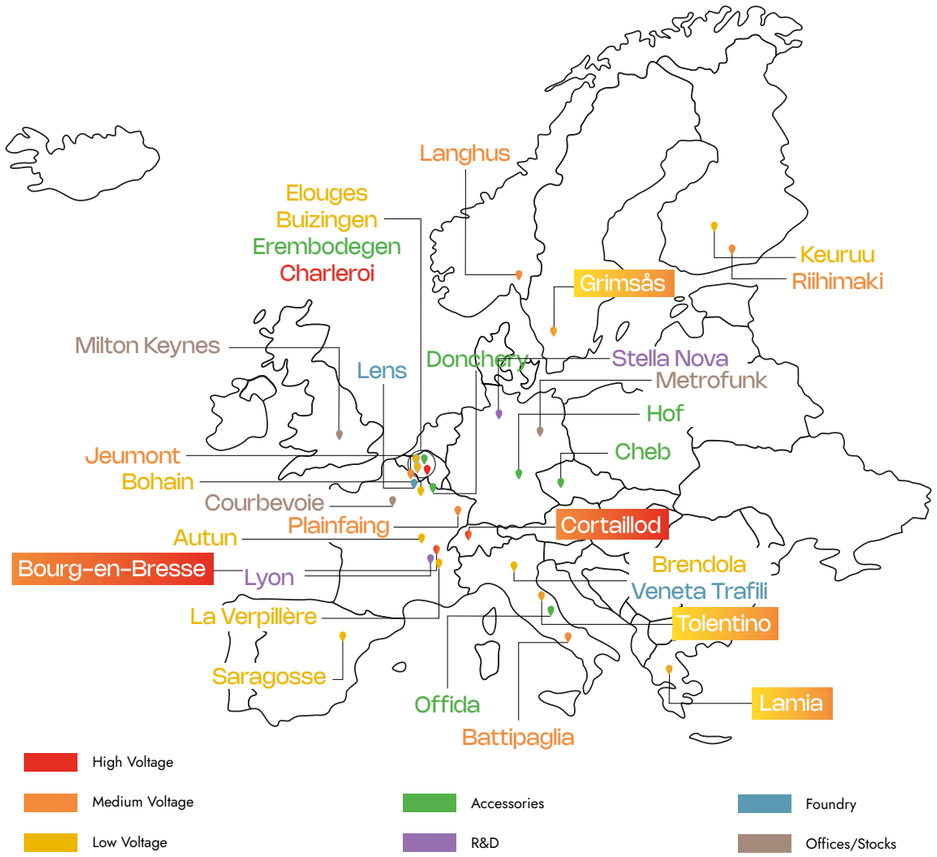


1. Financial data
2. Customers
3. Innovation
4. Competitivity

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

1. Nexans, your partner for data center electrification

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.

POWER DENSITY

10x Increase

IN RACK POWER DENSITY DRIVEN BY AI-WORKLOADS

POWER SCALE

1GW+ & Quantum

1GW CAMPUSES BECOMING THE NEW NORMAL FAULT OTLERENT QUANTUM COMPUTERS BY 2030

SUSTAINABILITY

Up to 40-50%

OF DATA CENTERS EMISSIONS CAN BE EMBEDDED IN INFRASTRUCTURE (SCOPE 3)[1]

EXECUTION

30-50% Faster

DEPLOYMENT, DRIVING ADOPTION OF MODULAR ELECTRICAL SYSTEMS

ARCHITECTURE

800V DC

REDESIGN OF DATA CENTERS ELECTRICAL ARCHITECTURE

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.
- Electrification is no longer just a constraint to manage. It is a **key lever to secure uptime, control costs, and meet sustainability expectations.**

Cable systems represent only

2 to 2.5%

of total investment

Impact

100%

of reliability, stability, and cost control.

Source: Nexans internal market studies

1 I SE, AI DC Design Paper(2025)
2 I BloombergNEF(2025)
3 I Deloitte, Quantum over the next 5 years (2025)
4 I Siemens Press Release(2025)

02

Our offer at a glance

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.

Our offer 4 pillars

1 Electrical expertise	2 Industrial excellence	3 Net-Zero enablers
Engineering experts building energy efficient cabling architecture	Widest cables and accessories portfolio for low voltage, to medium and high voltage	Cutting-off carbon emissions related to the cabling infrastructure

4 Tech solutions

Breakthrough technologies for next-gen data centers

Electrical Expertise

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

Tech solutions

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

Net-Zero enablers

- At design, operating or end of life stage, Nexans supports its customers to reduce their footprint.
- Low carbon cables range and environmental data transparency, energy consumption optimisation and recylcling solutions.

Industrial Excellence

- 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 Electrical expertise for seamless execution and energy efficency

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

- Project engineering to anticipate and secure flowless execution.
- Make the right product choices, including on fire safety, balance between CAPEX and OPEX to optimize costs at each stage of the data center's life
- Integrate low carbon solutions from the start to meet sustainability constraints

2 SUPPLY AND INSTALL

Execute with speed and control

- Full programs of Nexans trainings to certify installation teams.
- Use the most reliable accessories range 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 also dictates your installation requirements, Nexans helps design offices and general contractors prepare seamless installation.

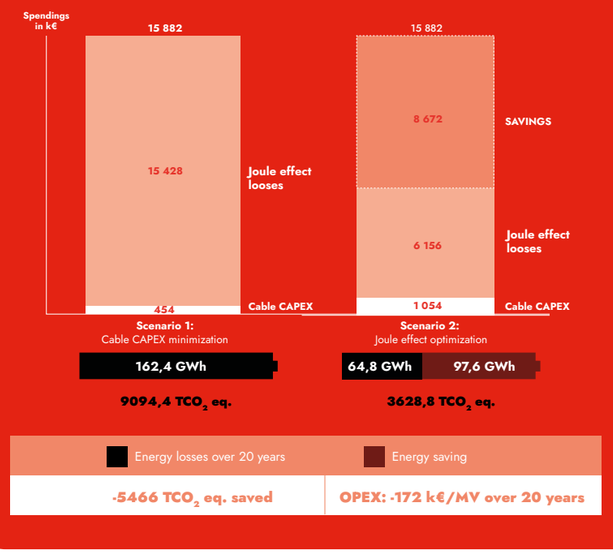
Electrical design engineering to optimize energy consumption

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 close to 1% in energy costs per year.

Use case:

reduction by 60% of Joule effect losses for a 54 MW data center over 20 years lead to -172 k€ per MW



Joule effect represent up to 1% of the total energy consumption of the data center.
Assumptions: comparison of scenarios 1 & 2. Operation over 20 years. Electricity price: 95€/MWh. CO2 emission factor: 56g/kWh (FR 2024)

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. (Also, check our portfolio of BIM objects on bimobject.com).

Contact Nexans experts for your electrical simulations and calculations. **bimobject.com**

Preformed ducts, customized to required bending radii, can be used to speed up installation.



Credit photo Symalit

Product selection advisory

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

Our teams help you choose the right solutions amongst our wide portfolio and navigate European and international requirements, including fire safety and embedded carbon optimisation.

3. Electrical expertise for seamless execution and energy efficiency

2 SUPPLY AND INSTALL

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.

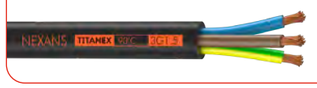
Our products and handling solutions can improve installation speed and overall project efficiency by **up to 30%.**

Ease of installation and product ergonomics

Nexans offers a wide range of cables designed to facilitate installation, with enhanced stripability, flexibility and

For example

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



For example

N2XH flex: high-flexibility cables with a reduced bending radius to make installation easier and faster.

- o Bending radius: 38% more flexible
- o Bending force: 40% easier to bend

Please refer to our catalogue section.



MOBIWAY UN'REEL

MOBIWAY UN'REEL simplifies the installation process, using a smarter cabling system.

This innovative, ergonomic drum is designed to simplify cable pulling and management. It can easily be handled by a single person an doesn't require any specific tool, enabling:

- o Up to 50% reduction in installation time
- o Up to 30% reduction in onsite injuries
- o 40–50% reduction in operating expenses thanks to fewer resources, faster installations and fewer incidents

Traditional reels focus on carrying cable; MOBIWAY UN'REEL turns the reel into a safe, ergonomic and cost efficient installation system.

Efficient logistics, **supporting** your timelines

ULTRACKER

Nexans supports demanding project timelines with dedicated logistics services. Our wide European network secures proximity and back-up solutions. Cables arrive on site, ready for installation, exactly when needed.
With **ULTRACKER**, embedded in each cable drum, you gain real-time visibility on location and remaining cable length, while simplifying return management and improving overall control.

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

EUROMOLD

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.[2] Each product is individually tested to guarantee quality and reliability.

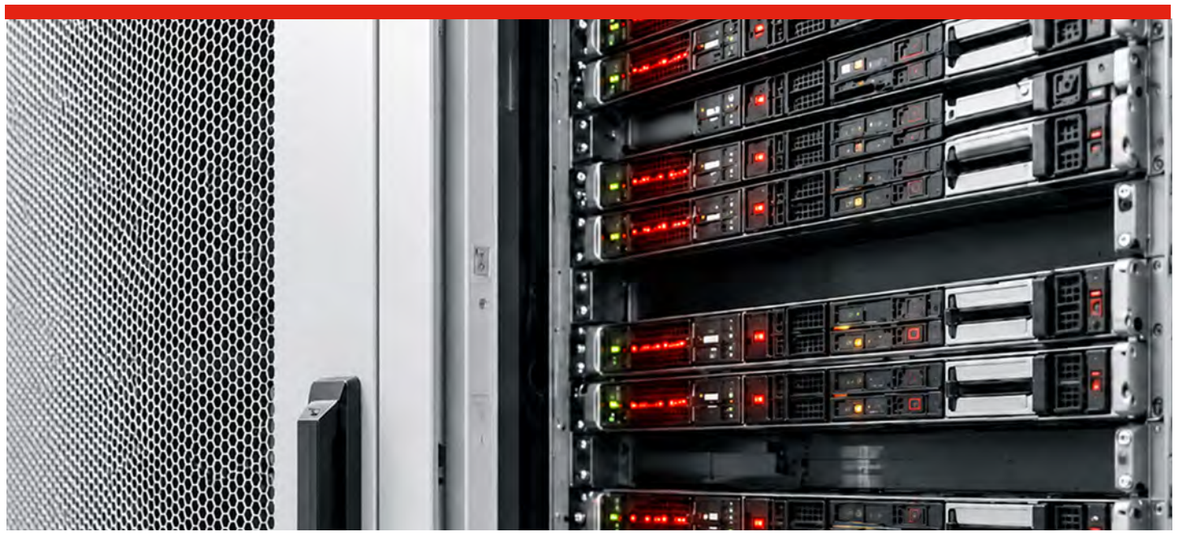


Pre-terminated power cables

For data center projects where speed, reliability and standardization are essential, Nexans provides plug-and-play pre-terminated power cables, assembled and tested under controlled factory conditions.

Ready to connect. Factory tested.
Cables are pre-assembled using Nexans accessories, reducing critical on-site operations while ensuring consistent installation quality and reliable performance. The existing catalogue highlights more than 300 possible combinations, 100% factory testing, zero special tooling required.

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



3. Electrical expertise for seamless execution and energy efficiency

Installation **training and support**

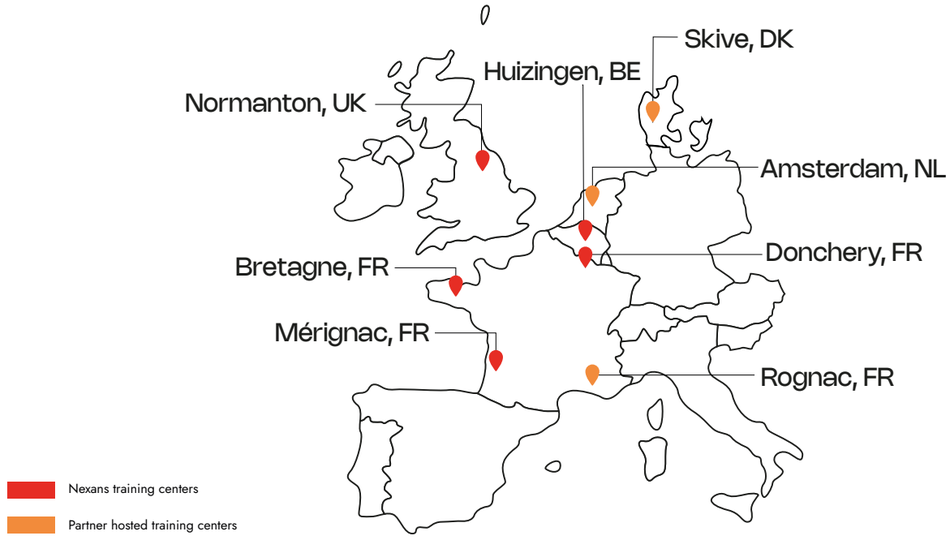
Data center installations require knowledge and experience to ensure safe, fast and reliable execution. Well-trained installers help reduce installation errors, save time on site and contribute to the long-term reliability of the electrical network. Nexans provides theoretical and practical training programs for LV, MV and HV cable systems and accessories, supporting installers from cable-end preparation to final installation (validated by ENEDIS).



- **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 contribute directly to the reliability and continuity of your data center power infrastructure.

Nexans training centers and experienced trainers support installation teams across multiple locations.



3 OPERATE

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

As data centers scale in capacity and complexity, the reliability of the medium voltage electrical chain becomes a critical operational priority. The need for enhanced visibility must be balanced with strict cybersecurity constraints, limiting the deployment of conventional, highly connected monitoring systems.

Nexans' **end-to-end Grid reliability monitoring system**, 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

Tech solutions to support very high power data centers

Next-gen data center challenges

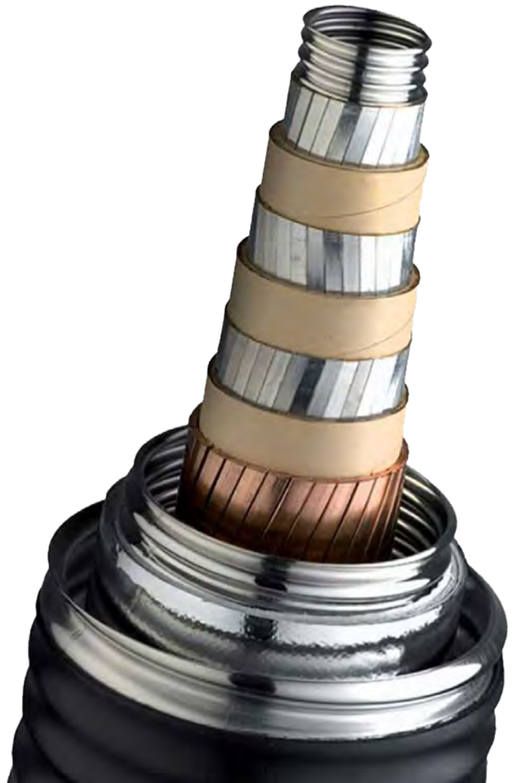
Hyperscale and gigawatt-scale data centers are emerging to meet soaring compute demands, especially driven by AI, cloud services and advanced analytics. As their footprint and power consumption increase, significant challenges arise driven by complex power architectures, rising energy density, thermal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

Superconductivity: cutting-edge high-temperature superconductor technology

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

800V DC 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.

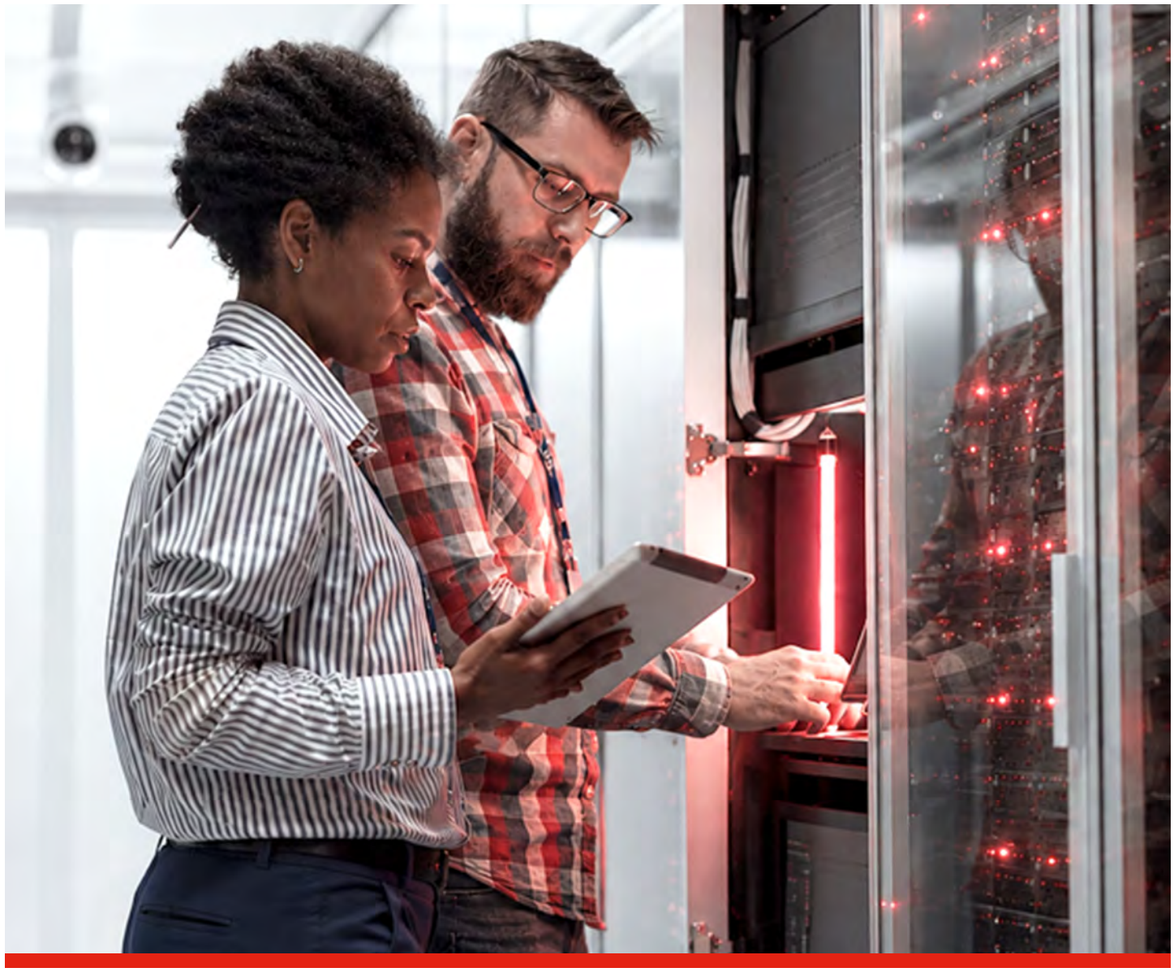
DC architectures also align naturally with modern energy systems, as Battery Energy Storage Systems and photovoltaic sources generate DC power, enabling faster load response, improved resilience and lower carbon, scalable data center designs.

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:

CurrentOS Shift2DC



Combining superconductivity and 800 V DC

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 V DC 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)

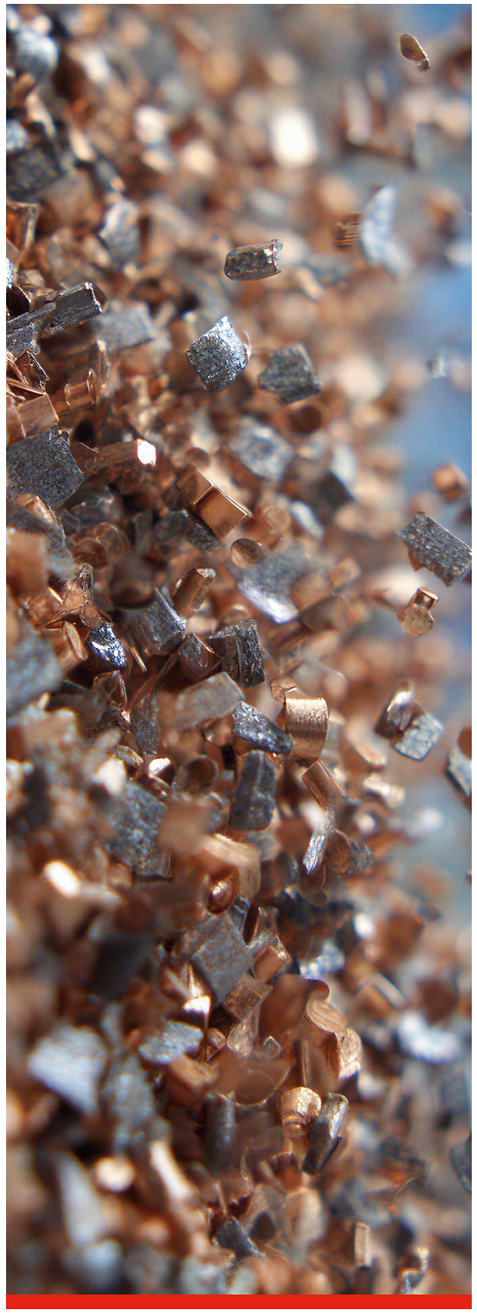
This installation demonstrates how superconducting DC systems can modernize critical infrastructure by enabling higher capacity, lower losses, and more efficient energy use.



5 Net-Zero enablers

Cutting-off carbon emissions related to the electrical grid

As a pioneer in sustainable electrification, environmental performance is at the heart of Nexans strategy. Thanks to a comprehensive portfolio of sustainable products and services, Nexans supports data centers throughout their entire lifecycle.



Infrastructure design

With Nexans low-carbon cables portfolio and our commitment for data transparency, we help you make the right choices, reducing your carbon emissions from the start.

Our range of low-carbon cables

CO_2 LOW CARBON

Nexans has designed a comprehensive approach integrating sustainability at every level by feeding the production of low-carbon cables with recycled metal and polymers.

Nexans best-in-class products are identified by the «Low Carbon» symbol to distinguish products whose environmental footprint has been optimized.

Up to -35%
carbon emissions with Nexans low carbon cables range

30% to 100% of recycled copper
integrated in our products by 2028[2]

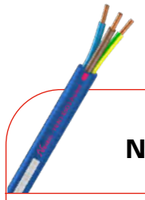
100% sourcing
of «low-carbon footprint» aluminum*

* I Aluminum with an environmental footprint equal to or less than 7.3 tCO_2 eq/t of aluminum, representinga 15% reduction compared to the European average (8.6 tCO_2 eq/t of aluminum) - [Source: European Aluminium Association – February 2018 – Environmental Profile Report])
2 I 100% recycled copper in selected product families, on request

Fully transparent **environmental** data

With our Low Carbon program, Nexans ensures transparent cables' environmental data by providing reliable information based on PEP declarations. Combined with enriched indicators, they allow the carbon footprint of a cable to be assessed at a glance.

As part of this unique program, Nexans has implemented the first environmental labelling of its products' CO_2 data, easily accessible from the technical data sheets of products with a certified LCA.



Nexans FR-N1 X6G3 PROTECT 3G1,5 C50

GLOBAL CARBON FOOTPRINT	RECYCLED COPPER RATIO	MANUFACTURING SITE
260.9 KG EQ. CO_2	12%	
Amount CO_2 emitted Cradle to Gate phase (raw material collection and manufacturing), for the production of 1 km of cable.	Percentage of recyled metal in the cable conductor.	Manufactured in Autun

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/



During usage

Nexans helps you redesign your data centre's electrical infrastructure to reduce energy losses throughout its lifetime. By adapting cables sizes, Nexans enables a better energy efficiency reducing the Joule effect losses.

For a 54 MW data center running for 20 years, up to 97.6 GWh can be saved reducing the carbon footprint by 5466 TCO_2 eq.

60%
of Joule effect losses reduction

Operation over 20 years
CO_2 emission factor: 56g/kWh (FR 2024)

5. Net-Zero enablers

End of life

Nexans also helps reduce your overall carbon footprint through cable recycling.

Cable recycling service provided by cable experts

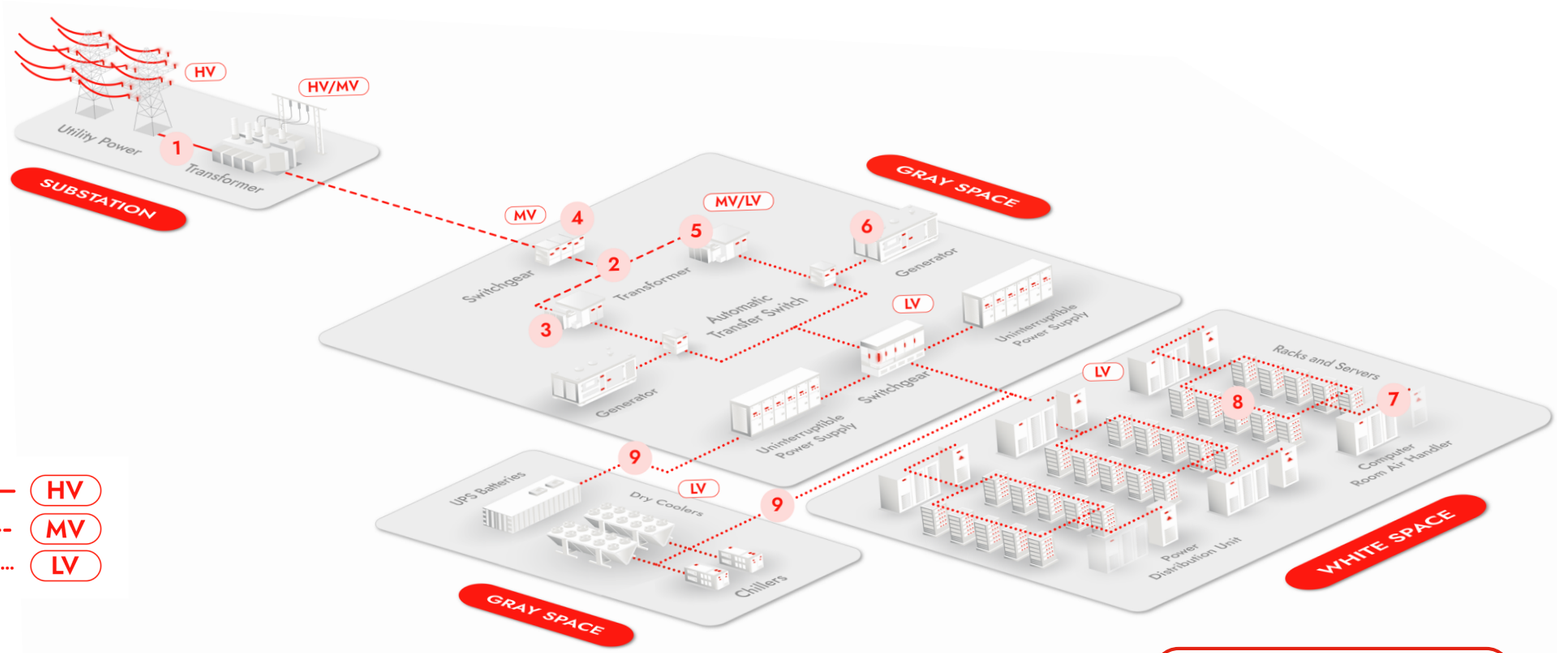
CableLoop for Enterprise is a turnkey scrap management service designed for enterprises. In a context of high tension around the extraction of raw materials such as copper, Nexans buys used cables and transforms them into valuable resources, infinitely reusable, for the cable industry, to ultimately reduce the CO2 emissions related to the production and use of cables.

- Turnkey service, from collection to recycling.
- Simplified management, through a dedicated web portal.
- Tailored logistics, including containers and transport.
- Full traceability of physical flows, from on-site collection to recycling.
- Transparent financial returns, and buyback at a fair price.
- A 100% controlled recycling process through our European center RecyCâbles a joint venture between Nexans and Suez.
- Active contribution to a sustainable ecosystem, via recycled materials reintegration into Nexans low carbon cables.
- **25%** recycled copper in Nexans cables globally by 2028
- **€90M** invested to develop state-of-the-art refining process allowing the incorporation of 100% recycled content in new cables



6. Cables and accessories

6 Cables & accessories catalog



HIGH VOLTAGE



1 HIGH VOLTAGE CABLE

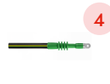
MEDIUM VOLTAGE



2 LOW FIRE HAZARD *MEDIUM VOLTAGE CABLE*



3 PRE- ASSEMBLED POWER CABLE



4 MV TERMINATIONS



5 SEPARABLE MV CONNECTOR

LOW VOLTAGE

6 HIGH TEMPERATURE FLEXIBLE SILICONE CABLE

7 FIRE RESISTANT CABLE *LOW VOLTAGE CABLE*

8 LOW FIRE HAZARD FLEXIBLE RUBBER *LOW VOLTAGE CABLE*



9 LOW FIRE HAZARD *LOW VOLTAGE CABLE*

Main MV cables families

MV cables for outdoor

PRODUCT RANGES (VOLTAGE LEVEL)	COMMENTS	AVAILABLE SECTIONS	CONDUCTOR CLASS	FIRE BEHAVIOUR (EUROCLASS)	INSULATION MATERIAL	STANDARD
N2XS(FL)2Y (12/20kV)	Available from 3,6/6,0kV till 19/33kV	95-630 mm²	Standard Class 2	Fca	XLPE insulation	IEC60228 IEC60502-2
FR-N20XA8E-R (12/20kV)	Available with Al conductor, and with various voltage levels till 18/30kV	95-630 mm²	Standard Class 2	Eca	XLPE insulation	IEC60228 IEC60502-2

MV cables for indoor (enhanced fire reaction)

PRODUCT RANGES (VOLTAGE LEVEL)	COMMENTS	AVAILABLE SECTIONS	CONDUCTOR CLASS	FIRE BEHAVIOUR (EUROCLASS)	INSULATION MATERIAL	STANDARD
N2XS(FL)H (12/20kV)	Available with 3,6/6,0kV till 19/33kV	95-630 mm²	Standard Class 2	B2ca-s1,d1,a1	XLPE insulation	IEC60228 IEC60502-2
XDALT (12/20kV)	-	95-630 mm²	Standard Class 2	B2ca-s1,d1,a1	XLPE insulation	HD620 IEC 60502-2
FR-N20XA8Z-R (12/20kV)	Available with Al conductor, and with various voltage levels till 18/30kV	95-630 mm²	Standard Class 2	Cca-s1,d2,a1	XLPE insulation	IEC60228 IEC60502-2 XPC 33-227

Main LV cables families

LV cables with enhanced fire reaction

PRODUCT RANGES (VOLTAGE LEVEL)	COMMENTS	AVAILABLE SECTIONS	CONDUCTOR CLASS	FIRE BEHAVIOUR (EUROCLASS)	INSULATION MATERIAL	STANDARD
N2XH (0,6/1,0kV)	Available in class 2 Flex if required	10-1000 mm²	Highly flexible Class 5	B2ca-s1,d1,a1	XLPE insulation	IEC60228 IEC60502-1
RZ1K (0,6/1,0kV)	-	25-630 mm²	Highly flexible Class 5	Cca-s1,d1,a1	XLPE insulation	IEC60228 IEC60502-1
H07ZZ-F (450/750V)	Available from 35 till 70 mm² as Cca-s1 a,d2,a1	95-630 mm²	Highly flexible Class 5	B2ca-s1,d2,a1	Rubber insulation	IEC60228 EN 50525-3-21
Siwo Kul (1,1/1,5kV)	Available in MV (12/20kV)	10-300 mm²	Highly flexible Class 5 tinned Cu	Operating temperature 180°C	Silicone insulation	IEC60228 CSA C22.2 UL 758

LV cables with fire resistance

PRODUCT RANGES (VOLTAGE LEVEL)	COMMENTS	AVAILABLE SECTIONS	CONDUCTOR CLASS	FIRE BEHAVIOUR (EUROCLASS)	INSULATION MATERIAL	STANDARD
NX300 (0,6/1,0kV)	Single-core	1,5-1000 mm²	Stranded Class 2	180 minutes @950°C	XLPE insulation	IEC60228 IEC60502-1
NX300 (0,6/1,0kV)	Multi-core	2x1,5-4x400 mm²	Stranded Class 2	180 minutes @950°C	XLPE insulation	IEC60228 IEC60502-1
FTG18(0)M16 (0,6/1,0kV)	Available from 35 till 70 mm² as Cca-s1 a,d2,a1	10-630 mm² (single-core)	Highly flexible Class 5	120 minutes @630°C	Rubber insulation	IEC60228 CEI 20-45

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 525 kV solutions, mastering the whole value chain to ensure safe, performing and sustainable energy transportation.

Nexans HT-XLPE

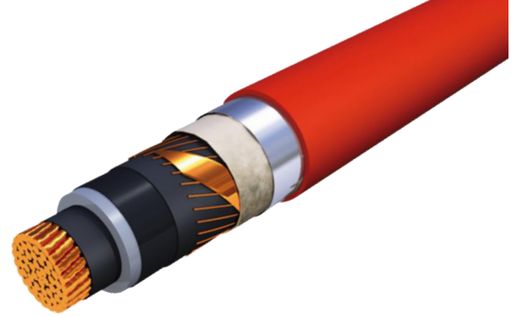
Specific functionalities:

- 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
- 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*.

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



Medium Voltage



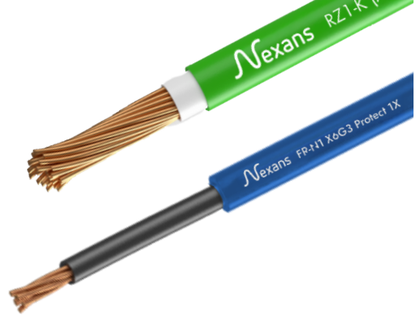
MV cable range

PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	INSULATION	LOW CAR-BON*	STANDARD
Cu class 2 Standard								
Nexans EXeCWB	Standard	95-1000 mm²	Cu - Class 2	Fca	easy strip	XLPE	-	NBN HD 620 partie 10 section B
Nexans EXeCeWB		95-1000 mm²	Cu - Class 2	Fca	-	XLPE	-	NBN HD 620 partie 10 section B
Nexans XKDT		50 - 630mm²	Cu - Class 2	Fca	-	XLPE	-	HD 620
Nexans XDALT (6)		50 - 630mm²	Cu - Class 2	Fca	Waterproof	XLPE	-	HD 620
Nexans FR-N30XA8E-R (8) Nexans FR-N20XA8E-R (8)		50-630 mm²	Cu - Class 2	Eca	-	XLPE	X	NF C 33-226
Cu class 2 Fire Retardant								
Reka HXCMK-HF D 24 kV 1 core	Fire retardant	35-630 mm²	Cu - Class 2	Dca-s2,d2,a2	-	XLPE	-	SFS 7518 /HD 622 4B rev - XLPE
2XS(FL)H 20kV or 33kV		50 - 630 mm²	Cu - Class 2	Dca-s1,d2,a1	-	XLPE	-	IEC 60502-2
Nexans EXeCeGB-F2 8,7-15kV		95-630 mm²	Cu - Class 2	Cca-s1,d2,a1	-	XLPE	-	NBN HD 620 partie 10 section B
Nexans FR-N20XA8Z-R Nexans FR-N30XA8Z-R		50-630 mm²	Cu - Class 2	Cca-s1,d2,a1	-	XLPE	X	XPC 33-227
LTC - Slimpower Plus HT 105 LTC - RG26H1M16-12/20 kV LTC - RG26H1M16-18/30 kV		25-630 mm² (1 conductor, 12/20 kV) 35-630 mm² (1 conductor, 18/30 kV) 25-400 mm² (3 conductor, 12/20 kV) 35-630 mm² (3 conductor, 18/30 kV)	Cu - Class 2	Cca-s1b,d1,a1	-	Rubber	-	ref. to IEC 60502-2 CEI UNEL 35334 CEI 20-13 HD 620 Part 9 Section E
LTC - RG16H1M20 - 12/20 kV		25-630 mm² (1 conductor)	Cu - Class 2	B2ca-s1a,d1,a1	-	Rubber	-	CEI 20-13 IEC 60502-2
Nexans N2XS(F)H 10kV or 20kV Nexans N2XS(FL)H		95 - 800 mm²	Cu - Class 2	B2ca-s1,d1,a1	-	XLPE	-	DIN VDE 0276-part 620 IEC 60502-2
Nexans XDALT		95 - 630mm²	Cu - Class 2	B2ca-s1,d1,a1	-	XLPE	-	HD 620
Cu class 5 Fire Retardant								
FG16H1M18 12-20kV	Fire retardant	500mm²	Cu - Class 5	B2ca-s1a,d1,a1	Flexible	Rubber	-	CEI 20-13

* Minimal reduction of CO^2 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
(4) Flexible cables with elastomer covers, resistant, indoor & outdoor, including with oils and chemicals
(5) Flexible monoconductor cables with elastomer covers, resistant, indoor & outdoor, inluding with oils and chemicals;
(6) Not tested according AD8 but according IEC 620
(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
(8) HTA cables EDR and non EDR type

PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	INSULATION	LOW CAR-BON*	STANDARD
Al Class 2 Standard								
Nexans YSLF 24 kV (1 core) Nexans AMLJ 12-24 kV (1 core)	Standard	50-240 mm² 50-240 mm²	Al - Class 2 Al - Class 2	N/A	easy strip	XLPE	-	HD 620 12K - TPI SS 424 14 20 - TPI
Nexans AMCL 12-24 kV (3 core)		50 - 300 mm²	Al - Class 2	N/A	-	XLPE	-	SS 424 14 20 - TPI
Reka AXCLIGHT TT (3 core)		50-300 mm²	Al - Class 2	N/A	-	XLPE	X	SS 424 14 16/HD 620 10M - XLPE
Nexans EAXeCWB		95-1000 mm²	Al - Class 2	Fca	-	XLPE	-	NBN HD 620 partie 10 section B
Nexans EAXeCeWB		95-1000 mm²	Al - Class 2	Fca	-	XLPE	-	NBN HD 620 partie 10 section B
Nexans XKDT		50 - 630mm²	Al - Class 2	Fca	-	XLPE	-	HD 620
Nexans TSLF 24 kV (1 core) Nexans TSLF 36 kV (1 core) Nexans AXLJ 12-36 kV (1 core)		50-1200 mm² 95-800 mm² 95-800 mm²	Al - Class 2 Al - Class 2 Al - Class 2	Fca Fca N/A	-	XLPE	-	HD 620 10K - XLPE HD 620 10K - XLPE SS 424 14 16/HD 620 10M - XLPE
Nexans ARP1H5E 12/20kV		95-240 mm²	Al - Class 2	Fca	-	HPTE	-	GSC001
Nexans ARE4H5EE(X) 12/20kV		70-630 mm²	Al - Class 2	Fca	-	XLPE	-	CEI 2068; HD 620; IEC 605022
Nexans ARE4H5EE(X) 18/30kV		70-630 mm²	Al - Class 2	Fca	-	XLPE	X	CEI 2068; HD 620; IEC 605022
A2XS(F)2Y 20kV or 33 kV		50 - 1000 mm²	Al - Class 2	Eca	-	XLPE	-	IEC 60502-2 & BS 7870-4.10
Nexans FR-N30XA8E-AR (8) Nexans FR-N20XA8E-AR (8)		50-630 mm²	Al - Class 2	Eca	-	XLPE	X	NF C 33-226
Al Class 2 Fire Retardant								
Reka AHXAMK-W HF D 20 kV (3 core)	Fire retardant	185-300 mm²	Al - Class 2	Dca-s2,d2,a2	-	XLPE	-	SFS 7518 /HD 622 4B rev - XLPE
AXQJ 12-36 kV (3 core) AXQJ-F D / AHXCMK-HF D 24 kV (3 core)		50-300 mm² 50-300 mm²	Al - Class 2	Dca-s2,d2,a2	-	XLPE	-	SS 424 14 16 HD 620 10M - XLPE SFS 7518 /HD 622 4B rev - XLPE
AXQJ 12-36 kV (1 core) TSLI 24 kV (1 core) AXQJ-F TT D/AHXCAMK-HF D 24 kV (1 core)		50-630 mm² 50-630 mm² 50-800 mm²	Al - Class 2	Dca-s2,d2,a2	-	XLPE	-	SS 424 14 16 - XLPE HD 620 10K - XLPE SFS 7518 /HD 622 4B rev - XLPE
A2XS(FL)H 20kV or 33 kV		50 - 1000 mm²	Al - Class 2	Dca-s1,d2,a1	-	XLPE	-	IEC 60502-2
Nexans EAXeCeGB-F2 8,7-15kV		95-630 mm²	Al - Class 2	Cca-s1,d2,a1	-	XLPE	-	NBN HD 620 partie 10 section B
Nexans FR-N20XA8Z-AR Nexans FR-N30XA8Z-AR		50-630 mm²	Al - Class 2	Cca-s1,d2,a1	-	XLPE	X	XPC 33-227
Nexans NA2XS(FL)H 20kV or 33 kV Nexans NA2XS(F)H		95 - 630 mm²	Al - Class 2	B2ca-s1,d1,a1	-	XLPE	-	DIN VDE 0276-part 620 IEC 60502-2

Low Voltage



LV cable range

PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METALX	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	INSULATION	LOW CAR-BON*	STANDARD
Cu Class 1 Fire Retardant								
Nexans EQLQ Easy 450/750V	Fire retardant	1,5-2,5 mm²	Cu - Class 1	Dca-s2,d2,a2	easy strip	LFH	X	SS 424 02 19-6
EXQJ (multi) XCMK-HF D 1 kV (multi)		2,5-10 mm² 1,5-6 mm²	Cu - Class 1	Dca-s2,d2,a2	-	XLPE	-	HD603 / SS 424 14 18 SFS 5546
Reka XCMK-HF C 1 kV (multi)		1,5-6 mm²	Cu - Class 1	Cca-s1,d1,a1	-	XLPE	-	SFS 5546
Nexans H07Z- U 450/750V		1,5-500 mm²	Cu - Class 1	B2ca-s1,d1,a1	-	XL LFH	-	BS EN IEC 50525-3-41
Cu Class 2 Fire Retardant								
MK-HF D 450/750V (single) IX 450/750V (single)	Fire retardant	10-500 mm² 10-120 mm²	Cu - Class 2	Dca-s2,d2,a2	-	XLPE	-	HD 620
Nexans RXQ 1kV (single) Nexans TXXI CU 1kV (single)		95-400 mm²	Cu - Class 2	Dca-s2,d2,a2	-	XLPE	X	HD 620
FXQJ EMC Easy 1kV (multi) IFSI EMC CU Easy 1 kV (multi) XCMK-HF D 1 kV (multi)		16-300 mm² 16-300 mm² 10-300 mm²	Cu - Class 2	Dca-s2,d2,a2	Easy strip + Flexible	XLPE	-	HD 620
Nexans N2XH 0,6/1kv single or multicores		1,5-800 mm²	Cu - Class 2	Dca-s1,d2,a1	X (3) + NXTAG (11)	XLPE	-	IEC 60502-2
Nexans XGB or Ultimo		1,5-300 mm²	Cu - Class 2	Cca-s1,d2,a1	-	XLPE	-	IEC 60502-2
Nexans FR-N1X6G3-U/R Protect (1) (2)		1,5-630 mm²	Cu - Class 2	Cca-s1,d2,a1	-	XLPE	-	IEC 60502-2 & BS 7870-4.10
LTC - FE05C-0,6/1 kV		1x 10 to 300 mm² 2x 1,5 to 25 mm² 3x 1,5 to 10 mm² 4x 1,5 to 10 mm² 5x 1,5 to 10 mm²	Cu - Class 2	Cca-s1,d1,a1	-	XLPE	-	DIN VDE 0276-part 620 IEC 60502-2
Nexans FE05-C		1.5 - 630mm²	Cu - Class 2	Cca-s1,d1,a1	-	XLPE	-	DIN VDE 0276-part 620 IEC 60502-2
Reka XCMK-HF C 1 kV (multi)		10-300 mm²	Cu - Class 2	Cca-s1,d2,a1	-	XLPE	X	XPC 33-227
Reka MK-HF C (single) 450/750V		4-630 mm²	Cu - Class 2	Cca-s1,d1,a1	-	XLPE	-	DIN VDE 0276-part 620 IEC 60502-2
Nexans H07Z- R 450/750V		1,5-500 mm²	Cu - Class 2	Cca-s1,d1,a1	-	XLPE	-	XPC 33-227
Nexans FE05-B2		1.5 - 630mm²	Cu - Class 2	B2ca-s1a,d2,a1	-	XLPE	-	DIN VDE 0276-part 620 IEC 60502-2
Nexans N2XH 0,6/1kv single or multicores		1,5-800 mm²	Cu - Class 2	B2ca-s1,d1,a1	-	XLPE	-	XPC 33-227
Nexans CU/XLPE/SWA/LSZH 0,6/1 kV single or multi core		1,5-800 mm²	Cu - Class 2	B2ca-s1,d1,a1	Easystrip Flexibility 5x Bending Radius	XLPE	-	DIN VDE 0276-part 620 IEC 60502-2
Nexans YMz1K		1,5-300 mm²	Cu - Class 2	B2ca-s1,d1,a1	-	XLPE	X	XPC 33-227
Nexans CU/XLPE/SWA/LSZH 0,6/1 kV single or multi core		1,5-800 mm²	Cu - Class 2	B2ca-s1,d1,a1	-	XLPE	-	DIN VDE 0276-part 620 IEC 60502-2

* Minimal reduction of CO^2 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; (5) Flexible monoconductor cables with elastomer covers, resistant, indoor & outdoor, inluding with oils and chemicals; (8) HTA cables EDR and non EDR type (6) Not tested according AD8 but according IEC 620; (11) NXTAG Only for 1.5 and 2.5 mm²

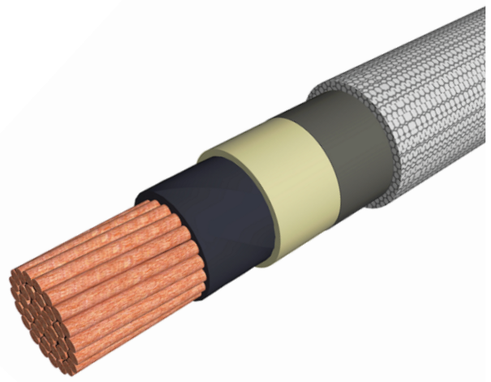
PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	INSULATION	LOW CAR-BON*	STANDARD
Cu Class 2 Fire Resistant								
Nexans NX100 450/750 V single core	Fire resistant	1,5-300 mm²	Cu - Class 2	Fire resistance 120', equivalent to Cca-s1,d2,a2	easy strip	LFH	-	BS8592
Nexans NX400 0.6/1 kV single core		1,5-400 mm²	Cu - Class 2	Fire resistance 120', equivalent to Cca-s1,d2,a2	-	XLPE	-	BS7846
Nexans NX400 0.6/1 kV multi core		1,5-400 mm²	Cu - Class 2	Fire resistance 120', equivalent to Cca-s1,d2,a2	-	XLPE	-	BS7846
Nexans NX600 0.6/1 kV multi core		4-400 mm²	Cu - Class 2	Fire resistance 120', equivalent to Cca-s1,d2,a2	-	XLPE	X	BS7846; BS8519 cat. 3
Nexans NX300 0.6/1 kV single core		1,5-630 mm²	Cu - Class 2	Fire resistance 180', equivalent to Cca-s1,d2,a2	-	XLPE	-	BS6387 CWZ
Nexans NX300 0.6/1 kV multi core		1,5-400 mm²	Cu - Class 2	Fire resistance 180', equivalent to Cca-s1,d2,a2	-	XLPE	-	BS6387 CWZ
Cu Class 5 Fire Retardant								
MKEM-HF D 450/750V (single) RQ 450/750V (single) RQ 450/750V (single)	Fire retardant	1,5-120 mm² 6-240 mm² 1,5-300 mm²	Cu - Class 5	Dca-s2,d2,a2	Flexible	XLPE	-	EN 50525-3-31 EN 50525-3-31 EN 50525-3-31
LTC - FG17- 450/750 V		1,5-300 mm²	Cu - Class 5	Cca-s1b,d1,a1	Flexible	Rubber	X	CEI UNEL 35310 CEI 20-38
LTC - FG16(O)M16-0,6/1 kV		1x 10 to 630 mm² 2x1,5 to 240 mm² 3x1,5 to 300 mm² 4x1,5 to 25 mm² 5x1,5 to 50 mm² 3x 35 to 300 + 1x 25 to 150 mm² 3x70+1x35+1G35 mm² 3x120+1x70+1G70 mm²	Cu - Class 5	Cca-s1b,d1,a1	Flexible	Rubber	-	CEI UNEL 35324
LTC - H07ZZ-F		1x 10 to 630 mm² 2x 1 to 25 mm² 3x 1 to 185 mm² 4x 1 to 300 mm² 5x 1,5 to 240 mm²	Cu - Class 5	Cca-s1b,d1,a1	Flexible	Rubber	-	EN 50525-3-21
Nexans H07ZZ-F Protect (5)		35-50-70 mm² single core	Cu - Class 5	Cca-s1a,d2,a1	Flexible	Rubber	-	NF EN 50525-3-21
Reka MKEM-HF C 450/750V (single)		10-150 mm²	Cu - Class 5	Cca-s1,d1,a1	Flexible	XLPE	-	EN 50525-3-31
RCT RZ1-K		1,5-300 mm²	Cu - Class 5	Cca-s1,d1,a1	Flexible	XLPE	-	UNE 21123-4
Nexans RZ1-K		25-630 mm²	Cu - Class 5	Cca-s1,d1,a1	Flexible	XLPE	-	UNE 21123
Nexans FE05-C Flex		10 - 240mm²	Cu - Class 5	Cca-s1,d1,a1	AD8	XLPE	X	SEV TP 20B/3C-d
Nexans RZ1-K		25-630 mm²	Cu - Class 5	B2ca-s1b,d1,a1	Flexible	XLPE	-	UNE 21123
Nexans H07ZZ-F Protect (5)		95-630 mm² single core	Cu - Class 5	B2ca-s1a,d2,a1	Flexible	Rubber	-	NF EN 50525-3-21
LTC - FG18(O)M16-0,6/1 kV		1x 10 to 630 mm² 2x 1,5 to 70 mm² 3x 1,5 to 120 mm² 4x 1,5 to 120 mm² 5x 1,5 to 50 mm² 3x 35 to 70+1x 25 to 35 mm²	Cu - Class 5	B2ca-s1a,d1,a1	Flexible	Rubber	-	CEI UNEL 35312
Nexans H07Z-K 450/750V		1,5-500 mm²	Cu - Class 5	B2ca-s1,d1,a1	Flexible	XL LFH	-	BS EN IEC 50525-3-41
Nexans N2XH 0,6/1kv single or multicores		1,5-800 mm²	Cu - Class 5	B2ca-s1,d1,a1	Easystrip Flexibility 5x Bending Radius	XLPE	-	DIN VDE 0276-604 and IEC 60502-1
Nexans YMz1K		1,5-300 mm²	Cu - Class 5	B2ca-s1,d1,a1	Flexible	XLPE	X	HD 604 Part 5/sect. C / KEMA 42 C-1-5-C
Cu Class 5 Fire Resistant								
LTC - FTG18(O)M16-0,6/1 kV	Fire resistant	1x 6 to 630 mm² 2x 1,5 to 70 mm² 3x 1,5 to 120 mm² 4x 1,5 to 25 mm² 5x1,5 to 120 mm² 3x 35 to 95+1x 25 to 50 mm²	Cu - Class 5	B2ca-s1a,d1,a1	Flexible	Rubber	-	CEI 20-45 EN 50200 CEI EN 60331-1
Alu Class 2 Fire Retardant								
Nexans AXQ 1kV (single) Nexans TXXI AL 1kV (single)	Fire retardant	95-630 mm²	Al - Class 2	Dca-s2,d2,a2	-	XLPE	X	IEC 60502-1 NEK 536 in applicable parts
AXQJ Easy 1kV (multi) IFSI AL Easy 1 kV (multi) AXCMK-HF D 1 kV(multi)		25 -300 mm² 25 -300 mm² 35 -300 mm²	Al - Class 2	Dca-s2,d2,a2	Easy strip + Flexible	XLPE	-	HD 603.5AB / SS 424 14 18 HD 604 5D SFS 5546
LTC - ARG16M16-0,6/1 kV		16-300 mm²	Al - Class 2	Cca-s1b,d1,a1	-	Rubber	-	CEI UNEL 35396 CEI 20-13
Nexans FR-N1X6G3- AR Protect		1,5-630 mm²	Al - Class 2	Cca-s1,d2,a1	-	XLPE	-	XP C32-325
Reka AXCMK-HF C 1 kV (multi)		35-300 mm²	Al - Class 2	Cca-s1,d1,a1	-	XLPE	-	SFS 5546

SIWO-KUL

Designed for demanding DC power applications in data centers, **Nexans SIWO-KUL® cables** combine exceptional flexibility with high-temperature resistance, enabling safe and reliable battery interconnections even in confined spaces.

Specific functionalities:

- Very high flexibility: facilitates installation in confined spaces
- Reduced bending radius: ideal for short connections between batteries
- Excellent heat resistance (up to approximately 180°C)
- Good resistance to harsh environments



SIWO-KUL cables

MV

PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	INSULATION	LOW CAR-BON*	STANDARD
Nexans SIWO-KUL®	Fire resistant	10-300mm²	Cu-class5	B2ca-s1,d1, a1	Flexible, High temperature (180°C) Up to 13.8kV/15kV	silicone rubber	-	UL 758 CSA C22.2 IEC 60228

LV

PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	INSULATION	LOW CAR-BON*	STANDARD
Nexans SIWO-KUL® BESS	Fire resistant	2,5-400mm²	Cu-class5	B2ca-s1,d1a,1	Flexible, High temperature (150°C) 1kVac / 1.5kVdc	silicone rubber	-	UL 758 CSA C22.2 IEC 60228



High-temperature superconducting cables



HV cables range

PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	INSULATION	LOW CARBON*	STANDARD
Nexans HTS 3 in 1 AC Mono/ Three-Phase HV Cable 69kV/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 63075-2019
Nexans HTS single core AC Mono/Three-Phase HV Cable 135kV/225kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA						IEC 63075-2019

MV cables range

PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	INSULATION	LOW CARBON*	STANDARD
Nexans HTS Concentric AC Mono/Three-Phase MV Cable 10kV/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: 500–3000 mm (depending on outer diameter)		Low CO_2 footprint; quasi-zero electrical losses	IEC 63075-2019 compliant; UL certification letter available confirming compliance with UL/NFPA NEC requirements during the interim period (standard in development, expected 2029).
Nexans HTS 3 in 1 AC Mono/ Three-Phase MV Cable 10kV/ 66 kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA						

LV cables range

PRODUCT RANGES	TYPE	AVAILABLE SECTIONS	CONDUCTOR METAL	FIRE BEHAVIOUR (EUROCLASS)	ERGONOMICS	INSULATION	LOW CARBON*	STANDARD
Nexans HTS concentric DC bipolar/unipolar LV Cable 0.4/1.5 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 63075-2019 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 0.4/1.5 kV	Standard	Outer diameter: 100 mm to 250 mm Current capacity: 1 kA to 4 kA						
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						
Nexans HTS 3 in 1 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						

Power cables & accessories portfolio

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



EUROMOLD

Separable Connectors, Surge Arresters & Bushings

Connect and protect the MV network

Nexans EUROMOLD® delivers a complete range of medium-voltage separable connectors, surge arresters and bushings designed to ensure reliable power distribution throughout data center electrical networks. From utility connection points to substations, transformers and switchgear, EUROMOLD® solutions help maintain the continuity and security of critical operations.

EUROMOLD® surge arresters protect critical equipment such as switchgear, transformers, cables and accessories against lightning and switching overvoltages.

Their compact, screened design provides a maintenance-free solution that is quick and easy to install, with a complete range covering applications up to 42 kV.

Key benefits

Reliable & tested - Compact design - Easy installation - Connection & protection - Complete MV system

PRODUCT FAMILY	INTERFACE / TECHOLOGY	PRODUCT RANGES	AVAILABLE SECTIONS	CONDUCTOR METAL	VOLTAGE KV	NORMS
Separable connnectors	A	Elbow connector 200LR/G	25-150 mm² for 12 kV 35-150 mm² for 24 kV	Cu - Al	12-24	CENELEC HD 629.1 CENELEC EN 50180 CENELEC EN 50181
	A	Straight connector 200SR/G	25-150 mm² for 12 kV 35-150 mm² for 24 kV	Cu - Al	12-24	
	C	Compact Tee connector 480TB/G	25-300 mm² for 12 kV 35-300 mm² for 24 kV 50-300 mm² for 36 kV 50-240 mm² for 42 kV	Cu - Al	12-24	
	C	Compact Tee connector 484TB/G	240-630 mm² from 12 kV up to 42 kV	Cu - Al	12-24	
	C	Compact Tee connector 489TB/G	800-1200 mm² from 12 kV up to 42 kV	Cu - Al	12-24	
	E	Tee connector 784TB/G	50-630 mm² for 12 kV 35-630 mm² for 24 kV 35-630 mm² for 36 kV 35-630 mm² for 42 kV	Cu - Al	12-24	
Surge arresters	A	Surge arrester 156SA	-	-	12-24	CENELEC HD 629.1 IEC 60099-4
	C	Surge arrester 400PB-10SA	-	-	12-24	
	C	Surge arrester 800SA	-	-	12-24	
	E	Surge arrester 800SA-58	-	-	12-24	
Bushings	-	-	-	Cu-Al	12-72,5	IEC 60137 CENELEC EN 50180 CENELEC EN 50181

TERMINATIONS — Cold Shrink, Slip-on & Heat Shrink

The right termination for every configuration

Nexans offers a complete range of indoor and outdoor terminations based on cold shrink, slip-on and heat-shrink technologies, covering a wide range of cable cross-sections and installation configurations.

Designed to support the complex power architectures of modern data centers, Nexans terminations combine compact design, installation flexibility and proven electrical performance.

Whether deployed in substations, transformer connections, switchgear assemblies or backup power systems, they ensure secure and durable connections throughout the facility lifecycle.

Key benefits

Multiple technologies - Indoor & outdoor - Wide application range - Easy installation - Compact & reliable

PRODUCT FAMILY	INTERFACE / TECHOLOGY	PRODUCT RANGES	AVAILABLE SECTIONS	CONDUCTOR METAL	VOLTAGE KV	NORMS
Terminations	Cold-shrink	Indoor termination ITK	50-1000 mm² for 12 kV 25-800 mm² for 24 kV	Cu - Al	12-24	CENELEC HD 629.1 IEC 60502-4
	Cold-shrink	Outdoor termination OTK	50-1000 mm² for 12 kV 50-630 mm² for 24 kV	Cu - Al	12-24	
	Heat-shrink	-	12-1200	Cu - Al	12-52	
	Slip-on	Indoor slip-on termination AIS	150-300 mm² for 12 kV 70-300 mm² for 24 kV	Cu - Al	12-24	
	Slip-on	Outdoor slip-on termination AFS	70-300 mm² for 12 kV 25-300 mm² for 24 kV	Cu - Al	12-24	
	Slip-on	Indoor slip-on termination AIN	25-1200 mm² for 12 kV 35-1200 mm² for 24 kV 50-1200 mm² for 36 kV 150-1200 mm² for 42 kV	Cu - Al	12-42	
	Slip-on	Outdoor slip-on termination AFN	25-1200 mm² for 12 kV 35-1200 mm² for 24 kV 50-1200 mm² for 36 kV 150-1200 mm² for 42 kV 95-2000 mm² for 52 kV & for 72 kV	Cu-Al	12-72,5	

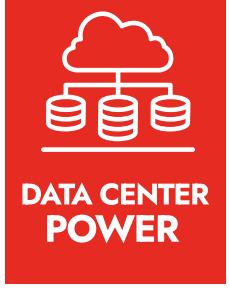
Other accessories

PRODUCT FAMILY	INTERFACE / TECHOLOGY	PRODUCT RANGES	AVAILABLE SECTIONS	CONDUCTOR METAL	VOLTAGE KV	NORMS
Smart Accessories	-	-	16-1200	Cu - Al	12-36	CENELEC HD 629.1
Ferrules and lugs - Mechanical connectors	-	-	16-1200	Cu - Al	LV - HV	VDE 0220 IEC 61238-1 UL 486A-486B
Ferrules and lugs - Cable lugs	-	-	16-1200	Cu - Al	LV - HV	VDE 0220 IEC 61238-1 UL 486A-486B

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

Notes

Notes



Contact us

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

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Nexans
ELECTRIFY THE FUTURE