



Product Range
Factories
Subsidiaries

Energy Networks



Location: Hannover

Low voltage cables

Energy distribution cables with aluminium conductor and XLPE or PVC insulation, PE, PVC or halogen free flame retardant sheath, **directly layable in ground.**

Medium voltage cables

Underground power cables for distribution with aluminium or copper conductor and XLPE or EPR insulation, screen and on request longitudinal watertight screen with fibre optics and polymer laminated aluminium foil. PE, PVC or halogen free flame retardant sheath, **directly layable in ground.**

High voltage cables

Underground power cables for transmission up to 400 kV with aluminium or copper conductor and XLPE insulation, longitudinal watertight screen and polymer laminated PE, PVC or halogen free flame retardant sheath, **directly layable in ground.** On request with watertight conductor, metallic sheath or integrated fibre optics.

Special cables

Submarine cables for medium and high voltage circuits
Pipe cables, XLPE insulated, substituting paper insulated pipe cables
Site cables for temporary use in high voltage systems
Electro filter cables ELCUFILT 111 kV
Mining and shaft cables
Halogen-free fire retardant cables
Armoured cables
Special cables to national or international standards and customer specifications

Overhead lines for high voltage and extra high voltage

with conventional and high temperature conductors

Accessories

Terminations, joints and earthing equipment for high voltage systems

Design, laying, installation and testing of cable systems as well as supervision

Complete cable systems for off-shore and onshore wind farms

System solutions and services for distribution and transmission networks

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Industry



Location: Mönchengladbach

Rolling stock

Power cables 1 kV - 45 kV, control cables, coax cables, BUS cables, harnesses

Transrapid

Main propulsion component:
Motor winding cable, system components

Military cables

Navy installation cables (RHEYHALON®), navy coaxial cables, special harnesses, cables for military vehicles

Pumps

Submersible pump cables (round and flat design) for use in drinking or sewage water

Shipboard cables

Communication and control cables, BUS cables, (Power cables, medium voltage cables)

Control cables

PVC insulated and halogen-free control cables with/without copper screen or steel wire armed in acc. to plant specification with VDE-Reg.-No., harmonized types and special constructions

Motorpower supply cables

for frequency converter controlled drives

Cables for renewable energies

Cables for wind turbines and photovoltaic applications

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Location: Mönchengladbach

Mining

Screened heavy duty rubber cables 1 kV and trailing cables (with or without optical fibre)
1 - 35 kV for open cast and underground mines, tunnel constructions and grit pits

Crane cables

Rubber reeling cables, rubber pendant cables, rubber and PVC flat cables for handling, storage and elevator applications

Special cables

Special cables for medical applications, oil & gas, nuclear power plants and others

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Industry



Location: Nürnberg

Industry automation

MOTIONLINE BASIC, MOTIONLINE ADVANCED, MOTIONLINE PREMIUM
MOTIONLINE™ facilitates the classification of cables for industrial automation in terms of required chain capability categories.

Robot cables, Chain cables, BUS cables (profibus, interbus, AS-interface bus, CAN bus, industrial ethernet bus, POF bus, hybrid bus, Profinet), Sensor cables, Control cables

Automotive

Wires for engine compartment (FLR2X, ...), Sensor cables for ABS or airbags, Customized Cables

Mobile Communication

High frequency (PE, Foam-PE, Teflon, ELCURIGID), RET BUS cables, AISG

High temperature applications

(PTFE, FEP, ETFE, fluoropolymers)
Control cables, wire wrap,
Solid hook-up wires, stranded hook-up wires,
Diesel engine cables (for ships)

Rolling stock

BUS cables (Cat5, Ethernet, MVB, WTB, CAN, UIC etc.)
Control cables (single core and multicore, screened and unscreened, with circuit integrity a.o. acc. to EN 50306),
Coaxial cables, jumper cables

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Location: Nürnberg

ALSECURE RHEYHALON

Security cables with fire integrity
JE-H(ST) H E30, JE-H(ST)H E30 - E90
(regarding to the lying)

Security cables
Installation cables without circuit integrity
N2XH E0, N2XCH E0
Installation cables with circuit integrity
N2XH E30/E60/E90,
N2XCH E30/E60/E90

Fire detection system LIST®

Heating cables

Resistance heating cables, parallel heating cables and self limited heating cables

Compounding

HFFR-compounding, PVC-compound

Renewable Energy

Cross-linked photovoltaic cables,
e-mobility applications

Cordsets

Single core cables (harmonised PVC types, halogen free types), multi core types (UL/ CSA-types halogen free PVC types)

Customized special cables

Nexans Research Centre

Motion Application Centre

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Telecom Networks



Location: Mönchengladbach

Copper cables

Symmetric plastic- and paper insulated telecom cables
Coaxial cables
Differential protection cables
Signalling and control cables
Balise cables
Installation cables
Patch cords
Railway track cables
Universal cables

Fiber optic cables

In- and outdoor cables with single mode or multi mode fibres
Self-supporting aerial cables
Preconnectorized cords
Fiber optic and copper hybrid cables
Sea and lake cables

Cable accessories

Fiber optic splice cassettes and modules with individual fiber management
Fiber optic splice closures
Fibre optic termination cabinets

Network engineering and services

Turnkey delivery, planning, systems engineering, installation, commissioning, training and maintenance world wide for:

Telecommunication cabling for the long distance and access networks in copper and fiber optic technology

Telecommunication trunk cabling for railways, highways, waterways, power utilities, pipeline enterprises and mining industry

DuoTrack® – The all-in-one system solution for the trunk cabling of regional railway lines

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Industry OEM – Electronic Cables Filotex®



Location: Mönchengladbach

Aerospace Cables

Airbus, Eurocopter, Boeing, Rolls Royce, Tornado, Eurofighter, ESA, according to EN, ASNE, NSA, ABS, BS, BMS, RMS, ESW&RTS, PAN, JN, MIL, VG95218, FX

Rolling Stock Cables Flamex®

In accordance with international standards (NFF, EN, BS, DIN, UIC, ...), low-voltage (EN 50306/NFF 63808) and power cables (EN 50264/NFF 63826 and 63296), high flexible cables (Jumper), coaxcables, databus cables, high-temperature cables (EN 50382/NFF 63827)

High Temperature Cables

Solid and stranded hook-up wires, multiconductor cables, PTFE (banded/extruded) FEP, ETFE, PFA, polyimide, PEEK (with UL)

Automotive Cables

Coax cables (Mil C 17, ...), sensor cables (ABS/ESP, break, wear detector, gear box, oil, airbag), multimedia cables, seat heating

Sensor Cables

Applications: Measurement of pressure, vibration, flow, load, fill level, distance, temperature, etc.

Medical Cables

Invasive cables (catheter/pacemakers), microcables/microcoaxcables, endoscopic cables for CCD- and CMOS-camera applications, cables for ultrasonic applications, general medical cablerange

Geophysical cables

Cables for seismic exploration
Water resistant cables
Geophone Leader cables

Hybrid Cables

Fibre optic cables, power cables, data cables

Special Cables

Development and production after customer specification (Mil, VG, UL, CSA, etc.)

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Cabling Solutions



Location: Mönchengladbach

LAN solutions/LAN systems LAN components and cable

LANmark – Copper cables and systems

Symmetrical, plastic insulated data cables
Single and multiple screens according to ISO/IEC 11801: A1 2010 and IEEE 802.3an 10G BaseT
Cat 5, 6, 6_A, 7 and 7_A
Horizontal cables
Patch cords

LANmark-OF – Fibre optic cables and systems

Outdoor cables with single mode or graded index fibres
Indoor cables with single mode or graded index fibres
Pigtails
Patch cords
OM1, OM2, OM3, OM4

LANmark Connectivity

Modular outlets
Modular patch panels
Snap-in-connectors for modular outlets and patch panels for Cat. 5, 6, 6_A, 7 and 7_A (GG45) and LC, MT-RJ, SC and MPO according to ISO/IEC 11801: 2010

Modular outlets for fibre optic system
Patch panels for fibre optic systems
Fibre optic couplers for SC, SC-Duplex, LC, MT-RJ und MPO-cassettes
MPO F/O cabling system
Quick Mount cabinet

LANsense – Intelligent Infrastructure Management System

Data cables

Cu-Data cables
(Cat 5, Cat 6, Cat 6_A, Cat 7 and Cat7_A)

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Advanced Networking Solutions



Location: Mönchengladbach

Active Systems for Office and Harsh Environments

With more than 25 years of experience in the development and production of optical solutions, the systems from Nexans provide the reliability and the security you expect from your network.

Switch Systems for Harsh Environments

Multiple redundant power supply
DIN rail mounting
Power over Ethernet (PD and PSE)
Security features
SFP or fixed fiber optic interfaces
Web-, SNMP-, Telnet management
Redundancy features / RSTP, MSTP or MRP
MMC Memory Card
Extended operating temperature range (-40 °C ... + 85 °C)
IEC 61850-3 Compliance (EMC)

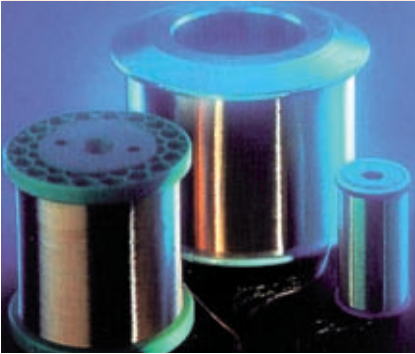
Fields of application include the control of wind turbines, the networking of transformer substations, remote monitoring of power meters (e. g. automatic metering), and security (e. g. access control, video surveillance, etc.).

Switch Systems for Office Environments (FITO)

Installation switch systems for cable ducts or floor boxes
International 45 mm form factor
No tools needed for installation
Connection of up to four users (Gigabit Ethernet, Fast Eth. or Ethernet)
Reduction of cost for central ports up to 75 percent
Multi vendor and protocol-transparent transmission
SFP or fixed fiber optic interfaces
Web-, SNMP-, Telnet management
Memory Card Interface
Power over Ethernet (PoE)
Security features
(User authentication by radius or IEEE802.1x)

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Bare Conductors



Location: Bramsche/ Neunburg vorm Wald

Copper-rod

Manufactured in a "dip-forming" process in Cu-OF1 acc. to EN 1977/Cu-OFE acc. to ASTM B 49
Diameters: 8,0 mm; 9,5 mm: 12,5 mm and 16,0 mm
Oxygen-content: ≤ 5 ppm

TWN = normal quality
TWF = fine wire drawing quality
TWD = rivet quality, optimised especially for cold-forming process
TWH = resistance against hydrogen-embrittlement; Cu-OFE acc. to EN 1977
TWS = silver-alloyed types

Round copper

Wires bare, tinned, silver and nickel plated and nickel plated in the range from 0,015 mm to 7,0 mm (AWG54 - AWG1)

Copper multiwire and strand

Bare, tinned, nickel and silver plated conductors in bunched, concentric and unilay constructions with single wire dimensions 0,05 mm to 0,54 mm (AWG 44 - AWG 24) up to 35 mm² cross-section

Bare, tinned nickel and silver plated multiwires 0,05 mm - 0,54 mm (AWG 44 - AWG 24)

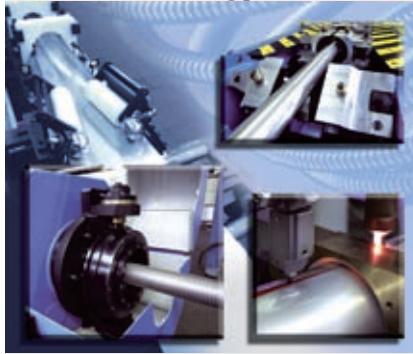
Braiding wire on braiding spools 0,05 mm - 0,20 mm (AWG 44 - AWG 32)

Special products

CCS, CCA and cadmium free alloys

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Production Lines and Technology



Location: Hannover

Special Machinery and Automation

Customized machines and components, integration of special solutions, mechanical und electrical upgrades

Engineering and Service Partner

Project planning and complete operation, prototype manufacturing with 3 laboratory machines, assistance in product and process development

Welding technology

LASER and TIG systems and processes

UNIWEMA® forming and welding Line

Production lines for continuous forming, and TIG/Laser welding of smooth or corrugated metal cable sheaths for optical ground wires (OPGW), radio frequency cables (RF), power, control and instrumentation cables, submarine cables, bonded sheath lines and tubes, micro tubes, multilayer plastic-metal tubes, corrugated flexible metal tubes

Crosswelder

TIG-, laser- and ultrasonic crosswelding for splicing coated and blank metal strips

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CRYOFLEX® Transfer Lines

Completely assembled flexible transfer line systems for the transport of liquefied gases and accessories as

- Phase separator
- Degassing system
- Valve boxes

Flexible, vacuum insulated Special Transfer Lines

- 2-tube system with extremely low heat load
- 4-tube system, concentrically arranged
- 6-tube system, concentrically arranged
- double tube system for LNG
- Cryogenic Envelope for HTS cable systems

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Nexans SuperConductors



Location: Hürth

Systems

- HTS current limiters for medium voltage grids

HTS components for direct system integration

- HTS tubes and rods
- HTS current leads with integrated metal contacts
- CNC machined HTS coils with and without metallic shunt
- Components for resistive and inductive current limiters

HTS materials and powders

- BSCCO 2212, YBCO 123 and 211 granulates and powders for various applications

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Nexans autoelectric



Location: Floß

Engineering/service

- Innovative product and process engineering with the most up-to-date CAx tools,
- development and documentation using standardized and customer specific systems,
- virtual and real testing,
- rapid prototyping,
- project management, etc.

Vehicle electrical systems

- Engine harnesses for cars and commercial vehicles, from 4 to 12-cylinder engines,
- main harnesses,
- wire harnesses used for special applications,
- low-voltage and high-voltage cabling for hybrid electric vehicles,
- inherently stable cabling for demanding installation situations, etc.

Components for active and passive safety systems

- Connectors and mechanical/electronic components for cars and commercial vehicles that withstand extreme stress (e. g. for ABS systems, temperature sensors, electrical parking brake),
- clock springs for the precise transmission of signals for the airbag and various functions of steering wheels.

Mounting and system parts, micro-switch applications

- Mounting and system parts for the entire chassis and engine area (e. g. plastic components, rubber components, integrated concepts, stamping and bent components),
- micro-switch applications for position identification.

Automotive cables

- FLRY-cables,
- flexible flat cables (FLBL) for complex packaged solutions,
- SFC® (strong flex cable) with particularly high strength properties under alternating flexural stress when the weight and volume are reduced simultaneously.

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Nexans Power Accessories Germany



Location: Hof

Mechanical connectors

- Screw connectors for LV conductors and screen wires
- Screw connectors for MV conductors and screen wires
- Screw cable lugs for conductors and screen wires

Compression joints

- Notch type midspan joints for Al-, ACSR-, Cu conductors
- Full tension compression joints for Al-, ACSR-, Cu conductors
- Non tension compression joints Al, Cu, Bimetallic
- Reduction sleeves

Cable lugs

- Cable lugs compression type Al, Cu, Bimetallic
- Cable lugs clamping type Cu
- Pin type compression terminals Al, Cu, Bimetallic
- Terminal clamps

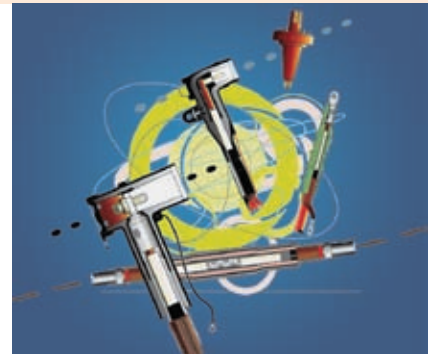
Clamps

- Dead-end clamps Al, Cu
- Universal overhead line clamps Al, Cu
- Dead-end clamps cone type
- Parallel groove clamps Al, Cu, bimetallic
- Split bolt connectors

Customised products

- Mechanical and crimping type solutions for LV, MV, HV (1 kV to 500 kV) and cable cross sections 2.5 mm² to 2500 mm²

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Location: Hof

Low voltage cable accessories

Resin technology

- Resin insulated joints for junctions and branchings

Heat shrink technology

- Straight joints
- Heat shrinkable tubes
- Cable breakouts
- Repair sleeves
- Endcaps
- Insulating tapes

Medium voltage

Cold shrink, heat shrink and slip on technology

- Indoor and outdoor terminations
- Straight joints
- Transition joints
- Connectors
- Bushings
- Surge voltage arrestors

High voltage

- Indoor, transformer and outdoor terminations
- Straight joints
- Transition joints
- Crossbonding joints

Jumper cables

Installation tools

Connecting technology

Training and seminars

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Global Expert in Cables and Cabling Systems

Cables and cabling systems for all areas of life

Nexans is one of the leading suppliers of cables and offers solutions for all areas of use. Whether in the office, energy supply, indoor technology, transport, automotive or industry – Nexans' cables and cabling systems ensure the safe transfer of energy and data. The range extends from copper wire to hybrid leads, from sophisticated sensor cables to high-voltage cabling. The range is completed by accessories for high-quality ports and connections.

Incorporating experiences with renewable energy

The locations of Nexans Deutschland benefit from the knowledge of the globally active Nexans Group as well as from experiences from other fields. For instance, cables for wind turbines use expertise gained in mining: a gigantic lignite excavator used in open pit mining and the gondola of a wind turbine are both mobile and exposed to the weather. However, cables designed for continual torsional and bending stress would become brittle under these conditions – in contrast, the weather-resistant Nexans sheathing material remains flexible for decades.

Wire harnesses for electric and hybrid vehicles

Innovative powertrain concepts for electric and hybrid vehicles pose new demands upon electrical development and processes. To cater for this, Nexans develops and produces the necessary high-voltage cabling by using shielded cables, which incorporate high electric strengths, and also the according connecting- and distribution systems.

Weight reduction also sought after on the rail tracks

Lightness also has a profound role to play on rail tracks: some locomotives contain so many cables that they weight the same as two small cars. Nexans has therefore designed cables with silicone insulation. This lowers the weight and also makes them extremely resistant to both heat and cold.

More railway safety at little cost

Causing a sensation amongst railway experts is DuoTrack, a solution for the infrastructure on regional routes. The unique combination of copper cores and fibre-optic cables in a single cabling system reduces the number of lines to be laid and the attachment to the rail base saves time and money. The hybrid cable is therefore the perfect choice for sustainable signalling and safety systems.

Office technology made available to industry

Data cables are also examples of technological advance. Amongst other things, Nexans developers have made office network technology suitable for industry with mechanically and chemically robust cables. Production and administration are now merging more closely as they communicate in the same network environment.

More safety for people and materials

Intensive research, endless laboratory experiments and concentrated production expertise have also been invested in cabling systems which have been optimised for when a fire occurs. For example, they are used in connecting fire alarms, smoke vents and emergency telephones and help to save human lives.

More safety for the energy supply of the future

The field of superconductivity created cables which have virtually no resistance and can transport large electrical outputs with small cross-sections. A completely new component, which ensures added safety in the power network, is the superconductive current limiter. Its rapid progress suggests that the youthful technology will conquer the market in a few years.

Very well acquainted with cool techniques

Nexans also has experience with heat-insulation systems such as those required for the handling of liquefied natural gas and industrial gases: on certain types of the Nexans special machines for the tube and cable industry, corrugated tubes can be produced which are extremely suitable for thermal insulation. Nexans has experience of cooling technology in other areas as well: cryogenic systems which can cool the material to its operating temperature of approximately -200 °C are required for superconductors.

A small selection from a large range

In addition to the Nexans innovations described, many others are ensuring progress in water, on land and in the air: for improved energy supply, quicker data transfer and greater reliability. Cables are not simply cables – they are products with know-how which change our lives.

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