

 Nexans



**Data acquisition cables for lightness,
ruggedness and 3-D survey accuracy**

Nexans, worldwide leader in cables and cabling systems

As a global expert in cables and cabling systems, Nexans brings an extensive range of advanced copper and optical fiber solutions to three key sectors of the economy: **infrastructure, industry and buildings.**

Its cables and systems can be found in every area of people's lives, from rolling stock and railway infrastructure to telecommunications and energy networks, aeronautics, aerospace, automobiles,

petrochemicals, windmills, medical applications, etc.

The presence of Nexans in over 65 countries gives it a full mastery of both national and international standards. Its 10 Competence Centers and International Research Center work closely with customers to constantly improve its standard range of products and technologies and to develop customized, country and industry-specific solutions.



Data acquisition cables from Nexans to assure your operational efficiency

Faced with rising demand, and green concerns, the oil & gas industry is seeking to explore new reserves, reduce costs, and improve operational efficiency. Remotely-managed “smart wells”, both land-based and offshore, are a definite trend, as well as longer and deeper umbilicals. Meanwhile, the industry is forever looking for safer, more reliable and environmentally-friendly methods in extraction and processing.

Nexans provides a wide range of energy and telecom cables for prospecting, production and distribution, as well as for refineries, storage depots and petrochemical complexes, including safer lead-free energy cables. Aside from mastering installation techniques both onshore and offshore, Nexans has developed deepwater umbilicals, new protective sheathings, high-speed

optical fiber solutions, and fire-performance products, all of which are recyclable.

You are contractor prospecting in diverse terrains: deserts, mountains, cities, swamps, transition zones (TZs) and shallow waters. Your basic setup consists of a lab truck, a “vibrator’ truck, ground equipment, connecting boxes, batteries, software, and cables. The more precise the cable - in terms of attenuation - the more accurate the data and the larger the area you can survey. You appreciate lightness, so that one person can carry it, manipulation ease, reusability in various conditions, resistance and watertightness.

To help you improve efficiency, Nexans offers light, tough and accurate **data acquisition cables**.



Data acquisition cables: light, heavy-duty, adaptable and extremely accurate



Nexans produces transmission lines (backbones), horizontal transversal cables, and geophone cables for the toughest and most varied prospecting zones. Nexans transmission cables generally use two, six or eight copper pairs to power and carry information to geophones, but they are also available as twinned optical fiber and copper feed cables. Transversal cables generally link connecting boxes, while geophone cables are the last, usually 50-meter-long, links to the sensors, themselves. All Nexans products are waterproof and have high tensile strength for pulling (up to 200 kilos). They are light, rugged, easy-to-manipulate for a single person, and can adapt to all terrain conditions, including dry deserts, swamps, cold tundra and mountains.

This Nexans solution gives you:

- **Watertightness** which allows contractors to work in marshy areas, transition zones, and shallow waters
- **High tensile strength** for tough pulls over hundreds of meters on deserts or rocks
- **Accuracy of data** because of high transmission quality to give an accurate picture of geophone measurements
- **Resistance** to slicing, wear and tear, corrosion, chemicals, solvents and temperature fluctuations
- **Customized solutions** for the customer's stringent and varying needs, including special requirements (e.g. flat cables that can support heavy crossing traffic)
- **Cost-effectiveness** since the cables can be used over and over again
- **Research & Development** for new designs with a low time to market
- **Long cable lengths** to give customers maximum flexibility in the field
- **Full color range** for all terrains for greater visibility



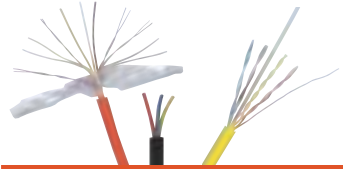
Nexans provides resilient cables for tough Canadian terrains

When a Canadian company wanted to develop a new Geophysical Data Characterization (GDC) system for monitoring the quality of seismic data being acquired, it aimed at high geophysical accuracy at the lowest possible cost.

That is why it chose Nexans cables for its digital transmission lines (backbones). These cables have the flexibility and quality required to be fully adapted to the recording systems, offering high accuracy in extremely variable terrains.



Data acquisition cables for sensors and geophones



Product families	Product family names	Standards / Specs
Geophones cables	Multiconductors (2 to 4) with PU jacket. Optionally watertightness and different pulling force.	<ul style="list-style-type: none">• These cables are developed according to customer specifications.
Transmission cables	Pairs and quart constructions with PU jacket, strengthening members and optionally watertightness so the cables can be used in transition zone and shallow waters.	<ul style="list-style-type: none">• These cables are developed according to customer specifications.





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