



NEWSENSE™
Cable solutions and services
to perfectly match your needs

Prevention, diagnostics, treatment and surgery...

We are in a new era of high-tech medicine where technology is playing an important role. Medicine is focusing on prevention as well as treatment and diagnostics requiring the use of imaging devices.

Recent breakthroughs in laparoscopy and telerobotics are transforming the operating theater, providing minimally invasive solutions as an alternative to complex open surgical techniques.

Eventually, electronic devices will be able to detect, evaluate, treat and report to the clinical doctor automatically via remote patient monitoring (RPM) and a wireless net-linked system, bringing advanced health care out of the hospital and right into the home.

Meanwhile, increased price pressures and new emerging markets in Asia are pushing medical manufacturers to manage costs more carefully while maintaining quality.

Much of this exciting medical revolution depends on high-quality microcables, multicore cables for dynamic applications, and composite cables



which combine several functions in one cable: e.g. plastic optical fiber, coaxial cable, twisted pairs, tubes for air, gases or liquids, etc.

Customized micro and composite cables for your needs: no more, no less

As an innovative manufacturer of imaging equipment, you want high-performance medical cables that offer:

- Conformity with ISO 10993 in terms of biocompatibility, allowing FDA qualification

- Resistance to all sterilization techniques: chemical, heat, gamma rays, etc.
- Protection against multidrug-resistant (MDR) bacteria/viruses
- Cabling solutions for complex equipment, compactness for portable devices
- Comfort and ease of use for doctor, technician and patient
- Electromagnetic compatibility (EMC) in the "busy" clinical environment

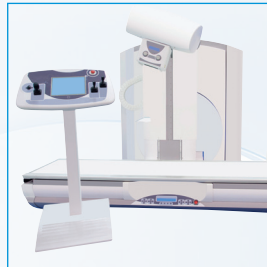


...require customized **NEWSENSE™** solutions

Nexans medical micro and composite cables allow OEMs to build more convenience and intelligence into all investigative, diagnostic and therapeutic equipment. Physicians and patients worldwide appreciate their safety, comfort and discretion.

For large imaging systems (radiography, magnetic resonance imaging/MRI, computer tomography, and nuclear camera/scanners) Nexans manufactures flexible composite cables with different solutions inside, from micro-coax to a complete set of plastic fiber-optic cables, twisted pairs and tubes.

We meet your special needs and applications through cost-effective, custom designs to reduce your development time and increase performance. **NEWSENSE™** cables fully comply with EU and other international directives.

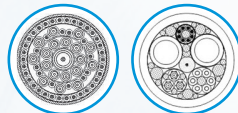


NEWSENSE™ for medical imaging

A wide range of microcables and composite cables for numerous devices used in obstetrics, gynecology, cardiology, dentistry, endoscopic applications and the veterinary sciences.

Design

- Various conductor counts: 2-528 for coax; 2-130 for composite
- Antimicrobial cables for patient safety
- Bundles with identification thread
- Colored insulation; specific color by micro-coax
- Capacitance within the 55-95 pF/m range for ultrasound probes
- Single wires and coaxial cables in various constructions for CCD cameras
- Round, flat or square cable depending on equipment space
- Spike Proton Free (SPF) for MRI



Sterilization

Both kinds of cable are resistant to various sterilization methods, including chemical (ETO, Sterrad®, Cidex®, gas), gamma rays, and standard alcohol, ethanol, propanol, etc.

Special services

Nexans tests electrical performance, bending and flexibility, and critical medical parameters. R&D is often done closely with the customer and small quantities are quickly tested and prototyped to assure quality and applicability. The right cost-quality equation is carefully studied, and logistics are meticulously planned to match customer production needs.

Benefits of NEWSENSE™

- Full biocompatibility, sterilization ease and operational flexibility
- Antimicrobial jackets to protect against multiresistant bacteria/viruses
- High data capacity and multi-constructions in miniaturized format
- EM-shielded for safe clinical operation and surgery

Nexans expertise

- Based on ongoing R&D in dedicated Nexans competence centers
- Industrial capacity adapted to OEM production; customized prototypes
- Draws on Nexans experience in aeronautics, robotics, LANs, etc.
- Shared expertise, laboratory technical support, extensive service program
- Worldwide presence and country-specific project development





Global expert in cables and cabling systems

With energy as the basis of its development, Nexans, worldwide expert in the cable industry, offers an extensive range of cables and cabling systems. The Group is a global player in the infrastructure, industry, building and Local Area Network markets. Nexans addresses a series of market segments: from energy, transport and telecom networks to shipbuilding, oil and gas, nuclear power, automotives, electronics, aeronautics, material handling and automation. Nexans is a responsible industrial company that regards sustainable development as integral to its global and operational strategy. Continuous innovation in products, solutions and services, employee development and engagement, and the introduction of safe industrial processes with limited environmental impact are among the key initiatives that place Nexans at the core of a sustainable future. With an industrial presence in 40 countries and commercial activities worldwide, Nexans employs 24,500 people and had sales in 2011 of 7 billion euros. Nexans is listed on NYSE Euronext Paris, compartment A.

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