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LIGHT

»An introduction to
the fascinating world
of fibre optics.«

euromicron
Aktiengesellschaft

*From fibre-optic cables
to optical networks*

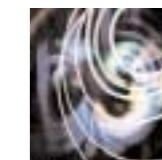
*The growth market of the future,
the technology that brings us closer*

Multi Media, one medium

*Market of the future,
vision of the past*

*Successful projects,
satisfied customers*

*Our business areas,
your network synergies*



QUANTA

»Light consists of countless light quanta that transmit information. By total reflection of these quanta in fibre-optic cables, this information can be carried over hundreds of kilometres.«

From fibre-optic cables to optical networks

The arteries of the information society

Today's multimedia applications require high transmission and network capacities due to the worldwide demand for internal and external business communications networks and the growth in home Internet use and telecommunications. Fibre-optic technology enables digital information to be sent by lightwaves and is the dominant network technology of the new millennium.

As a manufacturer and provider of fibre-optic systems, euromicron combines active and passive components to create the network of the future. Today no company can afford to ignore the speed of markets and communications; the faster information is available, the greater the competitive advantage. That's why we are the ideal technology partner for both new and old economy. Discover the possibilities of fibre-optic technology and be inspired by the high-tech revolution. Learn more about the future technology that will bring us closer.

euromicron – success by light



MODE

»Our fibre-optic cables allow light modes to be sent across great distances. Fibre optics with a very small core diameter can only carry one mode of light, hence the name monomode fibre optic.«

The growth market of the future, the technology that brings us closer

The history of optical fibres

The introduction of the first optical fibre in 1970 represented the dawn of a new era in technology. While transmission distances of 1 km still seemed revolutionary in the early 70s, subsequent developments in fibre optics allowed the major problems of atmospheric transmission to overcome, hence transmission distances of more than 100 km can now be achieved without amplification. Until the mid-1980s, the USA and Japan led the field in fibre-optic technology and it was about this time that the technology first featured not only in land lines but also in transatlantic and submarine cables. Parallel to the development of the transmission medium, major advances were made in the development of semiconductor components for optical message transfer technology such as the high-performance laserdiode transmitters and receivers used today. All conditions for the creation of global high-volume data and communications networks were now in place and developments in the USA were soon followed by rapid growth in European markets.

By the year 2000, around 250,000 kilometres of long-distance optical fibres has been installed in Germany only. In addition, fibre-optic technology is now moving into buildings and urban areas. Already a genuine growth market, new areas for fibre optics are opening up all the time.

euromicron – communications with the speed of light



CORE

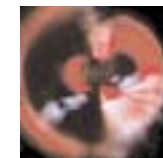
»The core diameter of a monomode fibre optic is just 9 µm. The entire fibre-optic cable is about the thickness of a human hair (250 µm).«

Multi Media, one medium

Optical fibres are used in a variety of applications, for example in communications technology (voice, data and image transmission), in medicine (endoscopy), in the aero and automotive industries (on-board computer networks) and in laser and measuring technology (information exchange).

The multifunctionality of optical fibres lays the foundation for the future: it's a technology that brings us even closer together and builds bridges for a modern communications culture.

euromicron – one fibre, countless applications



COLOUR

»Light can be filtered into colours, allowing information to be transmitted in different colours and multiplying the capacity of an optical fibre.«

Market of the future, vision of the past

The excellent growth potential of this market – particularly in the fields of optical networks and components – is something euromicron has recognised long time ago. Our origins can be traced back to the 1980s when we started with the production of components for fibre-optic technology that has been enhanced and perfected systematically.

Our know-how and experience, our permanent research and development and our high quality standard have led to genuine brand consciousness among our customers. Today our products are used successfully all around the world, establishing euromicron as one of the market leader in fibre-optic technology.

euromicron – a leader in fibre-optic technology



SPLICE

»Using electric arcs and precision engineering, the ultra-thin fibre-optic cables are fused together to create a durable, loss-free connection: the splice.«

Successful projects, satisfied customers

In order to meet the various requirements of our customers we specialised ourselves in providing customer solutions for every need. Trust and confidence of our customers is an integral part of our philosophy. The proven know-how and total commitment of our staff together with high-precision fibre-optic technology make each of our projects unique.

We meet customer requirements by tailored solutions.

- *Technology partner of Deutsche Telekom, planning and installation of a state-of-the-art communications network at EXPO 2000, the World Exposition in Hanover.*
- *Project »Friedrichswall 2000«: a complete network for the new administrative headquarters of the Hanover bank Nord LB.*
- *Data networks for the Technical University of Berlin (TU).*

References of well-known and established customers underline and confirm our expertise and the recognised quality of our products and services.

BASF • StorageTek • Hitachi • Citibank • Lufthansa • The Max Planck institutes • Hanover city works department • The German vehicle licensing authority, Flensburg • Pandatel • The German standards institute (DIN), Berlin • ADAC Munich • R+V Versicherung • The state ministries of Lower Saxony • VIAG Interkom • T-Systems • debis • Hannoversche Rückversicherung • EDS • Kabel Deutschland • BMW • NCR • amadeus • VW • Deutsche Telekom AG • Swisscom • Deutsche Bahn AG.

euromicron – convincing references



ATOM

»The high levels of light and information transmitted are very sensitive to even the smallest imperfections in the glass core that can make a fibre-optic cable unusable. Just a handful of foreign atoms can disrupt the dispersion of the light.«

Our business areas, your network synergies

We create networks that bring people together.

By our capabilities and our experience we became a powerful partner for our customers and one of the most important system provider in Germany. The high technical complexity and the need for compatibility with existing networks require the expertise of a system provider who can offer complete solutions from a single source. Every one of our companies permanently draws inspiration for new ideas from its wealth of experience and, with its innovations in fibre-optic technology, puts the network of the future into a whole new light. euromicron will continue to pursue a dynamic acquisition strategy, focusing on the organic growth of existing companies as well as the successful integration of new companies. With our investment, we are setting new standards in international market coverage and showing the way forward to the future.

- *We create tailored, integrated solutions for information and communications structures.*
- *We enable a technology for the creation of networks that bring people together.*
- *We are ideally prepared for ever-decreasing innovation cycles.*
- *We will continue to drive our strong market position in key areas through the development of additional technological capabilities.*
- *We will continue to demonstrate our advances through the development of innovative technologies and patents.*
- *We will continue to impress our existing customers with our innovative network technology.*
- *We present light without shadow. The faith of our customers is our reward.*

euromicron – the future is on our way

