

Inside **LAPP**

Review from Hannover Fair 2007

As a major market innovator the Lapp Group are at the forefront of manufacturing and supplying new products into the electrical and electronics market, and this year's Hannover Fair was no exception with over 30 new product lines added to our already extensive portfolio.



Added to our popular range of PVC control and connection cables is the ÖLFLEX® Classic 110 Cold, which has all the attributes of our standard ÖLFLEX® Classic 110 number coded control cable with the added benefit of a -30°C to +70°C temperature range for flexing applications.

Ideally suited for cooling units, refrigeration and air conditioning applications in dry and damp conditions under medium mechanical loads. Available in a range of sizes up to 25 cores in 0.75mm, 1mm and 1.5mm cross sectional area, as well as up to 5 cores in 2.5mm, 4mm and 6mm cross sectional area.

The polyurethane range of cables has also been increased with the launch of the Olflex® Classic 415 CP, screened EMC compliant number

coded control cable. Designed without an inner sheath which gives a reduced outer diameter for applications where space is critical. The tinned copper wire braid is separated from the cores by an insulating plastic tape.

Resistant against a high number of mineral oils, cutting oils, cooling agents and lubricants, the high abrasion resistant outer sheath is durable against wear and tear.

Due to the special formulation of the polyurethane sheath the cable is microbe proof and hydrolysis resistant therefore suitable for the food and beverage industry.

Manufactured free of substances harmful to lacquer (silicone free) making the cable ideal for use in paint shops.



OLFLEX® on world tour

Lapp Group is further increasing its international competitiveness with new certification. The company introduced at the Hannover Fair this year, a number of ÖLFLEX® connection and control cables with additional international certification.

The ÖLFLEX® CLASSIC 130 H and 135 CH, a cost-effective control cable that is halogen-free and highly flame-retardant to IEC 60332-3-24, now has UL AWM certification for use in the USA and Canada and fire testing approval to VW-1. It is used for preference in equipment and apparatus for safety reasons.

The ÖLFLEX® CONTROL M and TM machinery installation cables, which are used for preference in laying in cable trays up to the machine in question, are real "world travellers." They are MTW-listed (Machine Tool Wire) and approved for the North American market.

AWG conductors adapted to metric sizes also allow CE-conformity for use in Europe. And it has also been NOM-listed (Norma Oficial Mexicana) for Mexico. Since the cable is suitable for use in unprotected laying and in cable trays as a result of the Open Wiring certification, installation is significantly quicker and easier. Add to the short lay length stranding and

a special extruded outer sheath.

There have also been many innovations for the Chinese market. The ÖLFLEX® 140 control cable with increased oil resistance and the internationally approved ÖLFLEX® 150 QUATTRO control cable with its screened variants 140 CY and 150 CY QUATTRO now also have China

Compulsory Certification (CCC).

They are especially suitable for machine and plant construction, machine tools, conveyor units, conveyor belts and assembly lines and equipment manufacture. Exports to China have been made significantly easier due to the CCC certification.





WELCOME to our second issue of the "Inside Lapp" newsletter. It has been an eventful 3 months since our last newsletter.

The Lapp Group attended the Hannover Fair in April, and launched a host of new products, information on some of these are detailed in this edition. We have also revamped our website to give customers not only up-to-date information on all our product brands but also downloadable data sheets and catalogues.

As always we are keen to hear your comments and suggestions on any improvements or additional features you would like to see. On that note I would like to extend my thanks to all those who took time to respond from the last newsletter. We received some very positive feedback as well as some interesting comments.

These are always welcome, so please do get in touch either by phone directly to our sales people on 020 8758 7800 or by E-mail at sales@lapplimited.com

So till the next issue, I wish you all a long, hot enjoyable summer.

Leif J Friestad
Managing Director

Lapp website gets a facelift

Lapp Group UK and Ireland, has remodelled its website to provide existing and potential customers with easy access to information about its industry leading product ranges.

www.lapplimited.com contains an online version of our recently published 2007 1000-plus page "Connecting the World" product catalogue which provides comprehensive details of more than 40,000 Lapp products including full technical data, applications information and ordering criteria.

To make it easy for customers to accurately specify the right product for their application Lapp has, for the first time online, introduced a cable finding facility called

"Cablefinder". Here, those who require specific cable products, can search using a wide range of criteria including generic cable type i.e. flexible cables, number and cross-section of cores, voltage rating, insulation material and properties such as fire resistance and screening. At each stage of criteria selection, the search is refined and, once the selection is complete, customers are left only with cables that exactly match the desired application. Once selected, customers are able to download the relevant datasheet.

Also our latest product brochures are now online for customers to download in PDF format as well as the latest and back issues of your favourite newsletter "Inside Lapp".



New addition to the SKINTOP® range

Lapp has developed a new version of its innovative SKINTOP® cable gland with a unique brush connecting system for larger diameter cables, as used in industrial applications such as control cabinet construction, engine and tool building, conveyor systems and the automotive, paper and packaging industries.

The SKINTOP® MS-SC-M Brush is specially designed for use with copper braid screen cable with external diameters of between 11-45mm, available in metric threads from 32mm to 63mm.

Lapp's brush system is EMC-safe and offers a quick and reliable alternative to the traditional 'spring' contact method. The new cable gland features thousands of brush strands in a circular arrangement which provide a wider and more variable clamping range and make assembly, disassembly and installation simpler and faster.

Fitting the SKINTOP® MS-SC-M Brush cable gland could not be simpler and can be completed in a single operation. Just enter the cable into the gland, slide the screening braid under the brush, turn to close and the cable is automatically centered, fixed, strain relieved and hermetically sealed up to protection class IP68.

A further benefit of using a brush attachment system is that an optimal low resistance screen contact is achieved. In addition, it allows a high level of assembly flexibility, thereby allowing easy adjustment and rotation of the cable during installation.



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Visit our website for further details on this great offer.

Renewable energy

CLIMATIC WARNING – the melting of the polar ice caps, storms and floods; the topic of renewable energies is increasingly the focus of attention by the general public after the most recent report by the UN experts. Our environment is in danger.

The Lapp Group has therefore been working for many years now on the topic of renewable energies. Lapp offers a specially matched range of cables for the generation of wind and solar energy, and for use with biofuels.

Chairman of the board Andreas Lapp gave his view: *“The field of renewable energies is not just an absolute boom market for us but also an obligation to commit ourselves to protection of the climate and of our environment.”* Thus for some time now the Lapp Group has on the roof of its logistics centre 1 in Stuttgart, Germany a huge solar unit with a generation capacity of 168 kWp.

The saving in terms of CO2 is around 95,000 kg per year. Heat recovery units have been installed in the cable production area saving considerable amounts of energy. All the products and packing materials of the Lapp Group are free of asbestos and CFCs.

Wind energy

As of today Lapp is one of the leading supplier's worldwide for builders of wind energy units. As a result of the thermal and mechanical requirements for the units that are up to 100 metres high and 14 tonnes in weight, the energy and the measuring, data and control cables must be especially tough and able to withstand extreme pulling and twisting loads.

With this in mind Lapp have introduced the Olflex® H07BN4-F torsion resistant rubber single core cable. With an abrasion resistant outer sheath and temperature range of -35°C to + 90°C and a conductor that is specially designed to allow for torsion of ± 150°/m, makes this harmonised cable ideal for use in wind energy from the moving gondola to the bottom transformer.



“The field of renewable energies is not just an absolute boom market for us but also an obligation to commit ourselves to protection of the climate and of our environment.”



ÖLFLEX® CLASSIC 110 control cables are used for the cabling within the gondola, and the highly flexible ÖLFLEX® FD CLASSIC PVC power chain cables for the transition to the gondola in the tower, and UNITRONIC® data cables and EPIC® industrial connectors for the installation of the machine house.

Solar plants

The cables within the LAPPTHERM® SOLAR brand range have been a particular success. This is a total of four different product lines, LAPPTHERM® SOLAR plus, LAPPTHERM® SOLAR XL, LAPPTHERM® SOLAR SR and LAPPTHERM® SOLAR V4A, which offer perfect solutions for everything to do with solar panels and have been customised for the relevant special requirements for use at locations around the world.

All the versions are extremely weather and UV-resistant. The new EPIC® SOLAR connector with wings for quick installation rounds out the range of solar products from Lapp.

There are solar units worldwide using products from Lapp: On the roof of a school in Singapore, in units for the supply of electricity in Africa, on sports halls in Bavaria and of course the Lapp solar unit on the roof of logistics building 1 in Stuttgart, Germany has been wired up with the company's own products.

Bioethanol plants

The bioenergy market also got a massive impetus from the requirement to add bioethanol to the petrol sold at filling stations. The proportion of currently 1.2% in the petrol is to be increased in steps up to 5.75% by 2010.

For example, Südzucker Bioethanol GmbH produces 260,000 cubic metres of bioethanol from 700,000 tonnes of wheat in Zeitz (Thuringia) and even offers its own fuel under the brand name CropPower85.

Once again, Lapp products ensure trouble-free production of the units. ÖLFLEX® CLASSIC 110 control cables and the halogen-free version ÖLFLEX® CLASSIC 130 H are used for everything from shredders to tanks, and also for many other applications requiring special cables.





New SKINTOP® CLICK

Lapp Group has launched an extension to the range of new SKINTOP® CLICK cable glands. The innovative cable insertion system for control cabinets now has an additional spiral to protect against bending and to protect and secure flexible cables.

The new SKINTOP® CLICK BS is therefore ideal for use in hand-held equipment, mobile machine parts, in stage technology or in the robotics industry, where connecting cables must be protected against excessive bending in accordance with VDE regulation 0730.

The SKINTOP® CLICK BS is available in three sizes: M16, M20 and M25 in colours RAL 7001 silver grey, RAL 7035 light grey and RAL 9005 black.

We have also added 2 new colours to the range of standard SKINTOP® CLICK glands, silver grey to RAL 7001 and UV resistant black to RAL 9005 have been introduced alongside the original RAL 7035 light grey glands. Available in three

sizes M16, M20 and M25 and with a reducing seal for smaller diameter cables.

To complete the range the new SKINTOP® CLICK BLK blanking plug has been introduced for previously drilled holes that need to be sealed. The SKINTOP® CLICK BLK is available in light grey to RAL 7035 in SIZES M16, M20 and M25 with an IP rating of 68. The biggest advantage of SKINTOP® CLICK compared to conventional glands is the time consuming rotation into place, it simply needs to be clicked into the drilled hole.

Just turn the pressure nut a short way to the left and the cap nut to the right and the cable is fixed in place, centred, protected against vibration, optimally strain-relieved (in accordance with EN50262) and hermetically sealed (IP 68). The innovative click-in system of the new SKINTOP® CLICK saves up to 70% of the time in installation compared to conventional cable glands. No threads need to be cut; no locknuts or assembly tools are required.

New TRAFFIC cable meets International Railway Performance and Safety Standards

Lapp has expanded its world-famous ÖLFLEX® cable range with the addition of TRAFFIC, a new generation of high performance, halogen-free control cables.

Developed by Lapp to satisfy the specific cabling demands of the rail sector, TRAFFIC also provides a safe and effective solution for any application where flexible, reduced diameter and lightweight control cables are required, for example, lighting systems, door controls and air conditioning units.

ÖLFLEX® TRAFFIC offers superior resistance to mechanical, thermal and chemical stresses courtesy of its electron beam cross-linked insulation. The cable is also robust, UV-resistant and can withstand temperatures as low as -45°C and as high as 120°C. Furthermore, it has a high level of flexibility and features the latest 'thin-wall' technology, making it very lightweight and easy to handle, even in restricted space conditions.

A priority in Lapp's development of ÖLFLEX® TRAFFIC was to satisfy international railway performance and safety standards. In fact the requirements of British (BS), French (NF), German (VDE) and European

(EN) standards were all taken into account during the development process and the cable has been tested and certified by VDE.

TRAFFIC has excellent fire resistance properties, is low smoke, halogen-free and offers low generation of toxic gases in the event of a fire. As such, TRAFFIC can be safely specified for fixed and protected cable runs in ducts, trays and conduits, both internally and externally, on railway carriages, trams and buses, and for associated wiring switchgear, inverters and distributors.

ÖLFLEX® TRAFFIC can also be used for trouble-free connection of components such as loudspeakers, fans and control panels between frequency inverters and motors.



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