

Inside

LAPP



Click for a faster cable connection

Lapp recently launched an innovative addition to our revolutionary SKINTOP® range of cable glands. The all-new SKINTOP® Click is a fast and flexible cable entry system that can save valuable installation time on a wide range of applications, including switch cabinets, automation systems and plant construction.

In fact, the new SKINTOP® CLICK's specially designed latch system makes cable mounting up to 70% faster. Just click in - turn left - turn right - and the gland is fixed, centred, strain relieved to EN 50262 and hermetically sealed to the highest protection class IP68.

In addition to speed of installation, SKINTOP® CLICK offers all the reliability and performance of the original SKINTOP® cable gland. This includes built-in protection against vibration, so making it

particularly suited for use in electric motors. It can be easily mounted in any position without the need for a special mounting tool or additional clamping ring.

SKINTOP® CLICK also has fewer parts for simpler installation, and delivers reliable sealing of even small cable diameters. SKINTOP® CLICK is designed to fit panels and cabinets with a wall thickness of 1-4mm.

The new cable gland range also includes the SKINTOP® CLICK-R, with a reducing seal insert for tightening of smaller clamping ranges.

TECHNICAL DATA

Temperature Range:

Static: -40°C up to +100°C
Dynamic: -20°C up to +80°C

Colour: Light Grey (RAL 7035)

Protection Class: IP68

Part No.	Description	Wall Thickness of panel (min-max)	Clamping Range
53112686	SKINTOP® CLICK 16	1-4mm	4.5-10mm
53112687	SKINTOP® CLICK 20	1-4mm	7-13mm
53112688	SKINTOP® CLICK 25	1-4mm	9-17mm
53112689	SKINTOP® CLICK-R 16	1-4mm	2-7mm
53112690	SKINTOP® CLICK-R 20	1-4mm	5-10mm
53112691	SKINTOP® CLICK-R 25	1-4mm	6-13mm

“Connecting the World” is the theme of the new 1000-plus page product catalogue

As a leading cable solutions provider, Lapp is pleased to announce the publication of our 2007 main product catalogue, a 1000-plus page cable reference book that will find wide interest among users of all types of cables and cable accessories.

The new catalogue, which has the theme “Connecting the World”, provides comprehensive details about every Lapp product including full technical data, applications information and ordering criteria.

Featured in the catalogue is a range of new products, as well as the items highlighted in this newsletter, we have also introduced a new low smoke halogen free OLFLEX® CLASSIC 130H control cable and a screened version in the OLFLEX® CLASSIC 135 CH.

We have expanded our range of Servo Motor cables with the UL/CSA approved 9YSLCY-JB double screened, low capacitance 0.6/1KV motor cable available in a clear outer sheath or with a black outer sheath for resistance against UV light.

With more than 40,000 products, the Lapp Group is one of the leading manufacturers and suppliers of highly flexible cables, accessories, industrial connectors, preassembled cables and communication technology. Our world-famous international brands include, ÖLFLEX® flexible control cables, EPIC® industrial connectors and SKINTOP® cable glands.

We are at the forefront of cabling technology, with solutions for almost every application, from mechanical engineering, automation, and robotics, to building services and data transmission.

To obtain your copy of the new 2007 Catalogue, contact your nearest sales office:

London +44 (0)20 8758 7800
Glasgow +44 (0)141 950 1061
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Lapp's new 1000-plus page product reference catalogue for 2007.



HANNOVER FAIR

Once again Lapp Group will be present at the Hannover Messe in Germany, from Monday 16th April to Friday 20th April 2007.

The Hannover Messe is the worlds leading technology event.

On our stand in Hall 11, Booth Number F14, we will be showcasing new products and innovations.

A full report from Hannover will feature in our next edition of Inside Lapp.

Innovative additions to the LS1 and M23 range of Circular Connectors

The Innovative right-angled A3 swivel base connectors are the latest addition to our EPIC® LS1 and M23 range of Circular Connectors. With a patented top cover that allows for simple mounting without the need of any tools and its ergonomic and compact design, assembly couldn't be any easier.

For use by machine tool, motion drive and robotics manufacturers the CIRCON LS1 A3 is suitable for power connections and the CIRCON M23 A3 is for control signals. Both are unique in the market because of their patented swivel base mechanism that integrate a ratchet concept, protected against vibration, which holds the connector in 15° intervals adjustable over a 330° angle. This swivel mechanism is perfectly designed to allow for a clearly defined and constant movement of force, thus preventing any unintentional rotation when mounted on the device.

The EPIC® M23 signal connector and LS1 power connectors comply with the requirements of DIN EN 61984, rated to IP68 and approved to UL, CSA and VDE standards. Both are offered in coupler, connector and panel mount configurations that satisfy simple cable-to-cable and cable-to-machine requirements. They are ideal for control signal transmission and servo drive encoder feedback applications in the plastics, printing, analytical instrument, robotic and machine tool industries and any other industrial or commercial application where a compact, rugged connector is required.

M23 Connectors are available in seven housing arrangements that can accommodate three different keying positions. Inserts are offered in a choice of seven contact configurations for mounting male or female, crimp or solder contacts. Common to all arrangements are a rugged nickel-plated zinc body, plastic contact insulation body and gold plated electrical contacts. Cable mounted arrangements also include an integral EMC shield ring and a built in SKINTOP® gland.

They are offered with insert configurations for 6, 7, 8+1, 9, 12, 16, and 17 crimp or solder contacts in either a clockwise or counter-clockwise orientation. Used in combination, they connect one cable with another (cable coupler) or a cable to fixed wiring in a control enclosure or on a machine, instrument or motor.



A colour coding system provides positive identification and visual differentiation in multiple connector installations whilst colour coded keying rings ensure correct mating selection in applications where several connectors are mounted in the same location.

LS1 power connectors are available in five housing arrangements and two contact configurations, 5+PE and 3+PE+4.

Common to all arrangements are a rugged nickel-plated zinc body, plastic contact insulation body and gold plated electrical contacts. Like the M23 connectors, cable mounted arrangements also include an integral EMC shield ring and the highly regarded SKINTOP® gland.

For multiple connector installations, colour marking is used to provide positive identification and visual differentiation.



WELCOME to our quarterly newsletter. It has been some time since our last newsletter, and my first as the Managing Director of Lapp Group UK & Ireland.

I have been in the 'hot seat' for over a year and in that time the Lapp Group have launched new and innovative products and have expanded our sales force in the UK & Ireland.

The aim of this regular newsletter is to keep you up to date with all that goes on "inside Lapp" including new products, application stories and introducing you to the staff whom ensure your order or enquiry is dealt with quickly and efficiently, thus allowing you to put a face to the name.

Of course, we are always looking at ways we can improve our service to our customers, after all, without you there would be no Lapp.

Our staff are always open to feedback and suggestions and we would welcome your comments either by phone 020 8758 7800 or e-mail sales@lapplimited.com



Leif J Friestad
Managing Director

SPECIAL PROMOTION

For a limited period we are offering our customers the opportunity to purchase the appropriate crimp tool and locator tool for just £299 plus VAT - showing a saving of £150. In addition, customers wishing to order circular connectors worth more than £2000 will receive both free of charge.

TAP INTO THE SUN

The energy potential of the sun is almost inexhaustible....at least 4 billion years, experts estimate. The amount of solar energy arriving on the earth's surface exceeds by 10,000 to 15,000 times the average daily consumption and this is a major reason why photo-voltaic applications have become such an important factor in the area of renewable energy and has influenced a major boom in this business sector.

The Lapp Group has set up an intensive co-operation with users within the "renewable energy" sector and has set innovation and future orientation as it's target in this field.

Through permanent ongoing development of the components used within these systems, a more efficient use of photo-voltaic effect and solar irradiation will become possible. Lapp Group offers a complete product range, which has been specifically customised for the photo-voltaic sector. These products are designed to offer complete cabling solutions from the roof to the cellar. If you have an application where solar cells are connected with each other, or with the terminal box and the inverter, with due regard to all installation restrictions, then we can offer you the optimum solution for all situations.

Did you know that the selection of the materials for the insulation and outer sheath of a cable is of vital importance? In order to

transmit electrical currents theoretically only a copper conductor is required and the insulation and outer sheath merely serve as handling protection. However, particularly in outdoor applications, this protection is exposed to highly demanding weather conditions, UV-rays, Ozone and a high variation in temperature.

The excellent temperature properties of our solar cables of, up to +120°C, are able to cope easily with weathering through permanently high temperatures and, as a consequence, they can be installed in hot areas anywhere around the world. This also applies to UV resistance: The reliability of the materials we use avoids pre-ageing through becoming brittle and the potential for a breakdown of the cable.

Further advantages, such as tinned conductors, cross-linked materials and additional reinforcements, results in better durability and a longer shelf life.

PRODUCT RANGE

LAPPTHERM® SOLAR XL MULTI

Stranded conductor of tinned copper wires, class 5
Core Insulation: special Polyolefin
Colour: black
Outer Sheath: Special Cross-linked copolymer
Colour of outer sheath: black
UL and CSA approved
Sizes available: 2.5mm² to 16mm²

LAPPTHERM® SOLAR PLUS

Stranded conductor of tinned copper wires, class 5
Core Insulation: cross-linked elastomer compound
Colour: black
Outer Sheath: Special ThermoPlastic Elastomer
Colour of outer sheath: black, red or blue
Sizes available: 2.5mm² to 6mm²

LAPPTHERM® SOLAR XL

Stranded conductor of tinned copper wires, class 5
Core Insulation: cross-linked special Polyolefin
Colour: black
Outer Sheath: cross-linked special Polyolefin
Colour of outer sheath: black
Sizes available: 2.5mm² to 10mm²

LAPPTHERM® SOLAR SR

Stranded conductor of tinned copper wires, class 5
Core Insulation: ThermoPlastic Elastomer
Colour: black
Outer Sheath: Special ThermoPlastic Elastomer
Colour of outer sheath: black
Sizes available: 2.5mm² to 6mm²

LAPPTHERM® SOLAR PLUS V4A

Stranded conductor of tinned copper wires, class 5
Core Insulation: cross-linked elastomer compound
Colour: black
Outer Sheath: Special ThermoPlastic Elastomer
Colour of outer sheath: black
Armouring: V4A stainless steel braiding, rust proof
Sizes available: 4mm²

SOLARLOK® is the perfect connection between **LAPPTHERM® SOLAR** and the panel.

All common conductor cross sections can be inserted easily to give waterproof results. The connector and couplers snap in with an audible click and provide a connection with an IP67 rated seal. They can be re-opened as required without the need for special tools. All of this is available with the renowned quality of Lapp and with the enhanced resistance to UV radiation, weathering and temperature. Having the cable, connectors and know how we can harness the plug and play solution you require.



STAFF ROOM

The place to put a face to the voice.



Sean Gavin is our Regional Sales Manager for Scotland based out of our Glasgow office. Sean began his career as a production engineer before moving into field sales support. Prior to joining Lapp he worked with a distributor of wireless and wireline communications products for a diverse range of industry sectors. He has degree in Manufacturing Systems and Management.



Arlene Scott is our Sales Office Manager, based at the company's Head Office in Perivale, West London. Arlene arrived at Lapp with a proven track record in sales management, having won numerous awards during her sixteen years at Yell Ltd, formerly Yellow Pages Sales - including Sales Manager of the Year. At Lapp, Arlene's activities will include team training and she will also act as internal coordinator on multiple projects.



Donald Graham is our Regional Sales Manager for Northern Ireland. Key to his role includes reinforcing Lapp's longstanding presence in this market and promoting the company's reputation, not only as a competitive component supplier but also as a total solution provider. With extensive experience of the Irish electrical and electronics market, Donald is ideally placed to develop and grow Lapp's business in Northern Ireland. He has a background in cable manufacturing and component specification, together with a proven sales and customer service record.

OLFLEX[®] FD Robust & FD Robust C

The robust powerchain cable for higher operating temperatures

For many years Lapp have lead the way in cables for positive guidance systems, our extensive range of OLFLEX[®] FD cables have been used in numerous applications where flexibility and durability are paramount.

As we are always looking to increase the areas of applications, Lapp has recently introduced a new range to complement our existing cables. The new OLFLEX[®] FD Robust

control and connection cables are specifically designed for cable chain applications with small bending radii and at temperatures up to +105°C. PVC and PUR sheathed cables can become brittle and lose their flexibility at temperatures over 80°C.

The OLFLEX[®] FD Robust range maintains its flexibility even at temperatures over 100°C and at high humidity. This cable is therefore

TECHNICAL DATA

Temperature Range:
Flexing: -40°C to +105°C
Static: -50°C to +110°C

Minimum Bend Radius:
Flexing: 7.5 x cable diameter (at temperatures <70°C)
10 x cable diameter (at temperatures max. 105°C)
Static: 4 x cable diameter

Voltage: 300/500V



suitable for use in machine and plant construction and guarantees the operation of essential industrial processes at high temperatures. In addition, the increased chemical resistance permits use in the food-processing industry, medical equipment, car wash systems and milling machines operating with natural oils.

The specially developed insulation and sheath combination of TPE P 4/11 makes OLFLEX[®] FD Robust outstandingly resistant against natural oil, softeners, cooling and liquid agents as well as acid, caustic soda and solvents (for example alcohol and glycol) at room temperatures, and has a considerably longer service life than PVC or PUR sheathed cables. This prevents expensive downtime and assures reliable operation of machinery and equipment where the cable is installed. P 4/11 is weatherproof and UV resistant, therefore OLFLEX[®] FD Robust is suitable for outdoor use in temperatures down to -40°C.

A copper braided screened version is also available, OLFLEX[®] FD Robust C, for protection against electrical interference.

For further information, or if you have any comments or feedback, please contact us at one of the following:

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