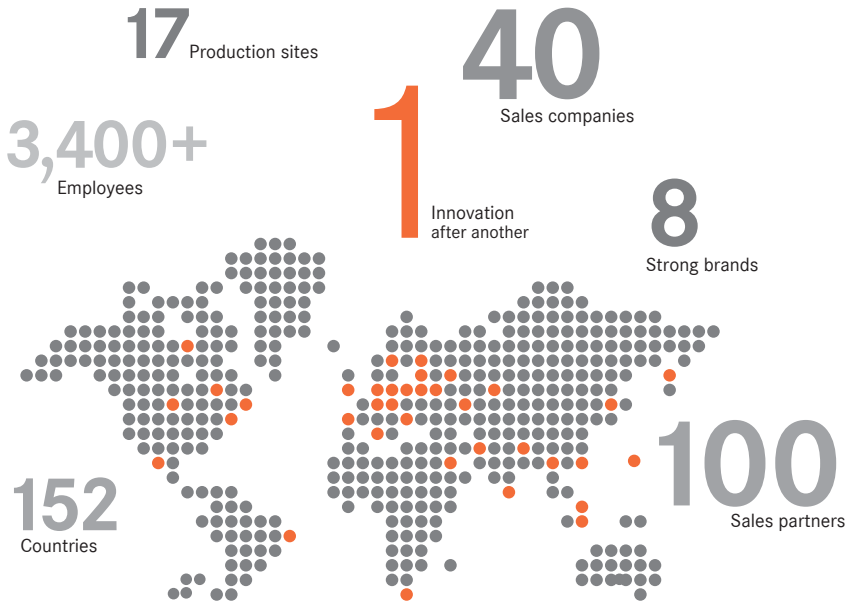


# THE WORLD OF LAPP

Textile Industry



# LAPP GROUP



## Reliably connecting the world

Headquartered in Stuttgart, Germany, the Lapp Group is a leading supplier of integrated solutions and branded products in the field of cable and connection technology. The Group's portfolio includes standard and highly flexible cables, industrial connectors, customized system solutions, automation technology and robotics solutions for the intelligent factory of the future, as well as technical accessories.

As a manufacturer with our expertise in the development, design and manufacture of cables, system products and cable accessories, we can guarantee that Lapp will provide you with the quality that you require and demand for.

You can always rely on quality from Lapp – wherever you are in the world.

## LAPP INDIA



## Reliably connecting India

Lapp India is a 100% subsidiary of the Lapp Group. Having started its operations in 1996, Lapp India provides about 140,000 km per year of power, control, instrumentation and data cables along with connectors, accessories and EndtoEnd Systems to over 5500 active customers pan India. Our customers are spread across different industry segments such as automation, textile, automotive, machine tools, oil and gas, renewable energy, process industries, as well as in the infrastructure and building sectors.

- 23 Sales offices close to customers all over India & 5 service points
- 300+ employees committed to best serve customers
- Strong network of 180 dealers
- 2 manufacturing units - Bangalore and Bhopal
- 5 Warehouses
- State of the art laboratory
- Fully fledged Innovation and Engineering Centre

## OUR BRANDS





The textile industry being one of the oldest industries in the Indian economy, has been growing at a rapid pace, contributing 4%\* to India's GDP. Presently, the market share of Indian exports for textile machinery accounts 10%\* and that of fabric & garment accounts as high as 63%\*. Estimated at around US\$ 137 billion\* in 2016, it is expected to reach US\$ 223 billion\* by 2021. Furthermore, by 2020, the textile machinery sub segment is likely to reach 35000 Crore\* due to various government initiatives such as Make in India.

The key processes of the textile industry include ginning, fibre cleaning & preparation, spinning, weaving & knitting, fabric and garments processing. For these processes, the cabling and connectivity products and solutions should be slim, light weight, highly flexible, durable, fire retardant and such that performs under high temperature and harsh environment conditions. Our OLFLEX® CLASSIC 110 CY and Classic 110 Black CY cables, are ideal for drive and motor applications in knitting, spinning and

dyeing machinery for their lossless transmission and superior performance even in the poorest weather conditions. Lapp offers an array of integrated solutions and branded products in the field of cable and connection technology such as cables for power, control and data applications, connectors, cable glands, conduits and accessories.

Lapp offers its customized plug and play cable assembly solutions, OLFLEX® CONNECT, that help meet industry challenges. These solutions range from cable or custom servo assemblies to complex drag chain applications. The high performance and robust industrial connectors, EPIC® SMART, exclusively designed for the Asean market are waterproof, temperature resistant and can undergo 500 cycles of mechanical operations. With this aim to provide high quality and reliable products and solutions, we are always ready to embark on the journey of this ever-growing industry.

\*Source: IBEF

## ÖLFLEX® CLASSIC 110 CY

Screened PVC control cable with transparent outer sheath



- Space-saving installation due to small cable diameters
- Flame-retardant according IEC 60332-1-2
- Good chemical resistance,
- High degree of screening low transfer impedance



## ÖLFLEX® 100 I

Flame retardant: In acc. IS 10810-53/IEC 60332.1



- IS 694 approved, ISI marked 1.1Kv multicore cable
- Available in FR-LSH / UV / AR
- Used in dry, damp and wet atmosphere



## ÖLFLEX® SERVO 2YSLCY-JB

EMC-optimised motor cable, low-capacitance, double screened



- EMC-optimised design
- High power transmission for large drives
- Flame-retardant according IEC 60332-1-2



## ÖLFLEX® CLASSIC FD 810

Highly flexible control cable with PVC core insulation and PVC sheath



- Core Line for ordinary duty in power chain applications
- Low particle emission at moved chain application
- Flame-retardant according IEC 60332-1-2
- Low-adhesive surface



## ÖLFLEX® CLASSIC 110

VDE-registered oil-resistant PVC control cable for a wide range of applications



- VDE certificate of conformity with factory surveillance
- Flame-retardant
- Good chemical resistance
- Oil-resistant



## ÖLFLEX® CLASSIC 110 BLACK 0,6/1 kV

Flame-retardant according IEC 60332-1-2



- Good outdoor performance
- UV and weather-resistant according to ISO 4892-2
- Ozone-resistant according to EN 50396



## ÖLFLEX® UNIPLUS

Single core wires, 1100 voltage grade as per IS 694 for industrial applications



- Better amperage ratings
- Higher conductivity
- Insulation of PVC type A, with additional LAPP special properties
- Flame retardant as per IS 10810-53/IEC 332.1



## UNITRONIC® SPIRAL

Spiral cable with outer PUR sheath and overall shielding for exact impulse transmission



- Secure against electrical interferences
- PUR outer sheath
- Abrasion and cut-resistant
- Very high flexibility



## UNITRONIC® LIYCY (TP)

Screened data transmission cable with colour code acc. to DIN 47100 and twisted pairs



- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)
- Overall braid minimises electrical interference
- Good protection against capacitive interference from electric fields
- Flame-retardant according IEC 60332-1-2



## UNITRONIC® BUS CAN

CAN = Controller Area Network



LAPP KABEL STUTTGART UNITRONIC® BUS CAN

- Fixed installation
- Maximum bit rate: 1 Mbit/s for 40 m segment length
- Larger conductor cross-section is necessary with increasing length



## ETHERLINE® Cat.6<sub>A</sub>

Fixed installation



LAPP KABEL STUTTGART ETHERLINE® Cat.6<sub>A</sub> Y

- PUR outer sheath is highly resistant to mineral oils and abrasion
- Robust, halogen-free outer sheath
- The oil-resistant PVC sheath enables usage in industrial environments
- High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference



## EPIC® SMART

The high performance industrial connector



- Fully compatible with market standards
- For the conductor cross-section 0.5 to 2.5 MM<sup>2</sup>
- Standard inserts with screw termination for easy assembly

## SKINTOP® MS-SC-M

With innovative double lamella gasket for easier assembling of cables with large diameters



- Low-resistance screen contact, optimum EMC protection
- Highly conductive, flexible EMC contact for clamping various screen diameters
- Measurement and control technology



## SKINTOP® ST-M

Proven to withstand the most demanding cleaning procedures for industrial machinery with high-pressure cleaners and hot water!



- High oil-resistance for maximum reliability
- Permanent vibration protection
- Wide, variable clamping ranges



## SILVYN® RILL PA6

Dimensionally stable



- Flexible
- High flame-retardance and self-extinguishing
- Crush-resistant
- Lightweight



## SERVO cables in acc. to SIEMENS® Standard 6FX 5008

Motor and resolver/encoder cables - certified



- Motor & servo motor cables up to 6 mm<sup>2</sup>: low capacitance characteristics due to PP insulation
- Multi-standard certification reduces part varieties and saves costs
- Oil resistance



## Cable Accessories



- High-quality electrolytic copper ensures a good crimping quality
- Can be installed via cable glands, allowing pre-assembly

# LEGEND



Suitable for outdoor use



Good chemical resistance



Flame-retardant



Wide clamping range



Halogen-free



Heat-resistant



Cold-resistant



Corrosion-resistant



Maximum vibration protection



Mechanical resistance



Quantity



Minimum lever action



Assembly time



Low weight



Oil-resistant



Optimum strain relief



Space requirement



Power chain



Clean room



Robust



Acid-resistant



Reliability



Integrated SKINTOP® cable gland



Voltage



Connector with standard housing unit



Interference signals



Temperature-resistant



Torsion-resistant



Torsion load



UV-resistant



Waterproof



Variety of approval certifications



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