

ÖLFLEX®

keeps the world moving





"In Germany, we know that you need innovative products to set international standards."

Barbara Welscher, Lapp Kabel Stuttgart, presents ÖLFLEX®, the connection and control cable that has been setting standards for 50 years.

Dear readers!

In the 1950s, the upswing in industrialization generated massive demand for cables. With great **PASSION**, company founder Oskar Lapp addressed the challenge of finding a solution to the task he had set himself: “How can I optimize the current method – the time-consuming manual inserting of single cores and switching strands into the outer sheaths?” He discovered the answer in **1959** with the first industrially manufactured flexible control cable with color coding – **ÖLFLEX®**.

Ever since, the influence exerted by this cable brand has grown hand-in-hand with the Lapp Group. Within 50 years, a small **INNOVATIVE** company from Stuttgart developed into a **MARKET LEADER** in cables, accessories and connectors with operations **WORLDWIDE**. Today, 3,000 employees across the globe develop, manufacture and sell more than 40,000 products. With 17 manufacturing sites, 39 company-owned sales operations, more than 100 foreign representations and headquarters in Stuttgart, the Lapp Group is everywhere you need us to be.



Read on to discover the wonders of ÖLFLEX®!

Best wishes,
The Lapp family

A handwritten signature in black ink, appearing to read 'A. Lapp'.

Andreas Lapp

A handwritten signature in black ink, appearing to read 'U. I. Lapp'.

Ursula Ida Lapp

A handwritten signature in black ink, appearing to read 'S. E. Lapp'.

Siegbert E. Lapp



1959

Oskar Lapp founds U.I. Lapp KG (now U.I. Lapp GmbH) – invention of ÖLFLEX®



1963

Foundation of Lapp Kabelwerke GmbH in Stuttgart – ÖLFLEX® is produced in large quantities



1970

U.I. Lapp KG, Stuttgart, in the early 1970s

1976

Expansion USA: Foundation Olflex Wire & Cable Inc., New Jersey



1979

A view of the inside of Lapp Kabelwerke GmbH, Stuttgart



1980

ÖLFLEX® learns English – foundation of Lapp Ltd. in London

1963

The Beatles achieve their major breakthrough

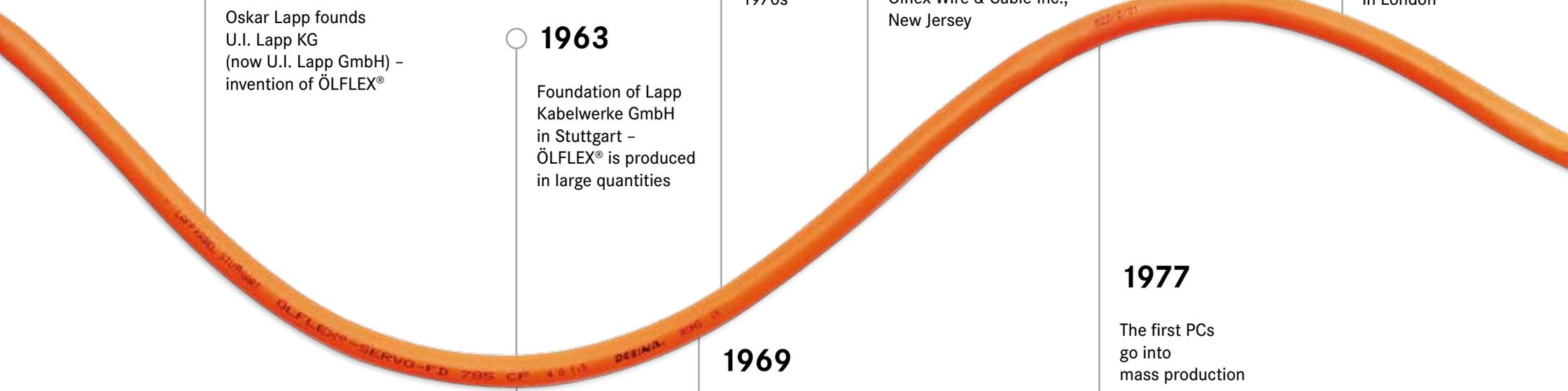
1969

The moon landing



1977

The first PCs go into mass production





1983

Lapp Kabelwerke GmbH in Stuttgart



1990

Production of ÖLFLEX® begins in France – opening of Cablerie Lapp S.A.R.L. in Forbach



1995

ÖLFLEX® in Asia – foundation of Lapp Logistics in Singapore



1997

ÖLFLEX® arrives in India – opening of Lapp India Pvt. Ltd. in Bangalore

2003

ÖLFLEX® reaches the “new” eastern states – companies founded in Russia and Ukraine



2009

ÖLFLEX® turns 50 – Happy Birthday!

2006

ÖLFLEX® in the Middle East – Lapp Middle East founded in Dubai

To be continued ...

1983

Invention of the cell phone



1989

The World Wide Web was born

1989

The fall of the Berlin Wall

2002

The euro is introduced

1997

The Pathfinder probe lands on Mars and transmits images back to Earth





50 years of ÖLFLEX® – In action across the globe

In the access shaft of the Pyramid of Cheops, salt-resistant Lapp ÖLFLEX® cables ensure the air conditioning system of this wonder of the world operates smoothly.

Photo: fotolia



Bad Münstereifel, Germany, is home to the Effelsberg radio telescope, one of the largest of its kind. The motors that steer the telescope are powered using ÖLFLEX® connection and control cables.

Photo: Lapp Kabel Stuttgart





Towering to a height of 178 m and with a diameter of 150 m, the Singapore Flyer is the ultimate visitor attraction in Singapore. What's more, the over 30 km of halogen-free ÖLFLEX® cables will release no toxic fumes in the event of fire.

Photo: Singapore Flyer Pte Ltd.

ÖLFLEX® ROBOT cables are not only highly flexible, they are also torsion-resistant. This makes them ideal for operating industrial robots.

Photo: Dürr AG



When it comes to large-scale paper manufacturing machines, a range of ÖLFLEX® cables ensures that everything works just as it should!

Photo: Fa. Voith

More and more fairground rides across the globe are putting their trust in ÖLFLEX® cables. And with good reason – after all, safety always comes first.

Photo: Europa-Park Rust



ÖLFLEX® cables are installed in many wind turbines. ÖLFLEX® WIND is a cable specially designed to deal with the high torsional forces that occur at the crossover from the nacelle to the tower.

Photo: Multibrid GmbH

Key industries and areas of application

- Mechanical engineering
- Drive engineering
- Automation and network technology
- Robotics
- Commercial vehicles
- Traffic engineering
- Stage technology
- Conventional and renewable energies
- Chemical industry
- Food industry
- Telecommunications
- Instrumentation and control engineering



ÖLFLEX® ROBUST cables are used in car washes. This cable is particularly suited to environments exposed to high temperatures, damp, dirt and chemicals.

Photo: Otto Christ AG

The solar park in Bovera, Spain, covers 24,700 m², contains 5,400 solar modules and generates 1,440 megawatt hours of electricity. 20 km of ÖLFLEX® SOLAR cables were installed here to ensure the park operates perfectly.

Photo: Wirsol Solar AG





“In my Singapore, the night shines bright and safe.”

May Ngan, JJ-Lapp Cable Singapore, presents ÖLFLEX®, the connection and control cable that is also available halogen-free for more safety.

50 years of ÖLFLEX® – A passion for innovation

1959	ÖLFLEX®	With colored cores and PVC outer sheath	1992	ÖLFLEX® ROBOT	For high bending and torsional loads in the robotics industry
1970	ÖLFLEX®	Numbered cable with numbered cores	1993	ÖLFLEX® QUATTRO	Multi-standard cable with UL/CSA, VDE and SEV approvals
1972	ÖLFLEX® CY	Copper braiding prevents the effect of electromagnetic influences	1994	ÖLFLEX® TRUCK	Special cables for the commercial vehicles sector
1976	ÖLFLEX® 450 P	Cable for hand-held devices with tough, abrasion-resistant polyurethane outer sheath	1998	ÖLFLEX® CLASSIC	Thinner outer sheaths and core insulation to provide a high level of flexibility and electric strength
1977	ÖLFLEX® LIFT	First elevator control cable with hemp load-supporting device for improved strain relief	2002	ÖLFLEX® SOLAR	Range of cables for the photovoltaic industry
1983	ÖLFLEX® FD	Highly-flexible PVC cable for drag chain applications	2004	ÖLFLEX® ROBUST	All-weather cable for use in environments exposed to oils, chemicals, coolants, lubricants and water
1980	ÖLFLEX® SERVO	Universal cable for power transfer and temperature monitoring in servo motors	2005	ÖLFLEX® TRAFFIC	Range of halogen-free cables for railed vehicles and buses
1984	ÖLFLEX® halogen-free	Flame-resistant cable that releases no toxic gases into the environment	2007	ÖLFLEX® WIND	Special cables for wind power systems exposed to high torsional forces
1985	ÖLFLEX® SF	Cable for hand-held devices with ultra-flexible strands and cold flexible PVC core and outer sheath insulation	2009	ÖLFLEX® RFID	Lapp products learn to speak, thanks to RFID



50 years of ÖLFLEX® – A personal connection to the brand



Armin Hess
Managing
Director
U.I. Lapp GmbH
Germany

For me, one of the most exciting projects was the installation of a tsunami early warning system at the Geiranger Fjord in Norway. A massive chunk of rock is threatening to fall into the fjord – if it did, it would trigger a tsunami. We installed a particularly weather-resistant cable as part of this project.”

Dr. Iris Bögel
Key Account Manager
U.I. Lapp GmbH



“ÖLFLEX® has helped me scale new heights. With temperatures below zero, a colleague and I used a lift and ladders to clamber to the top of the narrow tower of a 150 meter-high wind power system where our cables were in use. To round off this experience in truly breathtaking style, the customer invited us to go out onto the roof of the nacelle. We gathered all our courage and were at least brave enough to poke our upper bodies out of the nacelle!”



Rick Orsini
Senior Product Manager ÖLFLEX®
Lapp USA Inc., U.S.

“Lapp cables represent a high quality, flexibility and oil resistance. When I recommend ÖLFLEX®, I know that this brand of cable will far exceed our customers’ expectations. My wife often jokes that my blood is Lapp orange. She may well be right...”



“ÖLFLEX® cables are the lifelines of industry today. I particularly remember a contract to construct a new cement factory in Saudi Arabia. This project required cables that would not be damaged by termite bites. Within six to eight weeks, we produced 110 kilometers of cable in 30 different sizes with an additional copper shield.”

Klaus Dinter
Former Sales Manager
U.I. Lapp GmbH,
Germany



“At the moment, my most interesting project involves the London buses. By mid 2009, all 8,208 buses will have been fitted with halogen-free ÖLFLEX® connection and control cables. These cables offer added safety because they are extremely flame resistant in the event of fire.”

Philip Jones
Regional Sales Manager
Lapp Limited, U.K.

“I vividly remember having the chance to enter the main reflector (100 meters in diameter) of the second-largest fully steerable radio telescope in the world near Bad Münstereifel. ÖLFLEX® plays a crucial role in the electric and electronic systems of this 3,600 ton giant.”

Volker Huber
Product Manager Cables
U.I. Lapp GmbH, Germany



50 years of ÖLFLEX® – Records and superlatives

> 100

Number of patents registered by Lapp since 1957: >100

The K2 base camp in the Himalayas is the highest point in the world where Lapp cables have been used: 5,100 meters above sea level

5,100

The smallest diameter of copper wire used in Lapp cables: 0.18 millimeters

0.18

40,139

Number of products in Lapp's global supply portfolio: 40,139

Largest diameter of a Lapp cable: 30 centimeters

30

-46

The lowest recorded temperature with Lapp cables, measured during the Himalaya expedition in winter 2003 before the thermometer froze: -46° Celsius

44,000

Total length of cables being laid in the new Airbus A380: 44,000 meters

The temperature at which Lapp cables are tested for heat resistance: 700 degrees Celsius

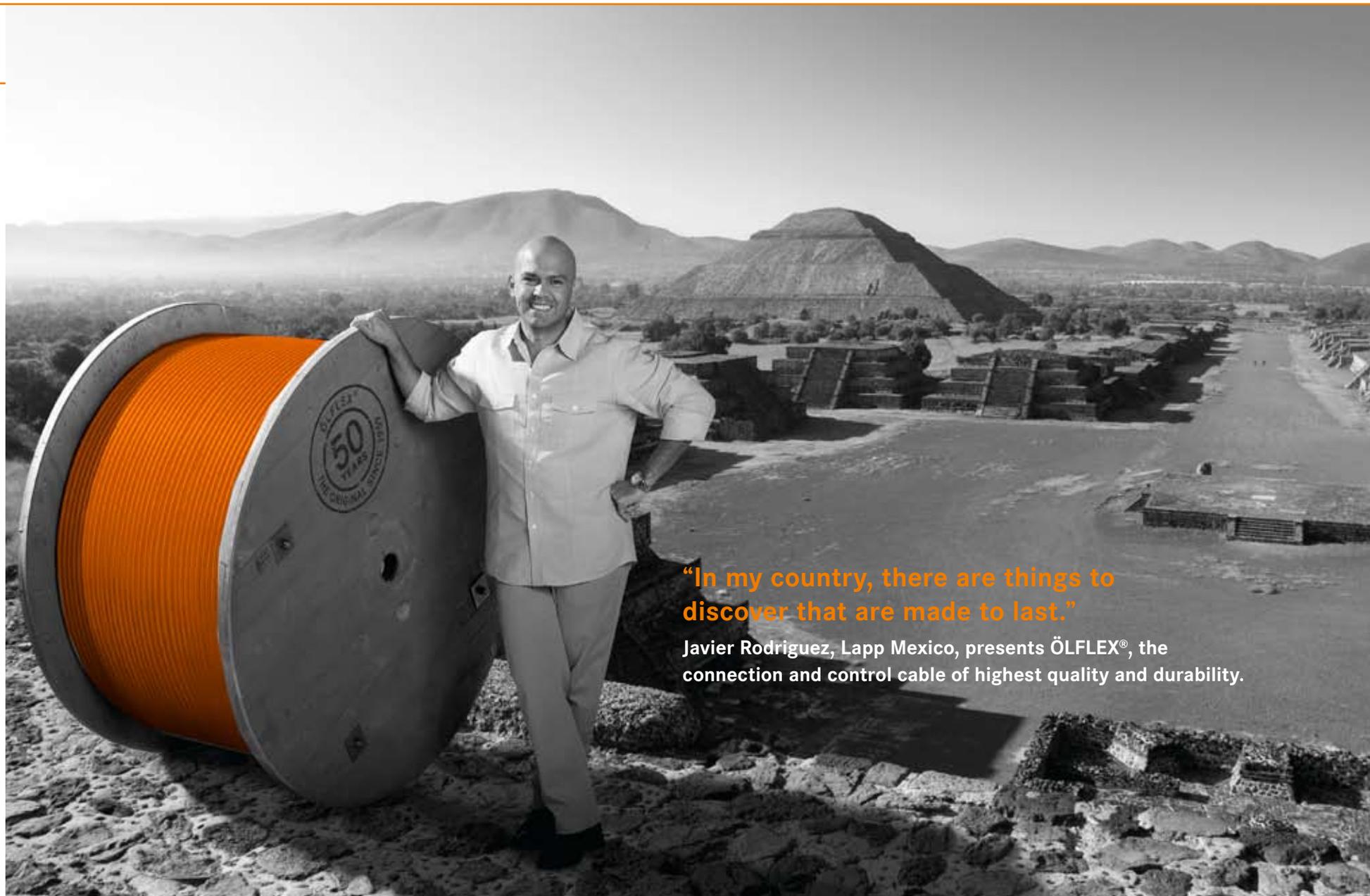
700

34,000 kilometers of Lapp cables were ordered for the construction of the new metro in New Delhi

34,000

2580

The oldest site where ÖLFLEX® is in use is the Pyramid of Cheops in Giza, which dates back to approximately 2580 B.C. The cables ensure the air conditioning system of this wonder of the world operates smoothly



“In my country, there are things to discover that are made to last.”

Javier Rodriguez, Lapp Mexico, presents ÖLFLEX®, the connection and control cable of highest quality and durability.

The cover page features seven employees from various countries in the Lapp Group rolling a massive ÖLFLEX® cable drum across the Schlossplatz in Stuttgart. India's Taj Mahal, the Leaning Tower of Pisa, New York's Statue of Liberty and other monuments rise up imposingly behind the Neues Schloss (New Castle). This montage of images symbolizes the tremendous worldwide success achieved by cable brand ÖLFLEX®.

Lapp Holding AG

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