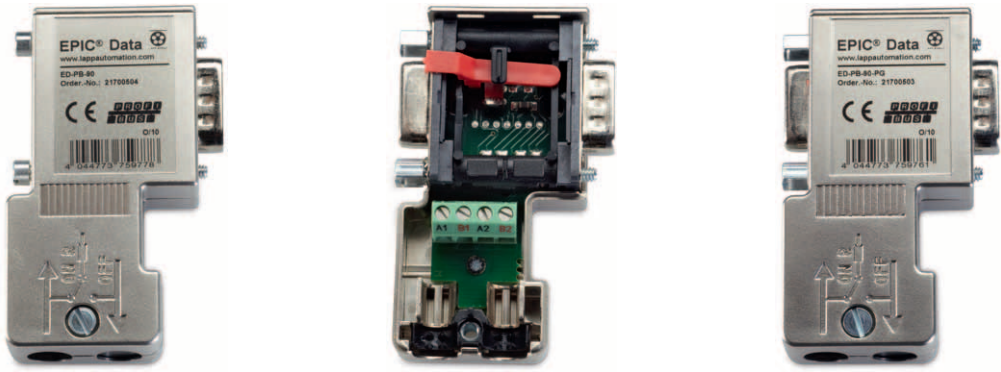


AUTOMATION & NETWORK AT A GLANCE

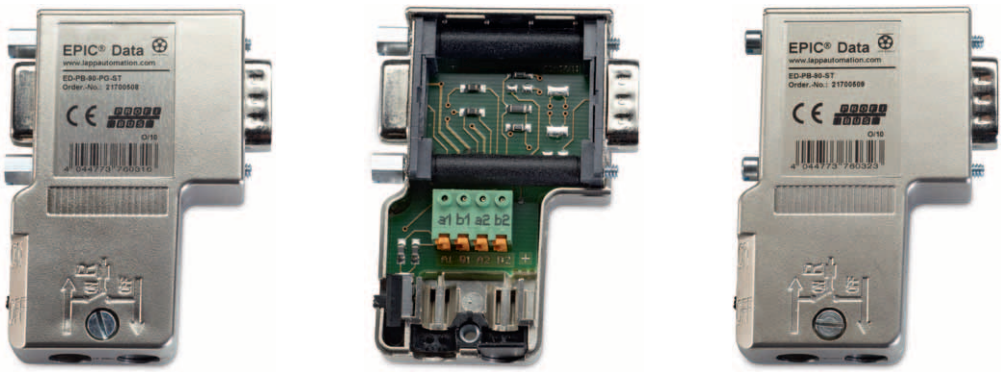
EPIC® Data



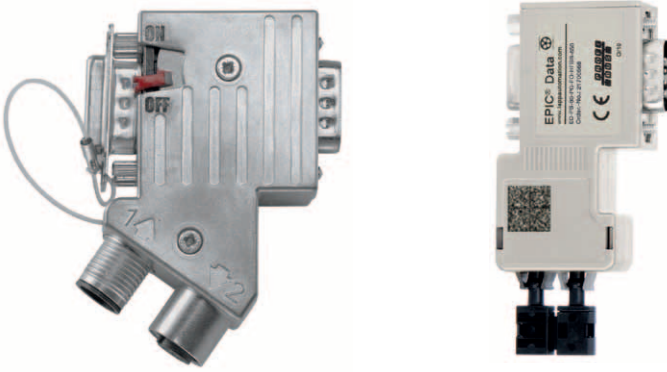
EPIC® Data PROFIBUS Connectors 90° Screw Terminals **5b**



EPIC® Data PROFIBUS Connectors 90° M12 **5b**

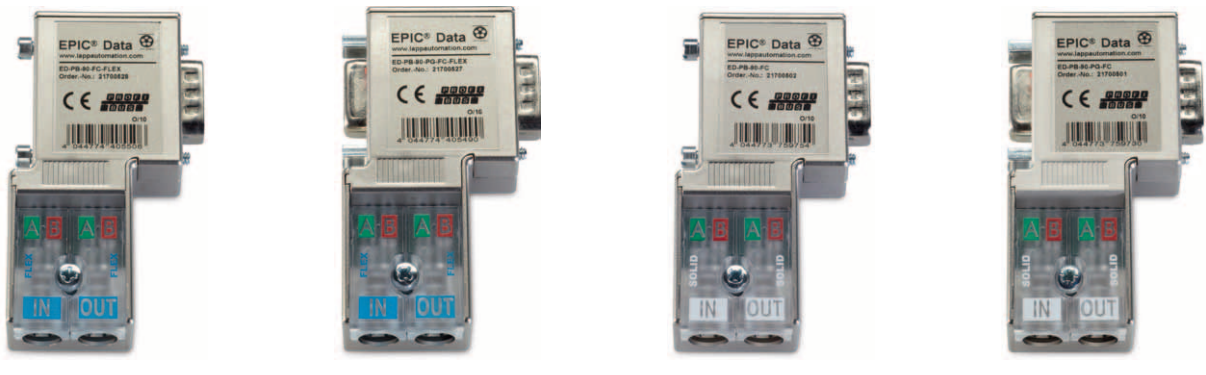


EPIC® Data PROFIBUS Connectors 90° Spring type **5b**



EPIC® Data PROFIBUS Connectors 35° M12 full-metal **5b**

EPIC® Data optical link module **5b**



EPIC® Data PROFIBUS Connectors 90° Fast Connect **5b**

UNITRONIC® BUS

LAPP KABEL STUßGART UNITRONIC® BUS PB
UNITRONIC® BUS PB – PROFIBUS **8**

LAPP KABEL STUßGART UNITRONIC® BUS PB FD P FC
UNITRONIC® BUS PB FD P FC – PROFIBUS high flexible **6**

LAPP KABEL STUßGART UNITRONIC® BUS PB FESTOON
UNITRONIC® BUS PB FESTOON – PROFIBUS **9**

LAPP KABEL STUßGART UNITRONIC® BUS PB TORSION
UNITRONIC® BUS PB TORSION – PROFIBUS **4**

LAPP KABEL STUßGART UNITRONIC® BUS CAN
UNITRONIC® BUS CAN – CAN and CANopen **8**

LAPP KABEL STUßGART UNITRONIC® BUS CAN FD P
UNITRONIC® BUS CAN FD P – CAN and CANopen high flexible **6**

LAPP KABEL STUßGART UNITRONIC® BUS ASI FD
UNITRONIC® BUS ASI FD – AS-Interface high flexible **6**

LAPP KABEL STUßGART UNITRONIC® BUS ASI
UNITRONIC® BUS ASI – AS-Interface **5**

LAPP KABEL STUßGART UNITRONIC® BUS ASI
UNITRONIC® BUS ASI – AS-Interface **5**

LAPP KABEL STUßGART UNITRONIC® BUS ASI
UNITRONIC® BUS ASI – AS-Interface **5**

HITRONIC®

HITRONIC® POF DUPLEX PE **8**

LAPP KABEL STUßGART HITRONIC® POF DUPLEX PE-PUR
HITRONIC® POF DUPLEX PE-PUR **8**

HITRONIC® HDM Reel **7**

HITRONIC® HQN Outdoor **1**

HITRONIC® HQW Armoured Outdoor **1**

HITRONIC® HUN Universal **1**

HITRONIC® HRH Breakout **2a 2b**

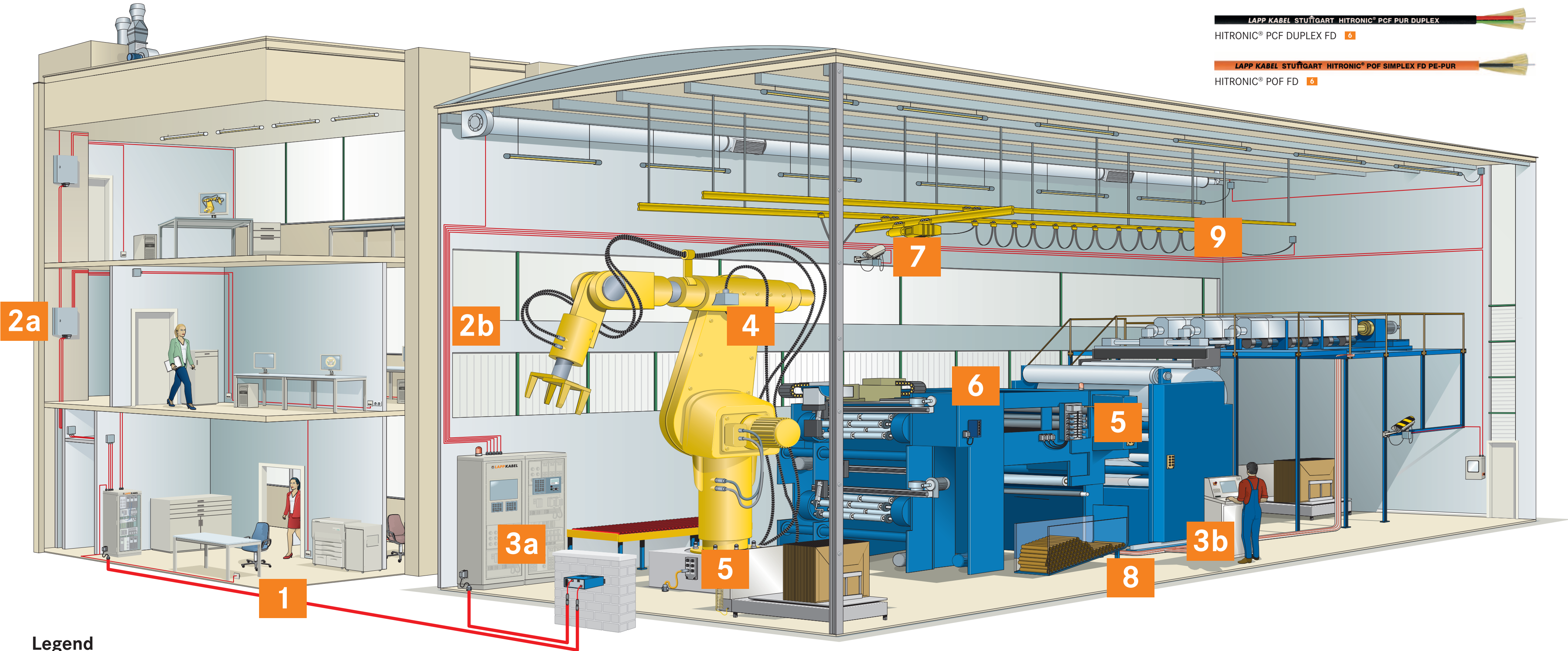
HITRONIC® HDH Mini Breakout **2a 2b**

GOF Patchcord **3a**

HITRONIC® HRM-FD (Flexible) **6**

LAPP KABEL STUßGART HITRONIC® PCF PUR DUPLEX
HITRONIC® PCF DUPLEX FD **6**

LAPP KABEL STUßGART HITRONIC® POF SIMPLEX FD PE-PUR
HITRONIC® POF FD **6**



Legend

1 = Interbuilding network/campus network

2b = Intrabuilding network distribution

3b = Control station

5 = S/A distribution

7 = Surveillance network

9 = Festoon application

2a = Floor network distribution

3a = Main network server

4 = Robotics

6 = Drag chain

8 = Intermachine cabling

Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® Fieldbus



BUS M12 connectors that can be assembled **5a 5b 6 8**



Field mountable S/A connectors M12 **5**



AS-Interface Distributor **5**



S/A cable: M12 connector on M8 socket **5**



S/A cable: M12 socket on free conductor end **5**



S/A M12 flush-type connectors with M16 fastening thread **5a 5b**



PROFIBUS I/O Modules **5**



CANopen I/O Modules **5**



AS-Interface I/O Modules (IP67) **5**



S/A-box with M12 slots and master cable **5**



AS-Interface I/O Modules (IP30) **5**

ETHERLINE®

LAPP KABEL STUßGART UNITRONIC® LAN 1000 MHz S/FTP CAT.7 PE 4x2x23AWG/1
UNITRONIC® LAN OUTDOOR **1**

LAPP KABEL STUßGART UNITRONIC® LAN S/FTP 1000 MHz Cat.7
UNITRONIC® LAN 1000 S/FTP Cat.7 **2a**

LAPP KABEL STUßGART UNITRONIC® LAN 200 MHz F/UTP CAT.5e Y 4x2x23AWG/2
UNITRONIC® LAN FLEX **2a**

LAPP KABEL STUßGART UNITRONIC® LAN S/FTP 1500 MHz Cat.7A
UNITRONIC® LAN 1500 S/FTP Cat.7A **2a**

LAPP KABEL STUßGART ETHERLINE® P CAT.5e
LAPP KABEL STUßGART ETHERLINE® FD P CAT.5e
ETHERLINE® Cat.5e FD 2-pair/4-pair **6 7**

LAPP KABEL STUßGART ETHERLINE® Y FC CAT.5
ETHERLINE® PN Cat.5 **3a 3b**

LAPP KABEL STUßGART ETHERLINE® PN CAT.5 Y FLEX FC
ETHERLINE® PN Flex **3a 3b 8**

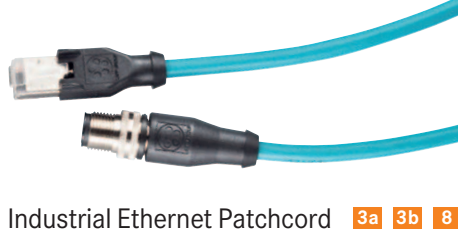
LAPP KABEL STUßGART ETHERLINE® P FLEX CAT.5e
LAPP KABEL STUßGART ETHERLINE® P FLEX CAT.5e
ETHERLINE® Cat.5e Flex 2-pair/4-pair **2b 3a 3b 8**

LAPP KABEL STUßGART ETHERLINE® H CAT.5e
LAPP KABEL STUßGART ETHERLINE® P CAT.5e
ETHERLINE® Cat.5e **2b 6**

LAPP KABEL STUßGART ETHERLINE® FD P FC Cat.5
ETHERLINE® PN Cat.5 FD **6**



ETHERLINE® CAT.6 FD **6**



Industrial Ethernet Patchcord **3a 3b 6**



Module RJ45 fieldmountable **3a 3b 6**



Connector RJ45 Cat.6 fieldmountable **3a 3b 6**



LAPP GROUP

www.lappgroup.com

Firmly established:
the Lapp Group

3,000 employees worldwide, 15 production sites around the globe, 41 sales companies and around 100 local branches abroad - when it comes to the size and importance of a company, numbers often speak louder than words.

Despite all this international growth, the consortium founded in 1959 is to this day family-owned - and based in Stuttgart, where it was founded.

We are one of the leading providers of integrated solutions and branded products for cable and connection technology based in Germany. We are also the leading provider of the right solution for virtually every application: whether it be simply cable or highly flexible cable, industrial connectors or screw technology, customised system solution, automation technology or technical accessories.

Trust is good. Testing is better.

Welcome to the Lapp lab

In the Lapp laboratory, newly developed products are put through their paces. While products are also checked on the test bench in Stuttgart, whether it be inspections on cables, cable glands or connectors.

Example: In order to ensure reliable use in drag chains or robots, our highly flexible cables are tested here for their suitability for continuous flexing uses.

You make demands – we provide the answer

Your demands are as high as ever – our developments fulfil even the highest quality requirements. Because our branded products – varied as they may be – always include two inherent components: expertise and innovation.



Recipe for success – in-house production

Our developments also belong to us. That's why we manufacture our products at Lapp Group locations. We focus on our own goals and ensuring competence at 15 production sites worldwide – whether in America, Europe or Asia.

For us, good is not good enough. We ourselves are our sharpest critics. Our products are therefore subjected to unique quality standards, which go far beyond the generally applicable standards in the industry. This is how we ensure our customers always get the best quality.

Customised tests for all

Special applications require special test runs. We are delighted to put your products through the tests and challenges you want. This ensures that you get the right answer for your individual demands.

Automation & Network made by Lapp



Brand quality from Stuttgart



ÖLFLEX®

Power- and control cables

The world's first brand cable is available in the most varied of versions to match maximum requirements.

Key features: Oil-resistant, flexible and available to match almost any requirement for environmental condition – also free of halogen. High energy efficiency. EtherCAT® and EtherNet/IP® are also part of the extensive product range.

Fields of application: Multipurpose. Special variants are more and more in demand in the area of renewable energies.



EPIC®

Industrial connectors

The brand for strong and reliable connections.

Key features: Robust square and circular connectors. Flexible system consisting of housings, inserts, contacts and accessories for energy requirements and motor-made solutions. High energy efficiency. EtherCAT® and EtherNet/IP® are also part of the extensive product range.

Fields of application: Mechanical and systems engineering, drive technology, Automation.



SKINTOP®

Cable glands

The brand for multipurpose cable entries in line with the following: quickly fastened, centred and hermetically sealed.

Key features: Larger clamping areas, optimum strain relief, the most diverse of materials. High energy efficiency. EtherCAT® and EtherNet/IP® are also part of the extensive product range.

Fields of application: Everywhere, where cables must be fastened reliably and quickly.



UNITRONIC®

Data communication systems

The ideal brand for fast, trend-setting and reliable data transfer.

Key features: UNITRONIC® are not only data lines, but also bus lines, which together with active sensor/actuator modules or passive components provide a perfect system for automation. High energy efficiency. EtherCAT® and EtherNet/IP® are also part of the extensive product range.

Fields of application: Measurement, control, regulation, bus or LAN networks.



ETHERLINE®

Data communication systems

The brand for network solutions, safety systems and firewalls in the industrial network sector.

Key features: System solutions consisting of hardware, software, consulting, network design and support.

Fields of application: Factory automation, Process engineering, Building technology, Structured cabling.



SILVYN®

Protective cable conduits

The brand for all-round cable protection.

Key features: The product range includes SILVYN® cable protection hoses for perfect protection against mechanical and chemical loads, along with SILVYN® CHAIN energy supply chains for highly-dynamic applications. High energy efficiency. EtherCAT® and EtherNet/IP® are also part of the extensive product range.

Fields of application: Everywhere, that cables have to be additionally protected or routed.



FLEXIMARK®

Marking systems

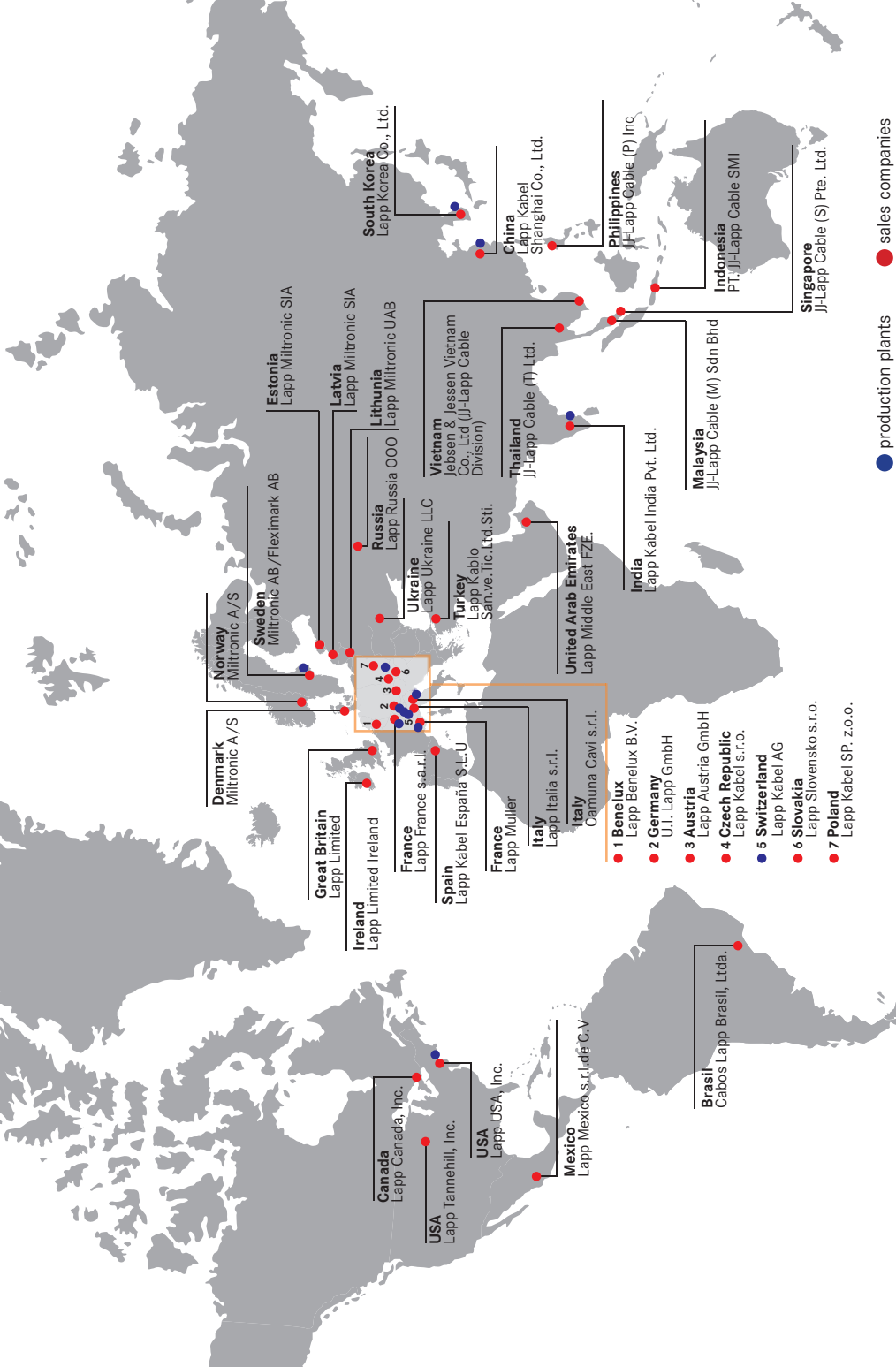
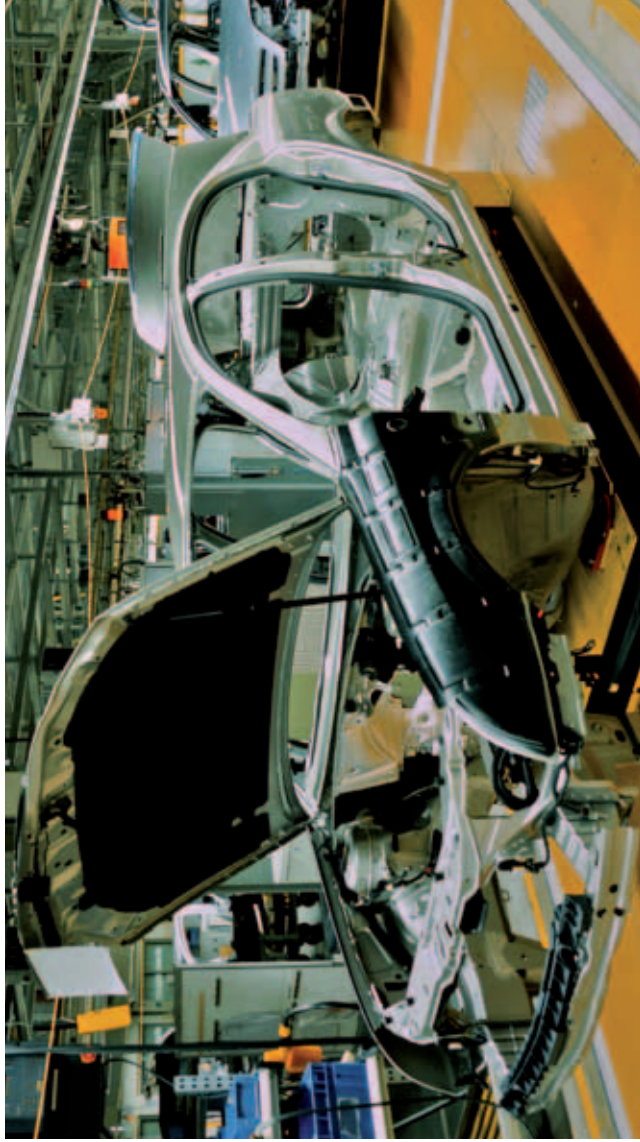
The brand for permanent, clearly-arranged cable data. High energy efficiency. EtherCAT® and EtherNet/IP® are also part of the extensive product range.

Key features: Comprehensive range – from manual labelling solutions onto digital identification. Withstands high chemical, thermal and mechanical loads.

Fields of application: All cable, single cores, control cabinets.

What we're best at testing:

- Heat, cold and climate tests
- IP Protection Rating tests
- Static and dynamic pulling
- Resistance testing
- Application-related inspections
- Carrying out electrical tests
- Material analyses
- Climatic tests



At home in Stuttgart,
but known all over
the world

The World of Lapp is based in Stuttgart. This is where it all started for our company, which was founded in 1959 as U.I. Lapp KG (now U.I. Lapp GmbH). From its headquarters in Stuttgart we have increasingly evolved to become a global presence around the globe. With 15 high-tech production plants and 41 sales companies in Europe, Asia and America, more than 100 sales partners and 3,000 employees. The larger Lapp companies such as Russia, India, China, Canada and Mexico have their own warehouses. The others are promptly supplied with goods from our plants in Europe. This enables us to offer our customers in exploring markets professional logistics concepts. At Lapp Centres we are also strongly committed to enhancing the knowledge of our employees and customers. After all, knowledge is the ink with which the future is written down.

One of our most successful "products" is that of proximity to our customers. On the one hand, we practice intensive dialogue with designers and planners, manufacturers and users. This enables us to identify new requirements and trends at a very early stage and to develop suitable solutions. Innovation leadership put into active practice.

Our current addresses see www.lappgroup.com/worldwide

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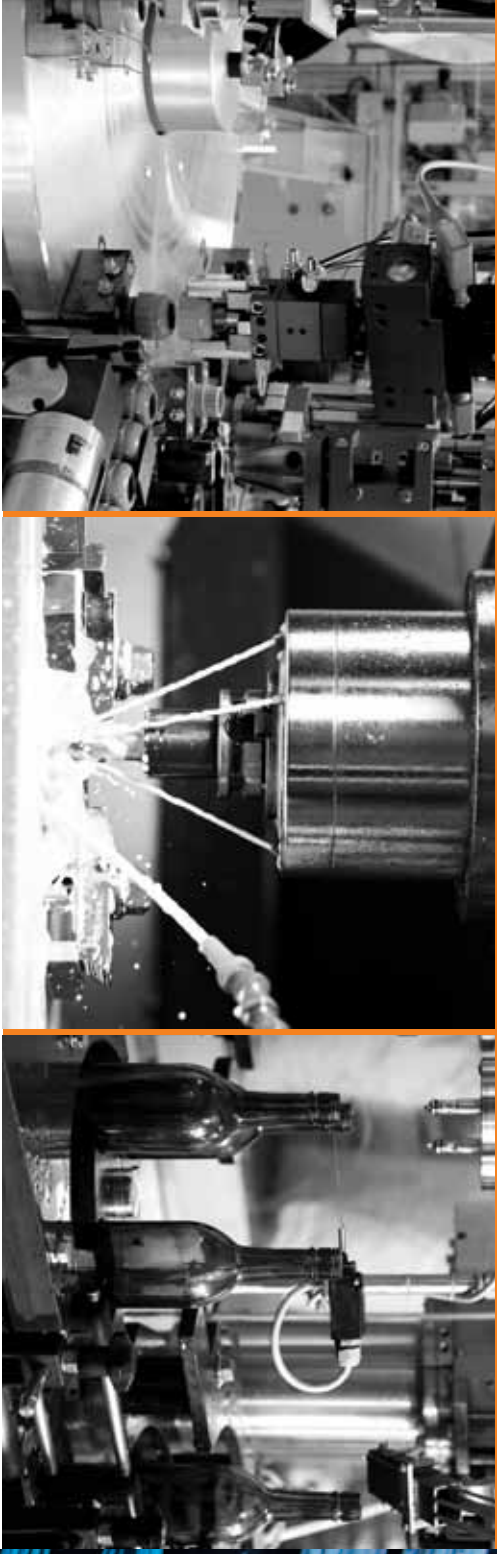
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www.lappgroup.com

To contact your local Lapp Group representative please visit www.lappgroup.com/terms



LAPP GROUP



THE WORLD OF LAPP

Automation & Network at a glance

ÖLFLEX®

UNITRONIC®

ETHERLINE®

HITRONIC®

EPIC®

SKINTOP®

SILVYN®

FLEXIMARK®