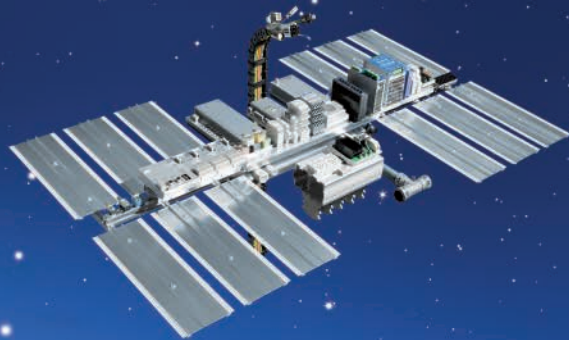


# Efficiency in Automation

Cable • Connectivity • Cabinet • Control



## LÜTZE News 2021



# Efficiency in Automation

## **Efficiency in Automation: This statement reflects our entire company philosophy**

As experienced specialists in Automation Technology with solutions for highly-flexible cables, cable manufacturing, interfaces, current monitoring and control cabinet wiring,

we have been focusing on efficiency for many years.

LÜTZE defines efficiency in the automation field as the use of sustainable products and solutions to further increase the performance of your plant.

This innovations flyer contains many

interesting examples of this.

**We are looking forward to your visit!**

## LÜTZE Sustainable Solutions

# LÜTZE *Sky*BLUE - Efficiency for environment

*Sky***BLUE**  
LÜTZE



For further info about our  
*Sky***BLUE**-campaign  
<https://bit.ly/32kR3GA>

**LÜTZE**   
SYSTEMATIC TECHNOLOGY

# Complete system for a better climate inside the control cabinet

LÜTZE's **AirSTREAM** is a complete system to optimise the thermal situation characteristics of the control cabinet modules.

Come to the LÜTZE stand and try out the **AirSTREAM Test + Simulation** to detect the various ways of reducing machine downtime and ensuring more energy efficiency in the control cabinet.

## 1. Recognising the problem:

- Hotspots and/or high power costs through the use of air conditioning
- Machine downtime
- Thermodynamic design considerations of the control cabinet



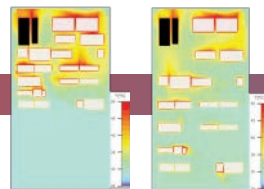
## 2. Discover differences:

- **AirTEMP** thermal simulation with different wiring types and cooling systems



## 3. Optimise:

- Thermally improved arrangement of the components
- Component density
- Component placement



# Less machine downtime and more energy efficiency

## 4. Climate inside the control cabinet:

- The use of the **AirBLOWER**
- Intelligent air guidance thanks to **AirBLADES**



## 5. Plan the control cabinet:

- Use of the free **AirSTREAM** online configurator



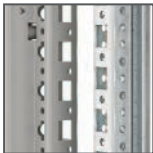
## 6. Find a solution:

- Longer lifecycle of the electrical components
- Power savings thanks to reduced energy requirements for air conditions
- Fewer machine downtimes
- Higher energy efficiency



**Time laps!**  
How to solve Hotspots  
with the **AirBLOWER**  
<http://bit.ly/2mMBwuY>

# NEW: *Air*STREAM Mounting rail SR032



**Perforated strip pattern**  
attachment using self-tapping  
screws in a 10 mm hole  
pattern



**Edge protection**  
Profile end piece  
with a cut-out



**Adapter bracket**  
for mounting the frame  
in the control cabinet



**Swivelling sliding nut and  
cage nut**  
Infinite attachment or lateral  
swiveling for fastening of  
brackets or components



***Air*TEMP heat calculation for  
the control cabinet:**  
[airtemp.luetze.com](http://airtemp.luetze.com)



**Video:** The improved design for better air circulation in  
the *Air*STREAM system ensures a better ambient  
temperature in the control cabinet.  
<http://bit.ly/2Evro6f>

# Time savings and flexibility when designing control cabinets

## 3 Fastening options:

- 1: Double screw connection
- 2: Self-tapping screw connection
- 3: Swivelling sliding nut



### Option 1

The double screw connection allows heavier loads to be attached to the modules



### Option 2

Fastening in a 10 mm hole pattern without gliding nuts



### Option 3

Pairing the bolt with the sliding nut inside the sliding nut groove allows fastening at any desired position

## Infinite possibilities

The LÜTZE wiring system has now perfected modularity with the introduction of the new **AirSTREAM** SR032 mounting rail.

This offers users infinite possibilities, freedom and flexibility in control cabinet design.



More Space and more flexibility  
in cabinet with **AirSTREAM**.  
<http://bit.ly/1amJY4A>



Video: Tutorial - comparison of  
installation time **AirSTREAM**  
mounting rails SR032 and VPSym

**LÜTZE**   
SYSTEMATIC TECHNOLOGY

# The new LOCC-Box

NEW



**improved Push-In technology**  
with greatly extended terminal  
cross-section

**Ergonomically** arranged blue  
actuators allow easy dismantling of  
the conductors.

**Innovation and efficiency -**  
new rounded design for better  
friction-free handling

**Trouble-free connection**

Conductor gauges up to 2.5 mm<sup>2</sup> with  
and without ferrules are possible

**reduced wiring effort**

due to improved supply module and  
proven bridge system

**additional LED functions**

that inform the user of the actual and  
target settings



# Optimized electronic current monitoring



**Housing has been streamlined  
by 8 mm**

for allow even more space and current  
flow in the control cabinet

**significantly improved hold on  
the DIN hat profile**

thanks to the spring integrated  
into the base of the module

**standardized test opening**  
for your measuring instruments

**The new LOCC-Box generation**

For many years, LÜTZE has continued optimising the successful LOCC-Box current control family to improve the ease of assembly, the connection technology and control cabinet performance, without compromising on the unique selling points, such as the patented characteristic curves and large variability.

# Compact-S Network Devices: durable, flexible & compact



## Compact Economy

The single phase economy units are for all standard applications.



## Compact Ultra

The smallest dimensions and the best price performance ratio.



## Compact Universal

The universal solution - highly reliable and extremely flexible.



## Compact 3-Phase

The optimal combination of power and intelligence.



Product Focus:  
**Compact**



More control on our  
homepage:  
<https://bit.ly/3mIWO30>

# LCOS: Flexible housing system and components

## Intelligent current control

- LOCC-Box and LCOS-CC
- 1 and 2 channel versions
- Adjustable current ranges and characteristics
- Energy management (remote access / fieldbus)
- Integration in fieldbus systems Profinet / EtherCAT / Ethernet IP



LOCC-Box



LCOS-CC

## LCOS - Switch

- AC/DC-supply voltage
- Can be used as a standalone module or in the LCOS system
- Universal application e.g. Profinet-IO (RT) and EtherCAT
- QoS, Auto Negotiation, Broadcast Storm Protection
- Extended temperature range
- Compact design
- UL approval



LCOS Switch  
4-Ports



LCOS Switch  
8-Ports



More **Control** in the **LÜTZE** download area  
at [www.luetze.com/de-de/downloads/](http://www.luetze.com/de-de/downloads/)



Product Focus:  
**LCOS Switches**

**LÜTZE**   
SYSTEMATIC TECHNOLOGY

# Universal use in industrial communication systems

## Fast Ethernet (10/100 Mbit/s)

### Highlights:

- Prioritization of data traffic
- Status report per LED
- Independent installation position
- Various network topologies possible

### Advantages:

- More flexible system design
- Improved system availability
- General purpose
- Cost savings



The new LÜTZE E-CO Switches as 5, 8 and 16-port models

## Gigabit Ethernet (1000 Mbit/s)

### Highlights:

- QoS Quality of Service
- Jumbo Frames 9K
- Compact dimensions
- Speed signaling per LED

### Advantages:

- Prioritization of data traffic
- More flexible system design
- More space in the control cabinet
- Cost savings



Product Focus:  
**LÜTZE E-CO Switches**

# Change and convert in a consistent design!

## LCIS - Lütze Compact Interface Systems

- Compact Design 6.2 mm
- Low installation depth < 76 mm
- Innovative screw and push-in connection options
- Insulated jumper system for all options
- Unique terminal labelling
- Secure signal tracking due to 2 mm test opening
- Standard marker for universal labeling
- Versions with manual - 0 - automatic
- Universal application
- Approvals UL, CSA and DNV GL



Relay modules with 1 change over contact

- Standard and gold-plated contacts
- Closed and pluggable design

Solid State Relay (SSR)

- Switching currents, e.g. up to 10 A @ 30V

Signal converter:

- Standard signal converter
- Temperature converter
- Frequency converter
- Passive converter



More **Control** in the **LÜTZE Relays** catalogue  
under [www.luetze.com/downloads/](http://www.luetze.com/downloads/)

# OCT cable for servo motor systems



**NEW** - with 90° C approval

**Servo cables with  
Ethernet functionality**  
for the new SIEMENS® S210  
and BOSCH REXROTH® MS2N  
systems



More **cable and accessories:**  
**Online catalogue** - [www.luetze.com](http://www.luetze.com)

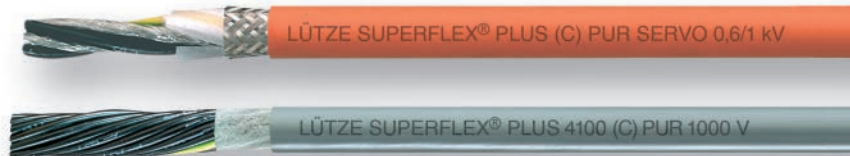
# LÜTZE SUPERFLEX® now with 90 °C approval

**NEW**  
with 90 °C  
approval

LÜTZE SUPERFLEX® servo and control cables meet the NFPA 79 with a higher operating temperature of up to 90 °C

## Benefits of the new 90 °C servo and control cables:

- up to 100 % higher power loads at unchanged cable cross-sections possible
- improved operating safety
- improved amperage range
- more space and smaller bending radius when used in C-tracks



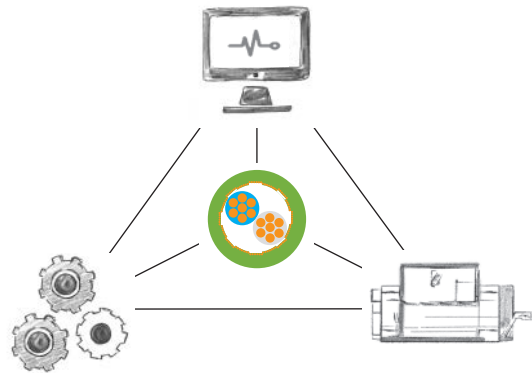
# Great performance - Now for single pair Ethernet

## Forward-thinking technologies

In addition to the latest highlights, such as the C-track-suitable Cat.7 cables, LÜTZE is also working intensively on future technologies including single pair Ethernet. The single pair Ethernet enables cost-effective sensor solutions and also supports IIoT and Industry 4.0.

## Benefits of single pair Ethernet:

- High compatibility with existing networks
- New applications thanks to flexible application options
- Fast data transmission of large data quantities



More **cable and accessories:**  
**Online catalogue** - [www.luetze.com](http://www.luetze.com)



Single pair Ethernet is now C-track compatible:  
<https://bit.ly/27zWrcw>



# Great performance - 50 years LÜTZE SUPERFLEX®



**LÜTZE SUPERFLEX®**

← *connected*

**Highly flexible cables for various application areas:**

- Bus and network cables
- Motor and feedback cables
- Servo and control cables:  
**now also for 90 °C**
- Electronic / Actuator-sensor cables



Product Focus:  
Network solutions for  
Industrial Ethernet

**LÜTZE**   
SYSTEMATIC TECHNOLOGY

# For the new SIEMENS® + BOSCH REXROTH® servomotor systems

NEW

## Prefabricated servomotor cables

For the new SIEMENS® S210 and  
BOSCH REXROTH® MS2N systems.



According to SIEMENS® Standard 6FX8002-8QN



According to BOSCH REXROTH® Standard RH2



More Connectivity solutions:  
Online catalogue - [www.luetze.com](http://www.luetze.com)

# Better and faster – M12 Push-In



## Simple and tool-free spring-loaded terminals

- 30 % quicker installation than the screw clamp terminal
- No interruption from vibration and shock, due to permanent spring pressure on contact point
- No connection sleeves necessary
- Shielded and unshielded
- Design: male straight and angled
- Installation: Coding can be rotated in 45° increments
- Protection class IP65, IP67 in screwed condition



More **Connectivity solutions:**  
Online catalogue - [www.luetze.com](http://www.luetze.com)

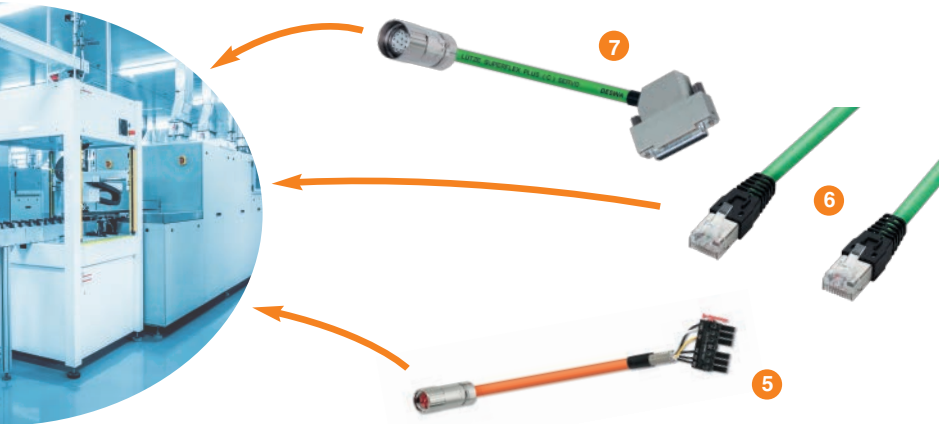
# LÜTZE Connectivity Solutions

- 1 Suppressors for valves
- 2 Profinet RJ45 connector
- 3 Actuator Sensor Interface
- 4 Panel connector RJ45
- 5 Servo Power cable
- 6 Ethernet cable with an RJ45 connector
- 7 Servo Feedback



More **Connectivity solutions:**  
**Online catalogue** - [www.luetze.com](http://www.luetze.com)

# Solutions from one source



**LÜTZE** supplies the 'all-round carefree package' from one source for your systems and machines. Cable assemblies for servo drive systems, suppression technology, connectors and industrial ethernet.



**File E486936**  
**ZPFW2 / ZPFW8**

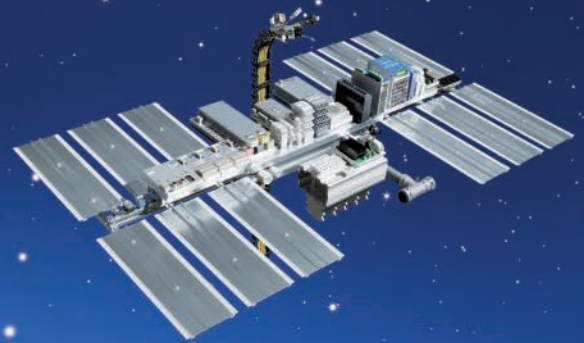


More **Connectivity** solutions:  
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