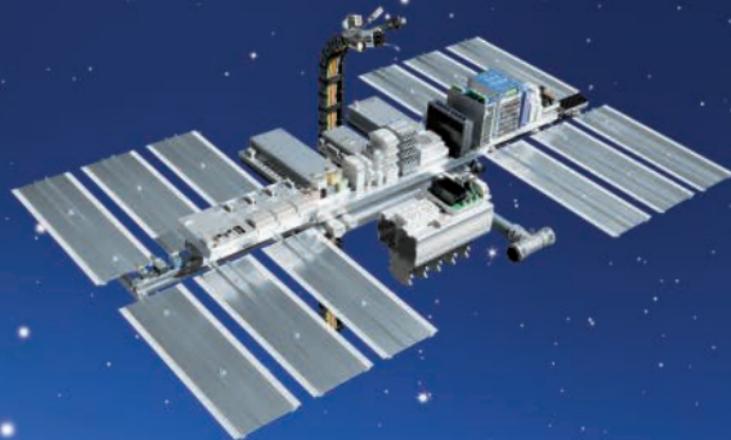


Efficiency in Automation

Cable • Connectivity • Cabinet • Control



LÜTZE News 2021

LÜTZE ®
SYSTEMATIC TECHNOLOGY

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



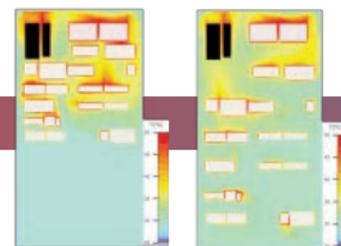
2. Discover differences:

- *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



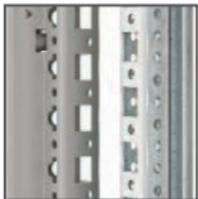
6. Find a solution:

- 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



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>

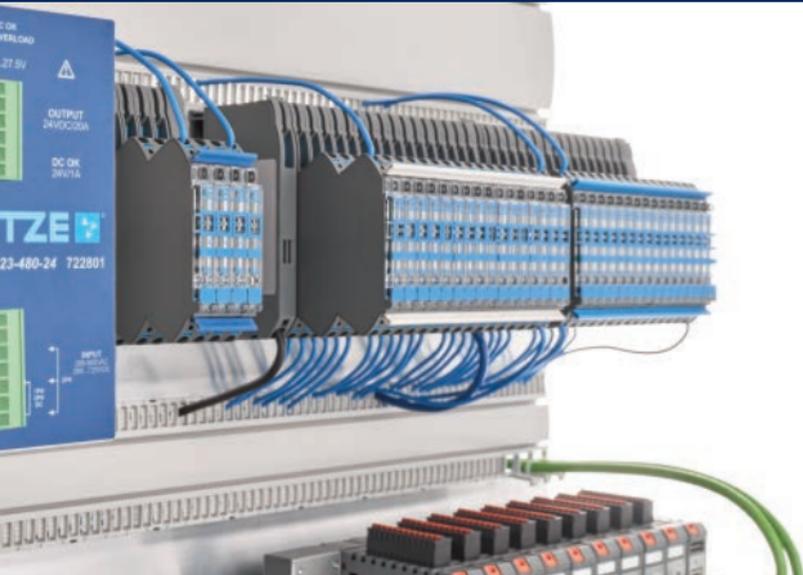


Video: Tutorial - comparison of
installation time **AirSTREAM**
mounting rails SR032 and VPSym

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 mm² 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 compro-
mising 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/



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

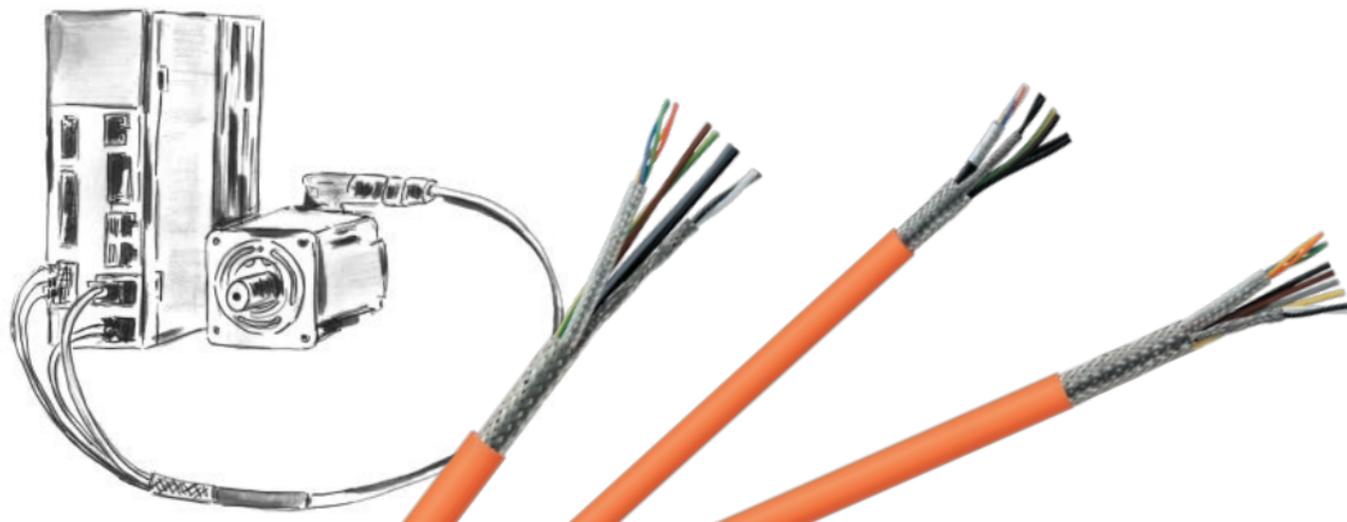
Signal converter:

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



More **Control** in the **LÜTZE Relays** catalogue
under www.luetze.com/downloads/

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

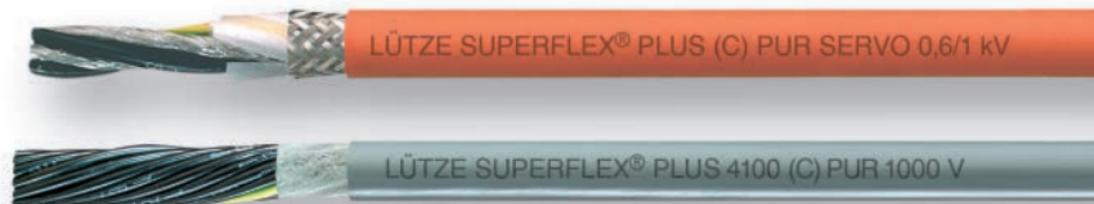
LÜTZE SUPERFLEX® now with 90 °C approval

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



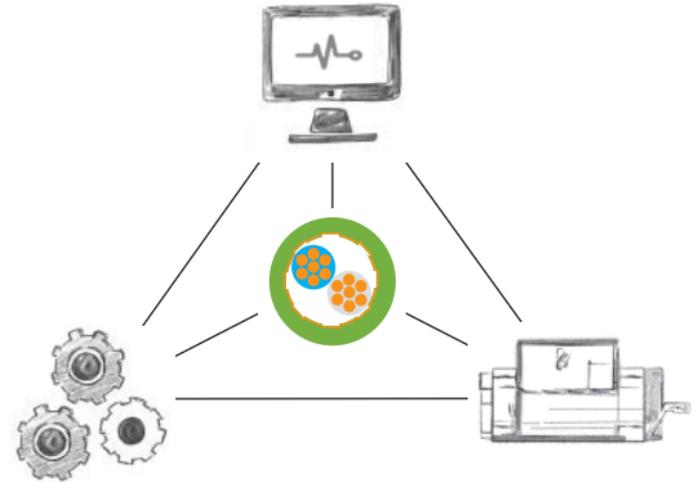
Great performance - Now for single pair Ethernet

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



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

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

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

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:**
Online catalogue - www.luetze.com



Efficiency in Automation

Cable • Connectivity • Cabinet • Control



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