

ELECTRICAL  
INTERCONNECTIONS



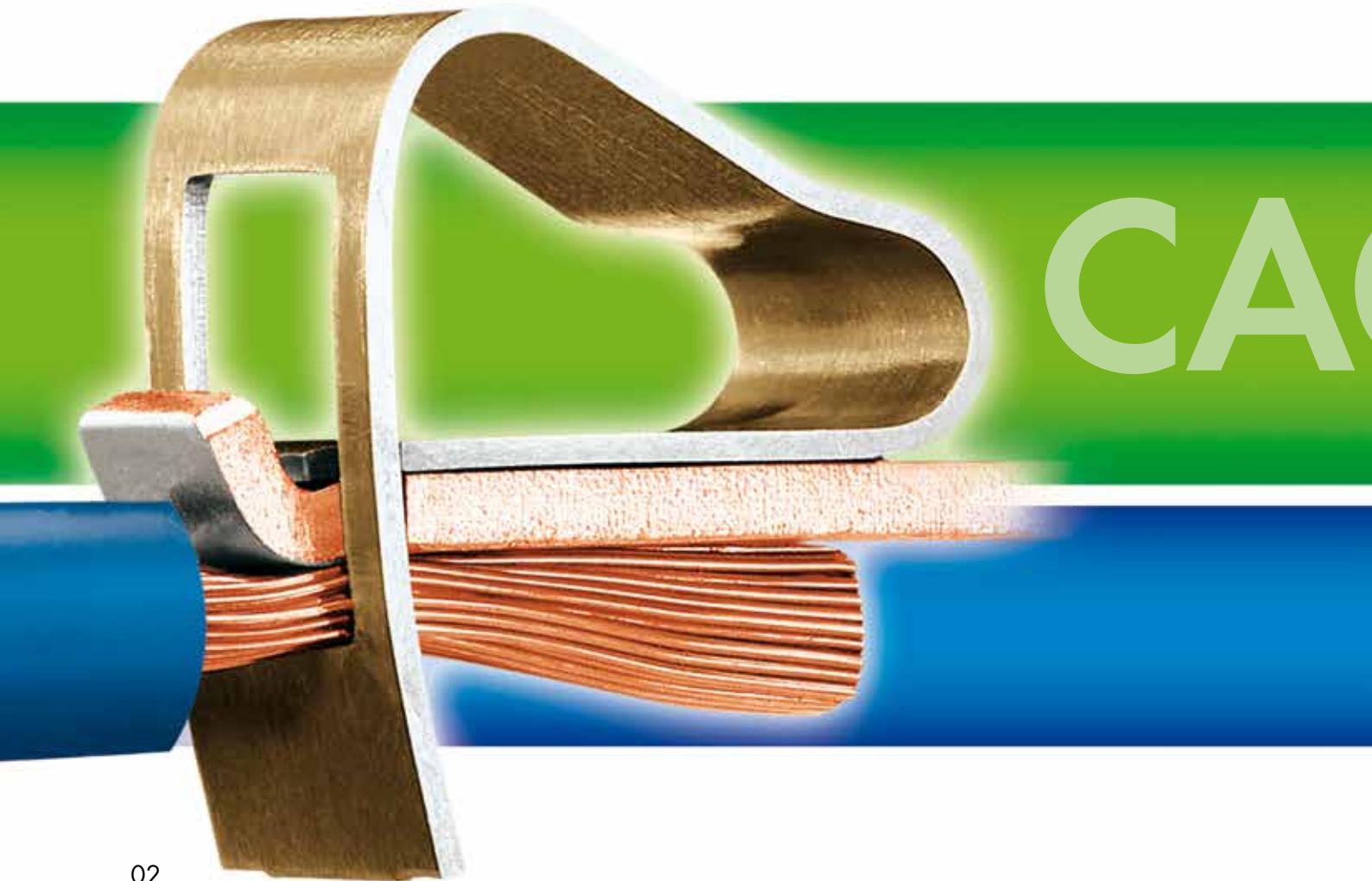
- WAGO CAGE CLAMP® Technology
- Vibration-Proof – Fast – Maintenance-Free!

**WAGO®**

# WAGO CAGE CLAMP® Technology

High-performance. Reliability. Efficiency. For more than 30 years, these characteristics have earned the maintenance-free WAGO CAGE CLAMP® Spring Pressure Connection Technology a worldwide reputation for quality. In the face of increasing global competition, WAGO customers worldwide have benefited from greater productivity stemming from maintenance-free operation.

## Vibration-Proof – Fast – Maintenance-Free!



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# CAGE CLAMP®

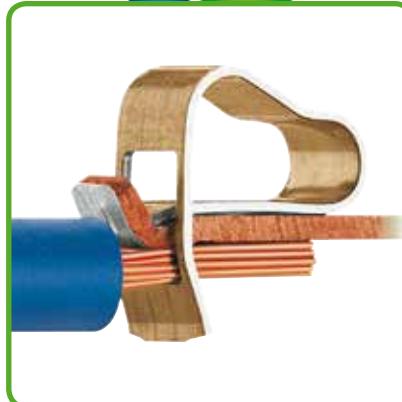
# CAGE CLAMP® Types

1977

## The original WAGO CAGE CLAMP® connection

For solid, stranded and fine-stranded copper conductors. The birth of a new industry standard for electrical connection technology worldwide.

Patent No. 270 6482



1996

## CAGE CLAMP® Compact connection

The compact version of the original CAGE CLAMP® connection. Is the foundation for ultra-compact, rail-mounted terminal blocks up to 4mm² (12 AWG).

Patent No. 196 41206



1998

## POWER CAGE CLAMP® connection

For rail-mounted terminal blocks from 6 mm² (4 AWG) to 95 mm² (4/0 AWG). This broad range has redefined the limits of Spring Pressure Connection Technology.

Patent No. 198 17924



2003

## Push-in CAGE CLAMP® connection

A quantum leap. Provides universal connection for all copper conductors, like the original CAGE CLAMP®. Additional benefit: Simple, push-in termination of solid and ferruled conductors.

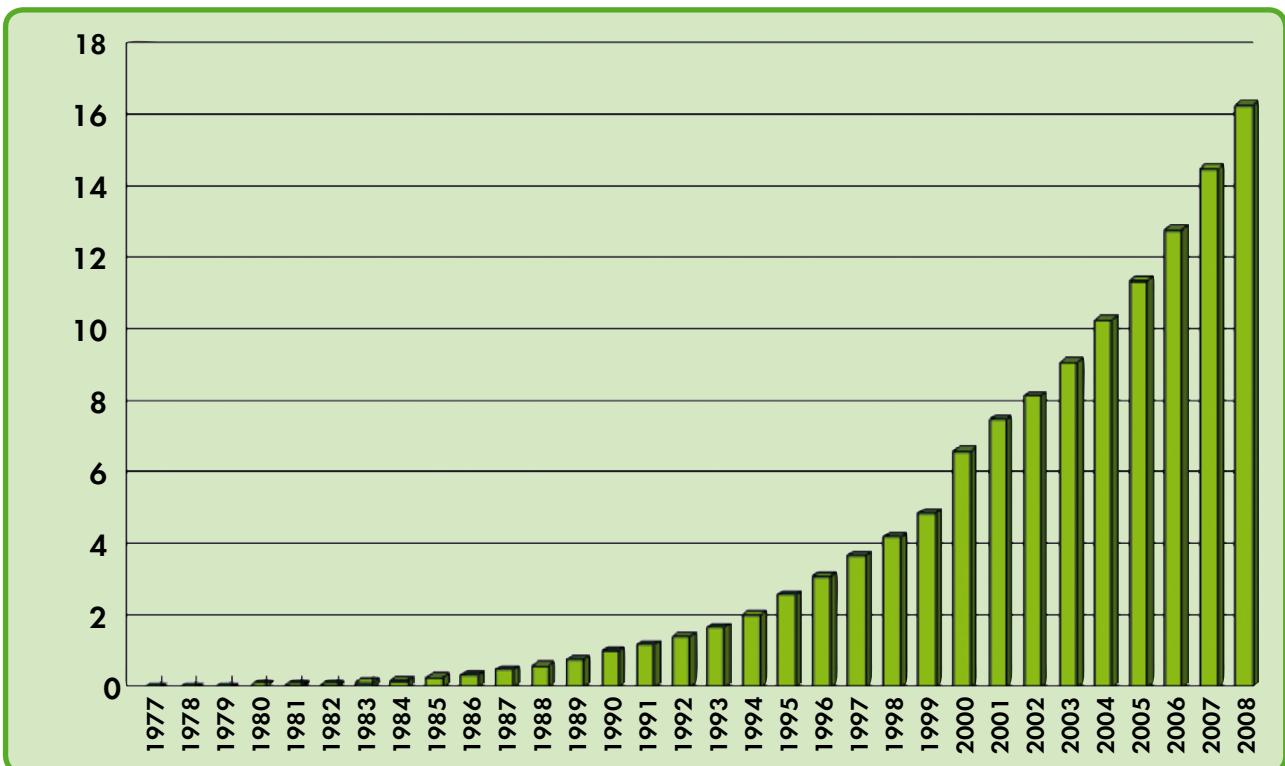
Patent No. DE-A 102 39273,  
DE-A 102 60545, EP-A 1 391 965



# System Features and Benefits

- WAGO provides the most comprehensive product range using the universal CAGE CLAMP® connection technology
- Conductors ranging from 0.08 mm<sup>2</sup> (28 AWG) to 95 mm<sup>2</sup> (0/4 AWG)
- Approvals from leading authorities provide worldwide acceptance
- Space-saving - Terminals with Push-in CAGE CLAMP® are up to 30% smaller than competitive products
- Damage-free conductor clamping due to pre-programmed clamping force, dependant on conductor diameter
- Safe, easy-to-use design
- Unlimited range of applications
- Worldwide industry standard
- Time- and cost-saving:
  - **Vibration-proof**
  - **Fast**
  - **Maintenance-free**

Number of CAGE CLAMP® springs produced in billions to date:



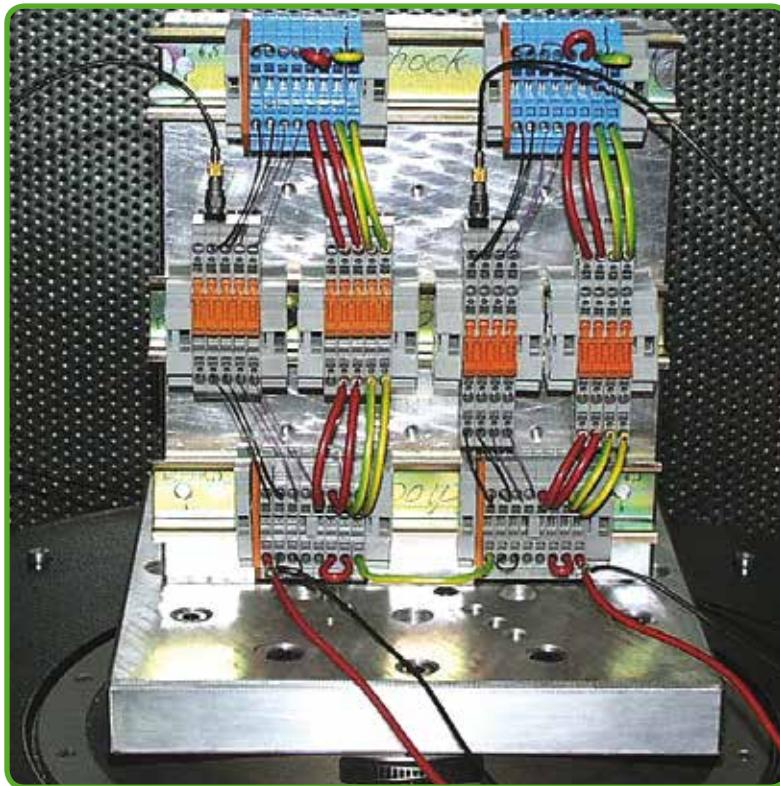
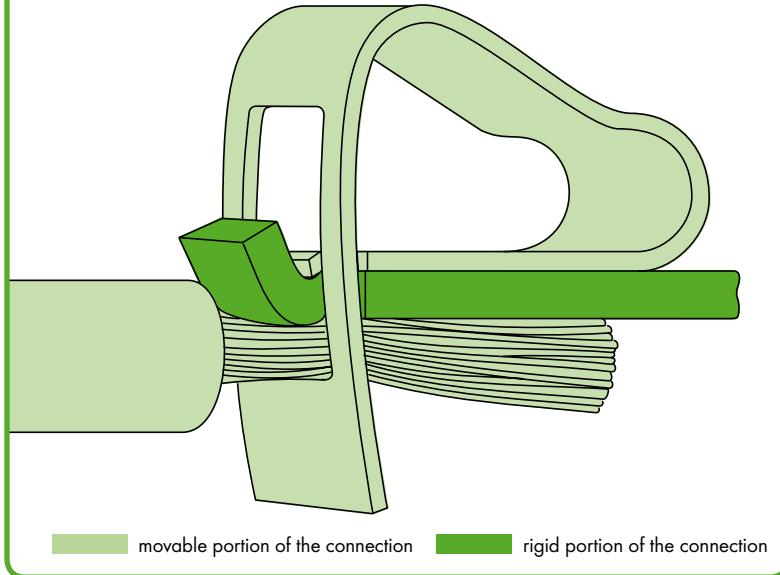
# Vibration- and Shock-Proof – Maintenance-Free

The **vibration-proof properties** of CAGE CLAMP® connections have been tested and verified in a vibration test to IEC/EN 60068-2-6. In this test, a frequency band up to 2000Hz, at different accelerations up to 20g and different amplitudes up to 20mm, is passed continuously in three axes. Additionally, international authorities have placed extremely demanding requirements on electrical installations. Railway authorities have applied testing for electrical installations in rolling stock (IEC/EN 61373); multiple marine agencies (e.g., GL, LR and DNV) have also held CAGE CLAMP® to their lofty approval standards. Each rigorous test was successfully passed.

In the **Impact Test** (IEC/EN 60068-2-27) or for railway applications (IEC/EN 61373), test specimens were exposed to instant shock stresses, instead of permanent vibrations. Stresses up to 100g on the x-, y- and z-axis were easily passed.

**Maintenance-free operation** results from excellent long-term consistency of the electrical and mechanical properties of the clamping connection – or more precisely, the clamping unit. The Voltage Drop Test evaluates clamping unit quality under stresses such as vibrations, temperature changes and corrosive influences, in order to verify that the contact point is gas-tight. The long-term consistency of CAGE CLAMP® technology has been demonstrated both through laboratory testing by international approval agencies and from worldwide applications.

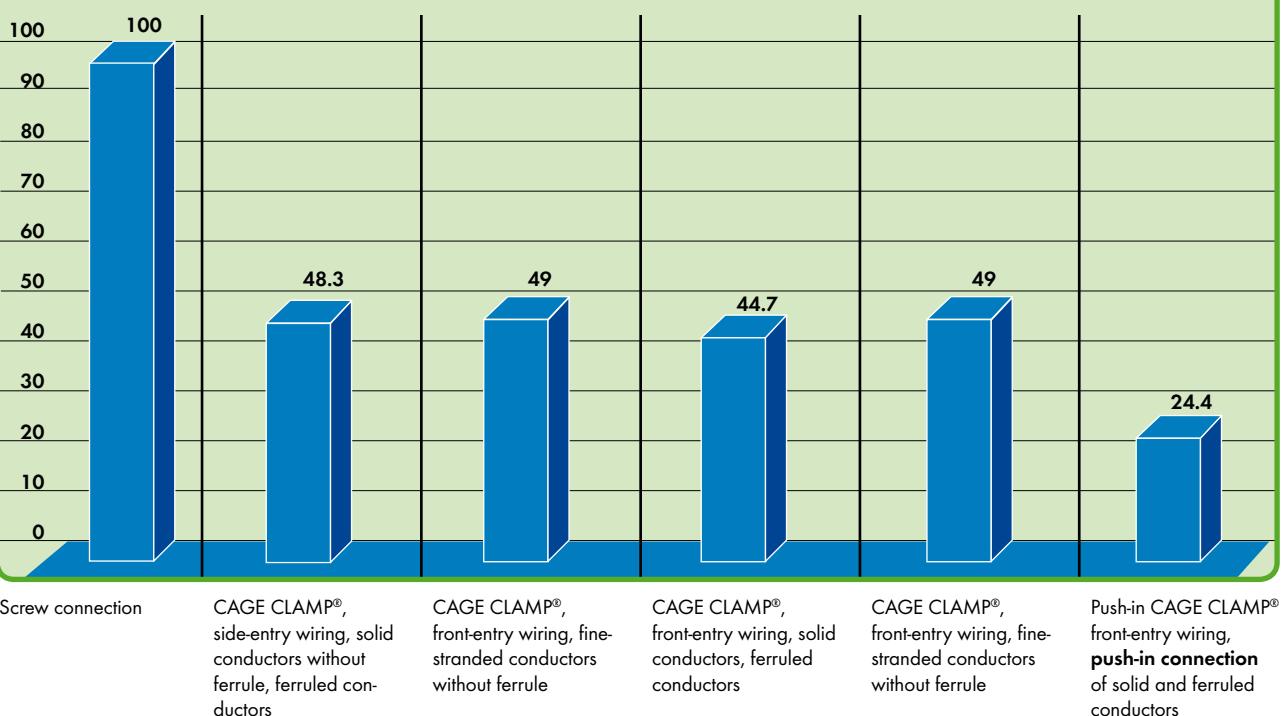
The resulting maintenance-free operation reduces service costs, leading to greater equipment availability and reliability.



# Time-Saving

- CAGE CLAMP® technology significantly reduces wiring times, which helps minimize labor costs.
- Additional savings provided via faster project commissioning and elimination of service costs due to maintenance-free terminations.
- Savings go further by reducing both material and labor costs through eliminating the need to prepare ferrules or pin terminals prior to termination.
- Front-entry terminal blocks are specified for top-tier designs because they minimize both install time and effort.

Average manual wiring times in a percentage comparison (per MTM)



# Simple, Easy-to-Use Design



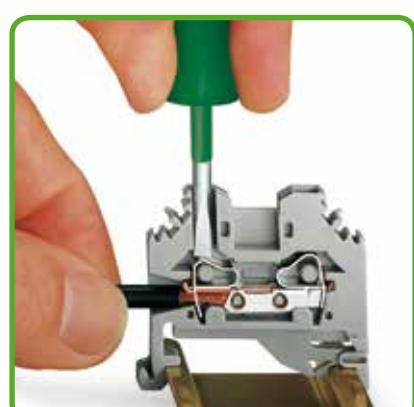
**Front-entry  
wiring:**  
**Push-in CAGE  
CLAMP® connection**



Push-in CAGE-  
CLAMP®,  
connection, **push-in  
connection** of solid  
and ferruled conduc-  
tors



**Front-entry  
wiring:**  
**CAGE CLAMP®  
connection**



**Side-entry wiring:**  
**CAGE CLAMP® connection**

# One Conductor per Clamping Unit – Damage-Free Connections for all Copper Conductors

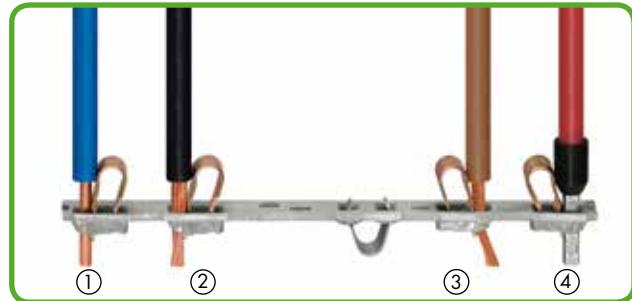
A number of VDE directives mandate or recommend that only one conductor should or must be connected per clamping unit (e.g., DIN VDE 0611, Part 4, 02.91, Section 3.1.9). WAGO complies with this safety requirement, as expressed in the corresponding directives.

## Technical and economical benefits for the users:

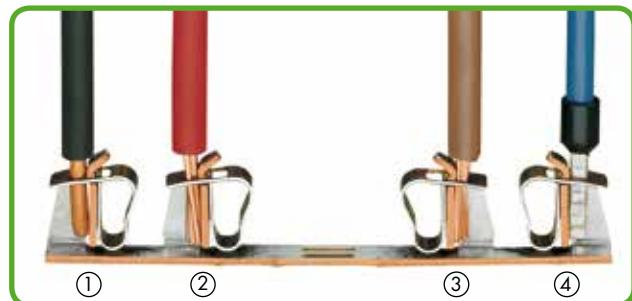
- Each conductor is clamped independently.
- Any combination of conductor cross section can be reliably connected per potential.
- Where re-wiring is required, only the conductor to be changed is removed from the clamping unit, all other conductors remain safely clamped.
- The arrangement of more than two clamping units on one current bar permits potential multiplication, without jumpers or additional terminal blocks.

CAGE CLAMP® and Push-in CAGE CLAMP® clamp all copper conductors from  $0.08 \text{ mm}^2$  to  $35 \text{ mm}^2$  (28 - 2 AWG) ( $95 \text{ mm}^2$  (4/0 AWG)), or from  $0.25 \text{ mm}^2$  to  $25 \text{ mm}^2$  (22 - 4 AWG). Splice protection is not required, but possible.

The conductor is pressed against the current bar in the **predefined contact area**, without damage. The clamping force adjusts automatically to the conductor size. Dynamic contact compensates for changes/movement of the conductor to eliminate the risk of a loose connection.

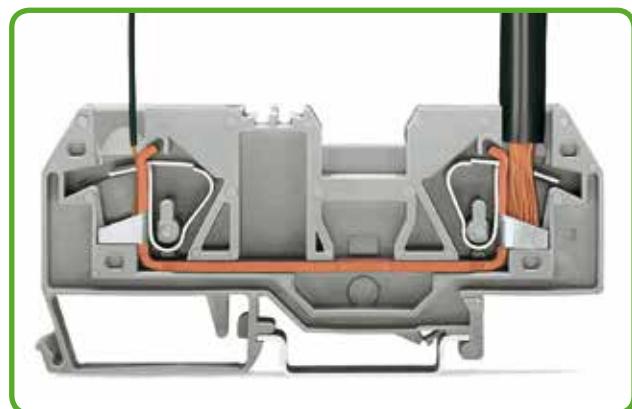


Push-in CAGE CLAMP® clamps one conductor per clamping unit



CAGE CLAMP® clamps one conductor per clamping unit.

- ① solid
- ② stranded
- ③ fine-stranded
- ④ fine-stranded with ferrule (gastight crimped)



An unlikely connection demonstrates the capability:  $0.2 \text{ mm}^2$  (24 AWG) conductor (left) and  $16 \text{ mm}^2$  (6 AWG) conductor (right) in a  $16 \text{ mm}^2$  (6 AWG) terminal block.

# Gastight Clamping Units – Measurable Contact Quality

Climatic chambers simulate standard atmospheres that could impact long-term constancy of clamping units. All WAGO products meet requirements for the following environmental tests:

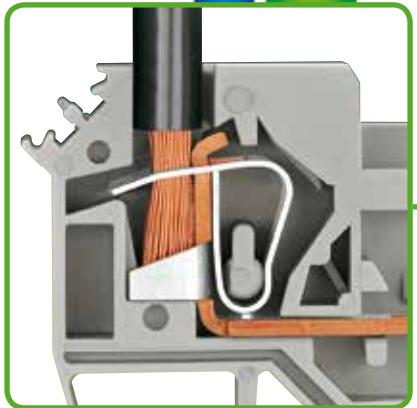
- Temperature Cycling Test to IEC/EN 60947-7-1, IEC/EN 60998-2-2
- Industrial Atmospheres to EN ISO 6988, IEC/EN 60068-2-42, IEC/EN 60068-2-60
- Salt Spray Test to IEC/EN 60068-2-11, Shipbuilding GL, LR, DNV
- Quick Change of Temperature to IEC/EN 60068-2-14
- Damp Heat, Cyclic (12 + 12 Hour Cycle) to IEC/EN 600689-2-30, Shipbuilding GL, LR, DNV

Long-term consistency for the low contact resistance of both CAGE CLAMP® and Push-in CAGE CLAMP® results from **gastight** clamping units. The spring clamp (acid- and saltwater-proof CrNi spring steel) presses the connected conductor against the current bar (electrolyte copper with lead-free, pure tin coating) within a defined contact zone. The conductor is embedded into the soft tin layer with high contact pressure, securing it against corrosive infiltration.

## The contact pressure

$$P \left[ \frac{N}{mm^2} \right] = \frac{\text{Force } F \ [N]}{\text{Area } A \ [mm^2]}$$

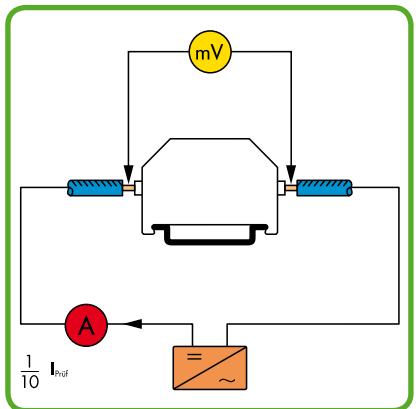
exerted by CAGE CLAMP® terminations is similar to screw-style terminals.



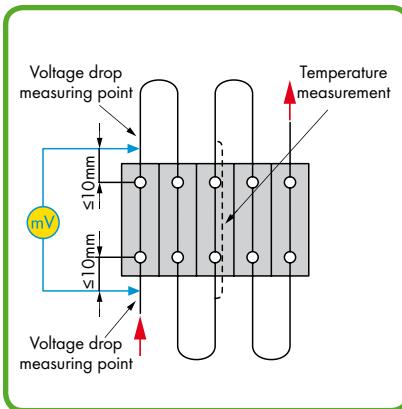
The following test procedures are ideal for evaluating clamping unit quality:

The **Voltage Drop Test** evaluates clamping unit quality under stresses such as vibrations, temperature changes and corrosive influences.

The **Temperature-Rise Test** examines the clamping unit, including the surrounding insulation, at rated current, over-current and short-circuit current levels.



Test arrangement: "Voltage Drop Test"



Test arrangement: "Temperature-Rise Test"

# High-Current Carrying Capacity

The **short-time withstand capacity**

is defined in standards such as IEC/EN 60947-7-1 for through rail-mounted terminal blocks. It is a **current-carrying capacity of 120A per mm<sup>2</sup> nominal diameter** for the duration of 1 second. **In the case of a WAGO 285 Series 95mm<sup>2</sup> (4/0 AWG) high-current terminal block, this translates to 11.400A!**

Ground (earth) conductor terminal blocks are submitted to the 120A test for 3x one second.

The pass criterion for the test is the voltage drop (limit value and constancy). CAGE CLAMP® and Push-in CAGE CLAMP® connections passed this test without damage or reduced functionality.



Test arrangement: "Short-Time Current Withstand Test"



Unrealistic test of a CAGE CLAMP®-equipped, 4mm<sup>2</sup> rail-mounted terminal block: **Increase of current without time limit**. In such an extreme test – normally, fuse devices would have interrupted the current – **the terminal block is undamaged**.

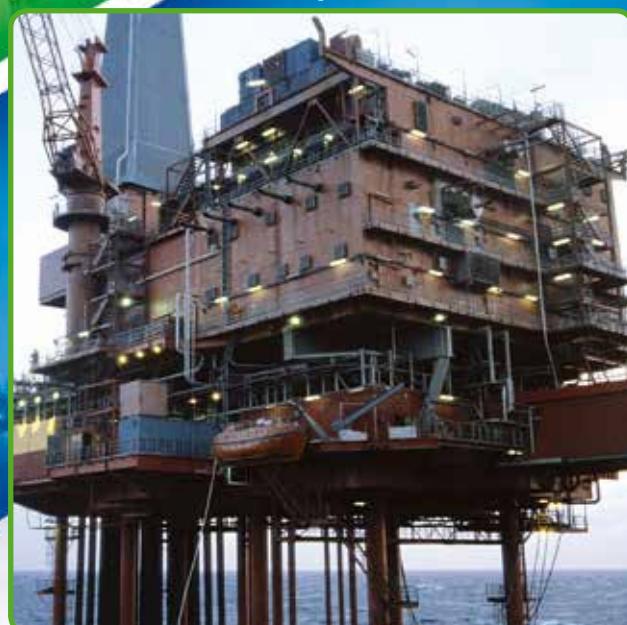
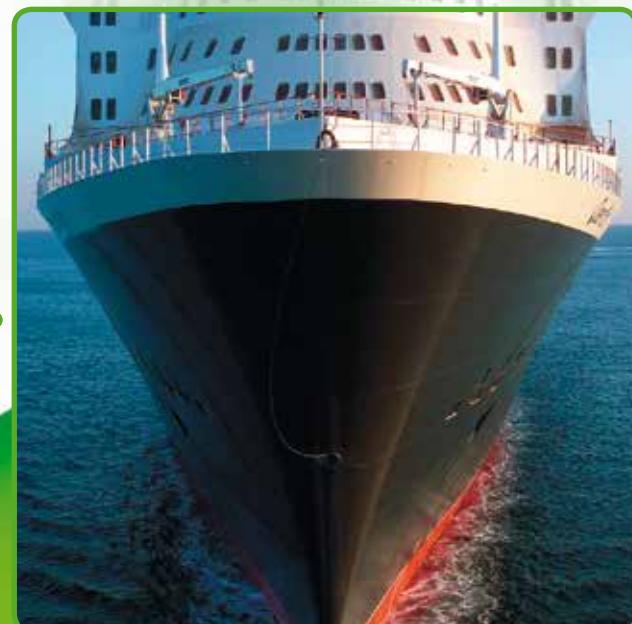
# Global Acceptance

In 1951, WAGO was established with the trailblazing notion of clamping electrical conductors via spring force, rather than a conventional screw mechanism. Today, more than 60 years later, WAGO is the globally recognized leader in Spring Pressure Connection Technology.

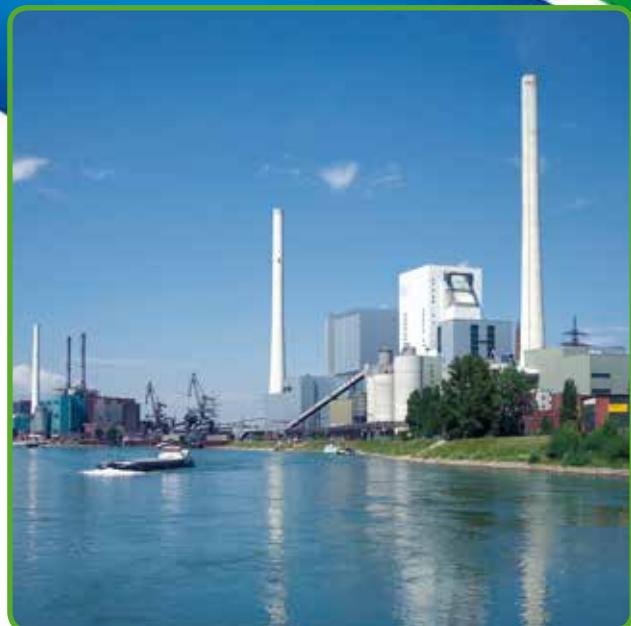
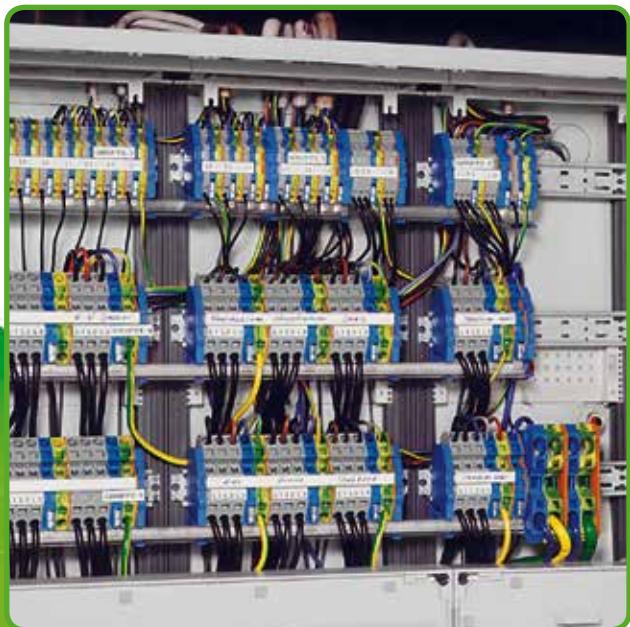
Since revolutionizing the market in 1977, WAGO's CAGE CLAMP®-equipped products have proven themselves in countless electrical and electronic applications worldwide. Technological prowess and sound engineering have enabled WAGO products to earn all vital international approvals.



In installation and machine engineering, plant automation, the automotive sector, rail and marine applications, as well as on/offshore sectors, ...



# Global Acceptance

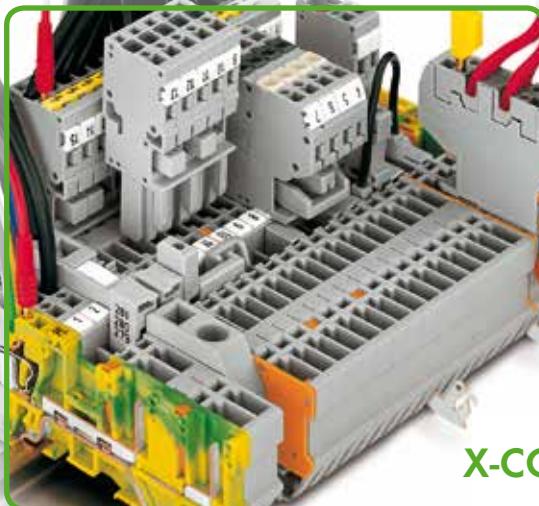


... in the chemical and petrochemical industry,  
in switchgear engineering, food processing, printing and  
post-print processing machinery, in power stations for  
any energy sector, elevators and escalators, in building  
installation and automation, instrument engineering,  
industrial electronics and beyond.



# Examples of Products with CAGE CLAMP® Technology

Modular Terminal  
Blocks/Terminal Strips



X-COM®-SYSTEM

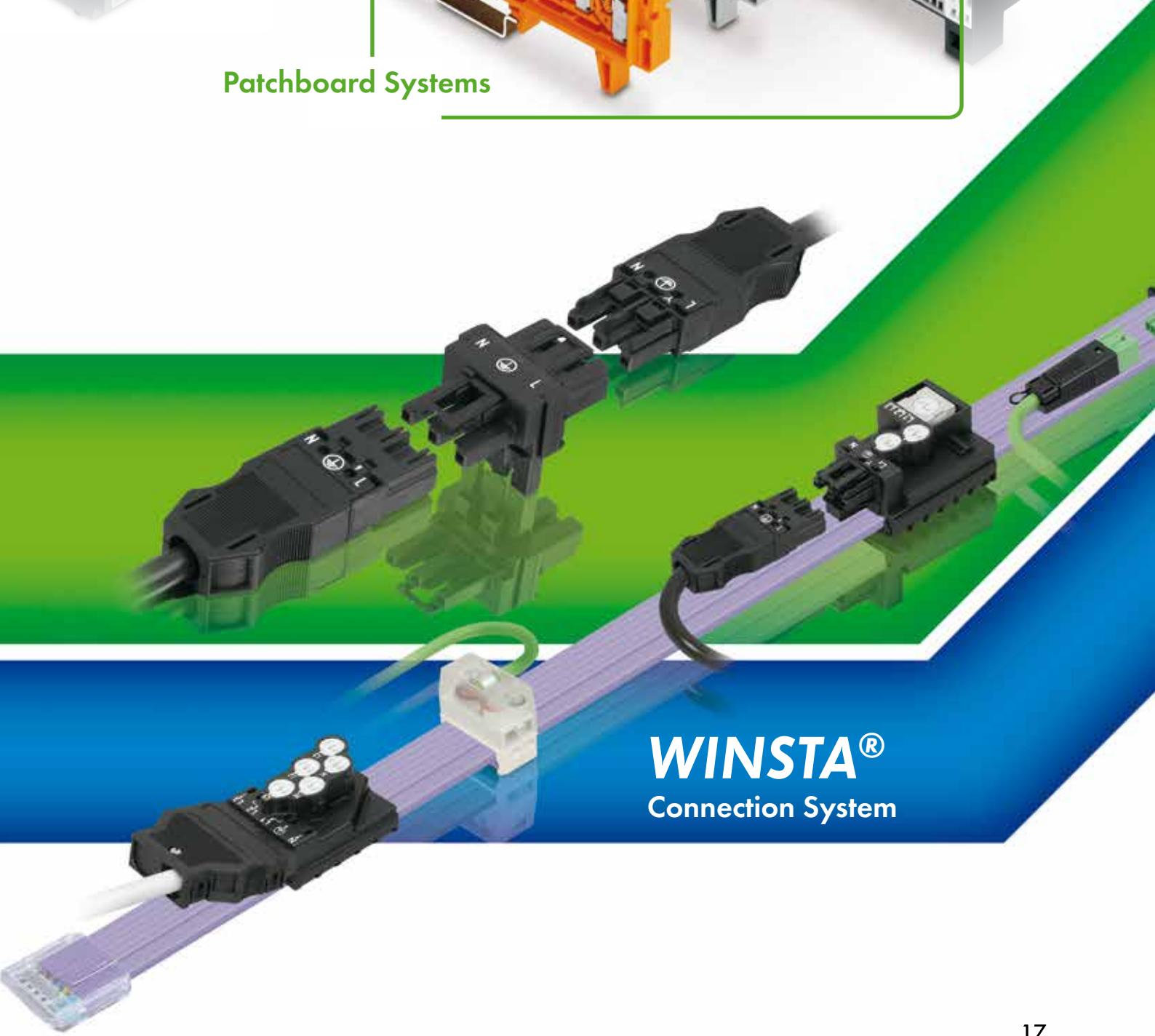
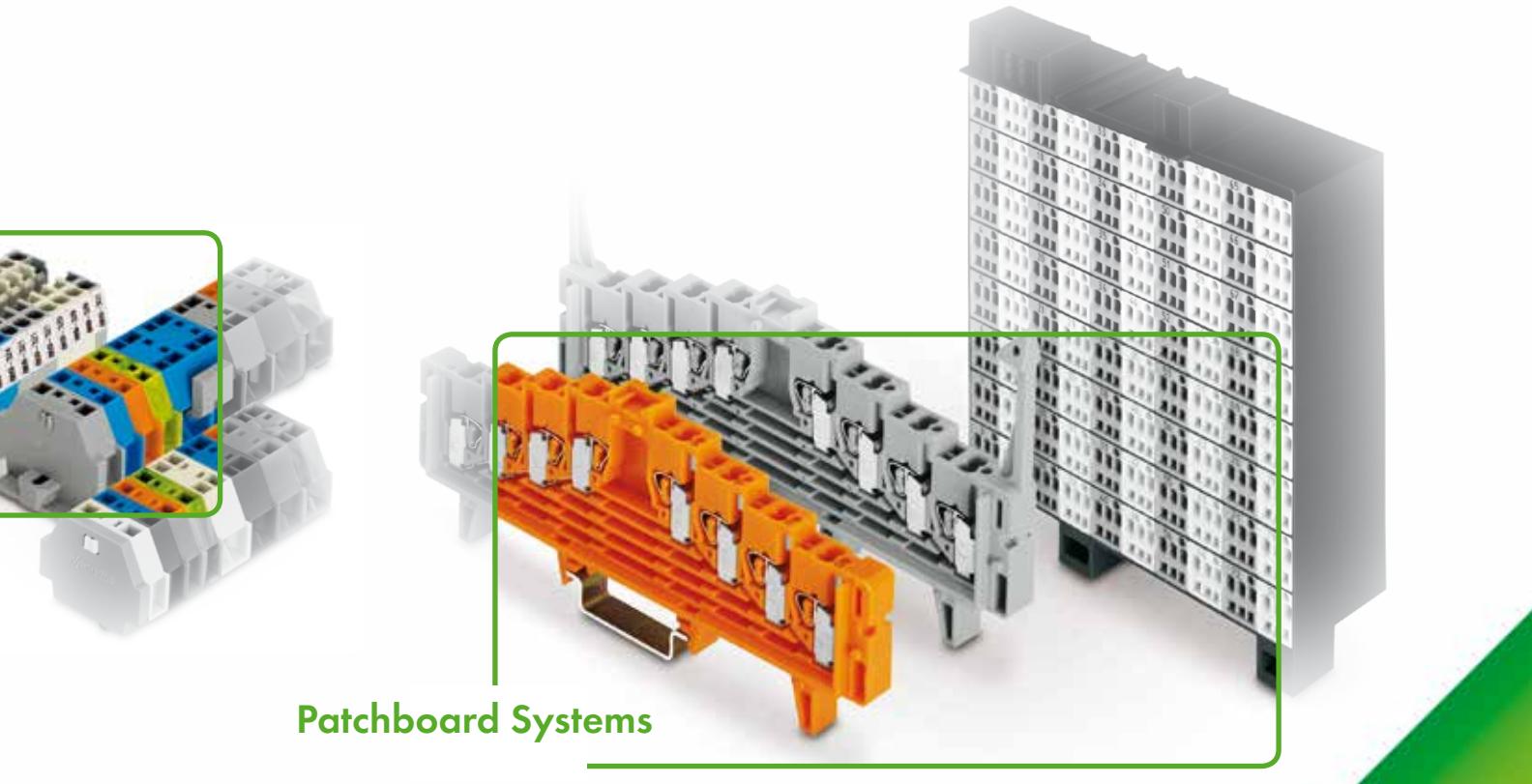


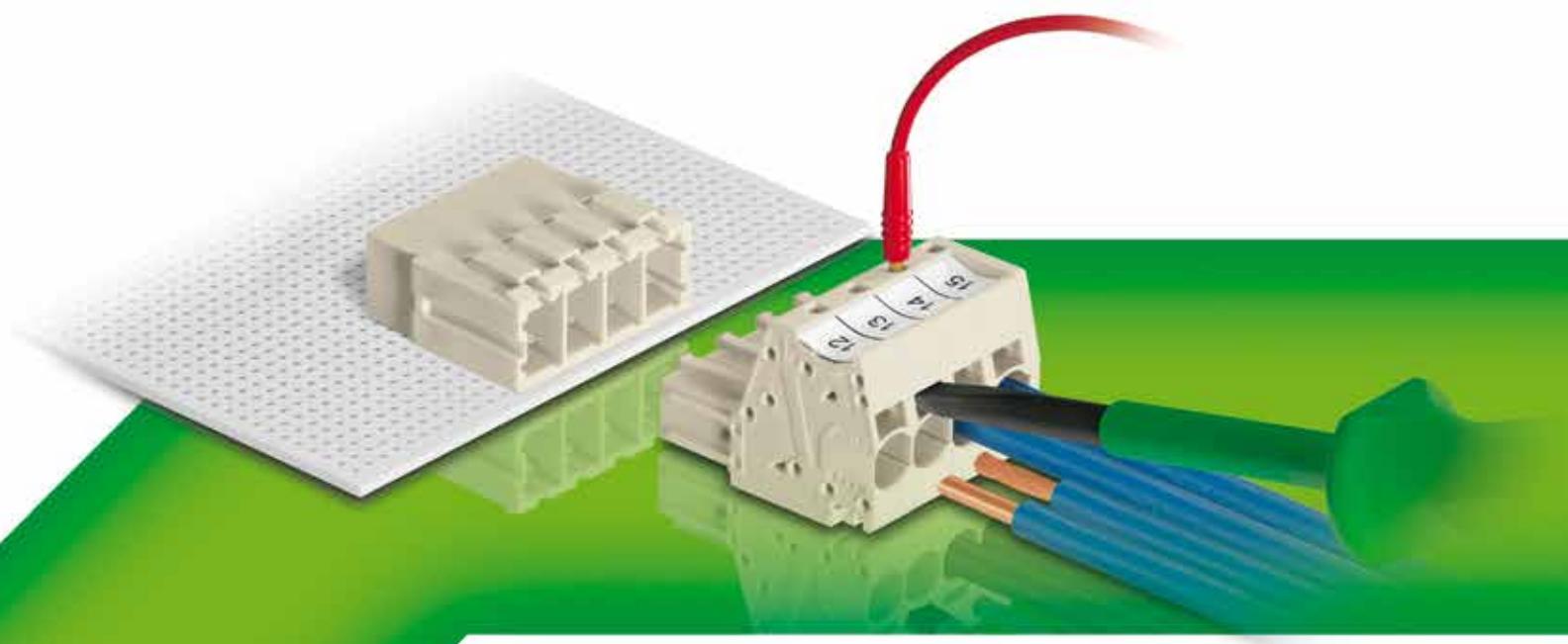
ELECTRICAL  
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TOPJOB®S

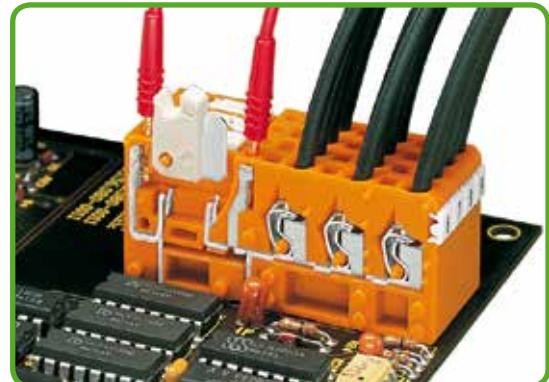
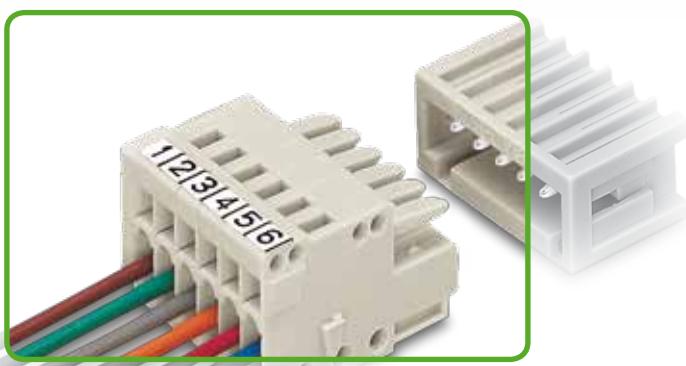
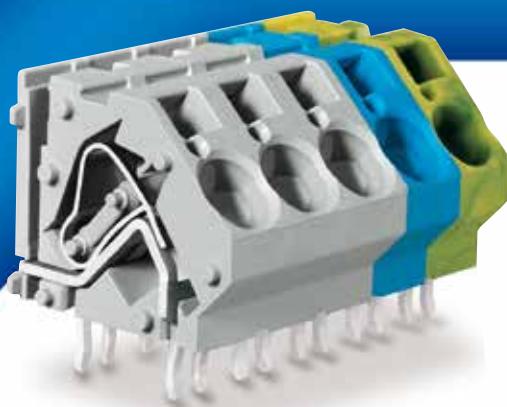
Rail-Mounted Terminal Blocks



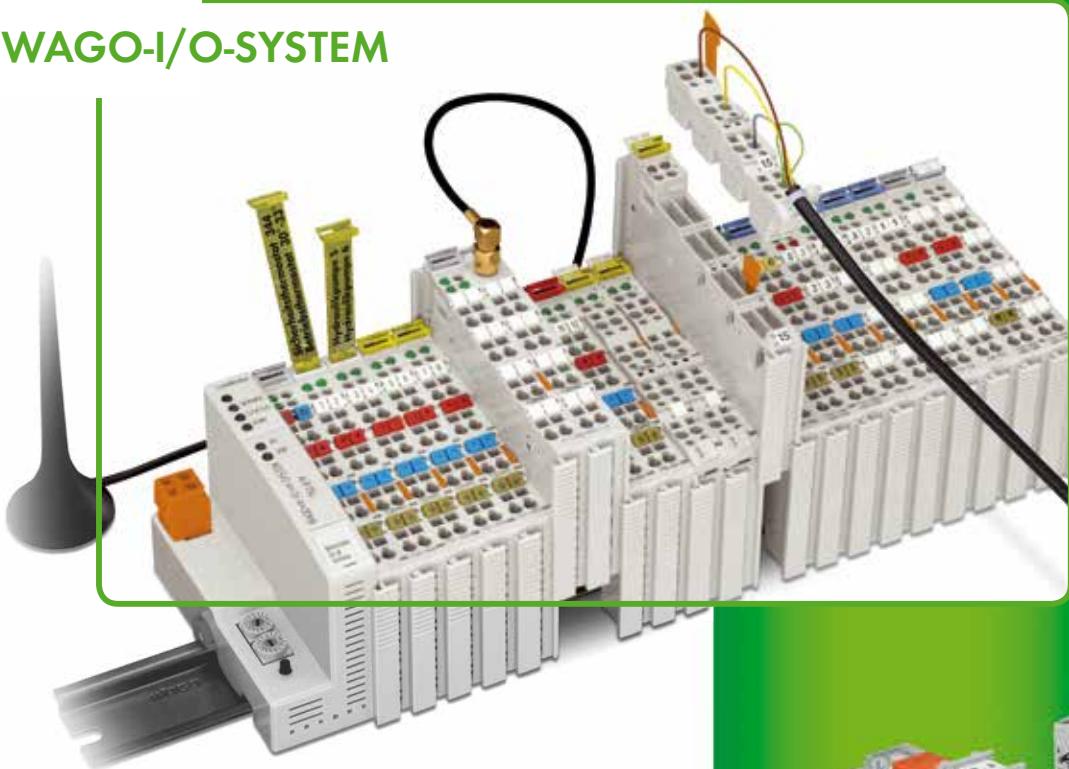




## Connectors and PCB Terminal Blocks

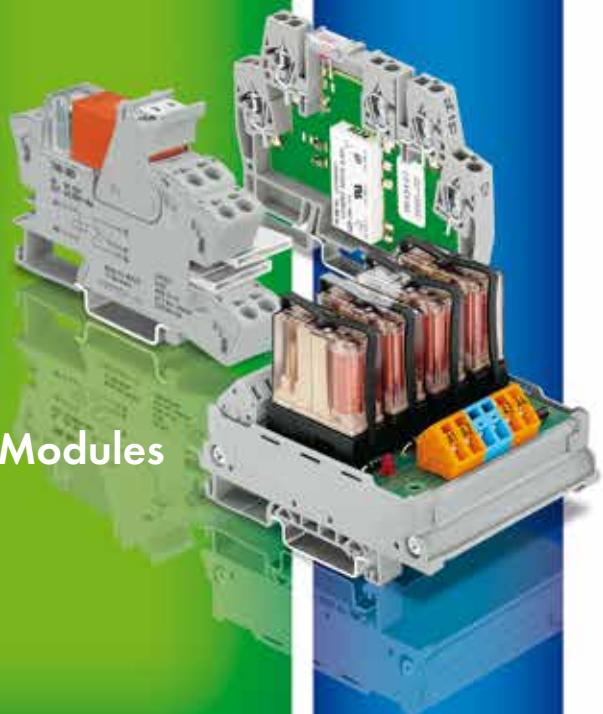


## WAGO-I/O-SYSTEM



Transducers

Relay Modules



Overvoltage Protection

**ELECTRONIC**

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