

ELECTRICAL
INTERCONNECTIONS

AUTOMATION

Product Short Form

PSF 4.1

WAGO®

WAGO Registered Trademarks



CAGE CLAMP®

CAGE CLAMP® **S**

POWER CAGE CLAMP

FIT CLAMP®

PUSH WIRE®

TOPJOB®

TOPJOB® **S**

WINSTA®

WAGO®

X-COM®

X-COM® **S**

JUMPFLEX®

TO-PASS®

ProServe®

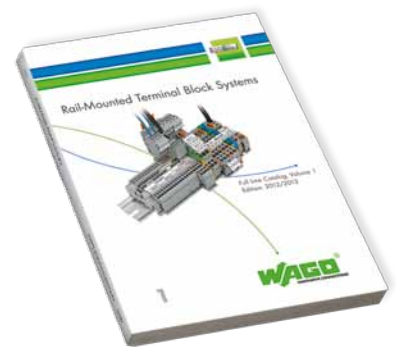
EPSITRON®

picoMAX®

WAGO Full Line Catalogs

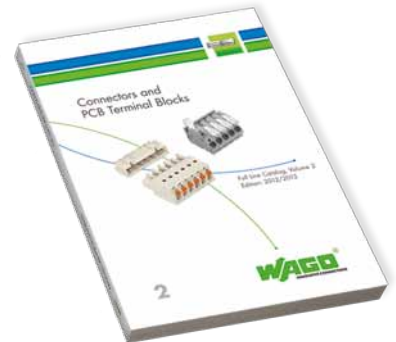
Volume 1, Rail-Mounted Terminal Block Systems

- Rail-Mounted Terminal Blocks
- Modular Connectors (X-COM®-SYSTEM and X-COM®-SYSTEM)
- Patchboard Systems
- Terminal Strips
- PUSH WIRE® Connectors for Junction Boxes
- Lighting Connectors
- Shield Connecting System



Volume 2, Connectors and PCB Terminal Blocks

- PCB Terminal Blocks
- Feedthrough Terminal Blocks
- MULTI CONNECTION SYSTEM
- Pluggable PCB Connectors
- Specialty Connectors



Volume 3, AUTOMATION

- IP20 Modular I/O-SYSTEM
- Wireless Technology, TO-PASS® Telecontrol Technology
- Industrial Switches, PERSPECTO®
- IP67 Modular I/O-SYSTEM, IP67 Block I/O-SYSTEM
- IP67 Sensor/Actuator Boxes, IP67 Cables and Connectors
- Power Supplies



Volume 4, INTERFACE ELECTRONIC

- Relays - Optocouplers - Special Functions
- Interface Modules
- Transducers
- Power Supplies
- Overvoltage Protection
- Wireless Technology
- Empty Housings and Mounting Carriers



Volume 5, WINSTA® - The Connection System

- WINSTA® MINI - Connectors
- WINSTA® MINI special - Connectors
- WINSTA® MIDI - Connectors
- WINSTA® MIDI special - Connectors
- WINSTA® MAXI - Connectors
- WINSTA® RD - Cable Assemblies
- WINSTA® KNX - Connectors
- WINSTA® IDC - Flat Cables



Operation of WAGO Connection Technologies*

CAGE CLAMP® S



The universal connection with "SPECIAL"

Handling:

- Open clamping unit
- Insert the conductor
- Release clamp - done!
- Terminate both solid and ferruled conductors by simply pushing them in - no operating tool needed.

CAGE CLAMP®



The universal connection for solid, stranded and fine-stranded conductors

Handling:

- Open clamping unit
- Insert the conductor
- Release clamp - done!

POWER CAGE CLAMP®



The universal connection for conductors larger than 6 AWG (16 mm²)

Handling:

- Open clamp by turning appropriate hex wrench, or operating tool, counter-clockwise.
- Press integrated latch to open clamping unit for hands-free wiring.
- Insert conductor until it hits backstop.
- A small, counter-clockwise rotation closes the clamp, securing conductor.

FIT CLAMP®



Insulation Displacement Connection (IDC)

Handling:

- Push unstripped conductor into the IDC contact using an operating tool.

PUSH WIRE®



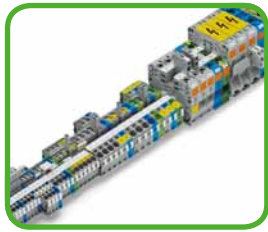
PUSH WIRE® connection for solid and stranded conductors (depending on model used)

Handling:

- Tool-free, twist-free terminations for solid and rigid stranded conductors - simply push into unit.

* Please follow applicable product instructions for product-specific handling.

CONTENTS PSF 4.1



Rail-Mounted Terminal Block Systems

Through Terminal Blocks, Double- and Triple-Deck Terminal Blocks, Ground Terminal Blocks, Ex Terminal Blocks, High-Current Terminal Blocks, Diode Terminal Blocks, Fuse Terminal Blocks, Disconnect Terminal Blocks, X-COM® SYSTEM, X-COM®S SYSTEM, PUSH WIRE® Connectors for Junction Boxes, Lighting Connectors

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Excerpt from Full Line Catalog, Volume 1, Rail-Mounted Terminal Block Systems

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Connectors and PCB Terminal Blocks

MULTI CONNECTION SYSTEM:

MICRO, MINI, MINI HD, MIDI, MIDI Classic, MAXI

Rail-Mounted Terminal Blocks, Modular Terminal Blocks, Double-, Triple- and Quadruple-Deck Terminal Strips, SMD Terminal Blocks, Terminal Blocks

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Excerpt from Full Line Catalog, Volume 2, Connectors and PCB Terminal Blocks

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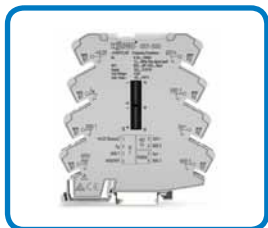
AUTOMATION

Fieldbus Couplers, Programmable Fieldbus Controllers, Input and Output Modules, PERSPECTO®, TO-PASS® Telecontrol Modules, Industrial Switches, Power Supply Units, Shield Connecting System

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Excerpt from Full Line Catalog, Volume 3, AUTOMATION

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JUMPFLEX®, Relay Modules, Optocoupler Modules, Relay Sockets, Interface Modules, Function Modules, Mounting Carriers

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WINSTA® – The Connection System

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Over 50 Years of Innovations

Since its establishment in 1951, WAGO has been pioneering innovative connection systems in electrical engineering and electronics. The idea for a screwless termination system was born in 1951; the first terminal blocks with spring clamp termination technology were presented at the Hanover Fair the same year.

Precisely designed and manufactured, spring-loaded connections not only guarantee a faster and easier connection, but also offer a higher safety level since the contact quality is largely independent of operator skill.

Now, WAGO is the leading specialist of Spring Pressure Termination Technology and is providing components for automation technology. In 1977, the success story of the CAGE CLAMP® began – “vibration-proof, fast and maintenance-free connections.” Safe operation for countless devices, systems and installation depends on the unconditional reliability of our products.

1951

The first WAGO spring clamp



1974

WAGO PUSH WIRE® Connector for Junction Boxes



1977

Rail-mounted terminal blocks with CAGE CLAMP®



1998

POWER CAGE CLAMP®



2001

WINSTA® – The Connection System



ELECTRICAL INTERCONNECTIONS

AUTOMATION

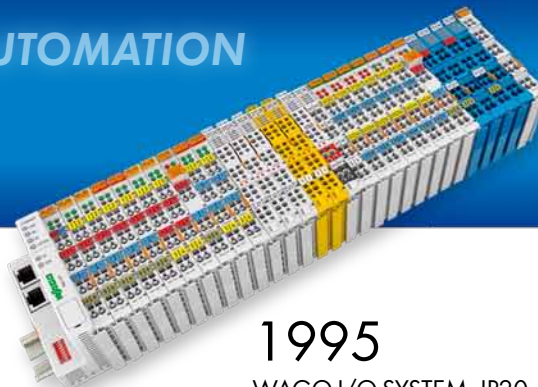
1985

Pluggable electronic functions on rail-mounted terminal blocks



1995

WAGO-I/O-SYSTEM, IP20



2005

WAGO SPEEDWAY 767, modular I/O-SYSTEM, IP67

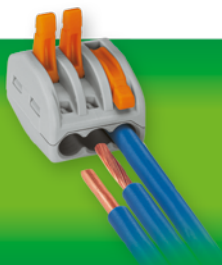


Recognized and Approved Worldwide



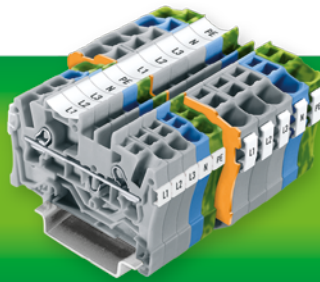
2004

Compact splicing connectors for all conductor types



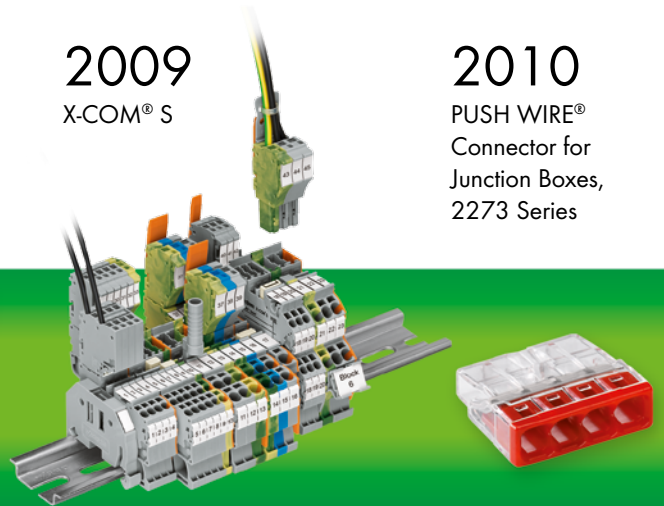
2006

TOPJOB®S Rail-Mounted Terminal Blocks



2009

X-COM® S



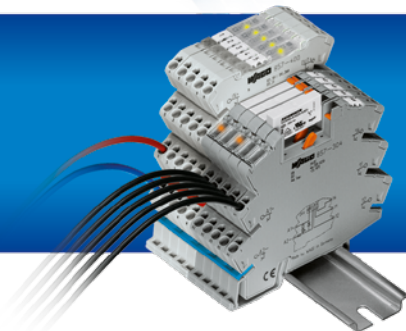
2010

PUSH WIRE® Connector for Junction Boxes, 2273 Series



2006

WAGO JUMPFLEX® Transducers and Pluggable Relay Modules



2008

TO-PASS® - Scalable Tele-control Technology



2010

PERSPECTO® Touch and Control Panels



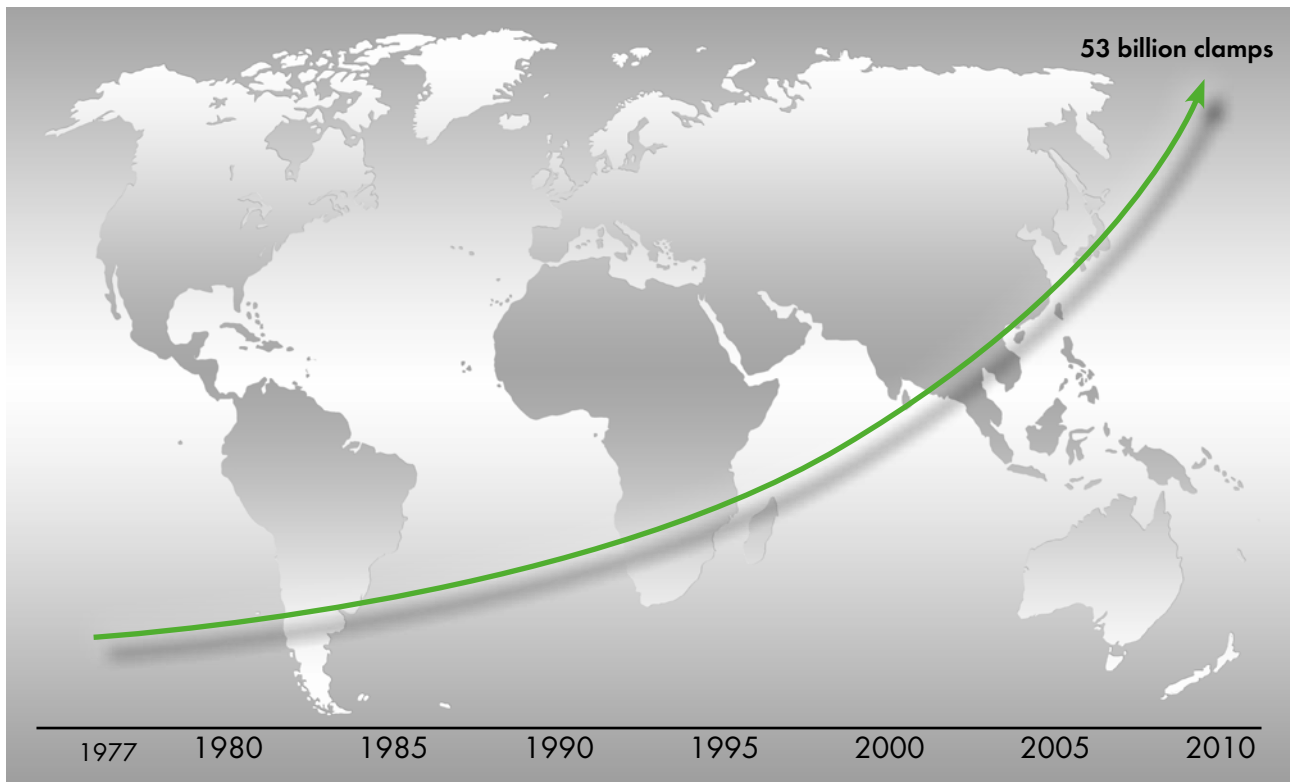
From Pioneer to Leader

When the first terminal blocks with spring clamp termination technology debuted at the Hanover Fair in 1951, it represented a significant advancement in manufacturing. At the time, manufacturing terminal blocks was not possible because the carbon steel of the time did not meet the high quality requirements

However, WAGO was quite active in the years leading up to the 1977 debut of the first series of CAGE CLAMP®-equipped rail-mount terminal

blocks from 28 to 6 AWG (0.08–6mm²). With numerous developments – from the Suprafix banana plug product family up to the first range of rail-mounted terminal blocks for conductors up to 6 AWG (16mm²) – WAGO has firmly established itself as an innovator.

With this reputation and WAGO's slogan "vibration-proof, fast and maintenance-free," CAGE CLAMP®, which was superior to all previous connection technologies, has become a worldwide industrial standard.



Number of spring clamps for terminal blocks and connectors produced to date

Today, CAGE CLAMP® technology has several imitators, yet it remains unmatched. Again WAGO is setting new standards with further developments, such as CAGE CLAMP® Compact (1996) for ultra-compact applications or WAGO POWER

CAGE CLAMP (1998) for a rated cross section up to 4/0 AWG (95mm²). Furthermore, figures speak for themselves: More than 53 billion spring clamps have been sold worldwide and, every day, millions of clamps are added to that number.

WAGO Worldwide



WAGO was founded 1951 in Minden, Germany. Now, the WAGO Group consists of 32 companies with more than 5,000 employees, worldwide operations and global sales greater than 500 million euros (2010).

The first factory was located in Minden, Germany, which is also our headquarters. As part of WAGO's global expansion, additional factories have been built: 1977 in Domdidier/Switzerland, 1979 in Milwaukee/USA, 1995 in Sondershausen/Germany and Dehli/India, 1997 in Tianjin/China and Wroclaw/Poland.

Products manufactured locally for domestic and foreign markets create the starting point for a local distribution network with strong coverage of the complete product range. Such organization enables WAGO subsidiaries and sales offices to develop and deliver custom-designed products that comply with local regulations and meet local demand. Approximately half of WAGO's global staff of 5,000 is employed outside of Germany.



WAGO Minden, Headquarters



WAGO Sondershausen



WAGO Switzerland



WAGO USA



WAGO China

WAGO - At Home in the World

International success requires international presence.

WAGO is a group of companies that operates on the world stage with subsidiaries or agencies on all continents and production facilities in Germany (Minden/Westfalia and Sondershausen/Thuringia), Switzerland (Domdidier/Fribourg), Poland (Wro-zlaw), China (Tianjin), India (Noida/Delhi), USA (Germantown) and Japan (Koto-Ku/Tokio).

Our presence in local markets enables us to provide service tailored to our individual customers, with a finger on the pulse of our customers and suppliers. This allows us to develop and deliver products and solutions that are compliant with local codes and regulations. That is what we consider being close to our customers.

- Production sites
- Sales companies
- Representatives

America >>



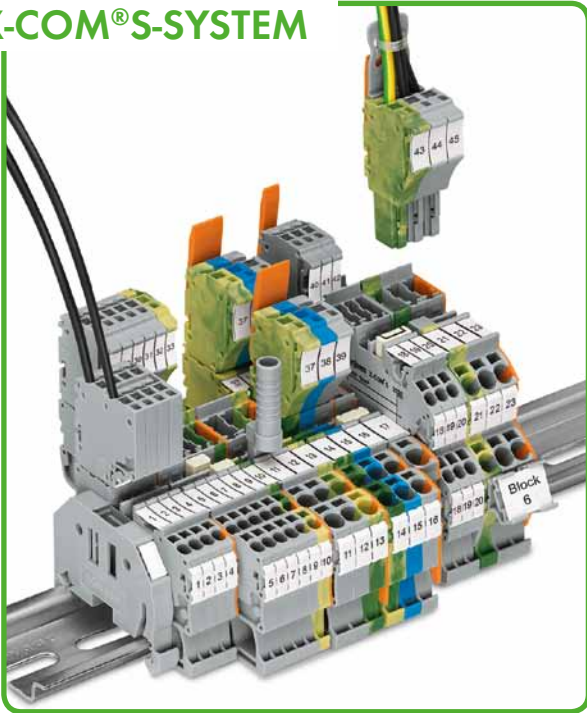
Europe >>

Asia >>

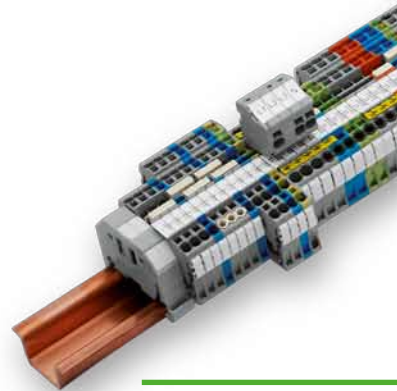


WAGO Product Range: Electrical Interconnections

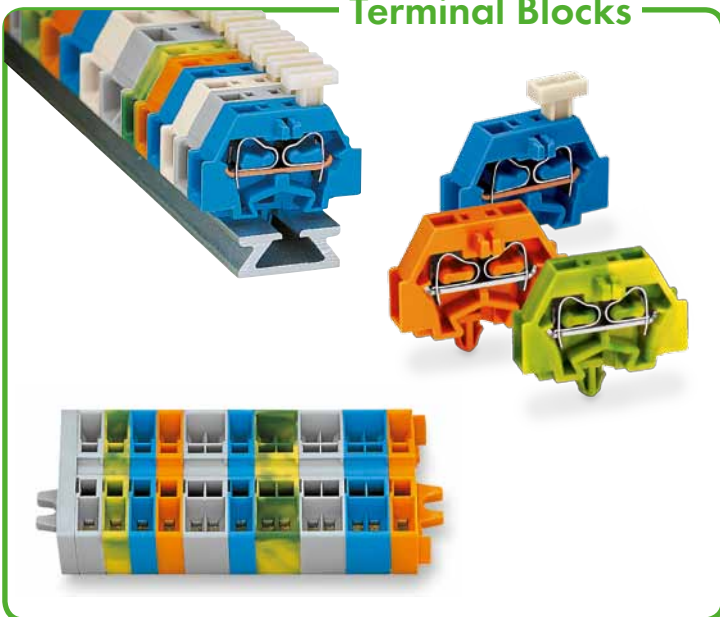
X-COM®-SYSTEM X-COM®-S-SYSTEM



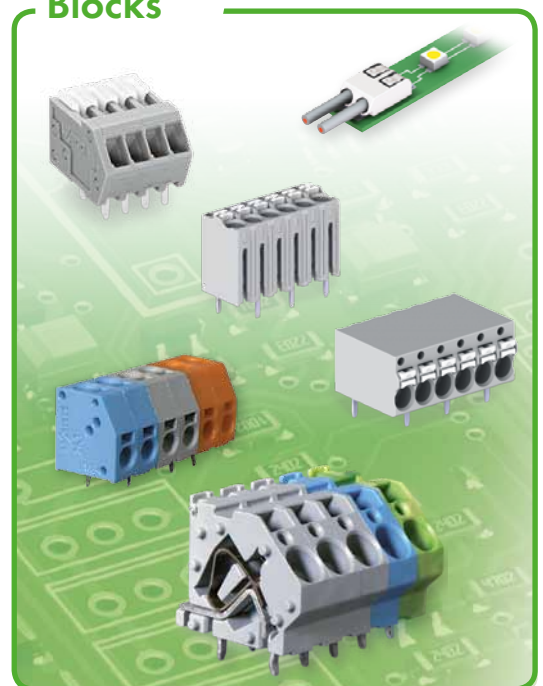
Installation Connectors



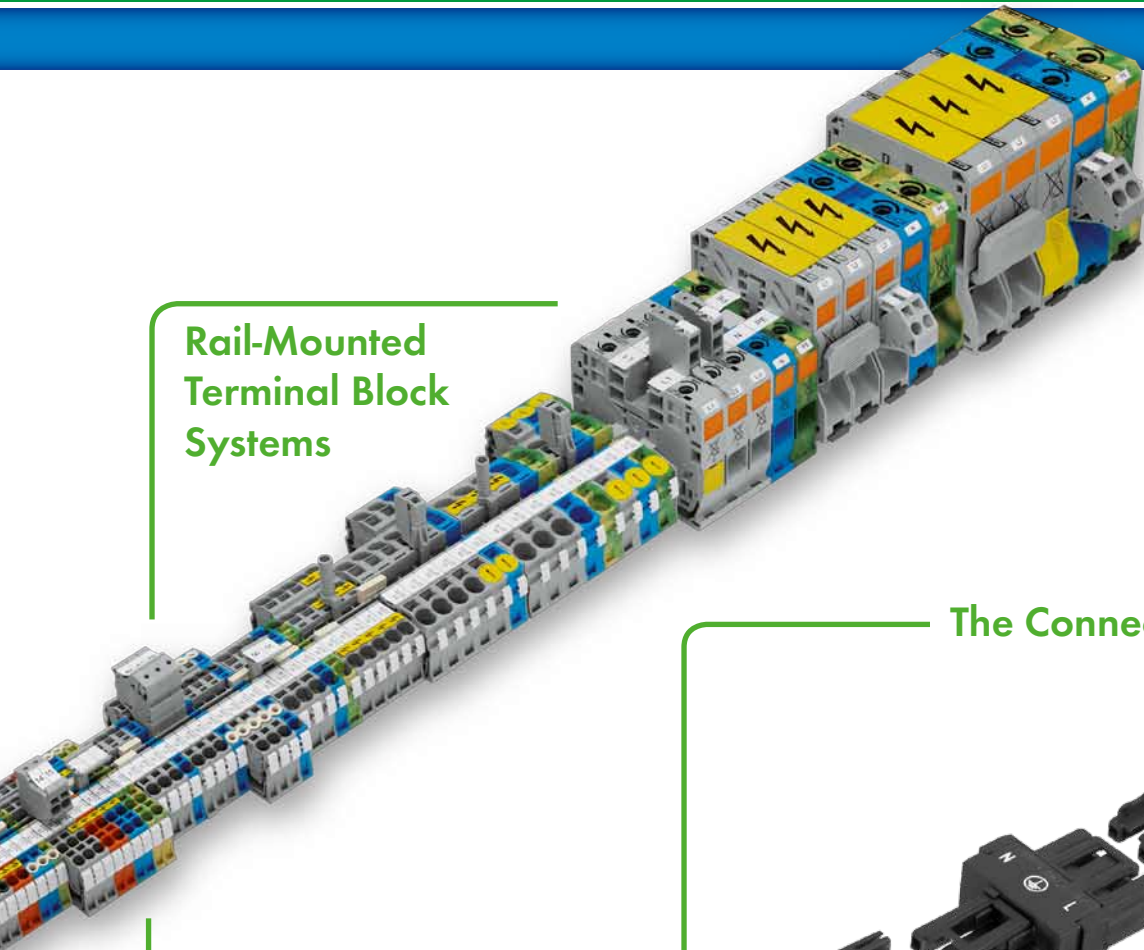
Modular Terminal Blocks



PCB Terminal Blocks



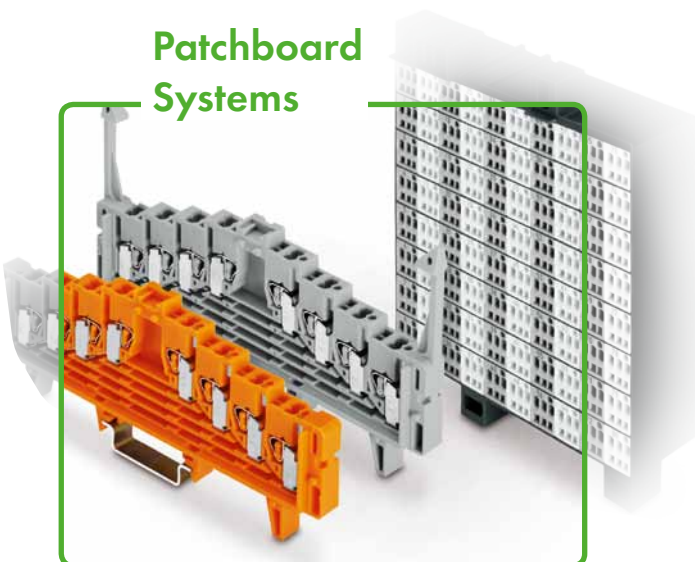
Rail-Mounted Terminal Block Systems



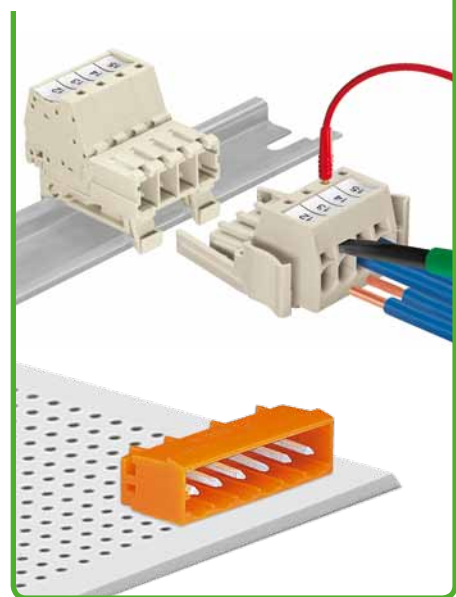
WINSTA® – The Connection System



Patchboard Systems



Connectors



WAGO Product Range: Automation



WAGO I/O-SYSTEM, IP20



Power Supplies



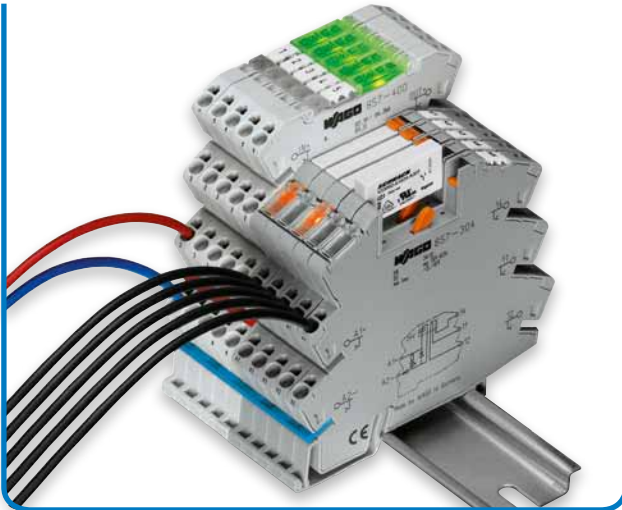
WAGO SPEEDWAY 767,
Modular I/O-SYSTEM, IP67



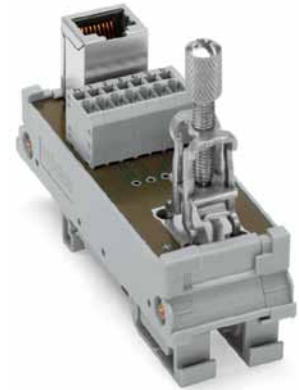
PERSPECTO®



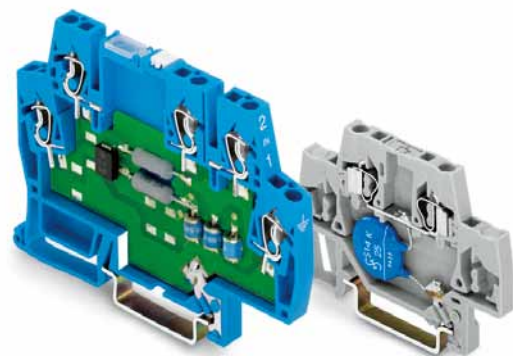
JUMPFLEX® – Transducers and Relay Modules



Interface Modules



Overvoltage Protection



Relay Modules and Relay Sockets



The Wide Variety of Applications



BUILDING AUTOMATION



Building installation and automation

POWER AND PROCESS TECHNOLOGY



Energy, food, water, chemical, petrochemical and metal industries

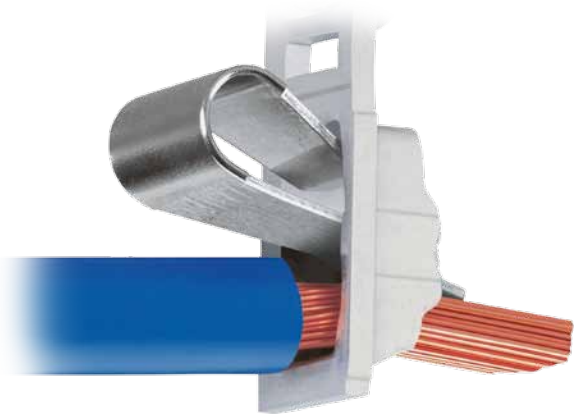
INDUSTRY



Plant automation and traffic engineering

WAGO products can be used in a wide range of applications. Our components and systems are used worldwide in industrial, automotive, process engineering, building and many other sophisticated applications.

- implement innovative solutions
- create a compact design
- save energy
- make equipment safer
- react to requirements in a flexible way
- minimize installation, maintenance costs and downtime
- guarantee reliable operation under extreme conditions
- guarantee high availability and technical safety
- accommodate individual customer requirements

**CAGE CLAMP®S**

The CAGE CLAMP®S technology offers the same quality and handling features as the CAGE CLAMP® connection, however with a significant additional benefit: Solid and stranded conductors that are rigid enough, as well as fine-stranded conductors with ferrules can be directly connected without any tools. This is achieved by simply pushing in the conductor until fully inserted, without having to previously open the clamping unit.

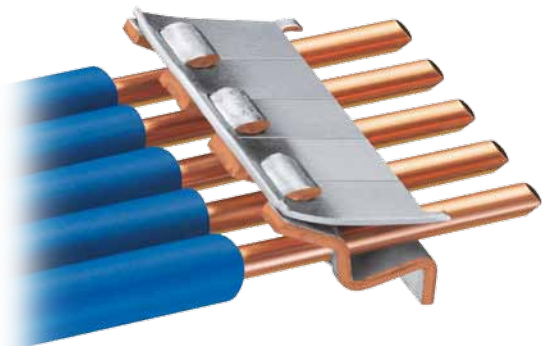
PUSH WIRE®

PUSH WIRE® technology is perfectly suited for fast connection of solid conductors. It utilizes the conductor's stiffness to provide safe, direct insertion into the clamping unit.

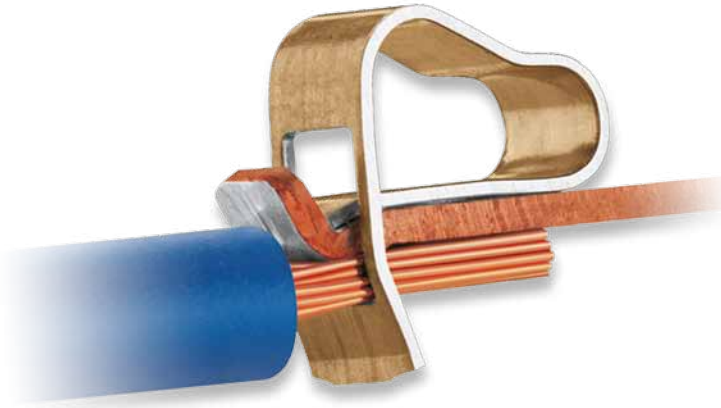
This is the fastest way to connect stripped solid conductors. PUSH WIRE® technology is widely used in connectors for junction boxes that are also available for stranded conductors. Conductor removal is performed by simultaneously twisting and pulling the conductor.

Other types of PUSH WIRE® connectors allow the connection of conductors with less rigidity by opening the clamp using a screwdriver or a push-button.

Similarly, the connected conductor can be easily removed by releasing the clamp.



CAGE CLAMP®



Rail-mounted terminal blocks with the patented WAGO CAGE CLAMP® connection were introduced in 1977. The CAGE CLAMP® technology is available for conductors with a rated cross section from 20 to 2 AWG (0.5–35mm²) in thousands of product variations.

The CAGE CLAMP® technology is suitable for solid, stranded, fine-stranded and extra fine-stranded conductors from a cross section of 28 AWG (0.08mm²). Before inserting the conductor, the CAGE CLAMP® spring must be opened using a screwdriver or, for many products, using an operating lever, push-button or slide.

After releasing the spring, the conductor, which has been inserted into the clamping point, is pressed against the current bar within a defined contact zone. The predefined contact force then ensures consistent clamping forces by automatically adjusting to the conductor cross section.

POWER CAGE CLAMP®



The POWER CAGE CLAMP connection technology is suitable for all conductor types from 10 to 4/0 AWG (6–95mm²). The connected conductor is clamped in a double cage consisting of a spring-loaded bracket and the U-shaped current bar.

To terminate the conductor, a standard Allen wrench is inserted and rotated counterclockwise. Then, the locking tab is pushed in for hands free wiring. The prepared conductor can now be inserted until it hits the backstop. A short counterclockwise turn of the Allen wrench unlocks the locking tab. After rotating Allen wrench clockwise (automatic), the conductor is terminated securely.

Benefits of WAGO Connection Technology

Simple, easy-to-use design

Front-entry wiring:

CAGE CLAMP^{®S}

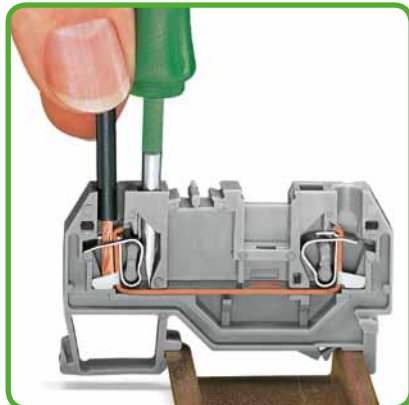
CAGE CLAMP^{®S}
connection



CAGE CLAMP^{®S} connection,
push-in termination of solid
and ferruled conductors

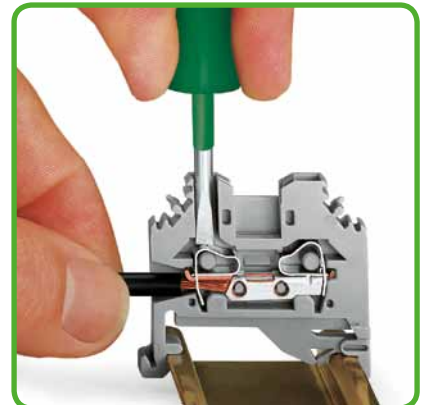
CAGE CLAMP[®]

CAGE CLAMP[®]
connection



CAGE CLAMP[®]
connection

Side-entry wiring:



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

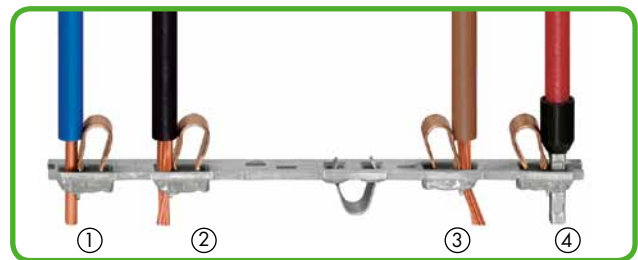
A number of VDE directives mandate or recommend that only one conductor should or must be connected per clamping unit (e.g., DIN VDE 0611, Part 4, 02.91, Section 3.1.9). WAGO complies with this safety requirement, as expressed in the corresponding directives.

Technical and economical benefits for the users:

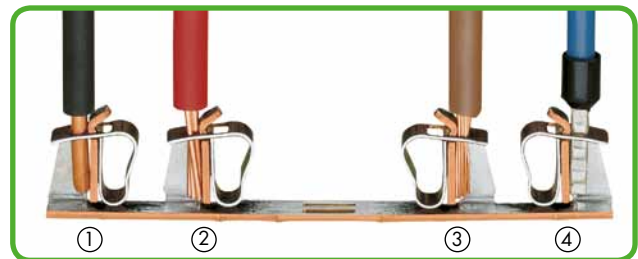
- Each conductor is clamped independently.
- Any conductor size combination per potential can be safely connected.
- Where re-wiring is required, only the conductor to be changed is removed from the clamping point, all other conductors remain safely clamped.
- The arrangement of more than two clamping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

CAGE CLAMP® and CAGE CLAMP®S clamp all copper conductors from 28 to 2 AWG (0.08–35mm²) (4/0 AWG/95mm²), or from 22 to 4 AWG (0.25–25mm²). Splice protection is not required, but possible.

The conductor is pressed against the current bar in the **pre-defined 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.

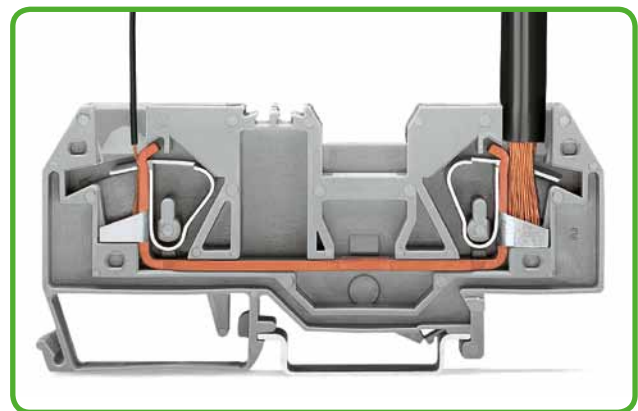


CAGE CLAMP® clamps one conductor per clamping unit.



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 this capability: 24 AWG (0.2mm²) conductor (left) and 6 AWG (16mm²) conductor (right) in a 6 AWG (16mm²) terminal block.

Benefits of WAGO Connection Technology

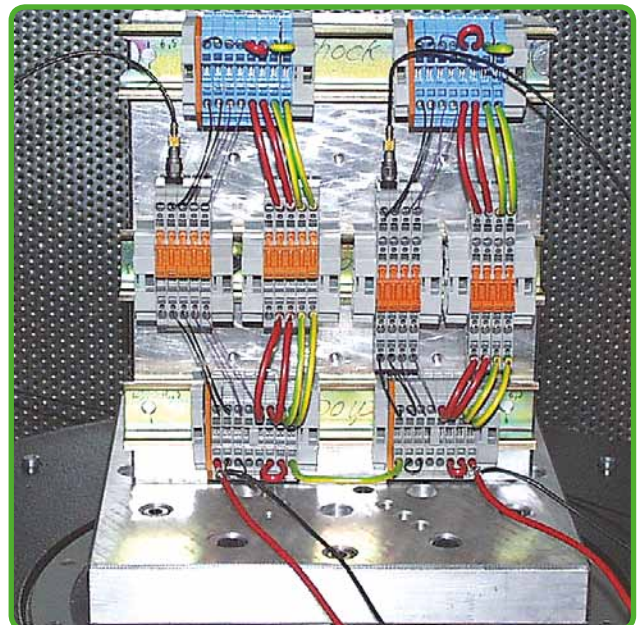
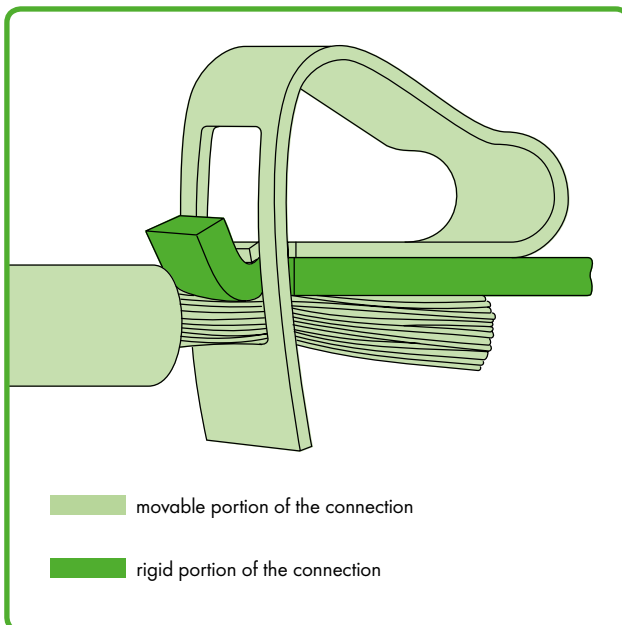
Vibration- and Shock-Proof – Maintenance-Free

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 20m, 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 are 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 world-wide applications.

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

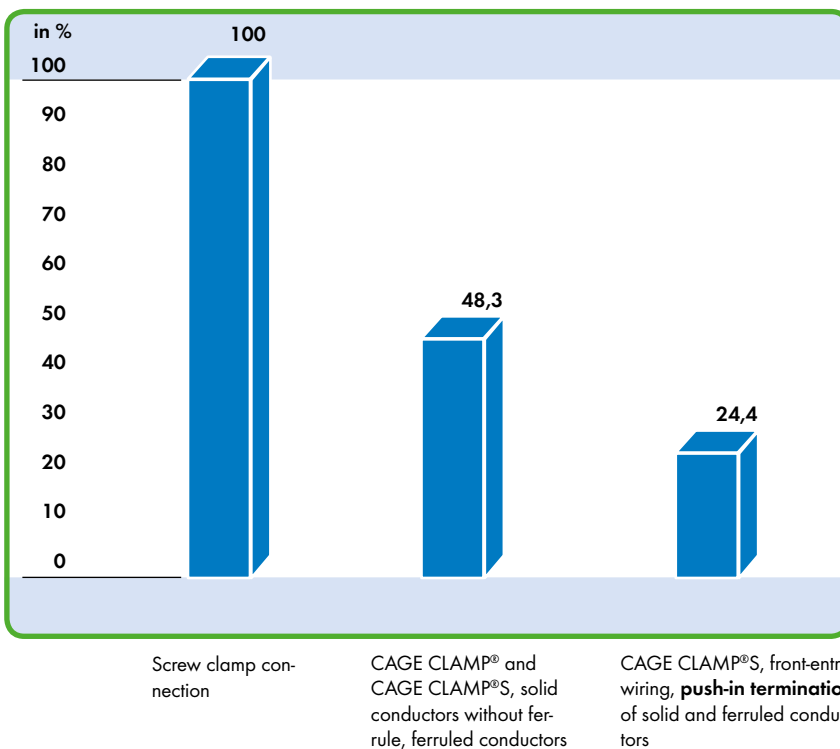


Time-Saving

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)

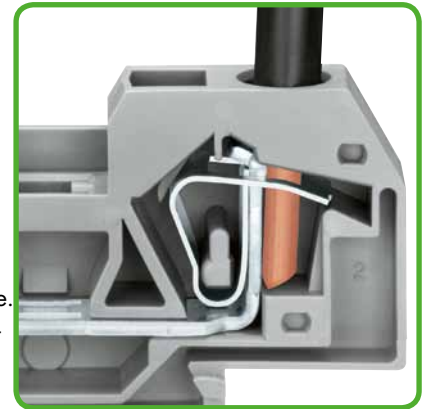
Benefits of WAGO Connection Technology

Gas-tight 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 climatic 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, Marine Applications GL, LR, DNV
- Quick Change of Temperature to IEC/EN 60068-2-14
- Damp Heat, Cyclic (12 + 12 Hours) to IEC/EN 60068-2-30, Marine Applications GL, LR, DNV

Long-term consistency for the low contact resistance of both CAGE CLAMP® and CAGE CLAMP®S results from **gas-tight** 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

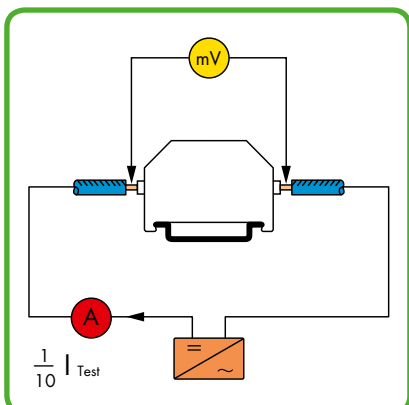
$$P \left[\frac{\text{N}}{\text{mm}^2} \right] = \frac{\text{Force } F \text{ [N]}}{\text{Area } A \text{ [mm}^2\text{]}}$$

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



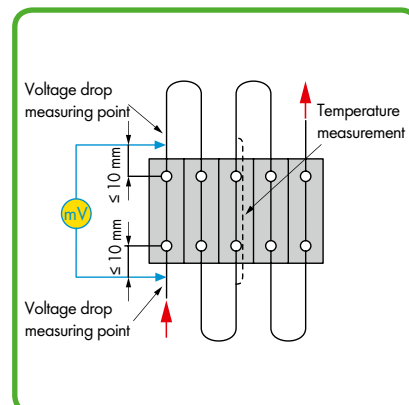
To best evaluate the quality of a clamping point, WAGO uses the following test procedures:

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



Test arrangement: "Voltage Drop Test"

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



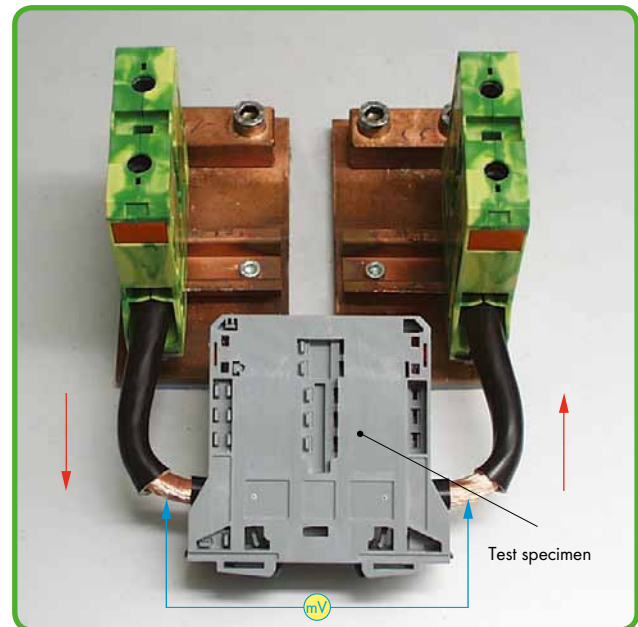
Test arrangement: "Temperature-Rise Test"

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 mm² nominal diameter** for the duration of 1 second. **In the case of a 4/0 AWG (95 mm²) WAGO 285 Series High-Current Terminal Block, this translates to 11,400A!**

Ground conductor terminal blocks are submitted to the "120A per mm²" test for 3x one second.

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



Test arrangement: "Short-Time Current Withstand Test"



Unrealistic test of a CAGE CLAMP®-equipped, 12 AWG (4mm²) rail-mounted terminal block: **Increase of current without time limit.** In such an extreme test – normally, fuse devices would have interrupted the current – **the electrical connection is undamaged.**

TOPJOB® Rail-Mounted Terminal Blocks 2000, 2001, 2002, 2004, 2006, 2010 and 2016 Series

Conductor termination/removal



Push-in termination: Solid conductors with cross sections from either one size above, or up to two sizes below, the rated cross section can be pushed in directly - without tools.



With screwdriver: The operation of the clamp remains the same for unprepared fine-stranded conductors or small cross sections that don't allow push-in termination.

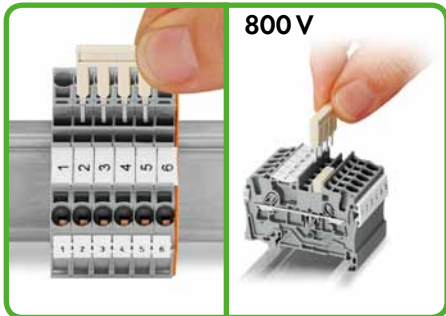
Testing



Testing of TOPJOB®S rail-mounted terminal blocks using test plug adapter or testing tap

Like the original CAGE CLAMP®, a screwdriver is used for conductor removal with CAGE CLAMP®S.

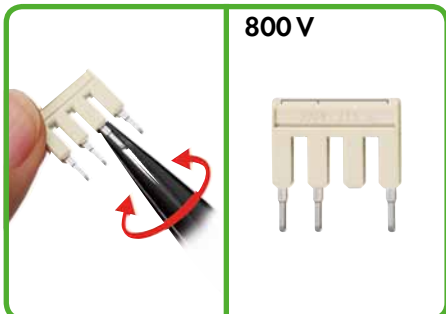
Commoning



800 V

Twin integrated, spring-loaded jumper system allows use of comb-style jumper bars, test plugs and connectors. Jumper bars rated at 800 V (ex works).

Commoning



800 V

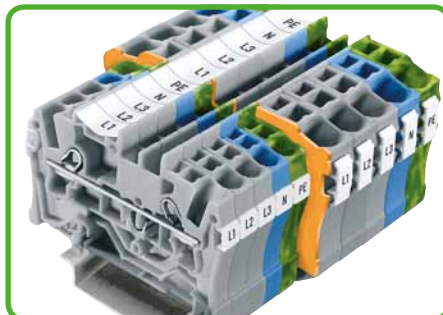
Jumper contacts that are not required can be broken off and removed, the upper-side of the jumper can then be marked accordingly. Applies to 2001, 2002 and 2004 Series.



Marking

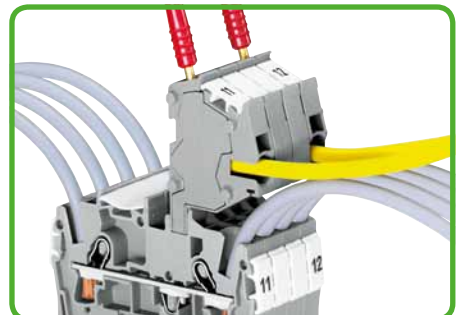


A thermal transfer printer and WAGO "smartDESIGNER" software generate the marking.



TOPJOB®S offers three marking positions for WMB markers, miniature WSB markers or a full-length marking strip.

Pre-assembled connectors



Pre-assembled connectors with CAGE CLAMP®S connection provide an additional connection option.

CAGE CLAMP®S clamps the following copper conductors:



solid



stranded



fine-stranded



tip bonded



with ferrule



with pin terminal

Strip length, see packaging or instructions.










TOPJOB® Rail-Mounted Terminal Blocks 1.0 (1.5) mm² 2000 Series

CAGE CLAMP® S

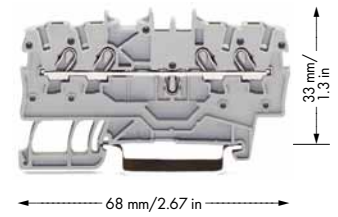
1






















25

1







<p>0.14 - 1.0 (1.5) mm² ① AWG 24 - 16 800 V/6 kV/3 600 V, 10 A  I_N 13.5 A (18 A) 600 V, 10 A </p> <p>Terminal block width 3.5 mm / 0.138 in  9 - 11 mm / 0.39 in</p> <p>② Approvals</p>	<p>0.14 - 1.0 (1.5) mm² ① AWG 24 - 16 800 V/6 kV/3 600 V, 10 A  I_N 13.5 A (18 A) 600 V, 10 A </p> <p>Terminal block width 3.5 mm / 0.138 in  9 - 11 mm / 0.39 in</p> <p>② Approvals</p>	<p>0.14 - 1.0 (1.5) mm² ① AWG 24 - 16 800 V/6 kV/3 600 V, 10 A  I_N 13.5 A (18 A) 600 V, 10 A </p> <p>Terminal block width 3.5 mm / 0.138 in  9 - 11 mm / 0.39 in</p> <p>② Approvals</p>
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① Conductor sizes: 0.14 - 1.5 mm² "s + f-st";
Push-in conductor sizes: 0.5 - 1.5 mm² "s" and 0.5 - 1 mm² "insulated ferrule, 12 mm"


















Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			4-conductor through terminal block		
	2000-1201	100		2000-1301	100		2000-1401	100
	2000-1204	100		2000-1304	100		2000-1404	100
	2000-1202	100		2000-1302	100		2000-1402	100
	2000-1203	100		2000-1303	100		2000-1403	100
	2000-1205	100		2000-1305	100		2000-1405	100
	2000-1206	100		2000-1306	100		2000-1406	100
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
	2000-1207	100		2000-1307	100		2000-1407	100

Item-Specific Accessories

<p>End and intermediate plate, 0.7 mm thick</p> <p> orange 2000-1292 100 (4x25)  gray 2000-1291 100 (4x25)</p>	<p>End and intermediate plate, 0.7 mm thick</p> <p> orange 2000-1392 100 (4x25)  gray 2000-1391 100 (4x25)</p>	<p>End and intermediate plate, 0.7 mm thick</p> <p> orange 2000-1492 100 (4x25)  gray 2000-1491 100 (4x25)</p>
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2000 Series Accessories

Appropriate marking systems: **WMB/Marking Strips**





<p>Push-in type jumper bar, insulated, I_N 14 A, light gray</p> <p> 2-way 2000-402 200 (8x25)  3-way 2000-403 200 (8x25)  4-way 2000-404 200 (8x25)  5-way 2000-405 100 (4x25) : :  10-way 2000-410 100 (4x25)</p>	<p>Push-in type jumper bar, insulated, I_N 14 A, light gray</p> <p> 1 - 3 2000-433 200 (8x25)  1 - 4 2000-434 200 (8x25)  1 - 5 2000-435 100 (4x25) : :  1 - 10 2000-440 100 (4x25)</p>	<p>Star point jumper, insulated, I_N = I_N terminal block, light gray</p> <p> 1-3-5 2000-405/011-000 100 (4x25)</p>
<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</p> <p> yellow 2000-115 100 (4x25)</p>	<p>WMB Multi marking system,</p> <p>10 strips with 10 markers per card for 3.5 mm terminal block width, plain 793-3501 50 (10x5)</p>	<p>Marking strips, plain</p> <p>11 mm wide, 50m roll white 2009-110 1</p>
<p>Operating tool with partially insulated shaft,</p> <p>type 1, (2.5 x 0.4) mm blade 210-719 1</p>	<p> Suitable for Ex i applications</p>	<p>Test plug adapter, for test plug 4 mm Ø</p> <p> gray 2009-174 100 (4x25)</p>
<p>Insulated ferrules, extra long, for TOPJOB®S terminal blocks see page 195</p> <p></p>		<p>Testing tap, for max. 2.5 mm²/AWG 14</p> <p> gray 2009-182 100 (4x25)</p>

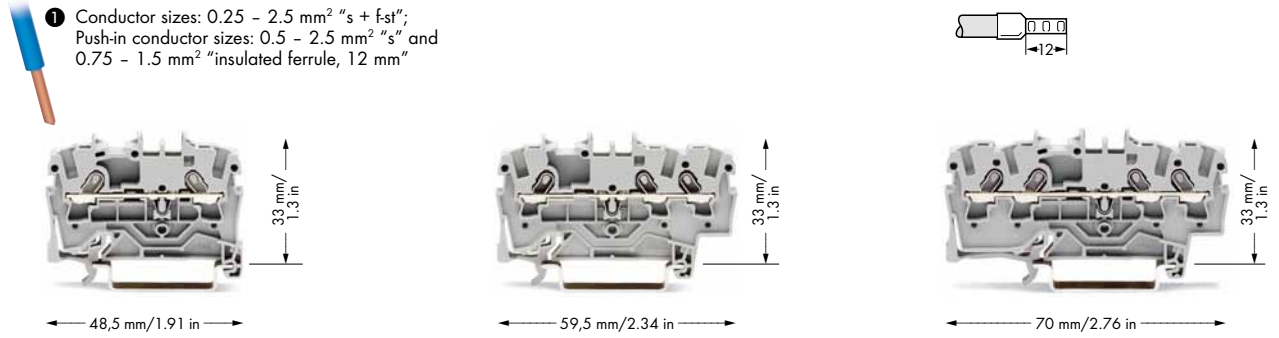
② Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.














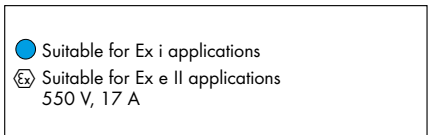

TOPJOB® Through/Ground Conductor and Ex Terminal Blocks 1.5 (2.5) mm² 2001 Series

0.25 - 1.5 (2.5) mm² ① 800 V/8 kV/3 I _N 18 A (24 A) Terminal block width 4.2 mm / 0.165 in  9 - 11 mm / 0.39 in ② Approvals	AWG 22 - 14 600 V, 10 A Ⓢ 600 V, 10 A Ⓢ I _N 18 A (24 A) Terminal block width 4.2 mm / 0.165 in  9 - 11 mm / 0.39 in ② Approvals	0.25 - 1.5 (2.5) mm² ① 800 V/8 kV/3 I _N 18 A (24 A) Terminal block width 4.2 mm / 0.165 in  9 - 11 mm / 0.39 in ② Approvals	AWG 22 - 14 600 V, 10 A Ⓢ 600 V, 10 A Ⓢ I _N 18 A (24 A) Terminal block width 4.2 mm / 0.165 in  9 - 11 mm / 0.39 in ② Approvals
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			4-conductor through terminal block		
gray Ⓢ	2001-1201	100	gray Ⓢ	2001-1301	100	gray Ⓢ	2001-1401	100
blue Ⓢ	2001-1204	100	blue Ⓢ	2001-1304	100	blue Ⓢ	2001-1404	100
orange Ⓢ	2001-1202	100	orange Ⓢ	2001-1302	100	orange Ⓢ	2001-1402	100
red Ⓢ	2001-1203	100	red Ⓢ	2001-1303	100	red Ⓢ	2001-1403	100
black Ⓢ	2001-1205	100	black Ⓢ	2001-1305	100	black Ⓢ	2001-1405	100
yellow Ⓢ	2001-1206	100	yellow Ⓢ	2001-1306	100	yellow Ⓢ	2001-1406	100
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow Ⓢ	2001-1207	100	green-yellow Ⓢ	2001-1307	100	green-yellow Ⓢ	2001-1407	100
Other terminal blocks with the same profile:			Other terminal blocks with the same profile:			Other terminal blocks with the same profile:		
Diode	2001-1211/1000-411	Volume 1	Diode	2001-1311/1000-411	Volume 1	Diode	2001-1411/1000-411	Volume 1
			LED	2001-1321/1000-434	Volume 1	Diode	2001-1411/1000-434	Volume 1
						Double-potential	2001-1441	Volume 1

Item-Specific Accessories		Separator for Ex e/Ex i applications, see page 30	
End and intermediate plate, 0.8 mm thick  orange 2002-1292 100 (4x25) gray 2002-1291 100 (4x25)	End and intermediate plate, 0.8 mm thick  orange 2002-1392 100 (4x25) gray 2002-1391 100 (4x25)	End and intermediate plate, 0.8 mm thick  orange 2002-1492 100 (4x25) gray 2002-1491 100 (4x25)	
Separator, oversized, 0.8 mm thick  orange 2002-1294 100 (4x25) gray 2002-1293 100 (4x25)	Separator, oversized, 0.8 mm thick  orange 2002-1394 100 (4x25) gray 2002-1393 100 (4x25)	Separator, oversized, 0.8 mm thick  orange 2002-1494 100 (4x25) gray 2002-1493 100 (4x25)	

2001 Series Accessories		Appropriate marking systems: WMB/Marking Strips	
Push-in type jumper bar, insulated, I_N 18 A, light gray  2-way 2001-402 200 (8x25) 3-way 2001-403 200 (8x25) 4-way 2001-404 200 (8x25) : : 10-way 2001-410 100 (4x25)	Push-in type jumper bar, insulated, I_N 18 A, light gray  1 - 3 2001-433 200 (8x25) 1 - 4 2001-434 200 (8x25) 1 - 5 2001-435 100 (4x25) : : 1 - 10 2001-440 100 (4x25)	Push-in type wire jumper, insulated, I_N 16 A, wire size 1.5 mm²/AWG 16  60 mm 2009-412 100 (10x10) 110 mm 2009-414 100 (10x10) 250 mm 2009-416 100 (10x10)	
Insulation stop, 5 pcs/strip, 0.25 - 0.5 mm ² light gray 2001-171 200 (8x25)	Protective warning marker, with high-voltage symbol, for 5 terminal blocks  yellow 2001-115 100 (4x25)	TOPJOB'S connector, modular, for jumper contact slot  gray 2001-511 100 (4x25)	
WMB Multi marking system, 10 strips with 10 markers per card, stretchable 4 - 4.2 mm plain 793-4501 5	 ● Suitable for Ex i applications Ⓢ Suitable for Ex e II applications 550 V, 17 A	Spacer module gray 2001-549 100 (4x25)	
Marking strip, plain, 11 mm wide, 50m roll white 2009-110 1		Operating tool with partially insulated shaft, type 1, (2.5 x 0.4) mm blade 210-719 1	
		Insulated ferrules, extra long, for TOPJOB'S terminal blocks  see page 195	

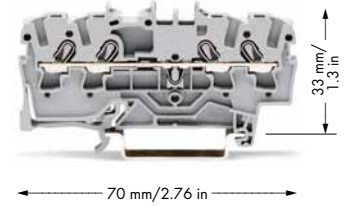
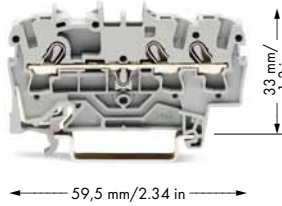
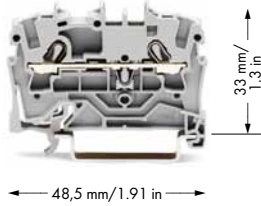
② Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

Through/Ground Conductor and Ex Terminal Blocks 2.5 (4) mm²
2002 Series

<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 800 V/8 kV/3 600 V, 20 A 600 V, 20 A </p> <p>Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in.</p> <p>② Approvals</p>	<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 800 V/8 kV/3 600 V, 20 A 600 V, 20 A </p> <p>Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in.</p> <p>② Approvals</p>	<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 800 V/8 kV/3 600 V, 20 A 600 V, 20 A </p> <p>Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in.</p> <p>② Approvals</p>
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① Conductor sizes: 0.25 - 4 mm² "s + f-st";
Push-in conductor sizes: 0.75 - 4 mm² "s" and
0.75 - 2.5 mm² "insulated ferrule, 12 mm"



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			4-conductor through terminal block		
gray	2002-1201	100	gray	2002-1301	100	gray	2002-1401	100
blue	2002-1204	100	blue	2002-1304	100	blue	2002-1404	100
orange	2002-1202	100	orange	2002-1302	100	orange	2002-1402	100
red	2002-1203	100	red	2002-1303	100	red	2002-1403	100
black	2002-1205	100	black	2002-1305	100	black	2002-1405	100
yellow	2002-1206	100	yellow	2002-1306	100	yellow	2002-1406	100
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow	2002-1207	100	green-yellow	2002-1307	100	green-yellow	2002-1407	100
Other terminal blocks with the same profile:			Other terminal blocks with the same profile:			Other terminal blocks with the same profile:		
Diode	2002-1211/1000-411	Page 42	Diode	2002-1311/1000-411	Page 42	Diode	2002-1411/1000-411	Page 42
			LED	2002-1321/1000-434	Page 42	Diode	2002-1411/1000-434	Page 42
						Double-potential	2002-1441	Volume 1







Item-Specific Accessories Separator for Ex e/Ex i applications, see page 30

<p>End and intermediate plate, 0.8 mm thick</p> <p> orange 2002-1292 100 (4x25) gray 2002-1291 100 (4x25)</p>	<p>End and intermediate plate, 0.8 mm thick</p> <p> orange 2002-1392 100 (4x25) gray 2002-1391 100 (4x25)</p>	<p>End and intermediate plate, 0.8 mm thick</p> <p> orange 2002-1492 100 (4x25) gray 2002-1491 100 (4x25)</p>
<p>Separator, oversized, 0.8 mm thick</p> <p> orange 2002-1294 100 (4x25) gray 2002-1293 100 (4x25)</p>	<p>Separator, oversized, 0.8 mm thick</p> <p> orange 2002-1394 100 (4x25) gray 2002-1393 100 (4x25)</p>	<p>Separator, oversized, 0.8 mm thick</p> <p> orange 2002-1494 100 (4x25) gray 2002-1493 100 (4x25)</p>

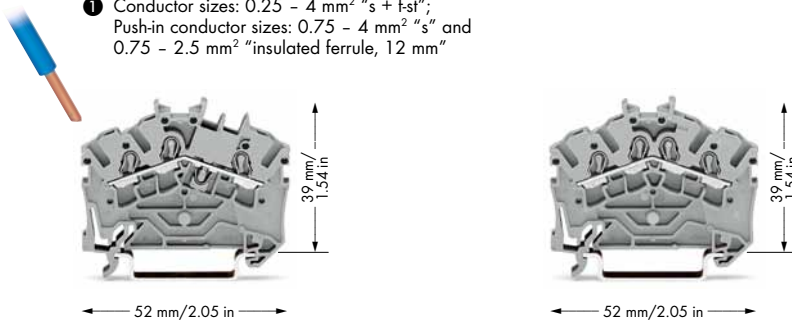
2002 Series Accessories Appropriate marking systems: WMB/Marking Strips/WMB Inline/Mini-WSB

















<p>Push-in type jumper bar, insulated, I_N 25 A, light gray</p> <p> 2-way 2002-402 200 (8x25) 3-way 2002-403 200 (8x25) 4-way 2002-404 200 (8x25) : 10-way 2002-410 100 (4x25)</p>	<p>Push-in type jumper bar, insulated, I_N 25 A, light gray</p> <p> 1 - 3 2002-433 200 (8x25) 1 - 4 2002-434 200 (8x25) 1 - 5 2002-435 100 (4x25) : 1 - 10 2002-440 100 (4x25)</p>	<p>Staggered jumper, insulated, I_N 25 A, light gray</p> <p> 2-way 2002-472 100 (4x25) 3-way 2002-473 100 (4x25) 4-way 2002-474 100 (4x25) : 12-way 2002-482 50 (2x25)</p>
<p>Insulation stop, 5 pcs/strip 200 strips</p> <p> light gray 2002-171 0.25-0.5 mm² dark gray 2002-172 0.75-1 mm²</p>	<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</p> <p> yellow 2002-115 100 (4x25)</p>	<p>TOPJOB®S connector, modular, for jumper contact slot</p> <p> gray 2002-511 100 (4x25)</p>
<p>WMB Multi marking system,</p> <p>10 strips with 10 markers per card, stretchable 5 - 5.2 mm plain 793-5501 5</p>	<p> Suitable for Ex i applications Suitable for Ex e II applications 550 V, 22 A</p>	<p>Spacer module</p> <p> gray 2002-549 100 (4x25)</p>
<p>Marking strip, plain,</p> <p>11 mm wide, 50m roll white 2009-110 1</p>		<p>Operating tool with partially insulated shaft,</p> <p>type 2, (3.5 x 0.5) mm blade 210-720 1</p>
		<p>Insulated ferrules, extra long, for TOPJOB®S terminal blocks</p> <p> see page 195</p>

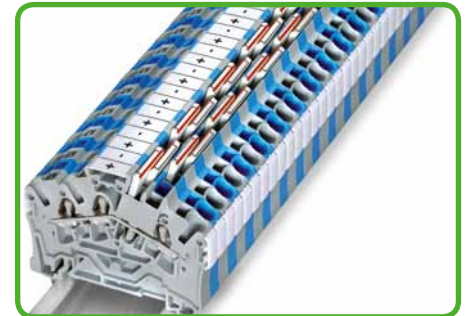
TOPJOB® Through/Ground and Ex Terminal Blocks 2.5 (4) mm², Angled Type 2002 Series



<p>0.25 - 2.5 (4) mm² ① 800 V/8 kV/3 I_N 24 A (32 A)</p> <p>Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in.</p> <p>② Approvals</p>	<p>AWG 22 - 12 600 V, 20 A  600 V, 20 A </p>	<p>0.25 - 2.5 (4) mm² ① 800 V/8 kV/3 I_N 24 A (32 A)</p> <p>Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in.</p> <p>② Approvals</p>	<p>AWG 22 - 12 600 V, 20 A  600 V, 20 A </p>
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




① Conductor sizes: 0.25 - 4 mm² "s + f-st";
Push-in conductor sizes: 0.75 - 4 mm² "s" and
0.75 - 2.5 mm² "insulated ferrule, 12 mm"



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
3-conductor through terminal block			4-conductor through terminal block		
gray  	2002-6301	100	gray  	2002-6401	100
blue  	2002-6304	100	blue  	2002-6404	100
orange  	2002-6302	100	orange  	2002-6402	100
Additional colors pending			Additional colors pending		
3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow  	2002-6307	100	green-yellow  	2002-6407	100
Notice: These terminal blocks cannot be commoned with push-in type jumper bars!					



Item-Specific Accessories			Item-Specific Accessories		
End and intermediate plate, 0.8 mm thick			End and intermediate plate, 0.8 mm thick		
	orange	2002-6392 100 (4x25)		orange	2002-6392 100 (4x25)
	gray	2002-6391 100 (4x25)		gray	2002-6391 100 (4x25)

2002 Series Accessories		Appropriate marking systems: WMB/Marker Strips/WMB Inline/Mini-WSB	
	Push-in type jumper bar , insulated, I _N 25 A, light gray		
	2-way 2002-402 200 (8x25)		
	3-way 2002-403 200 (8x25)		
	4-way 2002-404 200 (8x25)		
	5-way 2002-405 100 (4x25)		
	: : :		
	10-way 2002-410 100 (4x25)		
	Push-in type jumper bars , light gray, insulated, I _N 25 A		Insulated ferrules , extra long, for TOPJOB®S terminal blocks, see page 195
	1 - 3 2002-433 200 (8x25)		
	1 - 4 2002-434 200 (8x25)		
	1 - 5 2002-435 100 (4x25)		
	: : :		
	1 - 10 2002-440 100 (4x25)		Insulation stop , 5 pcs/strip 200 strips
			light gray 2002-171 0.25-0.5 mm ² dark gray 2002-172 0.75-1 mm ²
	Staggered jumper , insulated, I _N 25 A, light gray		Protective warning marker , with high-voltage symbol, for 5 terminal blocks
	2-way 2002-472 100 (4x25)		yellow 2002-115 100 (4x25)
	3-way 2002-473 100 (4x25)		
	4-way 2002-474 100 (4x25)		
	5-way 2002-475 50 (2x25)		
	: : :		
	12-way 2002-482 50 (2x25)		Test plug adapter , for test plug 4 mm Ø
			gray 2009-174 100 (4x25)
	TOPJOB®S connector , modular, for jumper contact slot		Testing tap , for max. 2.5 mm ² /AWG 14
	gray 2002-511 100 (4x25)		gray 2009-182 100 (4x25)
	Spacer module		Banana plugs , only for safety extra-low voltage (42 V)
	gray 2002-549 100 (4x25)		black 215-311 50
			red 215-212 50
			blue 215-711 50
	Operating tool with partially insulated shaft , type 2, (3.5 x 0.5) mm blade	<ul style="list-style-type: none">  Suitable for Ex i applications  Suitable for Ex e II applications 	
	210-720 1		550 V, 22 A

3- and 4-conductor terminal blocks

The TOPJOB®S rail-mounted terminal blocks have a 35-degree conductor entry angle permitting a very small bend radius and an extremely short wiring distance to the cable duct. For applications in switchgear and control cabinets using the LSC wiring system from Lütze, e.g., these terminal blocks are a space- and cost-saving solution. This allows the cable duct to be placed very close to the terminal blocks, keeping its height relatively low.










Product features:

- CAGE CLAMP®S connection for all conductor types, with the additional benefit of solid and ferruled conductors being simply pushed in
- Vibration-proof, fast, maintenance-free terminations
- 3-conductor through and ground conductor terminal blocks equipped with a dual jumper slot
- 4-conductor terminal blocks permit potential multiplication - no additional jumpers or terminal blocks needed
- 3- and 4-conductor terminal blocks have **the same dimensions**

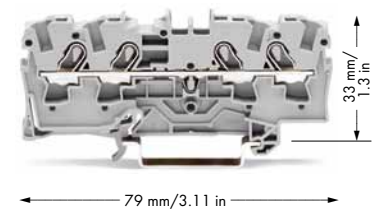
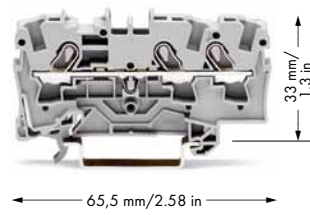
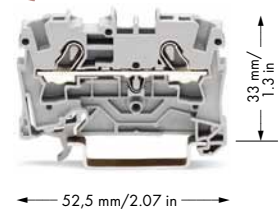
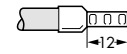
An end plate must be applied when changing from a 3-conductor terminal block to a 4-conductor terminal block and vice versa.











































② Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

<p>0.5 - 4 (6) mm² ① 800 V/8 kV/3 I_N 32 A (41 A)</p> <p>AWG 20 - 10 600 V, 30 A  600 V, 30 A </p> <p>Terminal block width 6.2 mm / 0.244 in  11 - 13 mm / 0.47 in</p> <p>② Approvals</p>	<p>0.5 - 4 (6) mm² ① 800 V/8 kV/3 I_N 32 A (41 A)</p> <p>AWG 20 - 10 600 V, 30 A  600 V, 30 A </p> <p>Terminal block width 6.2 mm / 0.244 in  11 - 13 mm / 0.47 in</p> <p>② Approvals</p>	<p>0.5 - 4 (6) mm² ① 800 V/8 kV/3 I_N 32 A (41 A)</p> <p>AWG 20 - 10 600 V, 30 A  600 V, 30 A </p> <p>Terminal block width 6.2 mm / 0.244 in  11 - 13 mm / 0.47 in</p> <p>② Approvals</p>
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







① Conductor sizes: 0.5 - 6 mm² "s + f.st.";
Push-in conductor sizes: 1 - 6 mm² "s" and
0.75 - 4 mm² "insulated ferrule, 12 mm"



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			4-conductor through terminal block		
 gray 	2004-1201	100	 gray 	2004-1301	100	 gray 	2004-1401	100
 blue 	2004-1204	100	 blue 	2004-1304	100	 blue 	2004-1404	100
 orange 	2004-1202	100	 orange 	2004-1302	100	 orange 	2004-1402	100
 red 	2004-1203	100	 red 	2004-1303	100	 red 	2004-1403	100
 black 	2004-1205	100	 black 	2004-1305	100	 black 	2004-1405	100
 yellow 	2004-1206	100	 yellow 	2004-1306	100	 yellow 	2004-1406	100
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
 green-yellow 	2004-1207	100	 green-yellow 	2004-1307	100	 green-yellow 	2004-1407	100






Item-Specific Accessories

Separator for Ex e/Ex i applications, see page 30







<p>End and intermediate plate, 1 mm thick</p> <p> orange 2004-1292 100 (4x25)  gray 2004-1291 100 (4x25)</p>	<p>End and intermediate plate, 1 mm thick</p> <p> orange 2004-1392 100 (4x25)  gray 2004-1391 100 (4x25)</p>	<p>End and intermediate plate, 1 mm thick</p> <p> orange 2004-1492 100 (4x25)  gray 2004-1491 100 (4x25)</p>
<p>Separator, oversized, 0.8 mm thick</p> <p> orange 2004-1294 100 (4x25)  gray 2004-1293 100 (4x25)</p>	<p>Separator, oversized, 0.8 mm thick</p> <p> orange 2004-1394 100 (4x25)  gray 2004-1393 100 (4x25)</p>	<p>Separator, oversized, 0.8 mm thick</p> <p> orange 2004-1494 100 (4x25)  gray 2004-1493 100 (4x25)</p>

2004 Series Accessories

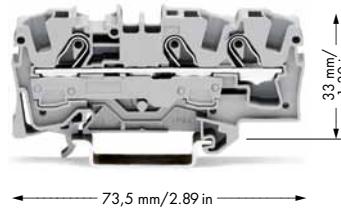
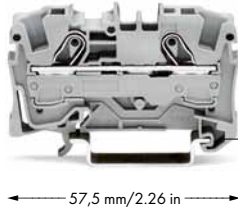
Appropriate marking systems: WMB/Marking strips/Mini-WSB



















<p>Push-in type jumper bar, insulated, I_N 32 A, light gray</p> <p> 2-way 2004-402 200 (8x25) 3-way 2004-403 200 (8x25) 4-way 2004-404 100 (4x25) : 10-way 2004-410 100 (4x25)</p>	<p>Push-in type jumper bar, insulated, I_N 32 A, light gray</p> <p> 1 - 3 2004-433 200 (8x25) 1 - 4 2004-434 200 (8x25) 1 - 5 2004-435 100 (4x25) : 1 - 10 2004-440 100 (4x25)</p>	<p>Star point jumper, insulated, I_N = I_N terminal block, light gray 1-3-5 2004-405/011-000 100 (4x25)</p> <p>Step-down jumper, insulated, I_N 32 A light gray 2006-499 50 (2x25)</p>
<p>Insulation stop, 5 pcs/strip 200 strips</p> <p> light gray 2004-171 0.25-0.5 mm² dark gray 2004-172 0.75-1 mm²</p>	<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks yellow 2004-115 100 (4x25)</p>	<p>TOPJOB®S connector, modular, for jumper contact slot gray 2004-511 100 (4x25)</p> <p>Spacer module gray 2004-549 100 (4x25)</p>
<p>WMB Multi marking system, 10 strips with 10 markers per card, stretchable 5 - 5.2 mm plain 793-5501 5</p>	<p> Suitable for Ex i applications  Suitable for Ex e II applications 550 V, 30 A</p>	<p>Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade 210-720 1</p>
<p>Marking strip, plain, 11 mm wide, 50m roll white 2009-110 1</p>	<p>Insulated ferrules, extra long, for TOPJOB®S terminal blocks see page 195</p>	

TOPJOB® Through/Ground Conductor and Ex Terminal Blocks 6 (10) mm² 2006 Series



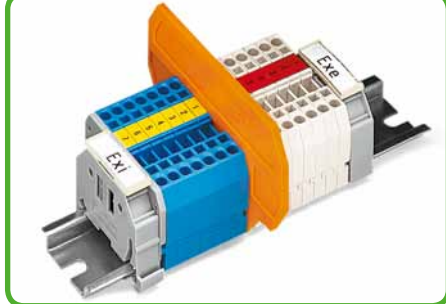
0.5 - 6 (10) mm² ① 800 V/8 kV/3 I _N 41 A (57 A) Terminal block width 7.5 mm / 0.295 in  13 - 15 mm / 0.55 in ② Approvals	AWG 20 - 8 600 V, 50 A  600 V, 50 A 	0.5 - 6 (10) mm² ① 800 V/8 kV/3 I _N 41 A (57 A) Terminal block width 7.5 mm / 0.295 in  13 - 15 mm / 0.55 in ② Approvals	AWG 20 - 8 600 V, 50 A  600 V, 50 A 	Separator for Ex e/Ex i applications
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① Conductor sizes: 0.5 - 10 mm² "s + f-st";
 Push-in conductor sizes: 1.5 - 10 mm² "s" and
 1.5 - 6 mm² "insulated ferrule, 12 mm"



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			Separator for Ex e/Ex i applications, 3 mm thick,	
 gray 	2006-1201	50	 gray 	2006-1301	25	orange	
 blue 	2006-1204	50	 blue 	2006-1304	25		
 orange 	2006-1202	50	 orange 	2006-1302	25	90 mm wide	209-190 50 (2x25)
						120 mm wide	209-191 50 (2x25)
2-conductor ground terminal block			3-conductor ground terminal block				
 green-yellow 	2006-1207	50	 green-yellow 	2006-1307	25		
Item-Specific Accessories							
End and intermediate plate, 1 mm thick				End and intermediate plate, 1 mm thick			
	orange	2006-1292	100 (4x25)		orange	2006-1392	100 (4x25)
	gray	2006-1291	100 (4x25)		gray	2006-1391	100 (4x25)

2006 Series Accessories Appropriate marking systems: WMB/Marking strips/Mini-WSB

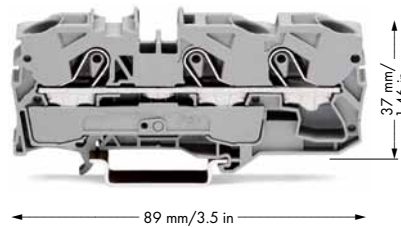
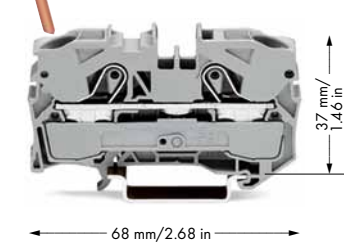
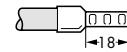
Push-in type jumper bar, insulated, I_N 41 A, light gray  2-way 2006-402 50 (2x25) 3-way 2006-403 50 (2x25) 4-way 2006-404 50 (2x25) 5-way 2006-405 50 (2x25)	Push-in type jumper bar, insulated, I_N 41 A, light gray  1 - 3 2006-433 50 (2x25) 1 - 4 2006-434 50 (2x25) 1 - 5 2006-435 50 (2x25)	 <p>Separator for Ex e/Ex i applications According to EN 50020, a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. The use of Ex e/Ex i separators is a space-saving solution when Ex e and Ex i terminal blocks are mounted on a common carrier rail.</p> <p>Suitable for Series: 279 to 282, 2001, 2002 and 2004.</p> <p>209-190 for 2-conductor terminal blocks. 209-191 for 2-, 3-, 4-conductor terminal blocks.</p>
Star point jumper, insulated, I _N = I _N terminal block, light gray 1-3-5 2004-405/011-000 100 (4x25)	Step-down jumper, insulated, I _N 32 A light gray 2006-499 50 (2x25)	
Protective warning marker, with high-voltage symbol, for 5 terminal blocks yellow 2006-115 100 (4x25)	Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade 210-721 1	
Test plug adapter, for test plug 4 mm Ø gray 2009-174 100 (4x25) Testing tap, for max. 2.5 mm²/AWG 14 gray 2009-182 100 (4x25)	Banana plugs, only for safety extra-low voltage (42 V) black 215-311 50 red 215-212 50 blue 215-711 50	
Marking strips, plain, 11 mm wide, 50m roll white 2009-110 1	WMB Multi marking system, 10 strips with 10 markers per card, stretchable 5 - 5.2 mm plain 793-5501 50 (10x5)	
Insulated ferrules, extra long, for TOPJOB®S terminal blocks see page 195	● Suitable for Ex i applications ☒ Suitable for Ex e II applications 550 V, 38 A (2-conductor terminal blocks) 550 V, 36 A (3-conductor terminal blocks)	

② Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

<p>0.5 - 10 (16) mm² ① AWG 20 - 6 800 V/8 kV/3 600 V, 65 A I_N 57 A (76 A) 600 V, 65 A </p> <p>Terminal block width 10 mm / 0.394 in 17 - 19 mm / 0.71 in</p> <p>② Approvals</p>	<p>0.5 - 10 (16) mm² ① AWG 20 - 6 800 V/8 kV/3 600 V, 65 A I_N 57 A (76 A) 600 V, 65 A </p> <p>Terminal block width 10 mm / 0.394 in 17 - 19 mm / 0.71 in</p> <p>② Approvals</p>	<p>Step-down jumper</p>
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① Conductor sizes: 0.5 - 16 mm² "s + f-st";
Push-in conductor sizes: 2.5 - 16 mm² "s" and
2.5 - 10 mm² "insulated ferrule, 18 mm"



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			Step-down jumper, light gray, insulated,	
gray	2010-1201	25	gray	2010-1301	25	I _N 32 A,	
blue	2010-1204	25	blue	2010-1304	25	commons 6/4mm ² (AWG 10/12) t. blocks with	
orange	2010-1202	25	orange	2010-1302	25	4/2.5/1.5mm ² (AWG 12/14/16) blocks.	2006-499 50 (2x25)
2-conductor ground terminal block			3-conductor ground terminal block			Step-down jumper, light gray, insulated,	
green-yellow	2010-1207	25	green-yellow	2010-1307	25	I _N 32 A,	
Item-Specific Accessories						commons 16/10 mm ² (AWG 16/8) t. blocks with	
End and intermediate plate, 1 mm thick			End and intermediate plate, 1 mm thick			10/6/4/2.5 mm ² (AWG 8/10/12/14) blocks.	
	orange 2010-1292 100 (4x25)			orange 2010-1392 100 (4x25)		2016-499	50 (2x25)
	gray 2010-1291 100 (4x25)			gray 2010-1391 100 (4x25)			
2010 Series Accessories			Appropriate marking systems: WMB/Marking strips/Mini-WSB				

Push-in type jumper bar, insulated, I_N 57 A, light gray

2-way	2010-402	50 (2x25)
3-way	2010-403	50 (2x25)
4-way	2010-404	50 (2x25)
5-way	2010-405	50 (2x25)

Push-in type jumper bar, insulated, I_N 57 A, light gray

1 - 3	2010-433	50 (2x25)
1 - 4	2010-434	50 (2x25)
1 - 5	2010-435	50 (2x25)

Step-down jumper, insulated,

I _N 32 A	
light gray	2006-499 50 (2x25)

Finger guard,

touchproof cover protects unused conductor entries	
yellow	2010-100 100 (4x25)

Protective warning marker, with high-voltage symbol, for 5 terminal blocks

yellow	2010-115 50 (2x25)
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Operating tool with partially insulated shaft,

type 3, (5.5 x 0.8) mm blade	
	210-721 1

Test plug adapter, for test plug 4 mm Ø

gray	2009-174 100 (4x25)
Testing tap, for max. 2.5 mm ² /AWG 14	
gray	2009-182 100 (4x25)

Banana plugs, only for safety extra-low voltage (42 V)

black	215-311 50
red	215-212 50
blue	215-711 50

Marking strips, plain,

11 mm wide,	
50m roll	
white	2009-110 1

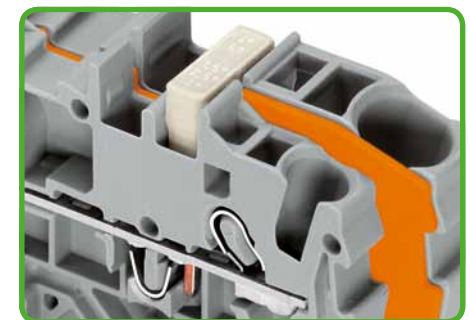
WMB Multi marking system,

10 strips with 10 markers per card,	
stretchable 5 - 5.2 mm	
plain	793-5501 50 (10x5)

Insulated ferrules, extra long,

for TOPJOB®S terminal blocks	
see page 195	

- Suitable for Ex i applications
- Suitable for Ex e II applications
- 550 V, 51 A (2-conductor terminal blocks)
- 550 V, 50 A (3-conductor terminal blocks)



An end plate must be applied to the open side of the larger terminal block.

Further terminal blocks of the smaller cross section may be commoned using push-in type jumper bars.

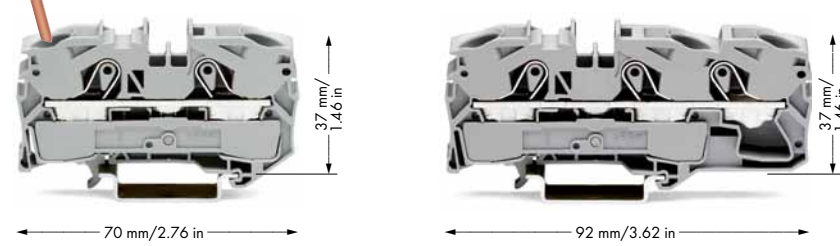
Note:
The total current flowing shall not exceed the rating of the step-down jumper.

Reduction of cross section	Push-in type jumper bar	Step-down jumper
16 to 10 mm ²	X	
16 to 6 mm ²	X	
16 to 4 mm ²		X
16 to 2.5 mm ²		X
10 to 6 mm ²	X	
10 to 4 mm ²	X	
10 to 2.5 mm ²		X
6 to 4 mm ²	X	
6 to 2.5 mm ²	X	

TOPJOB® Through/Ground Conductor and Ex Terminal Blocks 16 (25 "f-st") mm² 2016 Series

<p>0.5 - 16 (25 "f-st") mm² ① AWG 20 - 4 800 V/8 kV/3 600 V, 85 A ② I_N 76 A (90 A) 600 V, 85 A ③</p> <p>Terminal block width 12 mm / 0.472 in 18 - 20 mm / 0.75 in</p> <p>② Approvals</p>	<p>0.5 - 16 (25 "f-st") mm² ① AWG 20 - 4 800 V/8 kV/3 600 V, 85 A ② I_N 76 A (90 A) 600 V, 85 A ③</p> <p>Terminal block width 12 mm / 0.472 in 18 - 20 mm / 0.75 in</p> <p>② Approvals</p>	<p>Step-down jumper</p>
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① Conductor sizes: 0.5 - 16 mm² "s + f-st";
Push-in conductor sizes: 2.5 - 16 mm² "s" and
2.5 - 16 mm² "insulated ferrule, 18 mm"

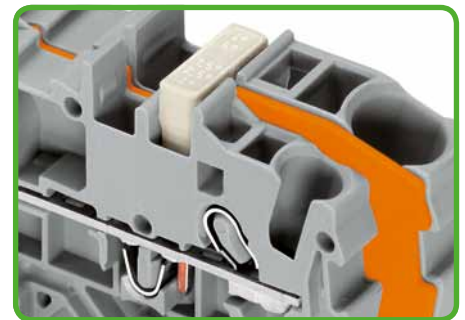


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			Step-down jumper, insulated, I_N 32 A,	
gray ③	2016-1201	20	gray ③	2016-1301	20	light gray,	
blue ③	2016-1204	20	blue ③	2016-1304	20	commons 6/4mm ² (AWG 10/12) t. blocks with	
orange ③	2016-1202	20	orange ③	2016-1302	20	4/2.5/1.5mm ² (AWG 12/14/16) blocks.	
						2006-499	50 (2x25)
2-conductor ground terminal block			3-conductor ground terminal block			Step-down jumper, insulated, I_N 57 A,	
green-yellow ③	2016-1207	20	green-yellow ③	2016-1307	20	commons 16/10 mm ² (AWG 16/8) t. blocks with	
						10/6/4/2.5 mm ² (AWG 8/10/12/14) blocks.	
						2016-499	50 (2x25)
Item-Specific Accessories							
End and intermediate plate, 1 mm thick				End and intermediate plate, 1 mm thick			
		orange 2016-1292 100 (4x25)			orange 2016-1392 100 (4x25)		
		gray 2016-1291 100 (4x25)			gray 2016-1391 100 (4x25)		

2016 Series Accessories

Appropriate marking systems: **WMB/Marking strips/Mini-WSB**

<p>Push-in type jumper bar, insulated, I_N 76 A, light gray</p> <p>2-way 2016-402 50 (2x25) 3-way 2016-403 50 (2x25) 4-way 2016-404 50 (2x25) 5-way 2016-405 50 (2x25)</p>	<p>Push-in type jumper bar, insulated, I_N 76 A, light gray</p> <p>1 - 3 2016-433 50 (2x25) 1 - 4 2016-434 50 (2x25) 1 - 5 2016-435 50 (2x25)</p>
<p>Star point jumper, insulated, I_N = I_N terminal block, light gray 1-3-5 2016-405/011-000 50 (2x25)</p>	<p>Finger guard, touchproof cover protects unused conductor entries yellow 2016-100 100 (4x25)</p>
<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks yellow 2016-115 50 (2x25)</p>	<p>Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade 210-721 1</p>
<p>Test plug adapter, for test plug 4 mm Ø gray 2009-174 100 (4x25) Testing tap, for max. 2.5 mm²/AWG 14 gray 2009-182 100 (4x25)</p>	<p>Banana plugs, only for safety extra-low voltage (42 V) black 215-311 50 red 215-212 50 blue 215-711 50</p>
<p>Marking strips, plain, 11 mm wide, 50m roll white 2009-110 1</p>	<p>WMB Multi marking system, 10 strips with 10 markers per card, stretchable 5 - 5.2 mm plain 793-5501 50 (10x5)</p>
<p>Insulated ferrules, extra long, for TOPJOB®S terminal blocks see page 195</p>	<p>● Suitable for Ex i applications ③ Suitable for Ex e II applications 550 V, 70 A (2-conductor terminal blocks) 550 V, 67 A (3-conductor terminal blocks)</p>



An end plate must be applied to the open side of the larger terminal block.

Further terminal blocks of the smaller cross section may be commoned using push-in type jumper bars.

Note:



The total current flowing shall not exceed the rating of the step-down jumper.

Reduction of cross section	Push-in type jumper bar	Step-down jumper
16 to 10 mm ²	X	
16 to 6 mm ²	X	
16 to 4 mm ²		X
16 to 2.5 mm ²		X
10 to 6 mm ²	X	
10 to 4 mm ²	X	
10 to 2.5 mm ²		X
6 to 4 mm ²	X	
6 to 2.5 mm ²	X	

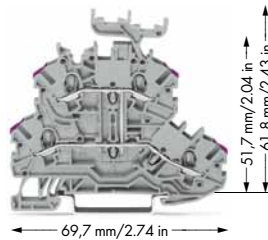
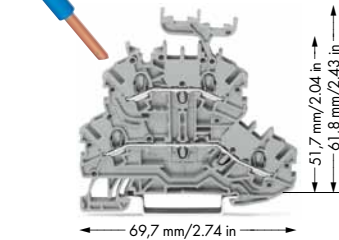
② Approvals are available online at: www.wago.com.
Please find terminal blocks for larger wire sizes on page 59.

For technical explanations and abbreviations, see technical section.

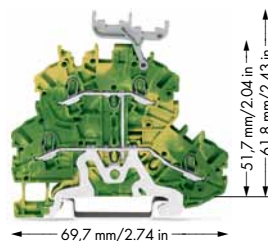
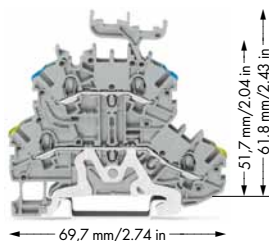
TOPJOB® Double-Deck Terminal Blocks 1 (1.5) mm² 2000 Series

0.14 - 1 (1.5) mm² ① AWG 24 - 16 500 V/6 kV/3 I _N 13.5 A Terminal block width 3.5 mm / 0.138 in  9 - 11 mm / 0.39 in ② Approvals	0.14 - 1 (1.5) mm² ① AWG 24 - 16 500 V/6 kV/3 I _N 13.5 A Terminal block width 3.5 mm / 0.138 in  9 - 11 mm / 0.39 in ② Approvals
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① Conductor sizes: 0.14 - 1.5 mm² "s + f-st";
 Push-in conductor sizes: 0.5 - 1.5 mm² "s" and
 0.5 - 0.75 mm² "insulated ferrule, 10 mm"







Item No.	Item No.	Pack. Unit	Item No.	Item No.	Pack. Unit
Through/through terminal block, gray housing			4-conductor through terminal block, internal commoning, gray housing, conductor entry position colored in violet		
Marker carrier with			Marker carrier with		
	without			without	
● L/L	2000-2231	2000-2201	50	● L	2000-2238
● N/L	2000-2232	2000-2202	50		2000-2208
● L/N	2000-2233	2000-2203	50		50
Blue housing			4-conductor through terminal block, internal commoning, blue housing, conductor entry position colored in violet		
● N/N	2000-2234	2000-2204	50	● N	2000-2239
					2000-2209
					50











Item No.	Item No.	Pack. Unit	Item No.	Item No.	Pack. Unit
Ground conductor/through terminal block, gray housing			4-conductor ground terminal block, internal commoning, green-yellow housing		
Marker carrier with			Marker carrier with		
	without			without	
● PE/N	2000-2247	2000-2217	50	● PE	2000-2237
● PE/L	2000-2257	2000-2227	50		2000-2207
					50



Item-Specific Accessories

End and intermediate plate, 0.7 mm thick	End and intermediate plate, 0.7 mm thick
 orange 2000-2292 100 (4x25)  gray 2000-2291 100 (4x25)	 orange 2000-2292 100 (4x25)  gray 2000-2291 100 (4x25)

2000 Series Accessories

Appropriate marking systems: **WMB/Marking Strips**





Push-in type jumper bar, insulated, I _N 14 A, light gray	Push-in type jumper bar, insulated, I _N 25 A, light gray	Star point jumper, insulated, I _N = I _N terminal block, light gray
 2-way 2000-402 200 (8x25)  3-way 2000-403 200 (8x25)  4-way 2000-404 200 (8x25)  5-way 2000-405 100 (4x25) : : 10-way 2000-410 100 (4x25)	 1 - 3 2000-433 200 (8x25)  1 - 4 2000-434 200 (8x25)  1 - 5 2000-435 100 (4x25) : : 1 - 10 2000-440 100 (4x25)	 2000-405/011-000 100 (4x25)

Protective warning marker, with high-voltage symbol, for 5 terminal blocks  yellow 2000-115 100 (4x25)	● Ex e II approvals (pending)	Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade  210-720 1
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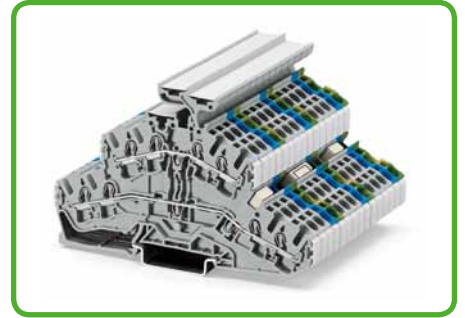
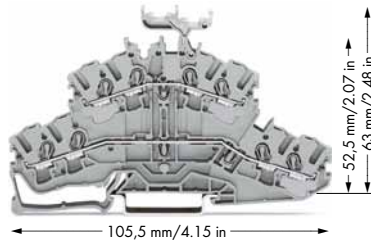
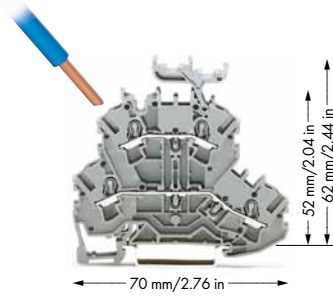
TOPJOB® S

Double-Deck Terminal Blocks 2.5 (4) mm²

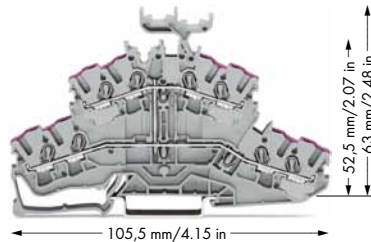
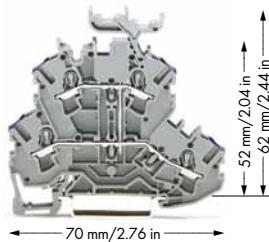
2002 Series




0.25 - 2.5 (4) mm² ① 500 V/6 kV/3 I _N 24 A (28 A) Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in ② Approvals	AWG 22 - 12 300 V, 20 A  600 V, 20 A 	0.25 - 2.5 (4) mm² ① 800 V/8 kV/3 I _N 24 A (28 A) Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in ② Approvals	AWG 22 - 12
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① Conductor sizes: 0.25 - 4 mm² "s + fst";
 Push-in conductor sizes: 0.75 - 4 mm² "s" and 0.75 - 2.5 mm² "insulated ferrule, 12 mm"



Item No.	Item No.	Pack. Unit	Item No.	Item No.	Pack. Unit	2002 Series Accessories
2-cond. double-deck terminal block, for DIN 35 rail			4-cond. double-deck terminal block, for DIN 35 rail			Push-in type jumper bar, insulated, I_N 25 A, light gray 2-way 2002-402 200 (8x25) 3-way 2002-403 200 (8x25) 4-way 2002-404 200 (8x25) 5-way 2002-405 100 (4x25) : : 10-way 2002-410 100 (4x25) Push-in type jumper bar, insulated, I_N 25 A, light gray 1 - 3 2002-433 200 (8x25) 1 - 4 2002-434 200 (8x25) 1 - 5 2002-435 100 (4x25) : : 1 - 10 2002-440 100 (4x25)
Through/through terminal block, gray housing			Through/through terminal block, gray housing			
Marker carrier with			Marker carrier with			
without			without			
⊖ L/L	2002-2231	2002-2201 50	⊖ L/L	2002-2431	2002-2401 50	
⊖ N/L	2002-2232	2002-2202 50	⊖ N/L	2002-2432	2002-2402 50	
⊖ L/N	2002-2233	2002-2203 50	⊖ L/N	2002-2433	2002-2403 50	
Blue housing			Blue housing			
⊖ N/N	2002-2234	2002-2204 50	⊖ N/N	2002-2434	2002-2404 50	
Ground conductor/through terminal block, gray housing			Ground conductor/through terminal block, gray housing			
⊖ PE/N	2002-2247	2002-2217 50	⊖ PE/N	2002-2447	2002-2417 50	
⊖ PE/L	2002-2257	2002-2227 50	⊖ PE/L	2002-2457	2002-2427 50	





4-cond. double-deck terminal block, for DIN 35 rail			8-cond. double-deck terminal block, for DIN 35 rail			Staggered jumper, insulated, I_N 25 A, light gray 2-way 2002-472 100 (4x25) 3-way 2002-473 100 (4x25) 4-way 2002-474 100 (4x25) 5-way 2002-475 50 (2x25) : : 12-way 2002-482 50 (2x25) TOPJOB®S connector, modular, for jumper contact slot gray 2002-511 100 (4x25) Spacer module gray 2002-549 100 (4x25) Protective warning marker, with high-voltage symbol, for 5 terminal blocks yellow 2002-115 100 (4x25) Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade 210-720 1 Marking strips, plain 11 mm wide, 50m roll white 2009-110 1 Insulated ferrules, extra long, for TOPJOB®S terminal blocks, see page 195 
Through terminal block, internal commoning, gray housing, conductor entry position colored in violet			Through terminal block, internal commoning, gray housing, conductor entry position colored in violet			
Marker carrier with			Marker carrier with			
without			without			
⊖ L	2002-2238	2002-2208 50	⊖ L	2002-2438	2002-2408 50	
4-conductor through terminal block, internal commoning, blue housing, conductor entry position colored in violet			Through terminal block, internal commoning, blue housing, conductor entry position colored in violet			
⊖ N	2002-2239	2002-2209 50	⊖ N	2002-2439	2002-2409 50	
4-cond. double-deck terminal block, for DIN 35 rail			4-cond. double-deck terminal block, for DIN 35 rail			
Ground conductor terminal block, internal commoning, green-yellow housing			Ground conductor terminal block, internal commoning, green-yellow housing			
⊖ PE	2002-2237	2002-2207 50	⊖ PE	2002-2437	2002-2407 50	
Item-Specific Accessories Appropriate marking systems: WMB/Marking Strips						
End and intermediate plate, 0.8 mm thick			End and intermediate plate, 0.8 mm thick			
 orange 2002-2292 100 (4x25) gray 2002-2291 100 (4x25)			 orange 2002-2492 100 (4x25) gray 2002-2491 100 (4x25)			

③ Approvals are available online at: www.wago.com.

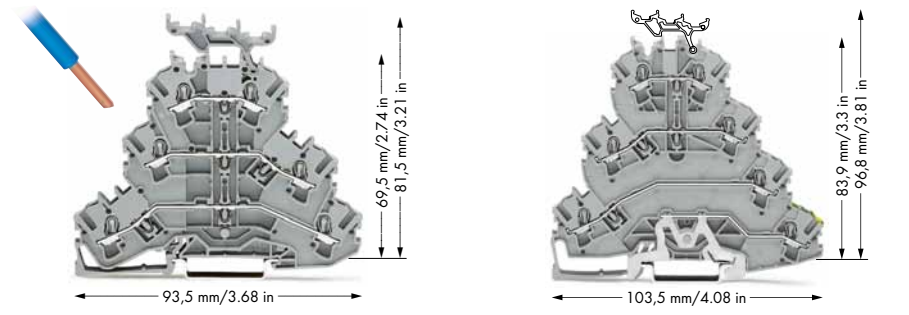
For technical explanations and abbreviations, see technical section.

⊖ Suitable for Ex i applications
 ⊖ Ex e II approvals (pending)

0.25 - 2.5 (4) mm ² ① 800 V/8 kV/3 I _N 24 A (28 A)	AWG 22 - 12 300 V, 20 A ② 300 V, 20 A ③	0.25 - 2.5 (4) mm ² ① 800 V/8 kV/3 I _N 24 A	AWG 22 - 12
Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in		Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in	
② Approvals		② Approvals	

Handling Quadruple-Deck Terminal Blocks

① Conductor sizes: 0.25 - 4 mm² "s + fst";
 Push-in conductor sizes: 0.75 - 4 mm² "s" and 0.75 - 2.5 mm² "insulated ferrule, 12 mm"

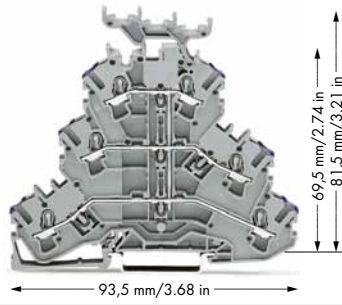


Creating spacer housings for rail-mounted terminal blocks for electric motor wiring via termination port and operating slot covers.

Item No.	Item No.	Pack. Unit	Item No.	Item No.	Pack. Unit				
2-cond. triple-deck terminal block, for DIN 35 rail Through/through/through terminal block, gray housing Marker carrier with without			Quadruple-deck, rail-mounted terminal block or Rail-mounted terminal block for electric motor wiring, gray housing Marker carrier with without						
○ L/L/L	2002-3231	2002-3201	50	○ L1-L2	2002-4141	2002-4111	25		
○ L/L/N	2002-3233	2002-3203	50	○ L1-L2-L3	2002-4131	2002-4101	25		
Blue housing ● N/N/N			2002-3234	2002-3204	50	○ L1-L2-L3-PE	2002-4157	2002-4127	25
Ground conductor/through/through terminal block, gray housing ○ PE/N/L			2002-3247	2002-3217	50				
○ PE/L/L			2002-3257	2002-3227	50				





Compact design: 3 phases and ground conductor in one terminal block.



Item No.	Item No.	Pack. Unit
6-cond. triple-deck terminal block, for DIN 35 rail Through terminal block, internal commoning, gray housing, conductor entry position colored in violet Marker carrier with without		
○ L	2002-3238	2002-3208
○ N	2002-3239	2002-3209
blue housing, conductor entry position colored in violet ● N		
Shield/through/through terminal block, gray housing ○ Shield/N/L		
2002-3248	2002-3218	50
○ Shield/L/L	2002-3258	2002-3228
50		
Ground conductor terminal block, internal commoning, green-yellow housing ● PE		
2002-3237	2002-3207	50



Marking clamping units with WMB Multi marking system (see Full Line Catalog, Volume 1, Section 13)
 Group marking using marking strips.

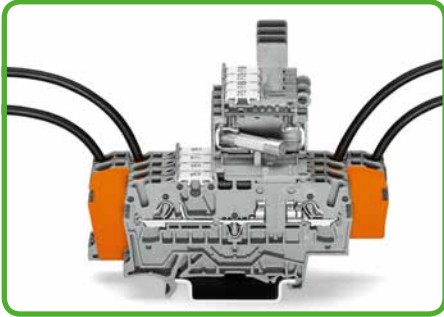
Item-Specific Accessories		Appropriate marking systems: WMB/Marking Strips	
End and intermediate plate, 0.8 mm thick		End and intermediate plate, 1 mm thick	
	orange 2002-3292 100 (4x25)		orange 2002-4192 100 (4x25)
	gray 2002-3291 100 (4x25)		gray 2002-4191 100 (4x25)



Testing with test plug 2 mm Ø.

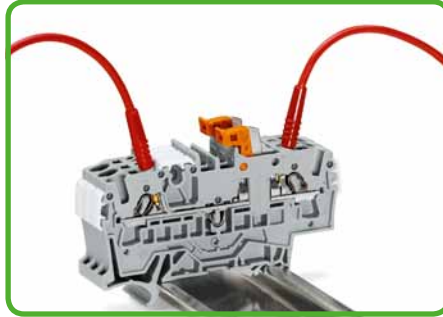
TOPJOB® Function Terminal Blocks 2002, 2004 and 2006 Series

Fuse disconnect terminal blocks



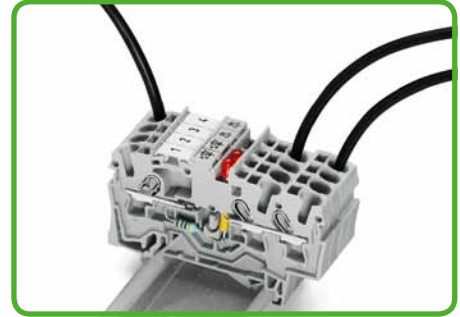
Pluggable fuse module with blown fuse indication on a 3-conductor carrier terminal block.

Disconnect/test terminal blocks



Movable knife disconnects clearly indicate the circuit state.

Diode and LED terminal blocks



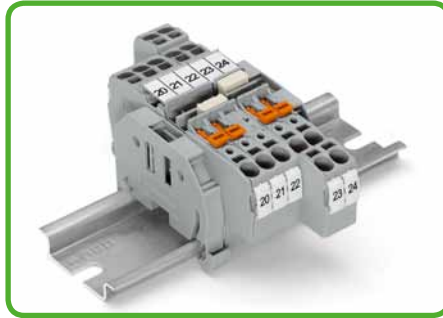
Designing custom circuits:
- via diode terminal blocks (e.g., collective fault signals)
- via LED terminal blocks (e.g., monitoring units).

Fuse replacement 1



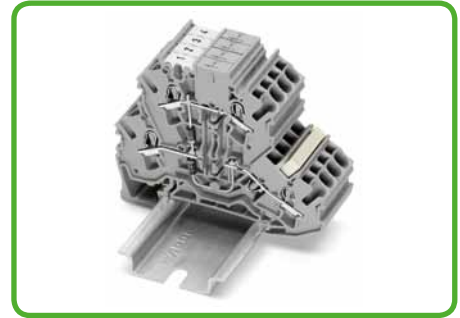
Before replacing the fuse, pivot the fuse holder into the locked open position.

Commoning and marking



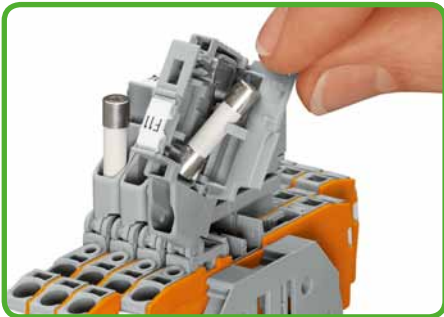
Dual jumper slots, in the same position as the 2002 Series terminal blocks. Commoning options in front of or behind the knife disconnect, depending on the power supply direction. One center and two side marker slots for WMB markers or marking strips.

Commoning



Custom circuit design via push-in type jumper bars. Example shows "lamp test circuit."

Fuse replacement 2



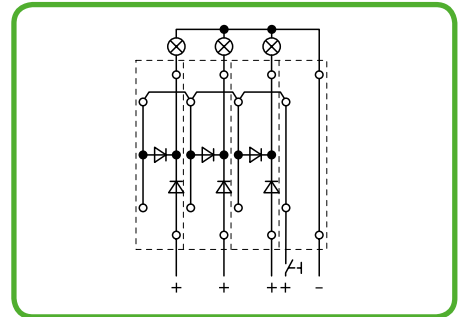
One end of the fuse is automatically ejected from the holder when opening the cover.

Additional marking



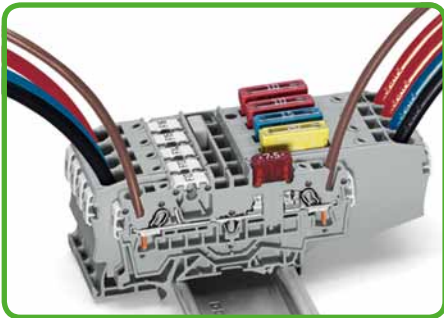
Additional marking option via pivoting marker carriers.

Application



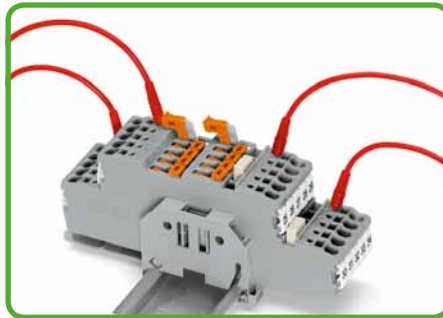
Lamp test circuit

Mini-automotive blade-style fuses



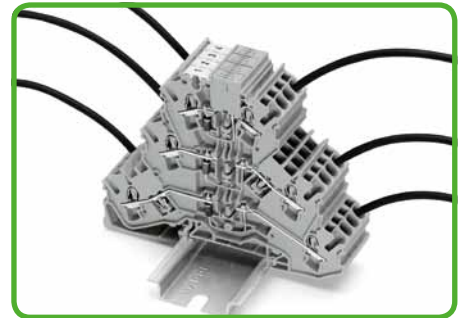
Fuse terminal block for mini-automotive blade-style fuses

Double-deck disconnect terminal blocks



Two disconnect terminal blocks with different potential are housed on two levels in a double-deck disconnect terminal block.

Triple-deck diode terminal blocks



Space saving arrangement.

CAGE CLAMP®S clamps the following copper conductors:



solid



stranded



fine-stranded



tip bonded



with ferrule

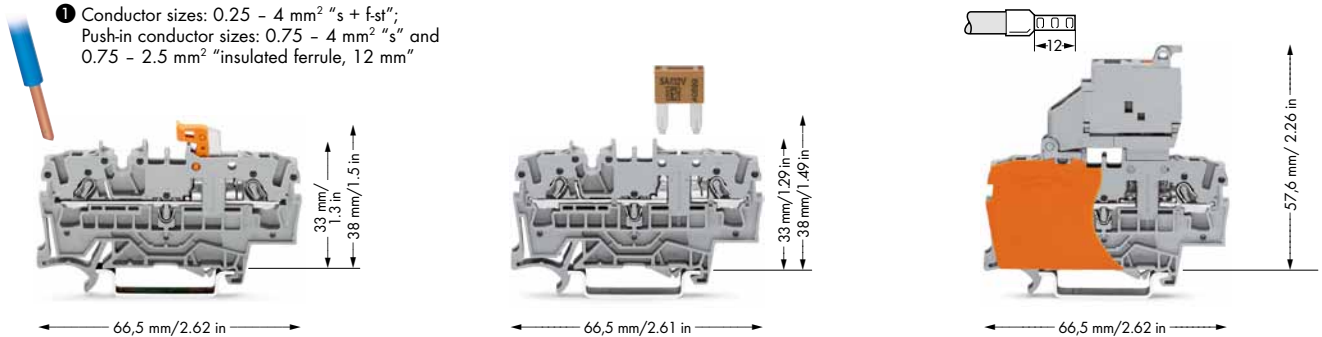


with pin terminal

Strip length, see packaging or instructions.

<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 400 V/6 kV/3 I_N 16 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in</p> <p>③ Approvals</p>	<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 400 V/6 kV/3 I_N 10 A ②</p> <p>Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in</p> <p>③ Approvals</p>	<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 250 V/6 kV/3 I_N 6.3 A ②</p> <p>Terminal block width 6.2 mm / 0.244 in 10 - 12 mm / 0.43 in</p> <p>③ Approvals</p>
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① Conductor sizes: 0.25 - 4 mm² "s + f-st";
Push-in conductor sizes: 0.75 - 4 mm² "s" and
0.75 - 2.5 mm² "insulated ferrule, 12 mm"



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	
2-conductor disconnect/test terminal block			2-conductor fuse terminal block,			2-conductor fuse terminal block with end plate,			
gray	2002-1671	50	for blade-style fuses acc. to DIN 72581-3f, ISO 8820-3			with blown fuse indication, for miniature metric fuses, gray			
blue	2002-1674	50				12 - 30 V ≈	2002-1611/1000-541	50	
orange	2002-1672	50		gray	2002-1681	50	30 - 65 V ≈	2002-1611/1000-542	50
						120 V ≈	2002-1611/1000-867	50	
						230 V ≈	2002-1611/1000-836	50	
2-conductor through terminal block, same profile			- Individual arrangement: 10 A - Block arrangement: 5 A			2-conductor fuse terminal block with end plate,			
gray	2002-1601	50	Protection against direct contact must be observed for 42 V and higher voltages!			without blown fuse indication, gray			
blue	2002-1604	50				gray			
orange	2002-1602	50				2002-1611			
						50			

Item-Specific Accessories

<p>End and intermediate plate, 1 mm thick</p> <p>orange 2002-1692 100 (4x25) gray 2002-1691 100 (4x25)</p>	<p>End and intermediate plate, 1 mm thick</p> <p>orange 2002-1692 100 (4x25) gray 2002-1691 100 (4x25)</p>
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2002 Series Accessories

Appropriate marking systems: WMB/Marking Strips/WMB Inline/Mini-WSB




<p>Push-in type jumper bar, insulated, I_N 25 A, light gray</p> <p>2-way 2002-402 200 (8x25) 3-way 2002-403 200 (8x25) 4-way 2002-404 200 (8x25) 5-way 2002-405 100 (4x25) : : 10-way 2002-410 100 (4x25)</p>	<p>Push-in type jumper bar, insulated, I_N 25 A, light gray</p> <p>1 - 3 2002-433 200 (8x25) 1 - 4 2002-434 200 (8x25) 1 - 5 2002-435 100 (4x25) : : 1 - 10 2002-440 100 (4x25)</p>	<p>End plate for fuse terminal blocks, 2 mm thick</p> <p>orange 2002-992 100 (4x25) gray 2002-991 100 (4x25)</p>																																		
<p>For step-down jumpers, see page 31.</p> <p>Staggered jumper, insulated, I_N 25 A, light gray</p> <p>2-way 2002-472 100 (4x25) 3-way 2002-473 100 (4x25) 4-way 2002-474 100 (4x25) 5-way 2002-475 50 (2x25) : : 12-way 2002-482 50 (2x25)</p>	<p>Disconnect plug for fuse terminal blocks, suitable when using the fuse terminal block as a disconnect terminal block orange 2002-401 100 (4x25)</p> <p>TOPJOB®S connector, modular, for jumper contact slot gray 2002-511 100 (4x25)</p>	<p>Fuse terminal blocks with a width of 6.2 mm can be assembled adjacently. If there is no adjacent fuse terminal block at the end of the assembly, an end plate must be used. When selecting miniature metric fuses, the maximum power loss listed below shall not be exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23 °C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures place additional strain on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details available from the manufacturer.</p>																																		
<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>light gray 2002-1710.25-0.5 mm² dark gray 2002-172 0.75-1 mm²</p>	<p>Spacer module gray 2002-549 100 (4x25)</p>	<p>Miniature metric fuses 5 x 20</p> <table border="1"> <thead> <tr> <th rowspan="2">Series Item No.</th> <th colspan="2">Overload and short circuit protection</th> <th colspan="2">Short circuit protection only</th> </tr> <tr> <th>Individual arrangement</th> <th>Group arrangement</th> <th>Individual arrangement</th> <th>Group arrangement</th> </tr> </thead> <tbody> <tr> <td colspan="5">Fuse disconnect terminal blocks</td> </tr> <tr> <td>2002-1611</td> <td>1.6 W</td> <td>1.6 W</td> <td>2.5 W</td> <td>2.5 W</td> </tr> <tr> <td>2002-1811</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2002-1811/.....</td> <td>1.6 W</td> <td>1.6 W</td> <td>2.5 W</td> <td>2.5 W</td> </tr> <tr> <td>2002-1611/.....</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Series Item No.	Overload and short circuit protection		Short circuit protection only		Individual arrangement	Group arrangement	Individual arrangement	Group arrangement	Fuse disconnect terminal blocks					2002-1611	1.6 W	1.6 W	2.5 W	2.5 W	2002-1811					2002-1811/.....	1.6 W	1.6 W	2.5 W	2.5 W	2002-1611/.....				
Series Item No.	Overload and short circuit protection			Short circuit protection only																																
	Individual arrangement	Group arrangement	Individual arrangement	Group arrangement																																
Fuse disconnect terminal blocks																																				
2002-1611	1.6 W	1.6 W	2.5 W	2.5 W																																
2002-1811																																				
2002-1811/.....	1.6 W	1.6 W	2.5 W	2.5 W																																
2002-1611/.....																																				
<p>Test plug adapter, for test plug 4 mm Ø 2009-174 100 (4x25) Testing tap, for max. 2.5 mm²/AWG 14 2009-182 100 (4x25)</p>	<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks yellow 2002-115 100 (4x25)</p>																																			
<p>Test plug, with 500 mm cable, 2 mm Ø red 210-136 50 (5x10)</p>	<p>Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade 210-720 1</p>																																			
<p>Insulated ferrules, extra long, for TOPJOB®S terminal blocks, see page 195</p>	<p>Approval for Ex i applications (pending) Ex Approval for Ex e II applications (pending)</p>																																			

② Nominal voltage and current are given by the fuse or blown fuse indicator!

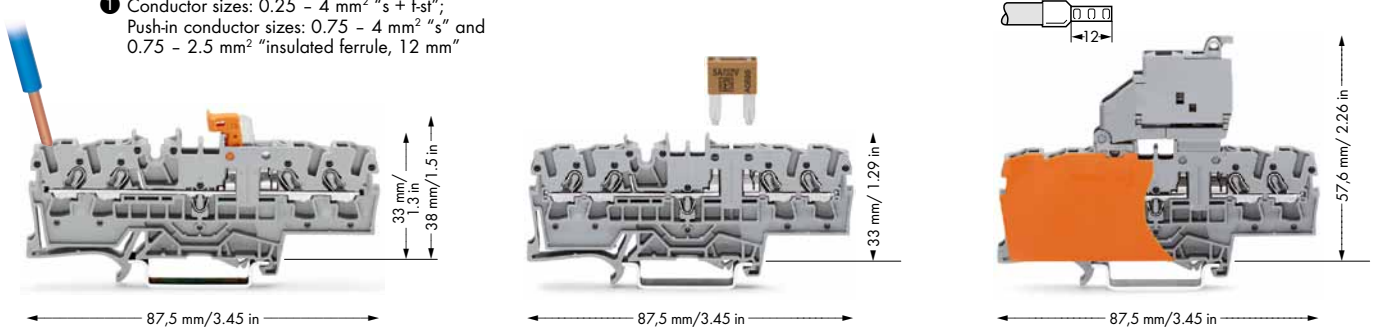
③ Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

TOPJOB® Disconnect/Test and Fuse Terminal Blocks, 4-Conductor 2002 Series



0.25 - 2.5 (4) mm² ① AWG 22 - 12 400 V/6 kV/3 I _N 16 A Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in ③ Approvals	0.25 - 2.5 (4) mm² ① AWG 22 - 12 400 V/6 kV/3 I _N 10 A ② Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in ③ Approvals	0.25 - 2.5 (4) mm² ① AWG 22 - 12 400 V/6 kV/3 I _N 6.3 A ② Terminal block width 6.2 mm / 0.244 in  10 - 12 mm / 0.43 in ③ Approvals
---	--	---

① Conductor sizes: 0.25 - 4 mm² "s + f-st";
 Push-in conductor sizes: 0.75 - 4 mm² "s" and
 0.75 - 2.5 mm² "insulated ferrule, 12 mm"




















Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Item No.	Pack. Unit	
4-conductor disconnect/test terminal block			4-conductor fuse terminal block,			4-conductor fuse terminal block with end plate,		
gray	2002-1871	50	for blade-style fuses acc. to DIN 72581-3f,			with blown fuse indication by LED, gray		
blue	2002-1874	50	ISO 8820-3			12 - 30 V ≈	2002-1811/1000-541 50	
orange	2002-1872	50	gray	2002-1881	50	30 - 65 V ≈	2002-1811/1000-542 50	
4-conductor through terminal block, same profile			- Individual arrangement: 10 A			120 V ≈		2002-1811/1000-867 50
gray	2002-1801	50	- Block arrangement: 5 A			230 V ≈		2002-1811/1000-836 50
blue	2002-1804	50	Protection against direct contact must be observed for 42			4-conductor fuse terminal block with end plate,		
orange	2002-1802	50	V and higher voltages!			without blown fuse indication		
						gray	2002-1811 50	

Item-Specific Accessories

End and intermediate plate, 1 mm thick  orange 2002-1892 100 (4x25) gray 2002-1891 100 (4x25)	End and intermediate plate, 1 mm thick  orange 2002-1892 100 (4x25) gray 2002-1891 100 (4x25)
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

2002 Series Accessories Appropriate marking systems: WMB/Marking Strips/WMB Inline/Mini-WSB

Push-in type jumper bar, insulated, I_N 25 A, light gray  2-way 2002-402 200 (8x25) 3-way 2002-403 200 (8x25) 4-way 2002-404 200 (8x25) 5-way 2002-405 100 (4x25) : : 10-way 2002-410 100 (4x25)	Push-in type jumper bar, insulated, I_N 25 A, light gray  1 - 3 2002-433 200 (8x25) 1 - 4 2002-434 200 (8x25) 1 - 5 2002-435 100 (4x25) : : 1 - 10 2002-440 100 (4x25)	Push-in type jumper bar, insulated, I_N 25 A, light gray  2-way 2004-402 200 (8x25) 3-way 2004-403 200 (8x25) 4-way 2004-404 200 (8x25) 5-way 2004-405 100 (4x25) : : 10-way 2004-410 100 (4x25)
For step-down jumpers, see page 31. Staggered jumper, light gray, insulated, I_N 25 A  2-way 2002-472 100 (4x25) 3-way 2002-473 100 (4x25) 4-way 2002-474 100 (4x25) 5-way 2002-475 50 (2x25) : : 12-way 2002-482 50 (2x25)	Disconnect plug for fuse terminal blocks, suitable  when using the fuse terminal block as a disconnect terminal block orange 2002-401 100 (4x25)	Push-in type jumper bar, insulated, I_N 25 A, light gray  1 - 3 2004-433 200 (8x25) 1 - 4 2004-434 200 (8x25) 1 - 5 2004-435 100 (4x25) : : 1 - 10 2004-440 100 (4x25)
Insulation stop, 5 pcs/strip 200 strips  light gray 2002-171 0.25-0.5 mm ² dark gray 2002-172 0.75-1 mm ²	TOPJOB®S connector, modular,  for jumper contact slot gray 2002-511 100 (4x25)	Insulation stop, 5 pcs/strip 200 strips  light gray 2002-171 0.25-0.5 mm ² dark gray 2002-172 0.75-1 mm ²
Test plug adapter, for test plug 4 mm Ø  2009-174 100 (4x25) Testing tap, for max. 2.5 mm²/AWG 14 2009-182 100 (4x25)	Spacer module  gray 2002-549 100 (4x25)	Insulated ferrules, extra long,  for TOPJOB®S terminal blocks, see page 195
Test plug, with 500 mm cable, 2 mm Ø  red 210-136 50 (5x10)	WMB Multi marking system,  10 strips with 10 markers per card, stretchable 5 - 5.2 mm plain 793-5501 50 (10x5)	Operating tool with partially insulated shaft,  type 2, (3.5 x 0.5) mm blade 210-720 1
Double-deck marker carrier,  pivoting gray 2002-121 50 (2x25)	● Approval for Ex i applications (pending) ⓧ Approval for Ex e II applications (pending)	End plate for fuse terminal blocks, 2 mm thick  orange 2002-992 100 (4x25) gray 2002-991 100 (4x25)

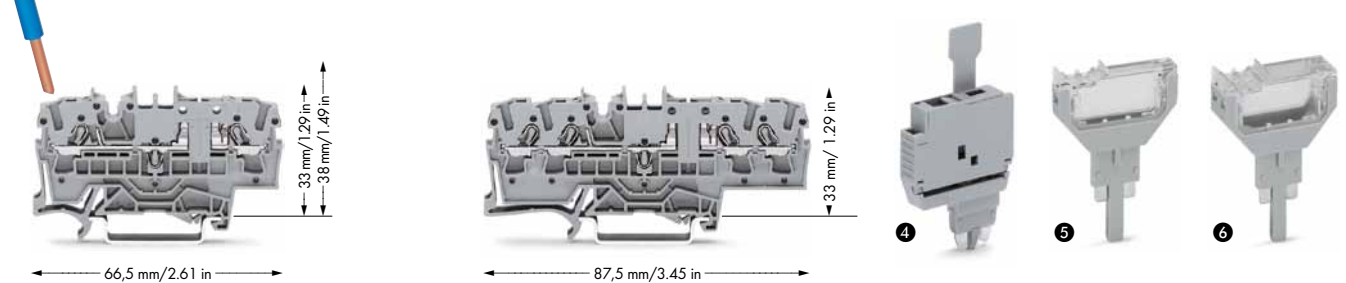
② Nominal voltage and current are given by the fuse or blown fuse indicator!

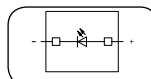
③ Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.




0.25 - 2.5 (4) mm ² ① AWG 22 - 12 400 V/6 kV/3 I _N 24 A Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in ③ Approvals	0.25 - 2.5 (4) mm ² ① AWG 22 - 12 400 V/6 kV/3 I _N 24 A Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in ③ Approvals	250 V max. I _N 6.3 A ② Plug width ④ 6.1 mm / 0.24 in ⑤ 5.2 mm / 0.205 in ⑥ 10.4 mm / 0.409 in ③ Approvals
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① Conductor sizes: 0.25 - 4 mm² "s + fst";
Push-in conductor sizes: 0.75 - 4 mm² "s" and 0.75 - 2.5 mm² "insulated ferrule, 12 mm"

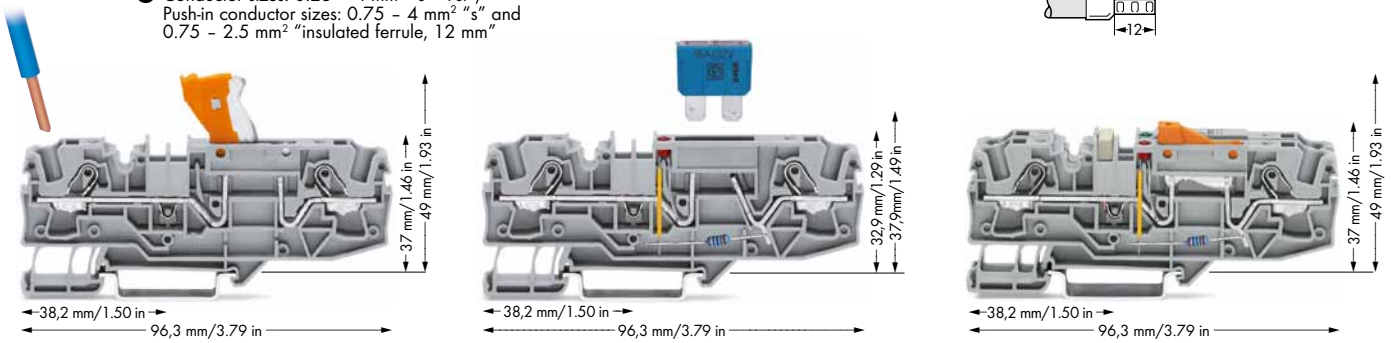


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Item No.	Pack. Unit
2-conductor carrier terminal block			4-conductor carrier terminal block			④ Fuse plug, with pull-tab,	
gray	2002-1661	50	gray	2002-1861	50	for miniature metric fuses 5 x 20 mm (see page 37)	2004-911 50
						with LED, can be used in both switching directions	
						LED, 12 - 30 V AC/DC	2004-911/1000-541 50
						LED, 30 - 65 V AC/DC	2004-911/1000-542 50
						LED, 120 - 250 V AC/DC	2004-911/1000-836 50
Item-Specific Accessories							
End and intermediate plate, 1 mm thick				End and intermediate plate, 1 mm thick			
	orange	2002-1692	100 (4x25)	orange	2002-1892	100 (4x25)	
	gray	2002-1691	100 (4x25)	gray	2002-1891	100 (4x25)	
2002 Series Accessories Appropriate marking systems: WMB/Marking Strips/WMB Inline							
Push-in type jumper bar, insulated, I_N 25 A, light gray				Push-in type jumper bar, insulated, I_N 25 A, light gray			
	2-way	2002-402	200 (8x25)	1 - 3	2002-433	200 (8x25)	
	3-way	2002-403	200 (8x25)	1 - 4	2002-434	200 (8x25)	
	4-way	2002-404	200 (8x25)	1 - 5	2002-435	100 (4x25)	
	5-way	2002-405	100 (4x25)	:	:		
	10-way	2002-410	100 (4x25)	1 - 10	2002-440	100 (4x25)	
For step-down jumpers, see page 31.							
Staggered jumper, insulated, I_N 25 A, light gray				TOPJOB®S connector, modular,			
	2-way	2002-472	100 (4x25)	for jumper contact slot			
	3-way	2002-473	100 (4x25)	gray	2002-511	100 (4x25)	
	4-way	2002-474	100 (4x25)	Spacer module			
	5-way	2002-475	50 (2x25)	gray	2002-549	100 (4x25)	
	:	:					
	12-way	2002-482	50 (2x25)				
Insulation stop, 5 pcs/strip 200 strips				Protective warning marker, with high-voltage symbol,			
	light gray	2002-171	0.25-0.5 mm ²	for 5 terminal blocks			
	dark gray	2002-172	0.75-1 mm ²	yellow	2002-115	100 (4x25)	
Test plug adapter, for test plug 4 mm Ø				Banana plugs, only for safety extra-low voltage (42 V)			
		2009-174	100 (4x25)	black	215-311	50	
	Testing tap, for max. 2.5 mm ² /AWG 14	2009-182	100 (4x25)	red	215-212	50	
				blue	215-711	50	
Marking strips, plain				WMB Multi marking system,			
	11 mm wide,			10 strips with 10 markers per card,			
	50m roll			stretchable 5 - 5.2 mm			
	white	2009-110	1	plain	793-5501	50 (10x5)	
End plate for fuse terminal blocks, 2 mm thick				Shorting link, 5 x 20 mm, 6.3 A,			
	orange	2002-992	100 (4x25)	if the fuse plug is used as a discon-			
	gray	2002-991	100 (4x25)	nect plug		281-503 250 (10x25)	
						⑤ Empty component plug housing, type 1,	
						2-pole	
						5.2 mm wide	
						2002-800	100
						⑥ Empty component plug housing, type 2,	
						2-pole	
						10.4 mm wide	
						2002-810	50
						⑥ Empty component plug housing, type 3,	
						4-pole	
						10.4 mm wide	
						2002-820	50
						⑤ Diode module, with 1N4007 diode,	
						max. operating temperature 85 °C,	
						5.2 mm wide	
						2002-800/1000-411	100
						⑤ LED module, with red LED,	
						max. operating temperature 85 °C, 5.2 mm wide	
						12 - 30 V AC/DC	2002-800/1000-541 100
						30 - 65 V AC/DC	2002-800/1000-542 100
						230 V AC/DC	2002-800/1000-836 100
							

TOPJOB® Disconnect and Fuse Terminal Blocks 6 (10) mm² 2006 Series


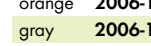

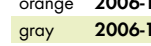

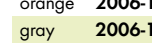
0.5 - 6 (10) mm² ① AWG 20 - 8 800 V/6 kV/3 I _N 30 A Terminal block width 7.5 mm / 0.295 in  13 - 15 mm / 0.55 in ③ Approvals	0.2 - 6 (10) mm² ① AWG 20 - 8 800 V/8 kV/3 ② I _N 25/30 A ② Terminal block width 7.5 mm / 0.295 in  13 - 15 mm / 0.55 in ③ Approvals	0.5 - 6 (10) mm² ① AWG 20 - 8 500 V/6 kV/3 I _N 30 A Terminal block width 15 mm / 0.59 in  13 - 15 mm / 0.55 in ③ Approvals
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① Conductor sizes: 0.25 - 4 mm² "s + f-st";
 Push-in conductor sizes: 0.75 - 4 mm² "s" and
 0.75 - 2.5 mm² "insulated ferrule, 12 mm"




























Color	Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit	
2-conductor disconnect terminal block, with test point, orange disconnect link ● gray 2006-1671 25 ● blue 2006-1674 25			2-cond. fuse term. block for mini-automotive fuses, 12 V, with blown fuse indication by LED, with test option, gray ● Circuit I 2006-1681/1000-429 25 ● Circuit II 2006-1681/1000-449 25			Ground conductor disconnect terminal block, gray ● 24 V AC/DC 2006-1671/1000-848 12 ● 48 V AC/DC 2006-1671/1000-849 12 ● 120 V AC/DC 2006-1671/1000-850 12 ● 230 V AC/DC 2006-1671/1000-851 12	
2-conductor through terminal block, same profile ● gray 2006-1601 25 ● blue 2006-1604 25			without blown-fuse indication, with test option ● gray 2006-1681 25			For application notes, see page 83.	

Item-Specific Accessories

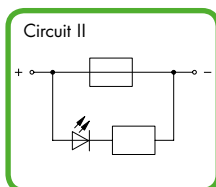
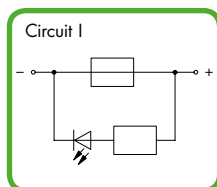
End and intermediate plate, 1 mm thick  orange 2006-1692 100 (4x25)  gray 2006-1691 100 (4x25)	End and intermediate plate, 1 mm thick  orange 2006-1692 100 (4x25)  gray 2006-1691 100 (4x25)	End and intermediate plate, 1 mm thick  orange 2006-1692 100 (4x25)  gray 2006-1691 100 (4x25)
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2006 Series Accessories

Appropriate marking systems: **WMB/Marking Strips/WMB Inline**

Push-in type jumper bar, insulated, I_N 41 A, light gray  2-way 2006-402 50 (2x25)  3-way 2006-403 50 (2x25)  4-way 2006-404 50 (2x25)  5-way 2006-405 50 (2x25)	Push-in type jumper bar, insulated, I_N 41 A, light gray  2-way 2006-402 50 (2x25)  3-way 2006-403 50 (2x25)  4-way 2006-404 50 (2x25)  5-way 2006-405 50 (2x25)	Push-in type jumper bar, insulated, I_N 41 A, light gray  2-way 2006-402 50 (2x25)
Push-in type jumper bar, insulated, I_N 41 A, light gray  1 - 3 2006-433 50 (2x25)  1 - 4 2006-434 50 (2x25)  1 - 5 2006-435 50 (2x25)	Push-in type jumper bar, insulated, I_N 41 A, light gray  1 - 3 2006-433 50 (2x25)  1 - 4 2006-434 50 (2x25)  1 - 5 2006-435 50 (2x25)	Protective warning marker, with high-voltage symbol, for 5 terminal blocks  yellow 2006-115 100 (4x25)
Protective warning marker, with high-voltage symbol, for 5 terminal blocks  yellow 2006-115 100 (4x25)	Disconnect plug for fuse terminal blocks, suitable when using the fuse terminal block as a disconnect terminal block  orange 2006-401 100 (4x25)	WMB Multi marking system, 10 strips with 10 markers per card, stretchable 5 - 5.2 mm plain 793-5501 50 (10x5)
Test plug adapter, for test plug 4 mm Ø  2009-174 100 (4x25) Testing tap, for max. 2.5 mm²/AWG 14  2009-182 100 (4x25)	Blade-style fuses,  acc. to DIN 72581-3c/ISO 8820 (not offered by WAGO)	Insulated ferrules, extra long, for TOPJOB®S terminal blocks, see page 195 
Banana plugs, only for safety extra-low voltage (42 V)  black 215-311 50 red 215-212 50 blue 215-711 50	Overcurrent circuit breaker*, thermal  not offered by WAGO	Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade  210-721 1

*Recommended overcurrent circuit breaker from ETA, Elektrotechnische Apparate GmbH, Postfach 1061, D-90514 Altdorf/Nürnberg
 Types 1170-02, 1621-21 or 1610-22, individual or block arrangement up to 25 A for conductor size 4 mm²/AWG 12



② Nominal voltage and current are given by the fuse or blown fuse indicator!
 ③ Approvals are available online at: www.wago.com.

TOPJOB® Double-Deck Disconnect Terminal Blocks 2.5 (4) mm² 2002 Series

CAGE CLAMP® S

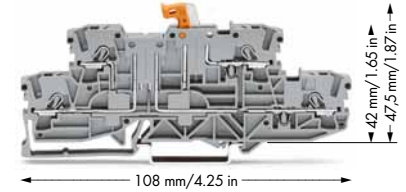
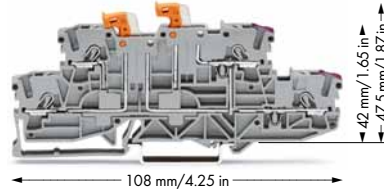
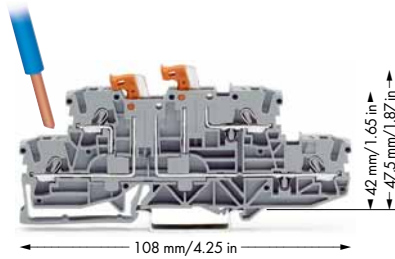
1

41

1

<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 400 V/6 kV/3 I_N 16 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in</p> <p>③ Approvals</p>	<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 400 V/6 kV/3 I_N 16 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in</p> <p>③ Approvals</p>	<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 400 V/6 kV/3 I_N 16 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in</p> <p>③ Approvals</p>
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① Conductor sizes: 0.25 - 4 mm² "s + Fst";
Push-in conductor sizes: 0.75 - 4 mm² "s" and 0.75 - 2.5 mm² "insulated ferrule, 12 mm"



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
4-conductor, double-deck, double-disconnect terminal block			4-conductor, double-deck, double-disconnect terminal block, lower and upper decks internally commoned on right side and with violet marking			4-conductor, double-deck disconnect terminal block, same profile as double-deck, double-disconnect terminal blocks		
gray	2002-2951	50	gray	2002-2958	50	gray	2002-2971	50
blue	2002-2954	50	blue	2002-2959	50	blue	2002-2974	50
gray N/L	2002-2952	50				gray N/L	2002-2972	50

Item-Specific Accessories




<p>End and intermediate plate, 1 mm thick</p> <p>orange 2002-2992 100 (4x25) gray 2002-2991 100 (4x25)</p>	<p>End and intermediate plate, 1 mm thick</p> <p>orange 2002-2992 100 (4x25) gray 2002-2991 100 (4x25)</p>	<p>End and intermediate plate, 1 mm thick</p> <p>orange 2002-2992 100 (4x25) gray 2002-2991 100 (4x25)</p>
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2002 Series Accessories

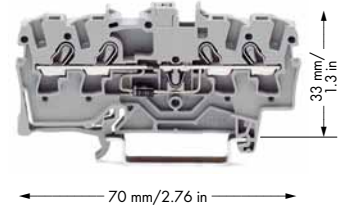
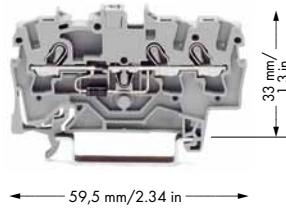
Appropriate marking systems: WMB/Marking Strips/WMB Inline

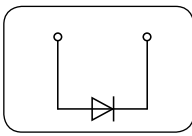
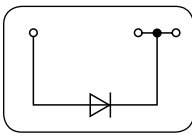
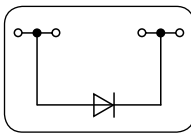
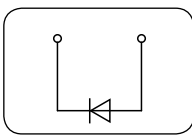
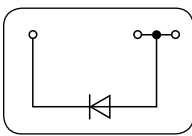
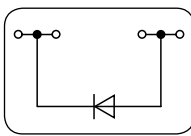
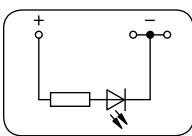
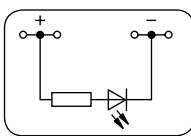
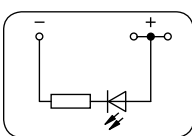
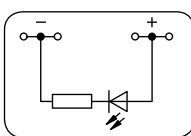



<p>Push-in type jumper bar, insulated, I_N 25 A, light gray</p> <p>2-way 2002-402 200 (8x25) 3-way 2002-403 200 (8x25) 4-way 2002-404 200 (8x25) 5-way 2002-405 100 (4x25) : : 10-way 2002-410 100 (4x25)</p>	<p>Push-in type jumper bar, insulated, I_N 25 A, light gray</p> <p>2-way 2002-402 200 (8x25) 3-way 2002-403 200 (8x25) 4-way 2002-404 200 (8x25) 5-way 2002-405 100 (4x25) : : 10-way 2002-410 100 (4x25)</p>	<p>Push-in type jumper bar, insulated, I_N 25 A, light gray</p> <p>2-way 2002-402 200 (8x25) 3-way 2002-403 200 (8x25) 4-way 2002-404 200 (8x25) 5-way 2002-405 100 (4x25) : : 10-way 2002-410 100 (4x25)</p>
<p>Push-in type jumper bar, insulated, I_N 25 A, light gray</p> <p>1 - 3 2002-433 200 (8x25) 1 - 4 2002-434 200 (8x25) 1 - 5 2002-435 100 (4x25) : : 1 - 10 2002-440 100 (4x25)</p>	<p>Staggered jumper, insulated, I_N 25 A, light gray</p> <p>2-way 2002-472 100 (4x25) 3-way 2002-473 100 (4x25) 4-way 2002-474 100 (4x25) 5-way 2002-475 50 (2x25) : : 12-way 2002-482 50 (2x25)</p>	<p>Push-in type jumper bar, insulated, I_N 25 A, light gray</p> <p>1 - 3 2002-433 200 (8x25) 1 - 4 2002-434 200 (8x25) 1 - 5 2002-435 100 (4x25) : : 1 - 10 2002-440 100 (4x25)</p>
<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>light gray 2002-171 0.25-0.5 mm² dark gray 2002-172 0.75-1 mm²</p>	<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>light gray 2002-171 0.25-0.5 mm² dark gray 2002-172 0.75-1 mm²</p>	<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>light gray 2002-171 0.25-0.5 mm² dark gray 2002-172 0.75-1 mm²</p>
<p>TOPJOB®S connector, modular, for jumper contact slot</p> <p>gray 2002-511 100 (4x25)</p>	<p>TOPJOB®S connector, modular, for jumper contact slot</p> <p>gray 2002-511 100 (4x25)</p>	<p>TOPJOB®S connector, modular, for jumper contact slot</p> <p>gray 2002-511 100 (4x25)</p>
<p>Spacer module</p> <p>gray 2002-549 100 (4x25)</p>	<p>Spacer module</p> <p>gray 2002-549 100 (4x25)</p>	<p>Spacer module</p> <p>gray 2002-549 100 (4x25)</p>
<p>Test plug adapter, for test plug 4 mm Ø</p> <p>2009-174 100 (4x25) Testing tap, for max. 2.5 mm²/AWG 14 2009-182 100 (4x25)</p>	<p>Banana plugs, only for safety extra-low voltage (42 V)</p> <p>black 215-311 50 red 215-212 50 blue 215-711 50</p>	<p>Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade</p> <p>210-720 1</p>
<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</p> <p>yellow 2002-115 100 (4x25)</p>	<p>Ex e II approvals (pending)</p>	<p>Marking strips, plain</p> <p>11 mm wide, 50m roll white 2009-110 1</p>

TOPJOB® Diode Terminal Blocks and LED Terminal Blocks 2.5 (4) mm² 2002 Series




<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 V_N 250 V; V_{RM} 1000 V 1N4007 - 0.5 A continuous current</p> <p>Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in ④ Approvals</p>	<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 ② U_N 250 V; U_{RM} 1000 V 1N4007 - 0.5 A continuous current ③ 24 VDC / I_F 0.025 A max.</p> <p>Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in ④ Approvals</p>	<p>0.25 - 2.5 (4) mm² ① AWG 22 - 12 ② U_N 250 V; U_{RM} 1000 V 1N4007 - 0.5 A continuous current ③ 24 VDC / I_F 0.025 A max.</p> <p>Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in ④ Approvals</p>
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① Conductor sizes: 0.25 - 4 mm² "s + Fst";
 Push-in conductor sizes: 0.75 - 4 mm² "s" and
 0.75 - 2.5 mm² "insulated ferrule, 12 mm"






Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
	2-conductor diode terminal block with 1N 4007 diode 2002-1211/1000-410 100		② 3-conductor diode terminal block with 1N4007 diode 2002-1311/1000-410 100		② 4-conductor diode terminal block with 1N4007 diode 2002-1411/1000-410 100
	2-conductor diode terminal block with 1N 4007 diode 2002-1211/1000-411 100		② 3-conductor diode terminal block with 1N4007 diode 2002-1311/1000-411 100		② 4-conductor diode terminal block with 1N4007 diode 2002-1411/1000-411 100
			③ 3-conductor LED terminal block with red LED, 24 VDC 2002-1321/1000-434 100		③ 4-conductor LED terminal block with red LED, 24 VDC 2002-1421/1000-434 100
			③ 3-conductor LED terminal block with red LED, 24 VDC 2002-1321/1000-413 100		③ 4-conductor LED terminal block with red LED, 24 VDC 2002-1421/1000-413 100
	Through terminal block of same profile 2002-1201 100		Through terminal block of same profile 2002-1301 100		Through terminal block of same profile 2002-1401 100

Item-Specific Accessories

<p>End and intermediate plate, 0.8 mm thick</p> <p>orange 2002-1292 100 (4x25) gray 2002-1291 100 (4x25)</p> 	<p>End and intermediate plate, 0.8 mm thick</p> <p>orange 2002-1392 100 (4x25) gray 2002-1391 100 (4x25)</p> 	<p>End and intermediate plate, 0.8 mm thick</p> <p>orange 2002-1492 100 (4x25) gray 2002-1491 100 (4x25)</p> 
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2002 Series Accessories Appropriate marking systems: WMB/Marking Strips/WMB Inline




<p>Push-in type jumper bars, light gray, insulated, I_N 25 A</p> <p>2-way 2002-402 200 (8x25) 3-way 2002-403 200 (8x25) 4-way 2002-404 200 (8x25) 5-way 2002-405 100 (4x25) : : 10-way 2002-410 100 (4x25)</p> 	<p>Push-in type jumper bars, light gray, insulated, I_N 25 A</p> <p>1 - 3 2002-433 200 (8x25) 1 - 4 2002-434 200 (8x25) 1 - 5 2002-435 100 (4x25) : : 1 - 10 2002-440 100 (4x25)</p> 	<p>Staggered jumper, light gray, insulated, I_N 25 A</p> <p>2-way 2002-472 100 (4x25) 3-way 2002-473 100 (4x25) 4-way 2002-474 100 (4x25) 5-way 2002-475 50 (2x25) : : 12-way 2002-482 50 (2x25)</p> 
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② Approvals are available online at: www.wago.com.

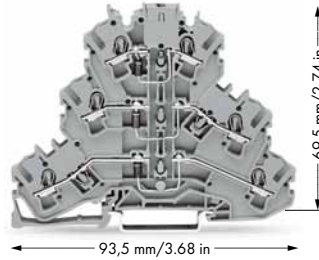
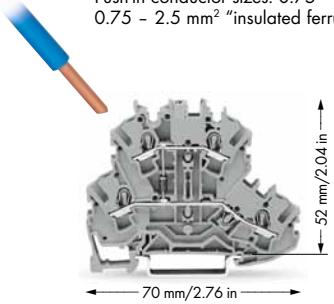
For technical explanations and abbreviations, see technical section.

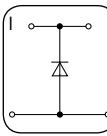
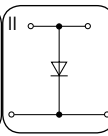
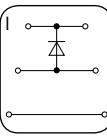
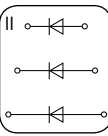
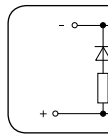
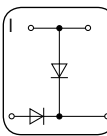
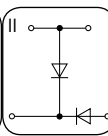
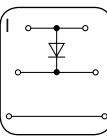
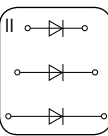
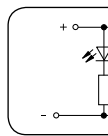
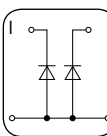
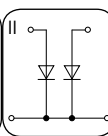
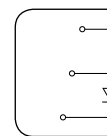
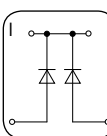
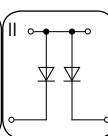
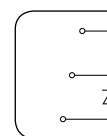
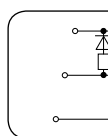
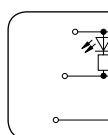


Double- and Triple-Deck Diode Terminal Blocks

Double- and Triple-Deck LED Terminal Blocks, 2.5 (4) mm², 2002 Series



<p>0.25 - 2.5 (4) mm² AWG 22 - 12 V_N 250 V; V_{RM} 1000 V 1N4007 - 0.5 A continuous current</p> <p>Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in</p> <p>④ Approvals</p>	<p>0.25 - 2.5 (4) mm² AWG 22 - 12 V_N 250 V; V_{RM} 1000 V 1N4007 - 0.5 A continuous current</p> <p>Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in</p> <p>④ Approvals</p>	<p>0.25 - 2.5 (4) mm² AWG 22 - 12 24 VDC I_F 25 mA max.</p> <p>Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in</p> <p>④ Approvals</p>
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① Conductor sizes: 0.25 - 4 mm² "s + fst";
 Push-in conductor sizes: 0.75 - 4 mm² "s" and
 0.75 - 2.5 mm² "insulated ferrule, 12 mm"









Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
 	Double-deck diode terminal block with 1N4007 diode (I) 2002-2211/1000-410 50	 	Triple-deck diode terminal block with 1N4007 diode (I) 2002-3211/1000-410 50		Double-deck diode terminal block with red LED, 24 VDC 2002-2221/1000-434 50
	with 1N4007 diode (II) 2002-2211/1000-411 50		with 3 1N4007 diodes (II) 2002-3212/1000-673 50		
 	Double-deck diode terminal block with 2 1N4007 diodes (I) 2002-2214/1000-492 50	 	Triple-deck diode terminal block with 1N4007 diode (I) 2002-3211/1000-411 50		Double-deck diode terminal block with red LED, 24 VDC 2002-2221/1000-413 50
	with 2 1N4007 diodes (II) 2002-2214/1000-491 50		with 3 1N4007 diodes (II) 2002-3212/1000-674 50		
 	Double-deck diode terminal block with 2 1N4007 diodes (I) 2002-2213/1000-487 50		Triple-deck diode terminal block with 1N4007 diode 2002-3211/1000-675 50		
	with 2 1N4007 diodes (II) 2002-2213/1000-488 50				
 	Double-deck diode terminal block with 2 1N4007 diodes (I) 2002-2214/1000-489 50		Triple-deck diode terminal block with 1N4007 diode 2002-3211/1000-676 50		Triple-deck diode terminal block with red LED, 24 VDC 2002-3221/1000-434 50
	with 2 1N4007 diodes (II) 2002-2214/1000-490 50				
					Triple-deck diode terminal block with red LED, 24 VDC 2002-3221/1000-413 50
	Through terminal block of same profile 2002-2201 100		Through terminal block of same profile 2002-3201 100		Through terminal block with same profile Double-deck terminal block 2002-2201 Triple-deck terminal block 2002-3201

Item-Specific Accessories

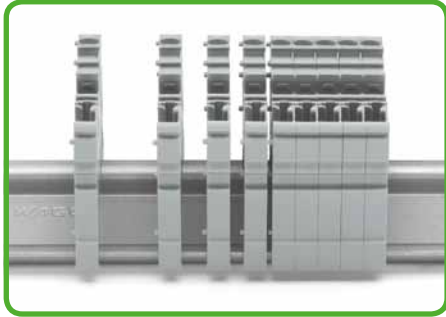
<p>End and intermediate plate, 0.8 mm thick</p> <p>orange 2002-2292 100 (4x25) gray 2002-2291 100 (4x25)</p> 	<p>End and intermediate plate, 0.8 mm thick</p> <p>orange 2002-3292 100 (4x25) gray 2002-3291 100 (4x25)</p> 	<p>End and intermediate plate, 0.8 mm thick</p> <p>orange gray</p> <p>Double-deck terminal block 2002-2292 2002-2291 Triple-deck terminal block 2002-3292 2002-3291</p>
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2002 Series Accessories Appropriate marking system: WMB/WMB Inline

<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>light gray 2002-171 0.25-0.5 mm² dark gray 2002-172 0.75-1 mm²</p> 	<p>Test plug adapter, for test plug 4 mm Ø</p> <p>2009-174 100 (4x25)</p> <p>Testing tap, for max. 2.5 mm²/AWG 14</p> <p>2009-182 100 (4x25)</p> 	<p>Operating tool with partially insulated shaft,</p> <p>type 2, (3.5 x 0.5) mm blade</p> <p>210-720 1</p> 
<p>Insulated ferrules, extra long,</p> <p>for TOPJOB®S terminal blocks, see page 195</p> 	<p>Banana plugs, only for safety extra-low voltage (42 V)</p> <p>black 215-311 50 red 215-212 50 blue 215-711 50</p> 	<p>WMB Multi marking system,</p> <p>10 strips with 10 markers per card, stretchable 5 - 5.2 mm plain 793-5501 50 (10x5)</p> 

X-COM® SYSTEM Description and Handling, 2020 and 2022 Series

Assembly



Snap individual carrier terminal blocks onto carrier rail and engage.

Removal



Unlock assembly with screwdriver (3.5 x 0.5 mm) and remove terminal block via release lever.

CAGE CLAMP® connection



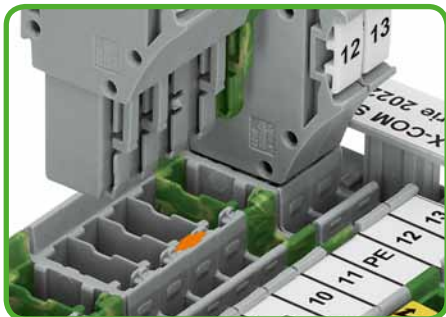
Carrier terminal block: inserting/removing conductor via screwdriver (3.5 x 0.5 mm).

Coding

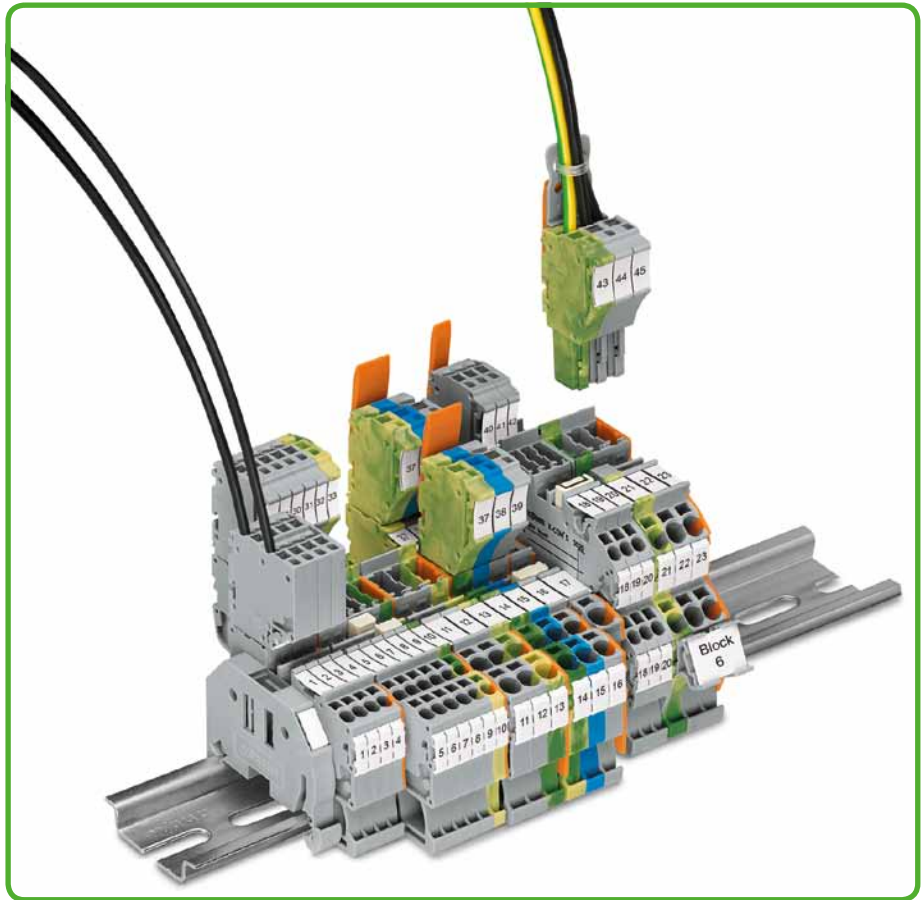


Coding a female plug: remove coding finger using a suitable tool.

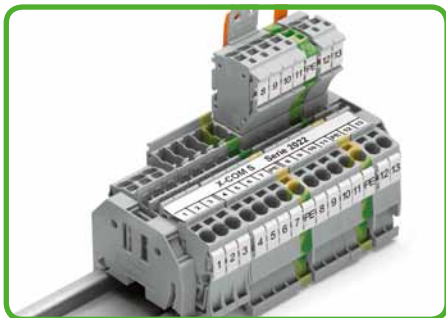
Coding



Insert 2022-100 coding pin into the corresponding location of the carrier terminal block.

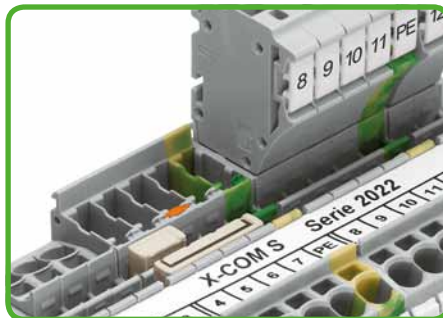


Marking

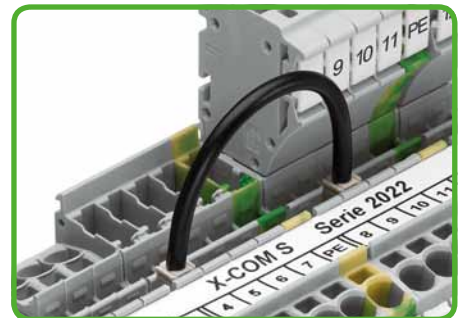


Marking terminal blocks via marking strips or WMB Multi markers.

Commoning



Commoning carrier terminal blocks via staggered jumper. Push jumper down until fully inserted!



Commoning carrier terminal blocks via push-in type wire jumper.

CAGE CLAMP®S clamps the following copper conductors:



solid



stranded



fine-stranded



tip bonded



with ferrule



with pin terminal

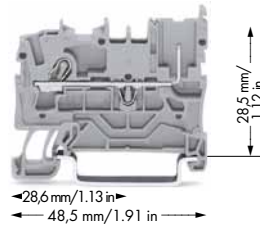
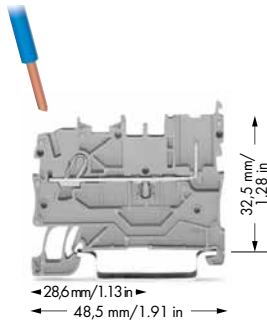
Strip length, see packaging or instructions.

X-COM® SYSTEM

Carrier Terminal Blocks and Female Plugs

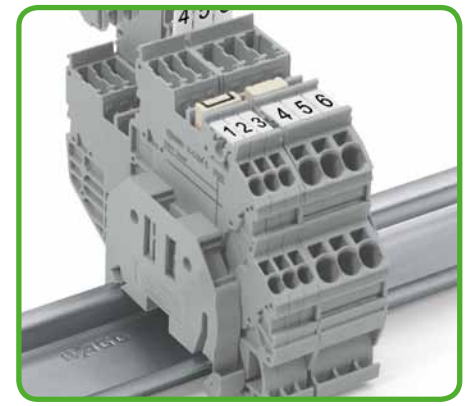
2020 and 2022 Series

<p>0.14 - 1 (1.5) mm² ① AWG 24 - 16 500 V/6 kV/3 I_N 13.5 A ③</p> <p>Terminal block width 3.5 mm / 0.138 in 9 - 11 mm / 0.39 in</p> <p>④ Approvals</p>	<p>0.25 - 2.5 (4) mm² ② AWG 22 - 12 690 V/6 kV/3 I_N 24 A (32 A) ③</p> <p>Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in</p> <p>④ Approvals</p>
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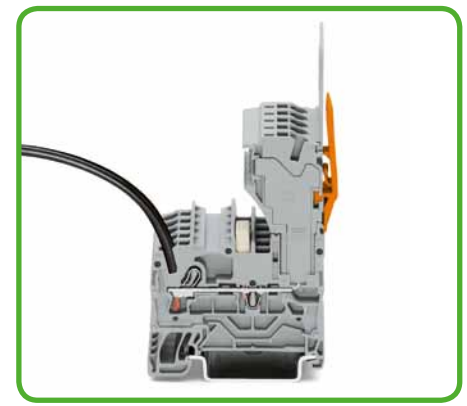


- ① Conductor sizes: 0.14 - 1.5 mm² "s + f-st"; Push-in conductor sizes: 0.5 - 1.5 mm² "s" and 0.5 - 0.75 mm² "insulated ferrule, 10 mm"
- ② Conductor sizes: 0.25 - 4 mm² "s + f-st"; Push-in conductor sizes: 0.75 - 4 mm² "s" and 0.75 - 2.5 mm² "insulated ferrule, 12 mm"
- ③ Derating curves available upon request
- ④ Approvals are available online at: www.wago.com.

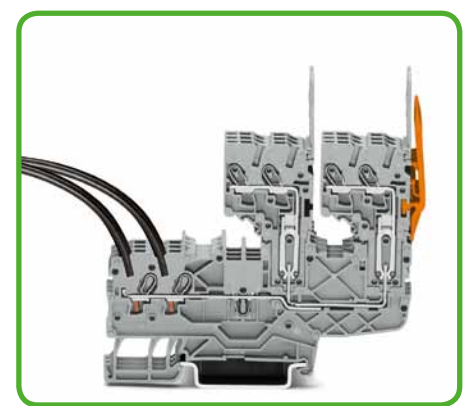
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
1-conductor/1-pin carrier terminal block, suitable for DIN 35 rail acc. to EN 60715			1-conductor/1-pin carrier terminal block, suitable for DIN 35 rail acc. to EN 60715		
gray	2020-1201	50	gray	2022-1201	100
blue	2020-1204	50	blue	2022-1204	100
1-conductor/1-pin ground carrier terminal block			1-conductor/1-pin ground carrier terminal block		
green-yellow	2020-1207	50	green-yellow	2022-1207	100
2-conductor/2-pin carrier terminal block,			2-conductor/1-pin carrier terminal block,		
gray	2020-1401	50	gray	2022-1301	100
blue	2020-1404	50	blue	2022-1304	100
2-conductor/2-pin ground carrier terminal block			2-conductor/1-pin ground carrier terminal block		
green-yellow	2020-1407	50	green-yellow	2022-1307	100
			2-conductor/2-pin carrier terminal block,		
			gray	2022-1401	50
			blue	2022-1404	50
			2-conductor/2-pin ground carrier terminal block		
			green-yellow	2022-1407	50
Item-Specific Accessories			Item-Specific Accessories		
End and intermediate plate, 1 mm thick, for 1-conductor / 1-pin carrier terminal block			End and intermediate plate, 1 mm thick, for 1-conductor / 1-pin carrier terminal block		
	gray	2020-1291 100 (4x25)		gray	2022-1291 100 (4x25)
	orange	2020-1292 100 (4x25)		orange	2022-1292 100 (4x25)
End and intermediate plate, 1 mm thick, for 2-conductor / 2-pin carrier terminal block			End and intermediate plate, 1 mm thick, for 2-conductor / 1-pin carrier terminal block		
	gray	2020-1491 100 (4x25)		gray	2022-1391 100 (4x25)
	orange	2020-1492 100 (4x25)		orange	2022-1392 100 (4x25)
			End and intermediate plate, 1 mm thick, for 2-conductor / 2-pin carrier terminal block		
	gray	2020-1491 100 (4x25)		gray	2022-1491 100 (4x25)
	orange	2020-1492 100 (4x25)		orange	2022-1492 100 (4x25)
2020 Series Accessories (see 2000 Series)			2022 Series Accessories (see 2002 Series)		
1-conductor female plug with CAGE CLAMP®S, with coding fingers, gray			1-conductor female plug with CAGE CLAMP®S, with coding fingers, gray		
	2-pole	2020-102 100		1-pole	2022-101 200
	3-pole	2020-103 50		2-pole	2022-102 100
	4-pole	2020-104 50		3-pole	2022-103 50
	:	:		:	:
	14-pole	2020-114 10		14-pole	2022-114 10
	15-pole	2020-115 10		15-pole	2022-115 10
Carrier with 6 coding pins,			Carrier with 6 coding pins,		
	for coding of female plugs			for coding of female plugs	
	orange	2020-100 100 (4x25)		orange	2022-100 100 (4x25)



Double-deck terminal blocks, 2020 and 2022 Series



1-conductor female plug on 1-conductor/1-pin carrier terminal block



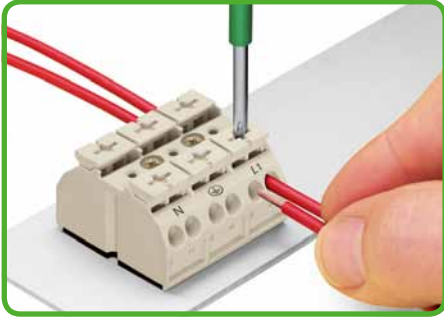
2-conductor female plugs on 2-conductor/2-pin carrier terminal block

Additional poles and/or mixed (gray/blue/green-yellow) female plugs upon request

4-Conductor, Chassis-Mount Terminal Strips

Description and Handling, 862 Series

Conductor termination



Four conductors per pole for solid and fine-stranded conductors.

Marking



Marking
Direct, one-side printing
Marking strips

Testing



Testing
with test plug 2 mm Ø.

Ground contact (PE contact)

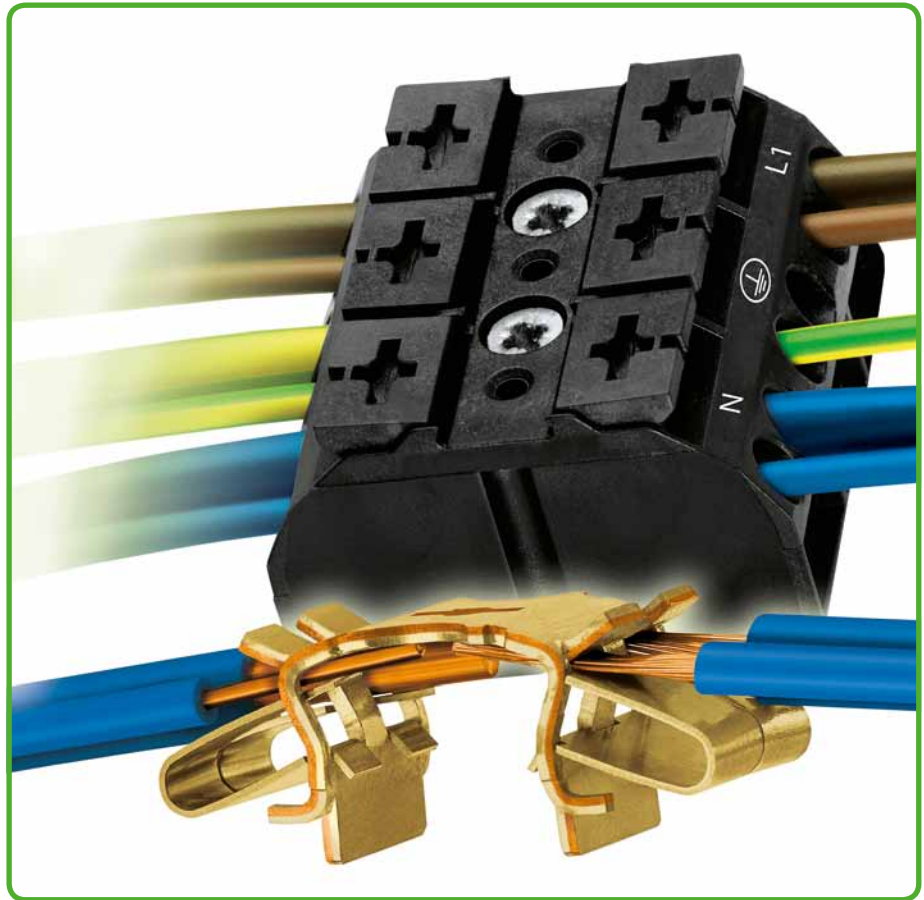


Makes an automatic contact to the mounting plate. The varnish coating is penetrated automatically.

Commoning



Commoning with comb-style jumper bar.



Cost-effective features:

The 862 Series chassis-mount terminal strips were developed specifically to **minimize wiring costs**, while accommodating requirements for easy mounting, multiple connection points, marking and handling:

- The 862 Series equipped with CAGE CLAMP®S connects up to four conductors sized 0.5 mm² to 4 mm² (AWG 20–12). Due to multiple connection points per pole, different conductor sizes can be used within the same terminal block position.
- CAGE CLAMP®S termination technology allows solid conductors, fine-stranded conductors with ferrules or ultrasonically bonded conductors from 0.5 mm² to 4 mm² (AWG 20–12) to be connected by simply pushing the conductor into contact. (Length of bonded wire end min. 10 mm/0.39 in).
- Convenient automatic grounding contact available as an option.
- Snap-in mounting feet for fast assembly.
- Push-buttons for easy handling with an operating tool or by hand.
- Built-in test points simplify testing with test plug 2 mm Ø.
- Flexible marking options with standard marking (pre-marked), marker strip or custom marked for large quantity orders.

CAGE CLAMP®S clamps the following copper conductors:



solid



stranded



fine-stranded

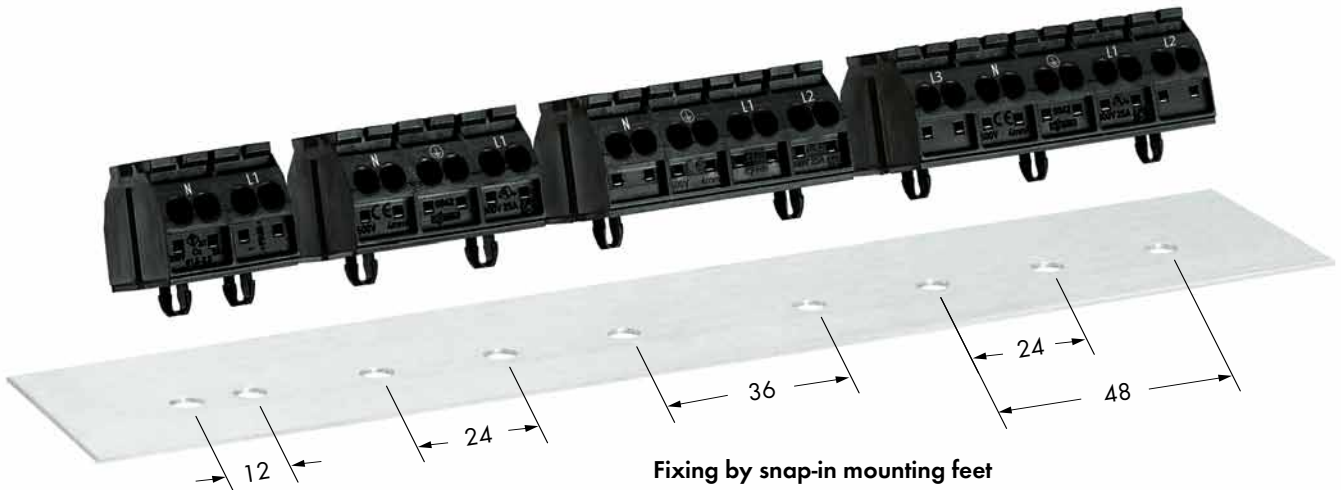


tip bonded



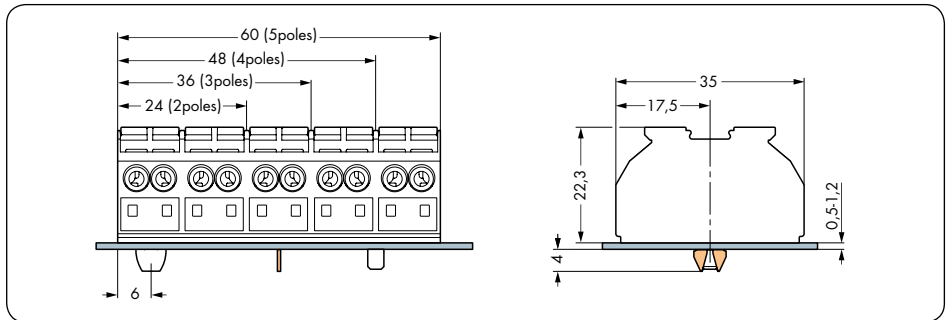
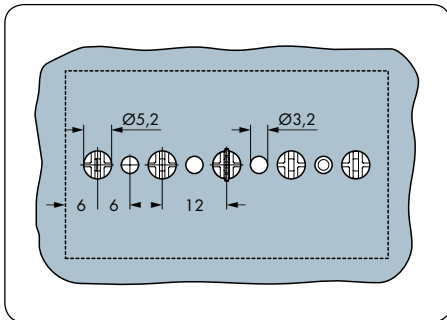
with ferrule

Strip length, see packaging or instructions.



Fixing by snap-in mounting feet

Dimensions





Ferrules	Sleeve for mm ²	AWG	Color	Strip Length L mm	L1	D mm	D1	D2	Item No.	Pack. Unit	
	Insulated ferrules										
	0,5	22	white	12,0	16,0	10,0	3,1	2,6	1,0	216-241	1000
	0,75	20	gray	12,0	16,0	10,0	3,3	2,8	1,2	216-242	1000
	1,0	18	red	12,0	16,0	10,0	3,5	3,0	1,4	216-243	1000
	1,5	16	black	12,0	16,0	10,0	4,0	3,5	1,7	216-244	1000
	2,5	14	blue	12,0	17,0	10,0	4,7	4,2	2,2	216-246	1000
	4	12	gray	14,0	20,0	12,0	5,4	4,8	2,8	216-267	500
	Uninsulated ferrules										
	0,5	22		10	10		2,1		1,0	216-141	1000
	0,75	20		10	10		2,3		1,2	216-142	1000
	1,0	18		10	10		2,5		1,4	216-143	1000
	1,5	16		10	10		2,8		1,7	216-144	1000
	2,5	14		10	10		3,4		2,2	216-106	1000
	4	12		12	12		4,0		2,8	216-167	1000

Please find the entire product range in our Full Line Catalog, Volume 1. Additional information at www.wago.com.

4-Conductor, Chassis-Mount Terminal Strips

2- and 3-Pole, 4 mm²

862 Series

	0.5 - 4 mm² ① 500 V/6 kV/3 I _N 32 A  10 - 11 mm / 0.41 in ② Approvals	0.5 - 4 mm² ① 500 V/6 kV/3 I _N 32 A  10 - 11 mm / 0.41 in ② Approvals
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① Conductor sizes: 0.25 - 4 mm² "s + fst";
 Push-in conductor sizes: 0.75 - 4 mm² "s" and
 0.75 - 2.5 mm² "insulated ferrule, 12 mm"



Available in black and white.

2-pole

3-pole

	without Ground contact (PE contact)	with Ground contact (PE contact)	Item No. black	Item No. white	Pack. Unit	Item No. black	Item No. white	Pack. Unit
For screw and nut 3 mm Ø or for self-tapping screw 2.9 mm Ø from top								
	plain		● 862-0552	○ 862-0652	500			
	L1-N		● 862-1552	○ 862-1652	500			
	N-L1		● 862-2552	○ 862-2652	500			
For self-tapping screw 2.9 mm Ø from below								
	plain		● 862-0562	○ 862-0662	500			
	L1-N		● 862-1562	○ 862-1662	500			
	N-L1		● 862-2562	○ 862-2662	500			
1 snap-in foot per pole								
	plain		● 862-0532	○ 862-0632	500			
	L1-N		● 862-1532	○ 862-1632	500			
	N-L1		● 862-2532	○ 862-2632	500			
For screw and nut 3 mm Ø or for self-tapping screw 2.9 mm Ø from top								
	plain					● 862-0503	○ 862-0603	250
	⊕-N-L1					● 862-1503	○ 862-1603	250
	N-⊕-L1					● 862-2503	○ 862-2603	250
		N-⊕-L1				● 862-8503	○ 862-8603	250
		⊕-N-L1				● 862-9503	○ 862-9603	250
1 snap-in foot per pole								
	plain					● 862-0533	○ 862-0633	250
	⊕-N-L1					● 862-1533	○ 862-1633	250
	N-⊕-L1					● 862-2533	○ 862-2633	250
		N-⊕-L1				● 862-8533	○ 862-8633	250
		⊕-N-L1				● 862-9533	○ 862-9633	250
Snap-in foot at pos. 1+3								
	plain					● 862-0593	○ 862-0693	250
	⊕-N-L1					● 862-1593	○ 862-1693	250
	N-⊕-L1					● 862-2593	○ 862-2693	250
		N-⊕-L1				● 862-8593	○ 862-8693	250
		⊕-N-L1				● 862-9593	○ 862-9693	250

862 Series Accessories







Comb-style jumper bar , simply push into conductor entry hole I _N 32 A 862-482 5	Test plug , with 500 mm cable, 2 mm Ø red 210-136 50	Test plug , with 500 mm cable, 2.3 mm Ø yellow 210-137 50
Operating tool with partially insulated shaft , type 2, (3.5 x 0.5) mm blade 210-720 1	Suitable for Ex e II applications 440 V, 28 A	Marking strip , plain, 7.5 mm wide, 50m roll white 709-178 1

② Approvals are available online at: www.wago.com.

4-Conductor, Chassis-Mount Terminal Strips

4- and 5-Pole, 4 mm²

862 Series

	0.5 - 4 mm² ① 500 V/6 kV/3 I _N 32 A	4 x AWG 20 - 12 300 V, 20 A  300 V, 20 A 
	0.5 - 4 mm² ① 500 V/6 kV/3 I _N 32 A	4 x AWG 20 - 12 300 V, 20 A  300 V, 20 A 
	 10 - 11 mm / 0.41 in ② Approvals	 10 - 11 mm / 0.41 in ② Approvals

① Conductor sizes: 0.25 - 4 mm² "s + fst";
 Push-in conductor sizes: 0.75 - 4 mm² "s" and 0.75 - 2.5 mm² "insulated ferrule, 12 mm"








Available in black and white.

4-pole

5-pole

	without Ground contact (PE contact)	with Ground contact (PE contact)	Item No. black	Item No. white	Pack. Unit	Item No. black	Item No. white	Pack. Unit
For screw and nut 3 mm Ø or for self-tapping screw 2.9 mm Ø from top								
	plain		● 862-0504	○ 862-0604	200			
	⊕-N-L1-L2		● 862-1504	○ 862-1604	200			
	N-⊕-L1-L2		● 862-2504	○ 862-2604	200			
		N-⊕-L1-L2	● 862-8504	○ 862-8604	200			
		⊕-N-L1-L2	● 862-9504	○ 862-9604	200			
1 snap-in foot per pole								
	plain		● 862-0534	○ 862-0634	200			
	⊕-N-L1-L2		● 862-1534	○ 862-1634	200			
	N-⊕-L1-L2		● 862-2534	○ 862-2634	200			
		N-⊕-L1-L2	● 862-8534	○ 862-8634	200			
		⊕-N-L1-L2	● 862-9534	○ 862-9634	200			
Snap-in foot at pos. 1+4								
	plain		● 862-0594	○ 862-0694	200			
	⊕-N-L1-L2		● 862-1594	○ 862-1694	200			
	N-⊕-L1-L2		● 862-2594	○ 862-2694	200			
		N-⊕-L1-L2	● 862-8594	○ 862-8694	200			
		⊕-N-L1-L2	● 862-9594	○ 862-9694	200			
For screw and nut 3 mm Ø or for self-tapping screw 2.9 mm Ø from top								
	plain					● 862-0505	○ 862-0605	200
	⊕-N-L1-L2-L3					● 862-1505	○ 862-1605	200
	L3-N-⊕-L1-L2					● 862-2505	○ 862-2605	200
		L3-N-⊕-L1-L2				● 862-8505	○ 862-8605	200
		⊕-N-L1-L2-L3				● 862-9505	○ 862-9605	200
1 snap-in foot per pole								
	plain					● 862-0525	○ 862-0625	200
	⊕-N-L1-L2-L3					● 862-1525	○ 862-1625	200
	L3-N-⊕-L1-L2					● 862-2525	○ 862-2625	200
		L3-N-⊕-L1-L2				● 862-8525	○ 862-8625	200
		⊕-N-L1-L2-L3				● 862-9525	○ 862-9625	200
Snap-in foot at pos. 1+3+5								
	plain					● 862-0515	○ 862-0615	200
	⊕-N-L1-L2-L3					● 862-1515	○ 862-1615	200
	L3-N-⊕-L1-L2					● 862-2515	○ 862-2615	200
		L3-N-⊕-L1-L2				● 862-8515	○ 862-8615	200
		⊕-N-L1-L2-L3				● 862-9515	○ 862-9615	200

862 Series Accessories

Comb-style jumper bar , simply push into conductor entry hole  I _N 32 A 862-482 5	Test plug , with 500 mm cable, 2 mm Ø  red 210-136 50	Test plug , with 500 mm cable, 2.3 mm Ø  yellow 210-137 50
Operating tool with partially insulated shaft , type 2, (3.5 x 0.5) mm blade  210-720 1	Suitable for Ex e II applications 440 V, 28 A	Marking strip , plain, 7.5 mm wide, 50m roll  white 709-178 1

Rail-Mounted Terminal Blocks 279 to 285 Series

Conductor termination/removal

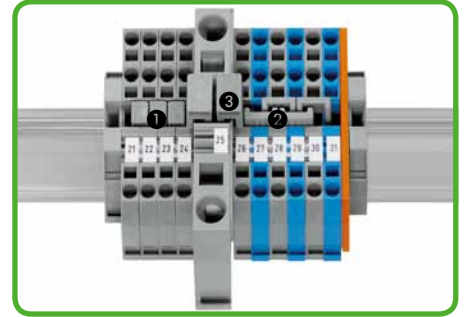


Inserting conductor via screwdriver.



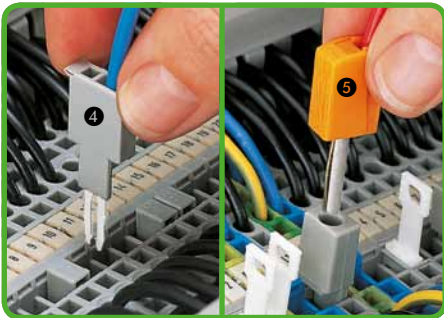
Removing conductor via screwdriver.

Adjacent/Staggered/Step-down jumpers



Commoning with adjacent jumpers **1** or with staggered jumpers **2**.
Commoning terminal blocks of different sizes - with step down jumpers **3**.

Testing

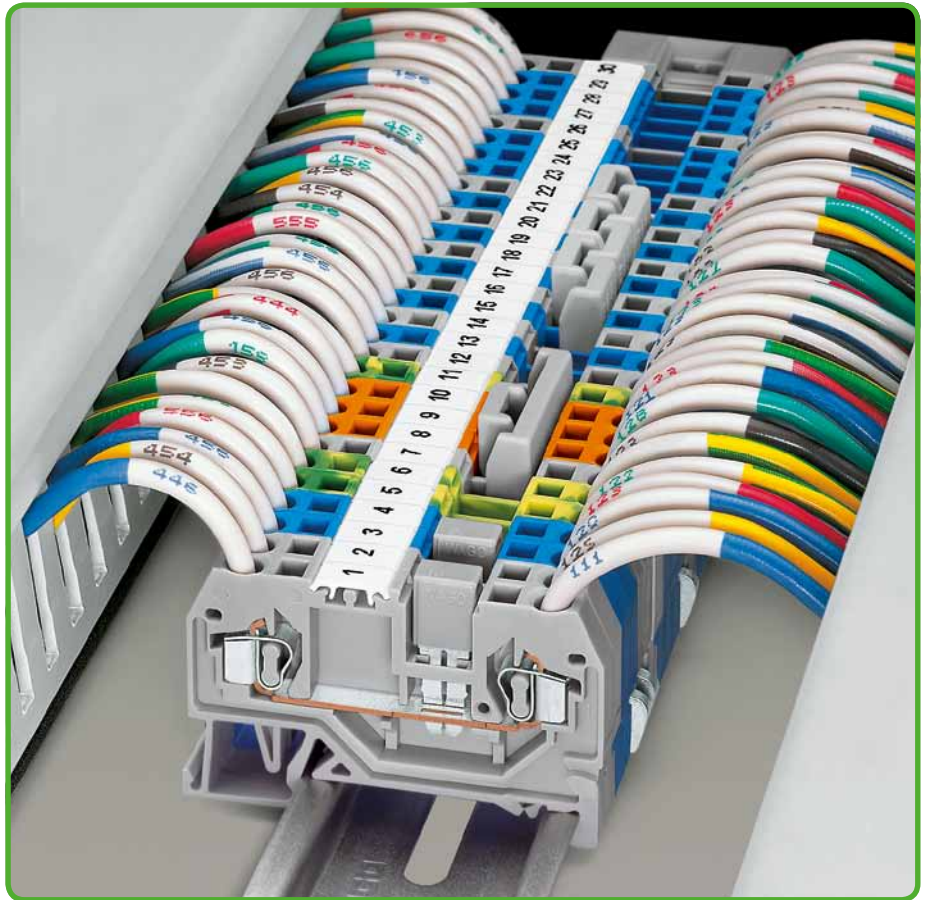


4 Test plug adapter fitted with CAGE CLAMP®
5 Banana plug (4 mm Ø) via 209-170 test plug adapter

Warning cover/Insulation stop

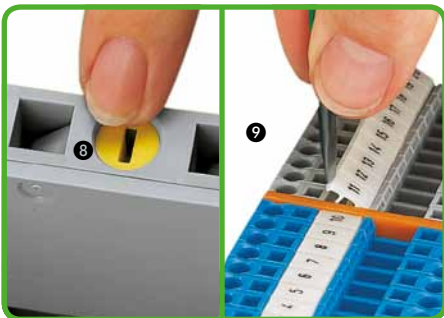


6 Protective warning markers inserted into operating slots.
7 Inserting insulation stop.



Finger guard

Marking

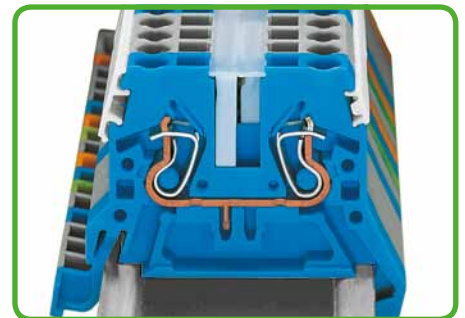


8 Touchproof cover protects unused conductor entries.
9 Marking via WMB Multi markers.



Marking via IP350 Plotter.

870 Series (see Full Line Catalog, Volume 1)



Rail-mounted terminal blocks equipped with CAGE CLAMP®.

CAGE CLAMP®S clamps the following copper conductors:



solid



stranded



fine-stranded



tip bonded



with ferrule



with pin terminal







Strip length, see packaging or instructions.

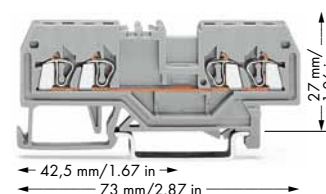
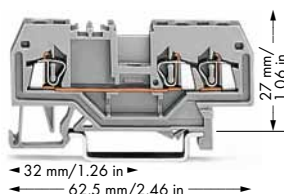
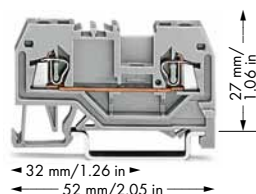
Through/Ground Conductor/Shield and Ex Terminal Blocks







1.5 mm²

279 Series

CAGE CLAMP®

<p>0.08 - 1.5 mm² 800 V/8 kV/3 I_N 18 A</p> <p>Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in</p> <p>● Approvals</p>	<p>AWG 28 - 16 600 V, 10 A  600 V, 10 A </p>	<p>0.08 - 1.5 mm² 800 V/8 kV/3 I_N 18 A</p> <p>Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in</p> <p>● Approvals</p>	<p>AWG 28 - 16 600 V, 10 A  600 V, 10 A </p>	<p>0.08 - 1.5 mm² 800 V/8 kV/3 I_N 18 A</p> <p>Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in</p> <p>● Approvals</p>	<p>AWG 28 - 16 600 V, 10 A  600 V, 10 A </p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			4-conductor through terminal block		
gray	279-901	100	gray	279-681	100	gray	279-831	100
blue	279-904	100	blue	279-684	100	blue	279-834	100
orange	279-902	100	orange	279-682	100	orange	279-832	100
red	279-903	100	red	279-683	100	red	279-833	100
black	279-905	100	black	279-685	100	black	279-835	100
yellow	279-906	100	yellow	279-686	100	yellow	279-836	100
light gray 	279-992	100	light gray 	279-993	100	light gray 	279-994	100
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow	279-907	100	green-yellow	279-687	100	green-yellow	279-837	100
green-yellow 	279-907/999-950	100	green-yellow 	279-687/999-950	100	green-yellow 	279-837/999-950	100
Other terminal blocks with the same profile:			Other terminal blocks with the same profile:			Other terminal blocks with the same profile:		
Diode	279-915/.....	Volume 1	Diode	279-673/.....	Volume 1	Double-potential	279-826	Volume 1
			LED	279-674/.....	Volume 1	Diode	279-815/.....	Volume 1
						LED	279-809/.....	Volume 1

Item-Specific Accessories

(Separator for Ex e / Ex i applications, see page 30)

End and intermediate plate, 2 mm thick	End and intermediate plate, 2 mm thick	End and intermediate plate, 2 mm thick
orange 279-328 100 (4x25)	orange 279-339 100 (4x25)	orange 279-346 100 (4x25)
gray 279-325 100 (4x25)	gray 279-308 100 (4x25)	gray 279-344 100 (4x25)
light gray 279-330 100 (4x25)	light gray 279-341 100 (4x25)	light gray 279-348 100 (4x25)
Separator, oversized, 2 mm thick	Separator, oversized, 2 mm thick	Separator, oversized, 2 mm thick
orange 279-329 100 (4x25)	orange 279-340 100 (4x25)	orange 279-347 100 (4x25)
gray 279-326 100 (4x25)	gray 279-309 100 (4x25)	gray 279-345 100 (4x25)
light gray 279-331 100 (4x25)	light gray 279-342 100 (4x25)	light gray 279-349 100 (4x25)

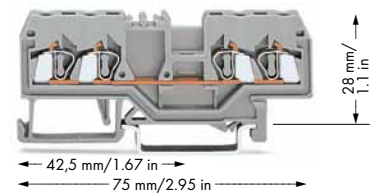
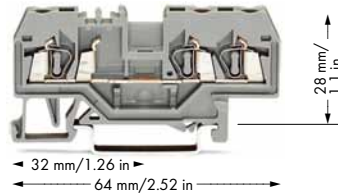
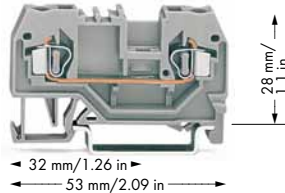
279 Series Accessories

Appropriate marking system: **WMB**

<p>Adjacent jumper, insulated, I_N 15 A</p> <p>gray 279-402 200 (8x25)</p> <p>yellow-green 279-422 200 (8x25)</p>	<p>Alternate comb-style jumper bar, insulated, I_N = I_N terminal block</p> <p>2-way 279-492 200 (8x25)</p>	<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</p> <p>yellow 279-415 100 (4x25)</p>
<p>Alternate jumper, insulated, I_N 15 A</p> <p>gray 279-409 100 (4x25)</p>	<p>Operating tool, insulated</p> <p>2-way 279-432 1</p> <p>3-way 279-433 1</p> <p>10-way 279-440 1</p>	<p>Screwless end stop</p> <p>6 mm wide 249-116 100 (4x25)</p> <p>10 mm wide 249-117 50 (2x25)</p>
<p>Push-in type wire jumper, insulated, I_N 9 A</p> <p>60 mm 249-125 10</p> <p>110 mm 249-126 10</p> <p>250 mm 249-127 10</p>	<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>white 279-470 0.08-0.2 mm² (AWG 28-24)</p> <p>dark gray 279-471 0.25 mm² (AWG 22)</p>	<p>Test plug adapter, for terminal blocks 1.5-4 mm² (AWG 16-12), 5 mm wide</p> <p>280-404 100 (4x25)</p> <p>for 210-137 test plug</p>
<p>Comb-style jumper bar, insulated, I_N = I_N terminal block</p> <p>2-way 279-482 200 (8x25)</p> <p>3-way 279-483 200 (8x25)</p> <p>10-way 279-490 50 (2x25)</p>	<p>● Suitable for Ex i applications</p> <p>⊗ Suitable for Ex e II applications</p> <p>0.2 - 1.5 mm² AWG 24 - 16</p> <p>550 V, 15 A</p>	<p>Test plug adapter, for terminal blocks 1.5-10 mm² (AWG 16-8), 8 mm wide</p> <p>209-170 50 (2x25)</p> <p>for test plug 4 mm ∅</p>
<p>Operating tool with partially insulated shaft, type 1, (2.5 x 0.4) mm blade</p> <p>210-719 1</p>		<p>Banana plugs, only for safety extra-low voltage (42 V)</p> <p>black 215-311 50</p> <p>red 215-212 50</p> <p>blue 215-711 50</p>

Through/Ground Conductor/Shield and Ex Terminal Blocks 2.5 mm² 280 Series

<p>0.08 - 2.5 mm² 800 V/8 kV/3 I_N 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in</p> <p>Approvals</p>	<p>AWG 28 - 12* 600 V, 20 A 600 V, 20 A</p>	<p>0.08 - 2.5 mm² 800 V/8 kV/3 I_N 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in</p> <p>Approvals</p>	<p>AWG 28 - 12* 600 V, 20 A 600 V, 10 A</p>	<p>0.08 - 2.5 mm² 800 V/8 kV/3 I_N 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in</p> <p>Approvals</p>	<p>AWG 28 - 12* 600 V, 20 A 600 V, 10 A</p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			4-conductor through terminal block		
gray	280-901	100	gray	280-681	100	gray	280-833	100
blue	280-904	100	blue	280-684	100	blue	280-834	100
orange	280-902	100	orange	280-650	100	orange	280-835	100
red	280-903	100	red	280-653	100	red	280-830	100
black	280-905	100	black	280-671	100	black	280-831	100
yellow	280-906	100	yellow	280-672	100	yellow	280-832	100
light gray	280-992	100	light gray	280-993	100	light gray	280-994	100
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow	280-907	100	green-yellow	280-687	100	green-yellow	280-837	100
green-yellow	280-907/999-950	100	green-yellow	280-687/999-950	100	green-yellow	280-837/999-950	100
Other terminal blocks with the same profile:			Other terminal blocks with the same profile:			Other terminal blocks with the same profile:		
Diode	280-915/...	Volume 1	Diode	280-673/...	Volume 1	Double-potential	280-826	Volume 1
Disconnect	280-912	Page 67	Disconnect	280-683	Page 67	LED	280-809/...	Volume 1
Carrier	280-916	Volume 1	Carrier	280-610	Volume 1	Carrier	280-816	Volume 1
4-conductor shield terminal block						white 280-838 100		

Item-Specific Accessories

(Separator for Ex e/Ex i applications, see page 30)

End and intermediate plate, 2.5 mm thick	End and intermediate plate, 2.5 mm thick	End and intermediate plate, 2.5 mm thick
orange 280-309 100 (4x25)	orange 280-326 100 (4x25)	orange 280-315 100 (4x25)
gray 280-308 100 (4x25)	gray 280-324 100 (4x25)	gray 280-314 100 (4x25)
light gray 280-356 100 (4x25)	light gray 280-358 100 (4x25)	light gray 280-352 100 (4x25)
Separator, oversized, 2 mm thick	Separator, oversized, 2 mm thick	Separator, oversized, 2 mm thick
orange 280-311 100 (4x25)	orange 280-346 100 (4x25)	orange 280-335 100 (4x25)
gray 280-310 100 (4x25)	gray 280-344 100 (4x25)	gray 280-334 100 (4x25)
light gray 280-357 100 (4x25)	light gray 280-359 100 (4x25)	light gray 280-353 100 (4x25)

280 Series Accessories

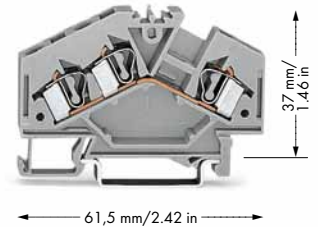
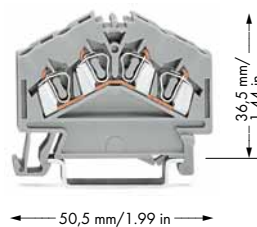
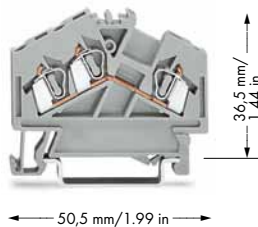
Appropriate marking system: **WMB**

<p>Adjacent jumper, insulated, I_N 24 A</p> <p>gray 280-402 200 (8x25)</p> <p>yellow-green 280-422 200 (8x25)</p>	<p>Comb-style jumper bar, insulated, I_N = I_N terminal block</p> <p>2-way 280-482 200 (8x25)</p> <p>3-way 280-483 200 (8x25)</p> <p>10-way 280-490 50 (2x25)</p>	<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</p> <p>yellow 280-415 100 (4x25)</p>
<p>Alternate jumper, insulated, I_N 24 A</p> <p>gray 280-409 100 (4x25)</p>	<p>Operating tool, insulated</p> <p>2-way 280-432 1</p> <p>3-way 280-433 1</p> <p>10-way 280-440 1</p>	<p>Screwless end stop</p> <p>6 mm wide 249-116 100 (4x25)</p> <p>10 mm wide 249-117 50 (2x25)</p>
<p>Staggered jumper, insulated, I_N 24 A, spacing 5 mm</p> <p>from 1 to 2 780-452 100 (4x25)</p> <p>from 1 to 3 780-453 100 (4x25)</p> <p>from 1 to 4 780-454 100 (4x25)</p> <p>from 1 to 5 780-455 50 (2x25)</p> <p>: :</p> <p>from 1 to 8 780-458 50 (2x25)</p>	<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>white 280-470 0.08-0.2 mm² (AWG 28-24)</p> <p>light gray 280-471 0.25-0.5 mm² (AWG 12-20)</p> <p>dark gray 280-472 0.75-1 mm² (AWG 20-18)</p>	<p>Test plug adapter, for terminal blocks 1.5-4 mm² (AWG 16-12), 5 mm wide</p> <p>280-404 100 (4x25)</p> <p>for 210-137 test plug</p>
<p>Push-in type wire jumper, insulated, I_N 9 A</p> <p>60 mm 249-125 10</p> <p>110 mm 249-126 10</p> <p>250 mm 249-127 10</p>	<p>● Suitable for Ex i applications</p> <p>☒ Suitable for Ex e II applications</p> <p>0.2 - 2.5 mm² AWG 24 - 12</p> <p>550 V, 20 A</p>	<p>Test plug adapter, for terminal blocks 1.5-10 mm² (AWG 16-12), 8 mm wide</p> <p>209-170 50 (2x25)</p> <p>for test plug 4 mm Ø</p>
		<p>Test plug, 6 mm wide, with CAGE CLAMP[®]</p> <p>for 0.08-2.5 mm² (AWG 28-14)</p> <p>I_N 24 A 281-407 100 (4x25)</p>

Through/Ground and Ex Terminal Blocks, Angled Type 280 Series (2.5 mm²) and 281 Series (4 mm²)










CAGE CLAMP®

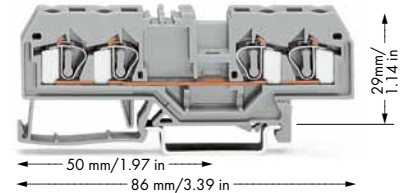
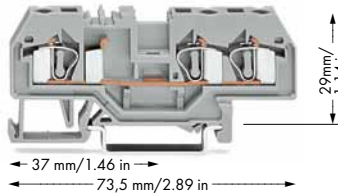
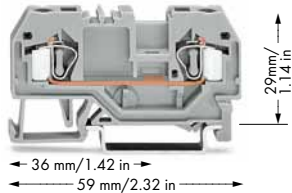
<p>0.08 - 2.5 mm² 800 V/8 kV/3 I_N 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in</p> <p>AWG 28 - 12* 600 V, 20 A 600 V, 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in</p> <p>Approvals</p>	<p>0.08 - 2.5 mm² 800 V/8 kV/3 I_N 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in</p> <p>AWG 28 - 12* 600 V, 20 A 600 V, 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in</p> <p>Approvals</p>	<p>0.08 - 4 mm² 800 V/8 kV/3 I_N 32 A</p> <p>Terminal block width 6 mm / 0.236 in 9 - 10 mm / 0.37 in</p> <p>AWG 28 - 12 600 V, 20 A 600 V, 20 A</p> <p>Terminal block width 6 mm / 0.236 in 9 - 10 mm / 0.37 in</p> <p>Approvals</p>
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




Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
3-conductor through terminal block			4-conductor through terminal block			3-conductor through terminal block		
gray	280-641	100	gray	280-646	100	gray	281-631	100
blue	280-651	100	blue	280-656	100	blue	281-651	100
orange	280-654	100	orange	280-946	100	light gray (Ex)	281-998	100
light gray (Ex)	280-998	100	light gray (Ex)	280-996	100	3-conductor ground terminal block		
3-conductor ground terminal block			Notice: These terminal blocks can only be commoned with 280 Series comb-style jumper bars!			3-conductor ground terminal block		
green-yellow	280-637	100				green-yellow	281-637	100
green-yellow (Ex)	280-637/999-950	100				green-yellow (Ex)	281-637/999-950	100
3-conductor shield terminal block								
white	280-640	100						
Other terminal blocks with the same profile:								
Spacer		280-654/056-000	Volume 1					
Item-Specific Accessories					Item-Specific Accessories			
End and intermediate plate, 2.5 mm thick			End and intermediate plate, 2.5 mm thick			End and intermediate plate, 2.5 mm thick		
orange	280-313	100 (4x25)	orange	280-313	100 (4x25)	orange	281-313	100 (4x25)
gray	280-312	100 (4x25)	gray	280-312	100 (4x25)	gray	281-312	100 (4x25)
light gray	280-354	100 (4x25)	light gray	280-354	100 (4x25)	light gray	281-357	100 (4x25)
Separator, oversized, 2.5 mm thick			Separator, oversized, 2.5 mm thick			Separator, oversized, 2 mm thick		
orange	280-318	100 (4x25)	orange	280-318	100 (4x25)	orange	281-318	100 (4x25)
gray	280-348	100 (4x25)	gray	280-348	100 (4x25)	gray	281-348	100 (4x25)
light gray	280-355	100 (4x25)	light gray	280-355	100 (4x25)	light gray	281-358	100 (4x25)
280 Series Accessories Appropriate marking system: WMB					281 Series Appropriate marking system: WMB			
Adjacent jumper, insulated, I_N 24 A			Protective warning marker, with high-voltage symbol, for 5 terminal blocks			Adjacent jumper, insulated, I_N 24 A		
gray	280-402	200 (8x25)	yellow	280-415	100 (4x25)	gray	281-402	200 (8x25)
yellow-green	280-422	200 (8x25)				yellow-green	281-422	200 (8x25)
Alternate jumper, insulated, I_N 24 A			Screwless end stop, 6 mm wide			Alternate jumper, insulated, I_N 24 A		
gray	280-409	100 (4x25)	10 mm wide	249-117	50 (2x25)	gray	281-409	100 (4x25)
Staggered jumper, insulated, I_N 24 A, spacing 5 mm			Test plug adapter, for terminal blocks 1.5-4 mm² (AWG 16-12), 5 mm wide			Staggered jumper, insulated, I_N 24 A, spacing 5 mm		
from 1 to 2	780-452	100 (4x25)	280-404	100 (4x25)	from 1 to 2	781-452	100 (4x25)	
from 1 to 3	780-453	100 (4x25)	for 210-137 test plug			from 1 to 3	781-453	100 (4x25)
from 1 to 4	780-454	100 (4x25)	Insulation stop, 5 pcs/strip			from 1 to 4	781-454	100 (4x25)
from 1 to 5	780-455	50 (2x25)	200 strips			from 1 to 5	781-455	50 (2x25)
:	:					from 1 to 6	781-456	50 (2x25)
from 1 to 8	780-458	50 (2x25)						
Push-in type wire jumper, insulated, I_N 9 A			white					
60 mm	249-125	10	light gray	280-471	0.25-0.5 mm ² (AWG 12-20)			
110 mm	249-126	10	dark gray	280-472	0.75-1 mm ² (AWG 20-18)			
250 mm	249-127	10	For additional accessories, see page 52.			For additional accessories see page 54.		
Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade			Suitable for Ex i applications			Suitable for Ex i applications		
210-720		1	(Ex) Suitable for Ex e II applications			(Ex) Suitable for Ex e II applications		
			0.2 - 2.5 mm ² AWG 24 - 12			0.2 - 4 mm ² AWG 24 - 12		
			550 V, 20 A			550 V, 30 A		

Through/Ground Conductor/Shield and Ex Terminal Blocks 4 mm² 281 Series

0.08 - 4 mm ² 800 V/8 kV/3 I _N 32 A Terminal block width 6 mm / 0.236 in  9 - 10 mm / 0.37 in ⓘ Approvals	AWG 28 - 12 600 V, 20 A  600 V, 20 A 	0.08 - 4 mm ² 800 V/8 kV/3 I _N 32 A Terminal block width 6 mm / 0.236 in  9 - 10 mm / 0.37 in ⓘ Approvals	AWG 28 - 12 600 V, 20 A  600 V, 20 A 	0.08 - 4 mm ² 800 V/8 kV/3 I _N 26 A Terminal block width 6 mm / 0.236 in  9 - 10 mm / 0.37 in ⓘ Approvals	AWG 28 - 12 600 V, 20 A  600 V, 20 A 
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			4-conductor through terminal block		
gray	281-901	50	gray	281-681	50	gray	281-652	50
blue	281-904	50	blue	281-684	50	blue	281-654	50
orange	281-902	50	orange	281-678	50	orange	281-653	50
red	281-903	50	red	281-679	50	red	281-663	50
black	281-905	50	black	281-685	50	black	281-664	50
yellow	281-906	50	yellow	281-686	50	yellow	281-668	50
light gray 	281-992	50	light gray 	281-993	50	light gray 	281-994	50
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow	281-907	50	green-yellow	281-687	50	green-yellow	281-657	50
green-yellow 	281-907/999-950	50	green-yellow 	281-687/999-950	50	green-yellow 	281-657/999-950	50
Other terminal blocks with the same profile:			Other terminal blocks with the same profile:			Other terminal blocks with the same profile:		
Diode	281-915/.	Volume 1	Diode	281-673/.	Volume 1	Diode	281-665/.	Volume 1
Disconnect	281-912	Page 67	Disconnect	281-683	Page 67	Disconnect	281-659	Page 67
Carrier	281-916	Page 66	Carrier	281-610	Page 66	Carrier	281-656	Page 66














Item-Specific Accessories

Separator for Ex e /Ex i applications, see page 30

End and intermediate plate, 2.5 mm thick	End and intermediate plate, 2.5 mm thick	End and intermediate plate, 2.5 mm thick
orange 281-329 100 (4x25)	orange 281-326 100 (4x25)	orange 281-335 100 (4x25)
gray 281-328 100 (4x25)	gray 281-324 100 (4x25)	gray 281-334 100 (4x25)
light gray 281-349 100 (4x25)	light gray 281-355 100 (4x25)	light gray 281-345 100 (4x25)
Separator, oversized, 2 mm thick	Separator, oversized, 2 mm thick	Separator, oversized, 2 mm thick
orange 281-331 100 (4x25)	orange 281-346 100 (4x25)	orange 281-339 100 (4x25)
gray 281-330 100 (4x25)	gray 281-344 100 (4x25)	gray 281-338 100 (4x25)
light gray 281-350 100 (4x25)	light gray 281-356 100 (4x25)	light gray 281-347 100 (4x25)

281 Series Accessories

Appropriate marking system: **WMB**

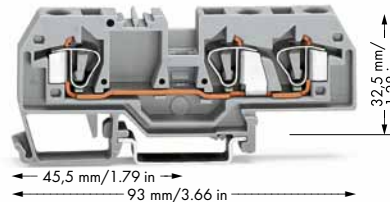
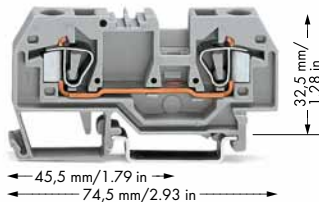
Adjacent jumper , insulated, I _N 32 A  gray 281-402 200 (8x25) yellow-green 281-422 200 (8x25)	Comb-style jumper bar , insulated, I _N = I _N terminal block  2-way 281-482 100 (4x25) 3-way 281-483 100 (4x25) 5-way 281-485 100 (4x25)	Protective warning marker , with high-voltage symbol, for 5 terminal blocks  yellow 281-415 100 (4x25)
Alternate jumper , insulated, I _N 32 A  gray 281-409 100 (4x25)	Operating tool , insulated  2-way 280-432 1 3-way 280-433 1 5-way 280-440 1	Screwless end stop ,  6 mm wide 249-116 100 (4x25) 10 mm wide 249-117 50 (2x25)
Staggered jumper , insulated, I _N 32 A Spacing: 6 mm  from 1 to 2 781-452 100 (4x25) from 1 to 3 781-453 100 (4x25) from 1 to 4 781-454 100 (4x25) from 1 to 5 781-455 50 (2x25) from 1 to 6 781-456 50 (2x25)	Insulation stop , 5 pcs/strip 200 strips  white 281-470 0.08-0.2 mm ² (AWG 28-24) light gray 281-471 0.25-0.5 mm ² (AWG 12-20) dark gray 281-472 0.75-1.5 mm ² (AWG 18-16)	Test plug adapter , for terminal blocks 1.5-4 mm ² (AWG 16-12), 5 mm wide  280-404 100 (4x25) for 210-137 test plug
Push-in type wire jumper , insulated, I _N 9 A  60 mm 249-125 10 110 mm 249-126 10 250 mm 249-127 10	 Suitable for Ex i applications  Suitable for Ex e II applications 0.2 - 4 mm ² AWG 24 - 12 550 V, 30 A	Test plug , 6 mm wide, with CAGE CLAMP [®]  for 0.08-2.5 mm ² (AWG 28-14) I _N 24 A 281-407 100 (4x25)

ⓘ Approvals are available online at: www.wago.com.

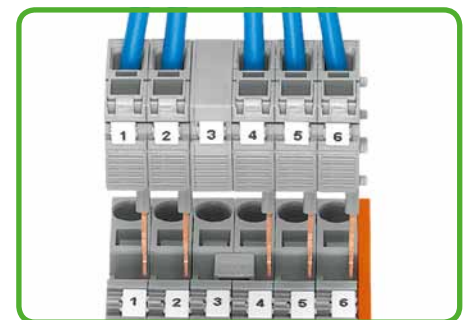
For technical explanations and abbreviations, see technical section.

Through/Ground Conductor and Ex Terminal Blocks 6 mm², 282 Series Test Plug Modules with CAGE CLAMP®, 249 and 709 Series

<p>0.2 - 6 mm² 800 V/8 kV/3 I_N 41 A</p> <p>Terminal block width 8 mm / 0.315 in 12 - 13 mm / 0.49 in</p> <p>Approvals</p>	<p>AWG 24 - 10 600 V, 30 A 600 V, 40 A</p>	<p>0.2 - 6 mm² 800 V/8 kV/3 I_N 41 A</p> <p>Terminal block width 8 mm / 0.315 in 12 - 13 mm / 0.49 in</p> <p>Approvals</p>	<p>AWG 24 - 10 600 V, 30 A 600 V, 40 A</p>	<p>Test plug modules for 280, 281, 282 and 284 Series rail-mounted terminal blocks</p>
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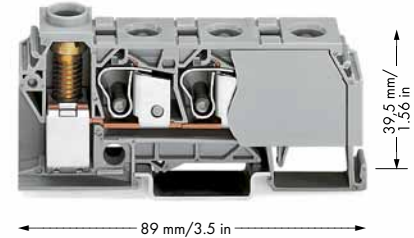
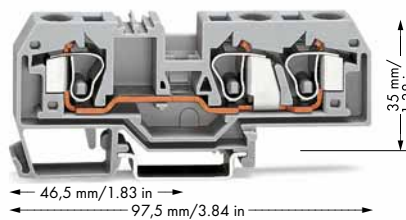
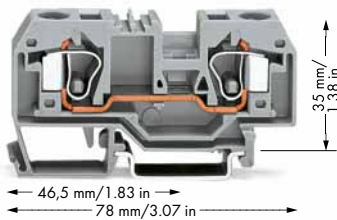
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			Test plug module with CAGE CLAMP®,	
gray	282-901	50	gray	282-681	25	can be snapped together, gray, module width 5 mm,	
blue	282-904	50	blue	282-684	25	suitable for all WAGO 280 Series rail-mounted terminal	
orange	282-902	50	orange	282-682	25	blocks, version using jumper contact position in current bar	
light gray (Ex)	282-992	50	light gray (Ex)	282-993	25	249-106	100 (4x25)
2-conductor ground terminal block			3-conductor ground terminal block			Spacer module, e.g., bridging commoned terminal blocks,	
green-yellow	282-907	50	green-yellow	282-687	25	can be snapped together, gray, module width 5 mm	
green-yellow (Ex)	282-907/999-950	50	green-yellow (Ex)	282-687/999-950	25	249-107	100 (4x25)
						Test plug module with CAGE CLAMP®,	
						can be snapped together, gray, module width 6 mm,	
						suitable for all WAGO 281 Series rail-mounted terminal	
						blocks, version using jumper contact position in current bar	
						249-147	
						100 (4x25)	
						Spacer module, e.g., bridging commoned terminal blocks,	
						can be snapped together, gray, module width 6 mm	
						249-148	
						100 (4x25)	
Item-Specific Accessories			Separator for Ex e / Ex i applications, see page 30			Test plug module with CAGE CLAMP®,	
End and intermediate plate, 2.5 mm thick			End and intermediate plate, 2.5 mm thick			can be snapped together, gray, module width 8 mm,	
orange	282-328	100 (4x25)	orange	282-339	100 (4x25)	suitable for all WAGO 282 Series rail-mounted terminal	
gray	282-325	100 (4x25)	gray	282-308	100 (4x25)	blocks, version using jumper contact position in current bar	
light gray	282-330	100 (4x25)	light gray	282-341	100 (4x25)	709-310	100 (4x25)
Separator, oversized, 2 mm thick			Separator, oversized, 2 mm thick			Spacer module, e.g., bridging commoned terminal blocks,	
orange	282-329	100 (4x25)	orange	282-340	100 (4x25)	can be snapped together, gray, module width 8 mm	
gray	282-326	100 (4x25)	gray	282-309	100 (4x25)	709-311	100 (4x25)
light gray	282-331	100 (4x25)	light gray	282-342	100 (4x25)	Spacer plate, - only for 284 Series -	
						modular, gray, width 2 mm,	
						snaps on 709-310 test plug modules and	
						709-311 spacer modules for testing 284 Series rail-mount-	
						ed terminal blocks	
						709-312	
						100 (4x25)	
282 Series Accessories			Appropriate marking system: WMB				
Adjacent jumper, insulated, I_N 41 A			Protective warning marker, with high-voltage symbol,				
gray	282-402	100 (4x25)	for 5 terminal blocks				
yellow-green	282-422	100 (4x25)	yellow	282-415	100 (4x25)		
Alternate jumper, insulated, I_N 41 A			Screwless end stop,				
gray	282-409	100 (4x25)	6 mm wide	249-116	100 (4x25)		
			10 mm wide	249-117	50 (2x25)		
Step-down jumper, insulated			Test plug adapter, for terminal blocks 1.5 - 10 mm²				
gray		50 (2x25)	(AWG 16 - 12), 8 mm wide	209-170	50 (2x25)		
			for test plug 4 mm Ø				
284/282 - 281/280/279	284-414	I _N 15 A	Banana plugs, only for safety extra-low voltage (42 V)				
284/282 - 282/281	284-413	I _N 30 A	black	215-311	50		
Cover plate, for step-down jumper application only, 1 mm thick,			red	215-212	50		
for 2-conductor terminal blocks			blue	215-711	50		
gray	282-357	25	Suitable for Ex i applications				
for 3-conductor terminal blocks			(Ex) Suitable for Ex e II applications				
gray	282-358	25	0.5 - 6 mm ²				
			550 V, 39 A				
			AWG 20 - 10				
			Jumper 35 A				



Test plug adapter strips are directly inserted into the jumper contact slots of the current bar (picture shows 282 Series)

Through/Ground Conductor and Ex Terminal Blocks 10 mm², Distribution Terminal Blocks 284 Series

<p>0.2 - 10 mm² 800 V/8 kV/3 I_N 57 A</p> <p>Terminal block width 10 mm / 0.394 in 12 - 13 mm / 0.49 in</p> <p>Ⓢ Approvals</p>	<p>AWG 24 - 8 600 V, 50 A </p> <p>600 V, 54 A </p>	<p>0.2 - 10 mm² 800 V/8 kV/3 I_N 57 A</p> <p>Terminal block width 10 mm / 0.394 in 12 - 13 mm / 0.49 in</p> <p>Ⓢ Approvals</p>	<p>AWG 24 - 8 600 V, 50 A </p> <p>600 V, 54 A </p>	<p>0.2 - 10 mm² ① 6 - 35 mm² ② 800 V/8 kV/3, I_N 125 A</p> <p>Terminal block width 17.5 mm / 0.689 in 12 - 14 mm / 0.51 in</p> <p>Ⓢ Approvals</p>	<p>AWG 24 - 8 ① AWG 10 - 2 ② 600 V, 115 A </p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			Distribution terminal block,		
gray	284-901	25	gray	284-681	25	with 3 x CAGE CLAMP® connection ① 10 mm ² /AWG 8		
blue	284-904	25	blue	284-684	25	and 1 x screw clamp connection ② 35 mm ² /AWG 2		
orange	284-902	25	orange	284-682	25	gray	284-621	15
light gray	284-992	25	light gray	284-993	25	blue	284-624	15
2-conductor ground terminal block			3-conductor ground terminal block					
green-yellow	284-907	25	green-yellow	284-687	25			
green-yellow	284-907/999-950	25	green-yellow	284-687/999-950	25			



Terminating a 35 mm²/AWG 2 conductor. Screw clamp connection, side-entry wiring.



Terminating a 10 mm²/AWG 8 conductor. CAGE CLAMP® connection, front-entry wiring.

Rail-mounted distribution terminal block with 35 mm²/AWG 2 and 3 x 10 mm² (3 x AWG 8) front-entry CAGE CLAMP® connection. Snaps onto DIN 35 carrier rails per EN 60715. The terminal block enclosed on both sides, an end or intermediate plate is not necessary.

In case of maximum wiring with 3 x 10 mm²/AWG 8 on the distribution side, the nominal current of 125A shall not be exceeded.

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick		End and intermediate plate, 2.5 mm thick	
	orange 284-328 100 (4x25)		orange 284-339 100 (4x25)
	gray 284-325 100 (4x25)		gray 284-308 100 (4x25)
	light gray 284-330 100 (4x25)		light gray 284-341 100 (4x25)
Separator, oversized, 2 mm thick		Separator, oversized, 2 mm thick	
	orange 284-329 100 (4x25)		orange 284-340 100 (4x25)
	gray 284-326 100 (4x25)		gray 284-309 100 (4x25)
	light gray 284-331 100 (4x25)		light gray 284-342 100 (4x25)

284 Series Accessories

Appropriate marking system: **WMB**








	Adjacent jumper , insulated, I _N 57 A gray 284-402 100 (4x25) yellow-green 284-422 100 (4x25)		Protective warning marker , with high-voltage symbol, for 5 terminal blocks yellow 284-415 50 (2x25)
	Alternate jumper , insulated, I _N 57 A gray 284-409 50 (2x25)		Finger guard , touch-proof cover protects unused conductor entries yellow 284-400 100 (4x25)
	Test plug adapter , for terminal blocks 1.5 - 10 mm ² (AWG 16-8), 8 mm wide 209-170 50 (2x25) for test plug 4 mm Ø		Step-down jumper , insulated, gray 50 (2x25)
	Test plug module and spacer module, both with spacer plate , see page 55	284/282 - 281/280/279	284-414 I _N 15 A
	Cover plate , for step-down jumper application only, 1 mm thick, for 2-conductor terminal blocks gray 284-357 25 for 3-conductor terminal blocks gray 284-358 25	284/282 - 282/281	284-413 I _N 30 A
			Suitable for Ex e II applications 0.5 - 10 mm ² AWG 20 - 8 550 V, 53 A

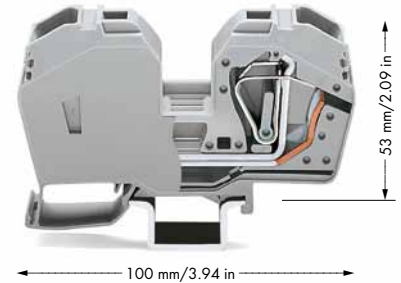
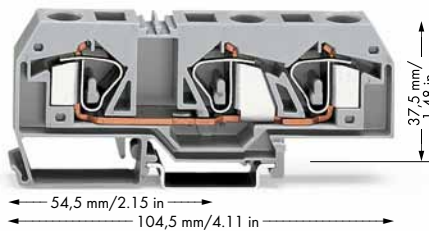
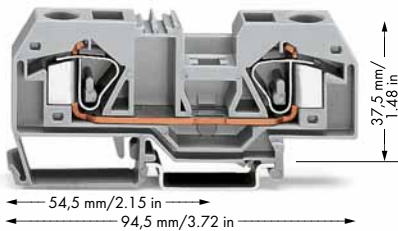
	Comb-style jumper bar , insulated, individual arrangement I _N 125 A - 2 jumpers combined in one clamping unit 100 A, 2-way gray 284-412 100 (4x25)
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





Ⓢ Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

Through/Ground Conductor and Ex Terminal Blocks 16 mm² / 35 mm² 283 and 285 Series

<p>0.2 - 16 mm² 800 V/8 kV/3 I_N 76 A</p> <p>Terminal block width 12 mm / 0.472 in 16 - 17 mm / 0.65 in</p> <p>Approvals</p>	<p>AWG 24 - 6 600 V, 65 A  600 V, 70 A </p>	<p>0.2 - 16 mm² 800 V/8 kV/3 I_N 76 A</p> <p>Terminal block width 12 mm / 0.472 in 16 - 17 mm / 0.65 in</p> <p>Approvals</p>	<p>AWG 24 - 6 600 V, 65 A  600 V, 70 A </p>	<p>6 - 35 mm² 1000 V/8 kV/3 I_N 125 A</p> <p>Terminal block width 16 mm / 0.63 in 23 mm / 0.91 in </p> <p>Approvals</p>	<p>AWG 8 - 2 600 V, 115 A  600 V, 140 A </p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			2-conductor through terminal block, with integrated end plate		
gray	283-901	20	gray	283-671	20	gray	285-635	15
blue	283-904	20	blue	283-674	20	blue	285-634	15
orange	283-902	20	orange	283-672	20	blue	285-634	15
light gray 	283-992	20	light gray 	283-998	20	light gray 	285-992	15
2-conductor ground terminal block			3-conductor ground terminal block			2-conductor ground terminal block		
green-yellow	283-907	20	green-yellow	283-677	20	green-yellow	285-637	15
green-yellow 	283-907/999-950	20	green-yellow 	283-677/999-950	20	green-yellow 	285-637/999-950	15
Notice: These terminal blocks cannot be commoned using adjacent jumpers!								



Termination of 35 mm²/AWG 2 conductor


Item-Specific Accessories

<p>End and intermediate plate, 2.5 mm thick</p> <p>orange 283-328 50 (2x25)</p> <p>gray 283-325 50 (2x25)</p> <p>light gray 283-330 50 (2x25)</p>	<p>End and intermediate plate, 2.5 mm thick</p> <p>orange 283-352 50 (2x25)</p> <p>gray 283-350 50 (2x25)</p> <p>light gray 283-354 50 (2x25)</p>
<p>Separator, oversized, 2 mm thick</p> <p>orange 283-329 50 (2x25)</p> <p>gray 283-326 50 (2x25)</p> <p>light gray 283-331 50 (2x25)</p>	<p>Separator, oversized, 2 mm thick</p> <p>orange 283-353 50 (2x25)</p> <p>gray 283-351 50 (2x25)</p> <p>light gray 283-355 50 (2x25)</p>

283 Series Accessories


<p>Adjacent jumper, insulated, I_N 70 A</p> <p>gray 283-402 50 (2x25)</p> <p>yellow-green 283-422 50 (2x25)</p>	<p>Alternate jumper, insulated, I_N 76 A</p> <p>gray 283-409 50 (2x25)</p>	<p>Test plug adapter, for terminal blocks 1.5 - 16 mm² (AWG 16-6), 11.6 mm wide</p> <p>283-404 25</p> <p>for test plug 4 mm Ø</p>	<p>Step-down jumper, insulated, I_N 32 A, 16 mm²/AWG 6 to 4 mm²/AWG 12</p> <p>gray 283-414 50 (2x25)</p>	<p>Cover plate, for step-down jumper application only, 1 mm thick, for 2-conductor terminal blocks</p> <p>gray 283-357 25</p>
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Appropriate marking system: **WMB**

<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</p> <p>yellow 283-415 50 (2x25)</p>	<p>Finger guard,</p> <p>touch-proof cover protects unused conductor entries</p> <p>yellow 283-400 100 (4x25)</p>	<p>Banana plugs, only for safety extra-low voltage (42 V)</p> <p>black 215-311 50</p> <p>red 215-212 50</p> <p>blue 215-711 50</p>	<p>Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade</p> <p>210-721 1</p>
<p> Suitable for Ex e II applications 0.5 - 16 mm² AWG 20 - 6 550 V, 68 A Jumper 63 A</p>			

285 Series

Appropriate marking systems: **Miniature WSB WMB**

<p>Adjacent jumper, insulated, I_N 85 A</p> <p>gray 285-435 50 (2x25)</p>	<p>Step-down jumper, insulated, I_N 32 A, from 35 mm²/AWG 2 to 4 mm²/AWG 12</p> <p>gray 283-414 50 (2x25)</p>	<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</p> <p>yellow 285-416 50 (2x25)</p>	<p>Finger guard,</p> <p>touch-proof cover protects unused conductor entries</p> <p>yellow 285-401 100 (4x25)</p>
<p> Suitable for Ex e II applications 6 - 35 mm² AWG 8 - 2 750 V, 120 A 6 - 25 mm² AWG 8 - 4 for ground terminal blocks</p>			

Please find the entire product range in our Full Line Catalog, Volume 1. Additional information at www.wago.com.
 16 mm (0.63 in) for 35 mm²/AWG 2 "st"

Rail-Mounted, High-Current Terminal Blocks, 285 Series

Description and Handling

Conductor entry 1



Insert Allen wrench and rotate counterclockwise. Then push in orange locking tab for hands-free wiring.

Safety notice



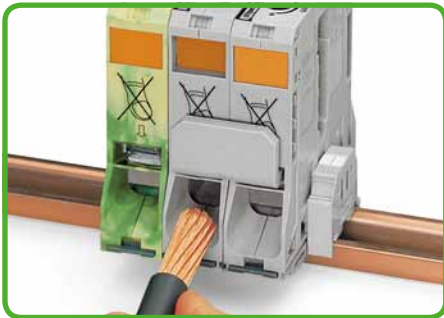
Risk of injury!
Do not insert fingers in the conductor entry!

Shock Protector



To protect unused conductor entries (separate jumper entry protector from shock protector unit).

Conductor entry 2



Insert stripped conductor (observe 35 mm of strip length) into clamping unit until it hits backstop. Hold this position.



Conductor entry 3



Unlock the locking tab with a short counterclockwise turn of the Allen wrench ①. When unlocked (click), allow Allen wrench to rotate clockwise (automatic) ② to securely terminate the conductor.

Jumpers 35 mm²/AWG 2



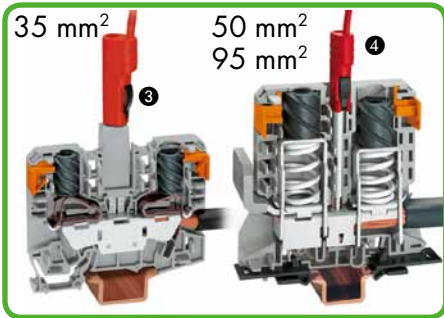
Commoning adjacent terminals with a simple push-in jumper.

Jumpers 50 mm² (AWG 2/0)/95 mm² (AWG 4/0)



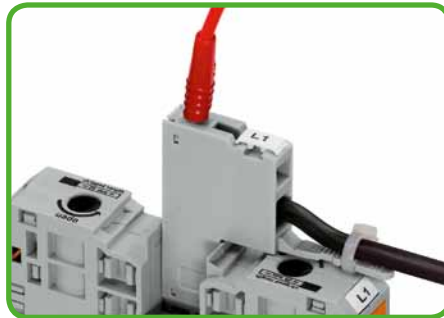
Commoning with adjacent jumper: tool-free insertion of jumper above the conductor entry hole. Rated cross section is still 50 mm²/AWG 2/0 and 95 mm²/AWG 4/0.

Testing



③ via test adapter for 4 mm Ø plugs
④ via touchproof 4 mm Ø plugs

Voltage tap 35 mm²/AWG 2



The voltage tap is inserted into the jumper contact slot. It can be fitted with a strain relief plate and provides test option for 2 mm Ø test plugs.

Voltage tap 50 mm² (AWG 2/0)/95 mm² (AWG 4/0)



Reliable and simple tap directly into the power supply. Insert the unwired tap before opening the clamping unit.

POWER CAGE CLAMP clamps the following copper conductors:



solid



stranded



fine-stranded



with ferrule

Strip length, see packaging or instructions.

High-Current, Through/Ground Conductor and Ex Terminal Blocks

35 mm², 50 mm² and 95 mm²

285 Series

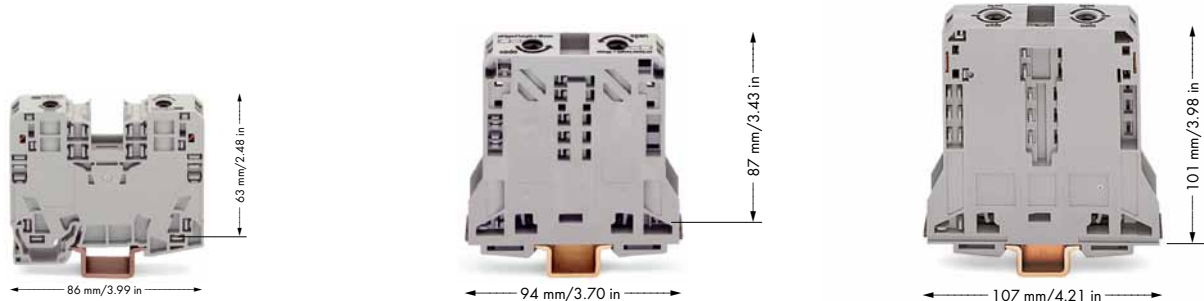
POWER CAGE CLAMP®

1

59

1

<p>6 - 35 mm² 1000 V/8 kV/3 I_N 125 A</p> <p>Terminal block width 16 mm / 0.63 in 25 mm / 0.98 in</p> <p>AWG 8 - 2 600 V, 115 A 600 V, 115 A</p> <p>Approvals</p>	<p>10 - 50 (70 "f-st") mm² 1000 V/8 kV/3 I_N 150 A</p> <p>Terminal block width 20 mm / 0.787 in 30 mm / 1.18 in</p> <p>AWG 8 - 1 600 V, 150 A 600 V, 150 A</p> <p>Approvals</p>	<p>25 - 95 mm² 1000 V/8 kV/3 I_N 232 A</p> <p>Terminal block width 25 mm / 0.98 in 35 mm / 1.38 in</p> <p>AWG 4 - 4/0 600 V, 200 A 600 V, 210 A</p> <p>Approvals</p>
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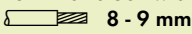
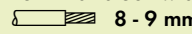
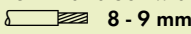
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			2-conductor through terminal block			2-conductor through terminal block		
gray	285-135	15	gray	285-150	5	gray	285-195	5
blue	285-134	15	blue	285-154	5	blue	285-194	5
						light gray (Ex)	285-995	5
2-conductor ground terminal block, only for DIN 35 x 15 rails; 2.3 mm thick, copper			2-conductor ground terminal block, only for DIN 35 x 15 rails; 2.3 mm thick, copper			2-conductor ground terminal block, only for DIN 35 x 15 rails; 2.3 mm thick, copper		
green-yellow	285-137	15	green-yellow	285-157	5	green-yellow	285-197	5
						green-yellow (Ex)	285-197/999-950	5
285 Series Accessories			Appropriate marking system: WMB					
Adjacent jumper, insulated, ⑥			Adjacent jumper, insulated, ⑥			Adjacent jumper, insulated, ⑥		
	gray	285-435 50 (2x25)		gray	285-450 25		gray	285-495 25
		I _N 85 A			I _N 150 A for 1 jumper I _N 130 A for 2 to 4 jumpers			I _N 232 A for 1 jumper I _N 130 A for 2 to 4 jumpers
Voltage Tap, I_N 32 A, 0.2-6 mm² (24-10), ⑥			Voltage Tap, I_N 41 A, 0.2-6 mm² (24-10), ⑥			Voltage Tap, I_N 57 A, 0.2-10 mm² (24-80)/16 mm² (AWG 6), ⑥		
		module width 8 mm / 0.315 in gray 285-427 5			module width 16 mm / 0.63 in gray 285-447 5			module width 20 mm / 0.787 in gray 285-407 5
Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade			Allen wrench with partially insulated shaft			Allen wrench with partially insulated shaft		
		210-721 1		8 mm	285-172 1		8 mm	285-172 1
Protective warning marker, with high-voltage symbol, black			Protective warning marker, with high-voltage symbol, black			Protective warning marker, with high-voltage symbol, black		
	yellow	285-420 50 (2x25)		yellow	285-440 50 (2x25)		yellow	285-170 50 (2x25)
Finger guard, touch-proof cover protects unused conductor entries			Finger guard, touchproof cover protects unused conductor entries and jumper slots			Finger guard, touchproof cover protects unused conductor entries and jumper slots		
	yellow	285-421 100 (4x25)		yellow	285-441 100 (4x25)		yellow	285-169 25
Test plug adapter, 11.6 mm wide, for test plug 4 mm Ø								
		283-404 25						
Test plug, 4 mm Ø, protected against accidental contact; e.g., available through Multi-Contact Deutschland GmbH			Test plug, 4 mm Ø, protected against accidental contact; e.g., available through Multi-Contact Deutschland GmbH			Test plug, 4 mm Ø, protected against accidental contact; e.g., available through Multi-Contact Deutschland GmbH		
		Postfach 1606, 79551 Weil am Rhein, Hegenheimerstraße 19 79576 Weil am Rhein			Postfach 1606, 79551 Weil am Rhein, Hegenheimerstraße 19 79576 Weil am Rhein			Postfach 1606, 79551 Weil am Rhein, Hegenheimerstraße 19 79576 Weil am Rhein
Copper carrier rail, as per EN 60715, 35 x 15 mm, 2.3 mm thick, 2 m long			Copper carrier rail, as per EN 60715, 35 x 15 mm, 2.3 mm thick, 2 m long			Copper carrier rail, as per EN 60715, 35 x 15 mm, 2.3 mm thick, 2 m long		
	unslotted	210-198 10		unslotted	210-198 10		unslotted	210-198 10
Marking strip, plain, 11 mm wide, 50m roll			WMB Multi marking system, 10 strips with 10 markers per card, stretchable 5 - 5.2 mm			(Ex) Suitable for Ex e II applications 25 - 95 mm² 750 V, 195 A		
	white	2009-110 1		plain	793-5501 5	AWG 4 - 4/0		
						35 - 70 mm ² for ground terminal blocks		
						AWG 2 - 2/0		

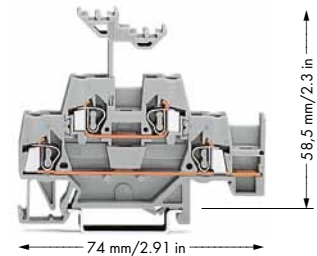
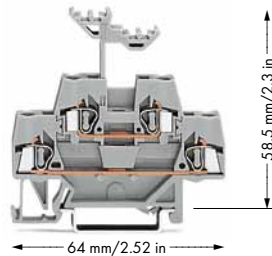
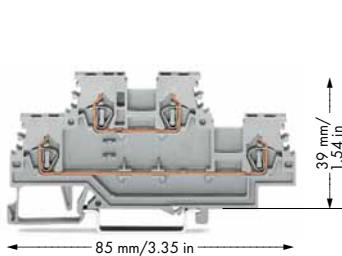
⑤ Approvals are available online at: www.wago.com.









For technical explanations and abbreviations, see technical section.

⑥ Adjacent jumpers and voltage taps can only be removed or inserted when the clamp is in closed position.

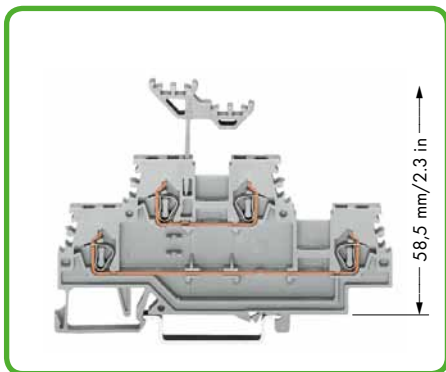
Double-Deck Terminal Blocks 1.5 mm² and 2.5 mm² 279 and 280 Series

0.08 - 1.5 mm² AWG 28 - 16 500 V/6 kV/3 I _N 18 A Terminal block width 4 mm / 0.157 in  8 - 9 mm / 0.33 in ① Approvals	0.08 - 2.5 mm² AWG 28 - 12* 500 V/6 kV/3 I _N 20 A Terminal block width 5 mm / 0.197 in  8 - 9 mm / 0.33 in ① Approvals	0.08 - 2.5 mm² AWG 28 - 12* 500 V/6 kV/3 I _N 20 A Terminal block width 5 mm / 0.197 in  8 - 9 mm / 0.33 in ① Approvals
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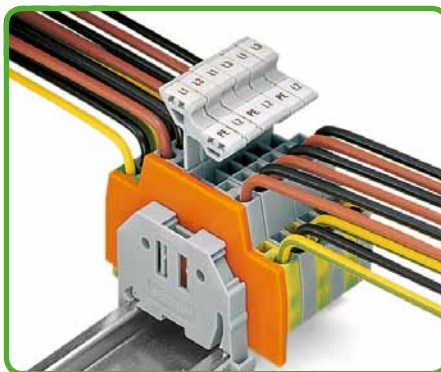


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Through/through terminal block, colored conductor entry position			Through/through terminal block			Through/through terminal block with horizontal jumpering on lower level		
● gray	279-501	50	● gray	280-519	50	● gray	280-520	50
● gray (N/L)	279-512	50	● blue	280-529	50	● blue	280-530	50
● gray (L/N)	279-513	50	● blue/gray	280-523	50	● blue/gray	280-524	50
● blue (N/N)	279-504	50	● gray/blue	280-533	50	● gray/blue	280-534	50
4-conductor through terminal block, internal commoning, conductor entry position colored in violet			Ground conductor/through terminal block					
● blue	279-509	50	● green-yellow/gray	280-527	50			
● gray	279-508	50	● green-yellow/blue	280-537	50			
Ground conductor/through terminal block, colored conductor entry position			4-conductor ground terminal block, internal commoning					
● gray (PE/N)	279-517	50	● green-yellow	280-517	50			
● gray (PE/L)	279-527	50	Other terminal blocks with the same profile:			Other terminal blocks with the same profile:		
4-conductor ground terminal block, internal commoning			Diode	280-940/281-410	Volume 1	Through/Disconnect	280-522	Volume 1
● green-yellow	279-507	50	LED	280-943/281-434	Volume 1	Fuse	280-5xx	Volume 1
End and intermediate plate, 2 mm thick			End and intermediate plate, 2.5 mm thick			End and intermediate plate, 2.5 mm thick		
	orange	279-519 100 (4x25)		orange	280-341 100 (4x25)		orange	280-343 100 (4x25)
	gray	279-518 100 (4x25)		gray	280-340 100 (4x25)		gray	280-342 100 (4x25)
Accessories, 279 Series	Appropriate marking system:	WMB	280 Series Accessories			Appropriate marking system: WMB		
WSB double-deck marker carrier		279-529 50 (2x25)	● Suitable for Ex i applications			Vertical jumper, insulated, I_N 24 A		
For additional accessories, see page 51.						 gray 281-421 200 (8x25)		
						For additional accessories, see page 52.		

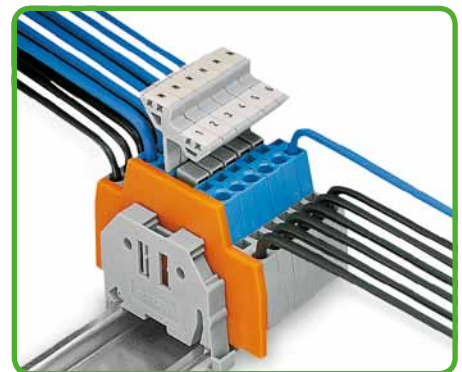
Application Notes:



279 Series double-deck terminal block with plugged double-deck marker carrier.



Double-deck terminal blocks used for connecting a three-phase motor.



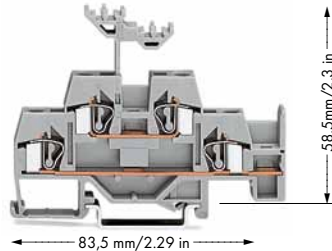
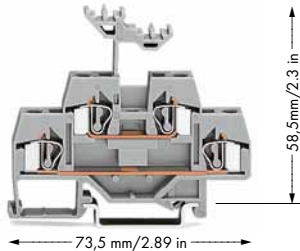
Double-deck terminal blocks used as control wire terminals; e.g., for magnetic valves. Upper deck commoned.

① Approvals are available online at: www.wago.com.
* AWG 12: THHN, THWN

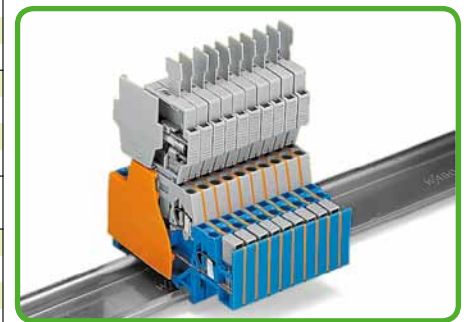
For technical explanations and abbreviations, see technical section.

Double-Deck Terminal Blocks 4 mm² 281 Series

<p>0.08 - 4 mm² 500 V/6 kV/3 I_N 26 A</p> <p>Terminal block width 6 mm / 0.236 in 9 - 10 mm / 0.37 in</p> <p>Approvals</p>	<p>AWG 28 - 12 600 V, 20 A 600 V, 10 A</p>	<p>0.08 - 4 mm² 500 V/6 kV/3 I_N 26 A</p> <p>Terminal block width 6 mm / 0.236 in 9 - 10 mm / 0.37 in</p> <p>Approvals</p>	<p>AWG 28 - 12 600 V, 20 A 600 V, 10 A</p>	<p>Application Notes:</p>
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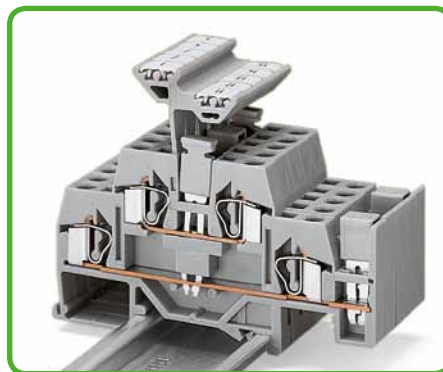
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Through/through terminal block			Through/through terminal block with horizontal jumpering on lower level		
gray	281-619	50	gray	281-620	50
blue	281-629	50	blue	281-630	50
Other terminal blocks with the same profile:					
Diode	281-634/281-434	Volume 1			
LED	281-634/281-434	Volume 1			
End and intermediate plate, 2.5 mm thick			End and intermediate plate, 2.5 mm thick		
orange	281-341	100 (4x25)	orange	281-343	100 (4x25)
gray	281-340	100 (4x25)	gray	281-342	100 (4x25)
281 Series Accessories		Appropriate marking system: WMB			
Vertical jumper, insulated, I_N 24 A		Operating tool with partially insulated shaft,			
gray	281-421	200 (8x25)	type 2, (3.5 x 0.5) mm blade		
		210-720 1			
For additional accessories, see page 54.					
Application Notes:					



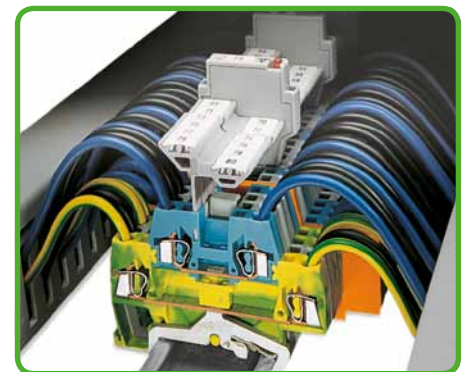
Double-deck terminal block assembly with fuse plugs.



Conductor termination







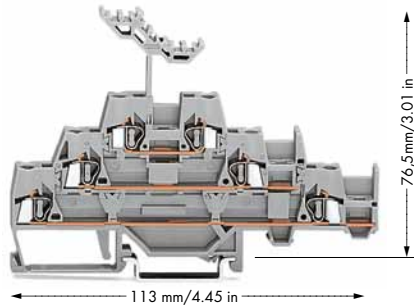
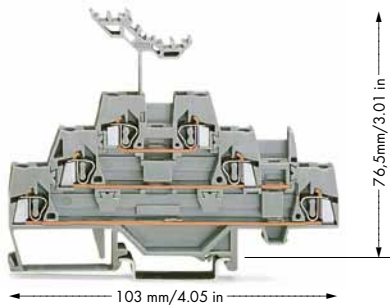
Commoning with vertical and adjacent jumpers.











Example of a mixed assembly with double-deck terminal blocks.

Triple-Deck Terminal Blocks 2.5 mm² 280 Series




<p>0.08 - 2.5 mm² 500 V/6 kV/3 I_N 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in</p> <p>① Approvals</p>	<p>AWG 28 - 12* 300 V, 15 A  300 V, 20 A </p>	<p>0.08 - 2.5 mm² 500 V/6 kV/3 I_N 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in</p> <p>① Approvals</p>	<p>AWG 28 - 12* 300 V, 15 A  300 V, 20 A </p>
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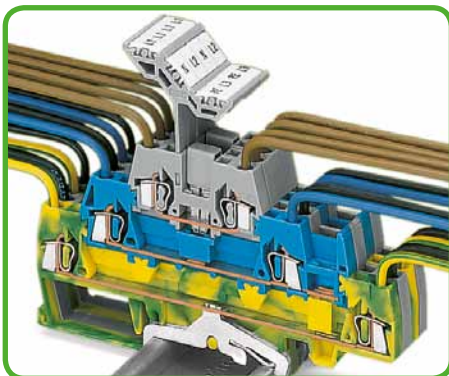
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Through/through/through terminal block			Through/through/through terminal block with horizontal jumpering on lower level		
	280-549	40		280-550	40
	280-551	40			
gray/gray/blue	280-552	40			
Ground conductor/through/through terminal block					
green-yellow/blue/gray	280-547	40			
green-yellow/gray/gray	280-557	40			
6-conductor ground terminal block, internal commoning					
	280-597	40			
Other terminal blocks with the same profile:					
Fuse	280-5xx	Volume 1			
End and intermediate plate, 2.5 mm thick			End and intermediate plate, 2.5 mm thick		
	orange 280-304	50 (2x25)		orange 280-306	100 (4x25)
	gray 280-303	50 (2x25)		gray 280-305	100 (4x25)
Intermediate plate, 1.1 mm thick			Intermediate plate, 1.1 mm thick		
	orange 280-336	100 (4x25)		orange 280-339	100 (4x25)

280 Series Accessories

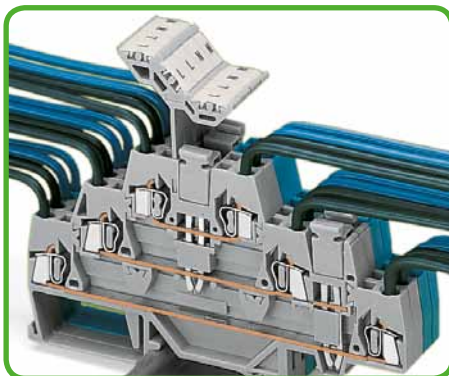
Appropriate marking system: **WMB**

<p>Vertical jumper, insulated, I_N 24 A</p> <p> gray 281-421 200 (8x25)</p> <p>For additional accessories, see page 52.</p>	<p> Suitable for Ex i applications</p>	<p>Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade</p> <p> 210-720 1</p>
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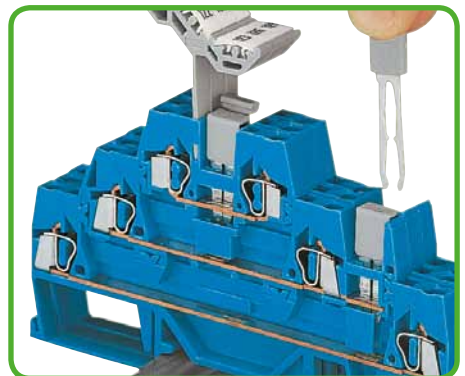
Application Notes:



3-conductor power circuit with additional branch circuit tapping.



Commoning with vertical and adjacent jumpers.



Commoning with vertical and adjacent jumpers.

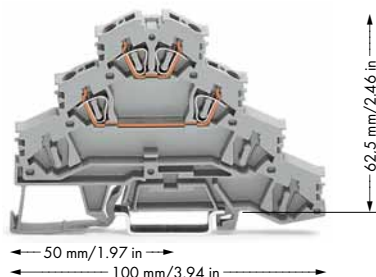
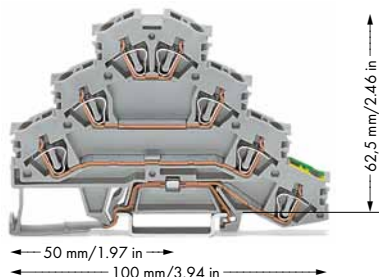
① Approvals are available online at: www.wago.com.
* AWG 12: THHN, THWN

For technical explanations and abbreviations, see technical section.

Quadruple-Deck, Rail-Mounted Terminal Blocks or Rail-Mounted Terminal Blocks for Electric Motor Wiring, 4 mm² 281 Series

CAGE CLAMP®

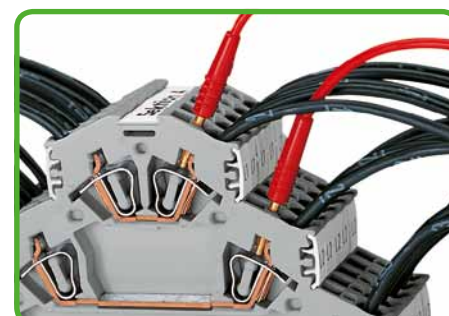
<p>0.08 - 4 mm² 400 V/6 kV/3 I_N 20 A (2.5 mm²) I_N 25 A (4 mm²) Terminal block width 6 mm / 0.236 in 8 - 9 mm / 0.33 in Approvals</p>	<p>AWG 28 - 12 600 V, 20 A 300 V, 25 A </p>	<p>0.08 - 4 mm² 400 V/6 kV/3 I_N 20 A (2.5 mm²) I_N 25 A (4 mm²) Terminal block width 6 mm / 0.236 in 8 - 9 mm / 0.33 in Approvals</p>	<p>AWG 28 - 12 600 V, 20 A 300 V, 25 A </p>	<p>Application Notes:</p>
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Commoning



Compact design: Three phases and one ground conductor in a single terminal block.

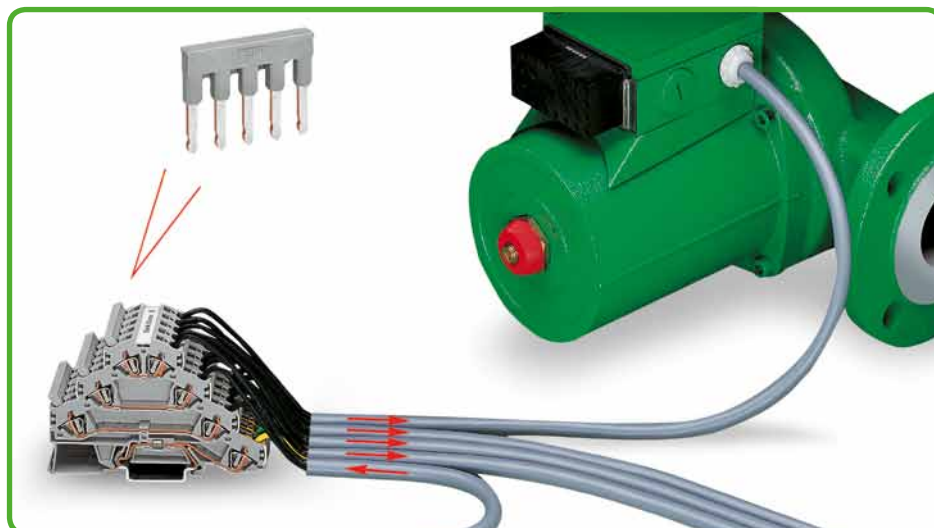


Testing with test plug 2 mm Ø.



Marking clamping units with WMB Multi markers (see Section 6)
Group marking using marker strips Item No. 709-177.

Item No.	Pack. Unit	Item No.	Pack. Unit
Rail-mounted terminal block for electric motor wiring, gray		Rail-mounted terminal block for electric motor wiring, gray	
L1 - L2 - L3 - PE 281-530	50	L1 - L2 281-531	50
		L1 - L2 - L3 281-532	50
End and intermediate plate, 1 mm thick		End and intermediate plate, 1 mm thick	
orange 281-366	100 (4x25)	orange 281-366	100 (4x25)
		gray 281-365	100 (4x25)
281 Series Accessories	Appropriate marking system: WMB		
Comb-style jumper bar, insulated, I_N = I_N terminal block		Insulation stop, 5 pcs/strip	200 strips
2-way 281-482	100 (4x25)	white 281-470	0.08-0.2 mm ² (AWG 28-24)
		light gray 281-471	0.25-0.5 mm ² (AWG 12-20)
		dark gray 281-472	0.75-1.5 mm ² (AWG 18-16)
Operating tool, insulated		Test plug, with 500 mm cable	
2-way 280-432	1	2 mm Ø 210-136	50 (5x10)
		2.3 mm Ø 210-137	50 (5x10)
Operating tool with partially insulated shaft,		Marking strip, plain,	
type 2, (3.5 x 0.5) mm blade		7.5 mm wide,	
210-720	1	50m roll	
		translucent 709-177	1
Screwless end stop, for DIN 35 rail			
6 mm wide 249-116	100 (4x25)		



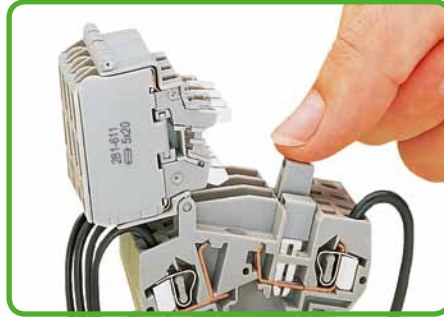
Fuse Disconnect Terminal Blocks, Fuse Plugs, Disconnect/Test Terminal Blocks . . . 280 to 282 Series

Fuse disconnect terminal blocks



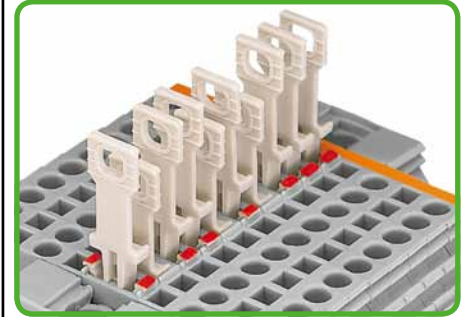
Blown fuse indication by LED or neon lamp.

Commoning



Distribution of current to several fuse-protected circuits via insulated touchproof jumpers.

Disconnect terminal blocks with disconnect tab



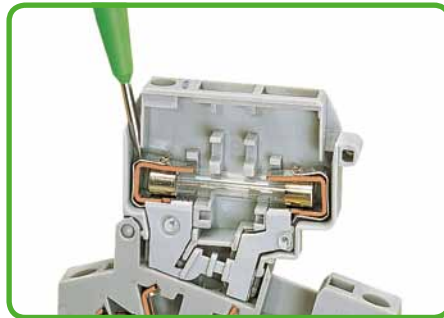
Disconnecting by pulling the disconnecting tab (red = disconnected).

Fuse replacement 1



Before replacing the fuse, pivot the fuse holder in the locked open position.

Testing



Voltage test, either at input or output with fuse holder in closed position (live).

Commoning



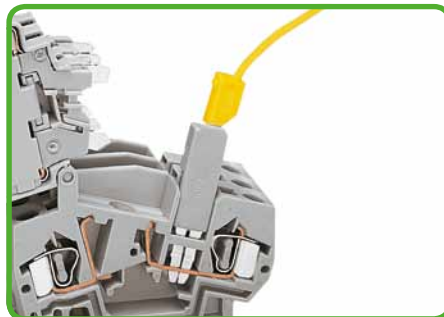
Commoning using comb-style jumper bars.

Fuse replacement 2



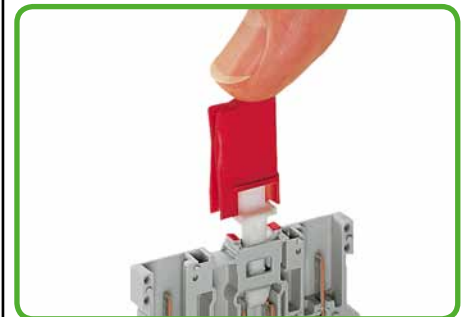
One end of the fuse is automatically ejected from the holder when opening the cover.

Testing



Voltage testing at input via 280-404 test plug adapter (shown) or 281-407 test plug.

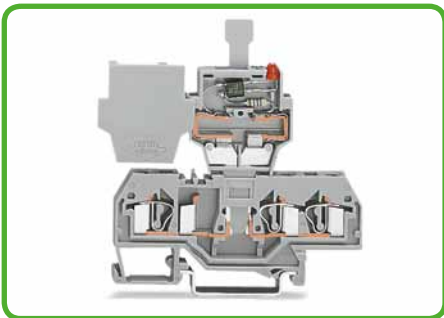
Disconnect lock



As soon as the disconnecting tab is in the disconnect position, it can be protected against unintentional reconnection by using the disconnect lock.

More fuse terminal blocks

Fuse plug



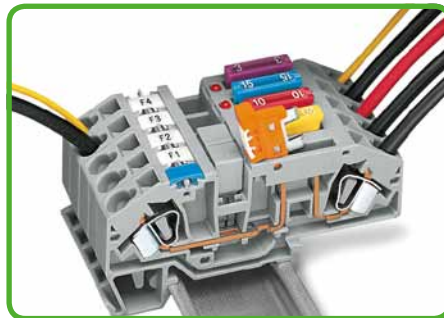
Fuse plug with blown fuse indication on a 3-conductor carrier terminal block.

CAGE CLAMP®
clamps the following
copper conductors:*



solid

Fuse terminal blocks for mini-automotive fuses



Fuse terminal block for mini-automotive blade-style fuses



stranded

More disconnect terminal blocks

Double-deck terminal blocks



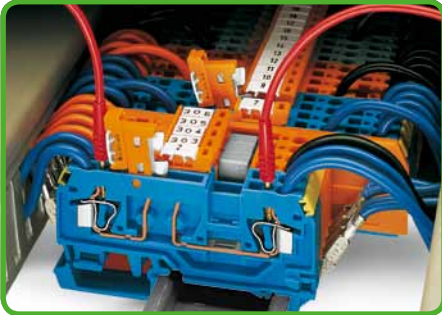
Pulling the disconnect tab on a through/disconnect terminal block.



fine-stranded,
also with tinned
single strands

Strip length, see packaging or instructions.

Disconnect terminal blocks with knife disconnect



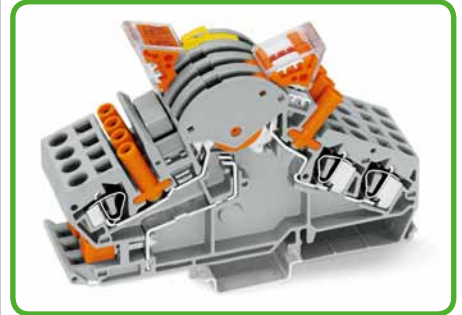
Disconnecting by knife disconnect. Test slot for 2 mm or 2.3 mm Ø test plugs - direct contact to the current bar.

Longitudinal switching disconnect terminal blocks



Disconnecting by disconnect link. 4 mm Ø test slots are integrated.

Disconnect/test terminal blocks



Example: current or voltage transformer circuits

Staggered jumpers



Staggered jumpers for sophisticated circuit requirements. Push jumper down until fully inserted!

Commoning



Longitudinal switching disconnect terminal blocks with jumpers
1 commoned and 2 isolated



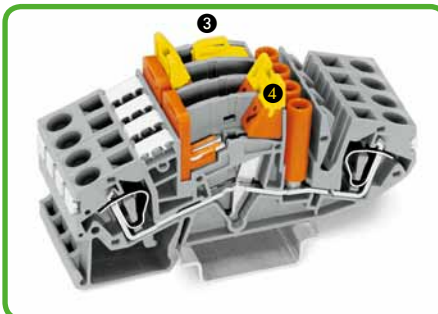
Terminal strip permanently prepared for current transformer circuits with short circuit jumpers 5

Power supply



Power distribution using disconnect link in supply line. Disconnection of all outputs.

Transverse switching terminal blocks



For current transformer circuits with
3 lockout and
4 coupling device.

Locking cover and lock-out seal



6 Transparent locking cover (for 1- 4 disconnect links) can be snapped on for mechanical interlocking for multipole switching.
7 A lock-out seal can be used on the disconnect link in notched position "I".

Disconnect terminal blocks 6 mm²/AWG 10

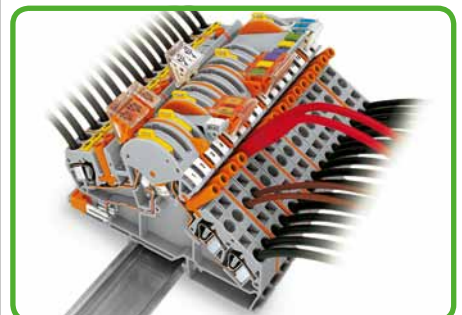


Testing a 6mm²/AWG 10 disconnect terminal block.

Switch positions



closed open



Transformer terminal strip (e.g., for meter boards or substations of the power supply industry).



fine-stranded, tip-bonded







fine-stranded with ferrule 8 (gastight crimped)



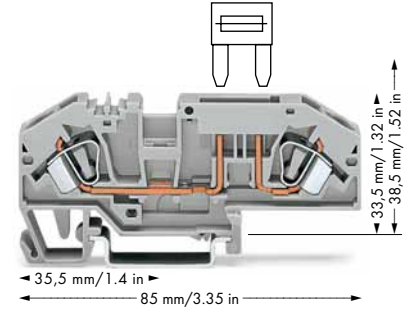
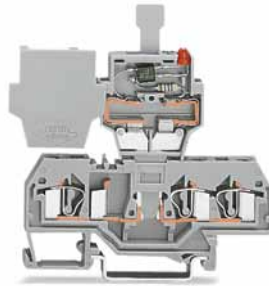
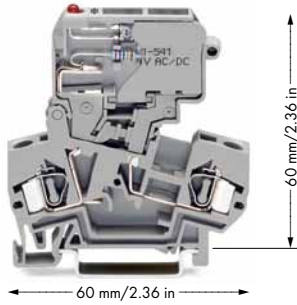
fine-stranded, with pin terminal (gastight crimped)


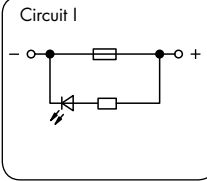
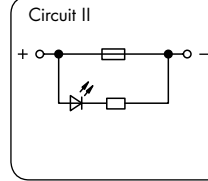
8 With ferruled conductors, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

Fuse Disconnect Terminal Blocks and Fuse Plugs 281 and 282 Series

<p>0.08 - 4 mm² ① 800 V/8 kV/3 ① I_N 10 A max. Terminal block 8 mm / 0.315 in Terminal block width 10 mm / 0.394 in  9 - 10 mm / 0.37 in ③ Approvals</p>	<p>AWG 28 - 12 600 V, 10 A  600 V, 15 A </p> <p>① 250 V max. ① I_N 6.3 A max. Plug width 6 mm / 0.236 in ③ Approvals</p>	<p>0.2 - 6 mm² ① 400 V/6 kV/3 ① I_N 30 A Terminal block width 8 mm / 0.315 in  12 - 13 mm / 0.49 in ③ Approvals</p>	<p>AWG 24 - 10</p>
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① Nominal voltage and current are given by the fuse or blown fuse indicator!















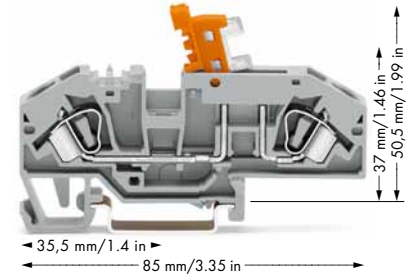
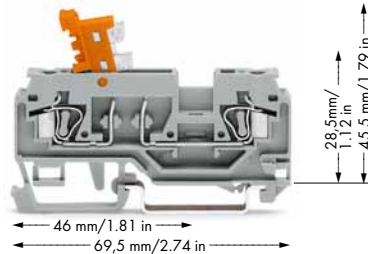
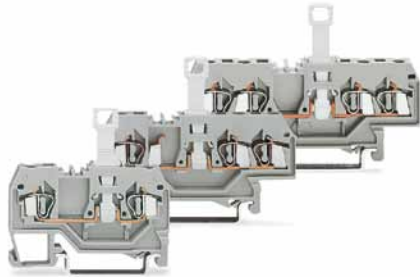
Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Fuse disconnect terminal block, gray for miniature metric fuses		Fuse plug, 6 mm wide, with pull-tab, for miniature metric fuses 5 x 20 mm and 5 x 25 mm, without blown fuse indication		2-conductor fuse terminal block for mini-automotive blade-style fuses, with test point, gray, without blown fuse indication	
① 5 x 20 mm 281-611	50	① 281-511	50	① 282-696	25
② 5 x 20 mm 281-611/281-541 ①	50				
③ 5 x 20 mm 281-611/281-417 ②	50				
④ 5 x 25 mm 281-612	50	with LED		with blown fuse indication by LED, 12 V	
⑤ 5 x 25 mm 281-612/281-541 ①	50	① 24 V AC/DC 281-512/281-501	50	① Circuit I 282-698/281-429	25
⑥ 5 x 25 mm 281-612/281-417 ②	50			② Circuit II 282-698/281-449	25
⑦ 5 x 30 mm 281-622	50	with neon lamp		with blown fuse indication by LED, 24 V	
⑧ 281-622/281-541 ①	50	① 120 V AC/DC 281-512/281-418	50	① Circuit I 282-698/281-413	25
⑨ 281-622/281-417 ②	50	② 230 V AC/DC 281-512/281-417	50	② Circuit II 282-698/281-434	25
Terminal block width 10 mm/0.394 in		Carrier blocks, 0.08-4 mm²,  9-10 mm/0.33 in		3-conductor through terminal block with same profile, with test point	
① 0.25" x 1" 281-613	50	2-conductor 281-916	100 (4x25)	① gray 282-699	25
② 0.25" x 1" 281-613/281-541 ①	50	3-conductor 281-610	100 (4x25)	② blue 282-694	25
③ 0.25" x 1" 281-613/281-417 ②	50	4-conductor 281-656	100 (4x25)		
④ 0.25" x 1.25" 281-623	50	End plate, 2.5 mm thick,		 	
⑤ 0.25" x 1.25" 281-623/281-541 ①	50	for 2-cond. carrier terminal block		End and intermediate plate, 2 mm thick	
⑥ 0.25" x 1.25" 281-623/281-417 ②	50	orange 281-329 100 (4x25)		orange 282-333 100 (4 x 25)	
with blown fuse indication by:		gray 281-328 100 (4x25)		gray 282-334 100 (4 x 25)	
① LED 15-30 V ≈		for 3-cond. carrier terminal block			
② Neon lamp 230 V ≈		orange 281-326 100 (4x25)			
Other voltages upon request.		gray 281-324 100 (4x25)			
End and intermediate plate, 2.5 mm thick		for 4-cond. carrier terminal block			
orange 281-309	100 (4x25)	orange 281-335 100 (4x25)			
gray 281-311	100 (4x25)	gray 281-334 100 (4x25)			
Accessories, 281 Series Appropriate marking system: WMB		Accessories, 281 Series Appropriate marking system: WSB 4 mm wide		Accessories, 282 Series Appropriate marking system: WMB	
Adjacent jumper, insulated, I_N 32 A		Comb-style jumper bar, insulated, I_N 32 A		Adjacent jumper, insulated, I_N 41 A	
gray 281-402	200 (8x25)	2-way 281-482	100 (4x25)	gray 282-402	100 (4x25)
		3-way 281-483	100 (4x25)		
		10-way 281-490	50 (2x25)		
Interlocking link, 1 m long, mechanically locks several fuse holders transparent 210-254 1		Alternate comb-style jumper bar, insulated, I_N 32 A		Alternate jumper, insulated, I_N 41 A	
		2-way 281-492	100 (4x25)	gray 282-409	100 (4x25)
Test plug adapter, for terminal blocks 1.5-4 mm² (AWG 16-12), 5 mm wide 280-404 100 (4x25) for test plug 2.3 mm Ø		Operating tool, insulated		Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade 210-720 1	
		2-way 280-432	1		
		3-way 280-433	1		
		5-way 281-440	1		
Test plug, 6 mm wide, with CAGE CLAMP® for 0.08-2.5 mm ² (AWG 28-14) I _N 24 A 281-407 100 (4x25) for 4 mm Ø test plug		Shorting link, 5 x 20 mm, 6.3 A, if the fuse plug is used as disconnect plug 281-503 250 (10x25)		Type 3, (5.5 x 0.8) mm blade 210-721 1	

③ Approvals are available online at: www.wago.com.





For technical explanations and abbreviations, see technical section.

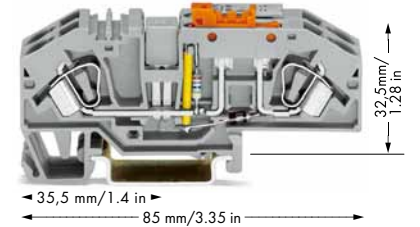
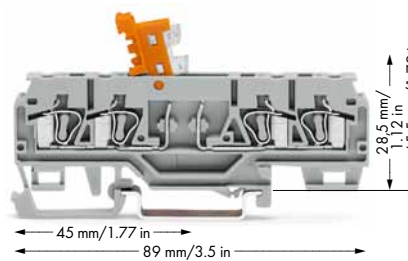
Disconnect Terminal Blocks 280 / 281 / 282 Series


<p>0.08 - 2.5 mm² AWG 28 - 12* 400 V/8 kV/3 300 V, 15 A  I_N 10 A 300 V, 15 A </p> <p>Terminal block width 5 mm / 0.197 in  8 - 9 mm / 0.33 in</p> <p> Approvals</p>	<p>0.08 - 2.5 mm² AWG 28 - 12* 400 V/6 kV/3 600 V, 15 A  I_N 16 A 300 V, 15 A </p> <p>Terminal block width 5 mm / 0.197 in  8 - 9 mm / 0.33 in</p> <p> Approvals</p>	<p>0.2 - 6 mm² AWG 24 - 10 400 V/6 kV/3 600 V, 30 A  I_N 30 A 300 V, 36 A </p> <p>Terminal block width 8 mm / 0.315 in  12 - 13 mm / 0.49 in</p> <p> Approvals</p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	
Disconnect terminal blocks, 280 Series			2-conductor disconnect/test terminal block,			2-conductor disconnect terminal block,			
2-conductor disconnect terminal block			with movable knife disconnect,			with test point,			
with test slots for 2 mm and			with test slots for 2 mm and			same profile as fuse terminal blocks			
2.3 mm Ø test plugs			2.3 mm Ø test plugs			2.3 mm Ø test plugs			
● gray	280-912	50	Housing	Knife disconnect		● gray	282-697	25	
● blue	280-914	50	● gray	orange	280-870	100	● blue	282-695	25
● orange	280-913	50	● gray	gray	280-868	100	3-conductor through terminal block with same profile, with test point		
3-conductor disconnect terminal block			● blue	orange	280-876	100	● gray	282-699	25
● gray	280-683	50	● orange	orange	280-879	100	● blue	282-694	25
4-conductor disconnect terminal block									
● gray	280-836	50							
● blue	280-839	50							
● orange	280-805	50							


<p>0.08 - 4 mm² AWG 28 - 12 400 V/8 kV/3 300 V, 15 A  I_N 10 A 300 V, 15 A </p> <p>Terminal block width 6 mm / 0.236 in  9 - 10 mm / 0.37 in</p> <p> Approvals</p>



Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Voltage	Item No.	Pack. Unit		
Disconnect terminal blocks, 281 Series			4-conductor disconnect/test terminal block			Ground conductor disconnect terminal block, gray 			
gray			Housing			Terminal block width 16 mm / 0.63 in			
● 2-conductor	281-912	50	● gray	orange	280-874	50	● 24 V AC/DC	282-640	12
● 3-conductor	281-683	50	● gray	gray	280-881	50	● 48 V AC/DC	282-641	12
● 4-conductor	281-659	50	● blue	orange	280-885	50	● 120 V AC/DC	282-638	12
			● orange	orange	280-883	50	● 230 V AC/DC	282-639	12
Accessories, 280/281 Series Appropriate marking system: WMB			Accessories, 280 Series Appropriate marking system: WMB			Accessories, 282 Series Appropriate marking system: WMB			
End plate			End plate, 2.5 mm thick			End plate, 2 mm thick			
280 Series 281 Series			for 2-conductor terminal blocks			orange 282-333 100 (4x25)			
for 2-cond. blocks			orange 280-371 100 (4x25)			gray 282-334 100 (4x25)			
orange 280-309 281-329			gray 280-374 100 (4x25)						
gray 280-308 281-328			for 4-conductor terminal blocks			Adjacent jumper, insulated, I_N 41 A			
for 3-cond. blocks			orange 280-373 100 (4x25)			gray 282-402 100 (4x25)			
orange 280-326 281-326			gray 280-376 100 (4x25)						
gray 280-324 281-324						Alternate jumper, insulated, I_N 41 A			
for 4-cond. blocks						gray 282-409 100 (4x25)			
orange 280-315 281-335									
gray 280-314 281-334									
Test sockets, insulated,			Operating tool with partially insulated shaft,						
2 mm Ø			type 2, (3.5 x 0.5) mm blade						
red 209-107 100 (2 x 50)			210-720 1						
2.3 mm Ø			Type 3, (5.5 x 0.8) mm blade						
yellow 209-108 100 (2 x 50)			210-721 1						

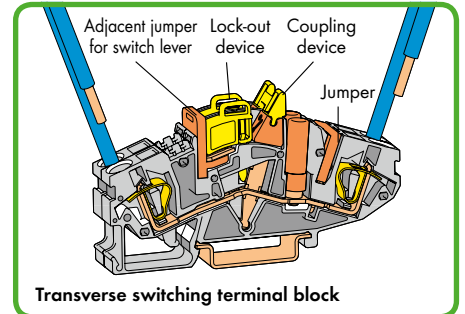
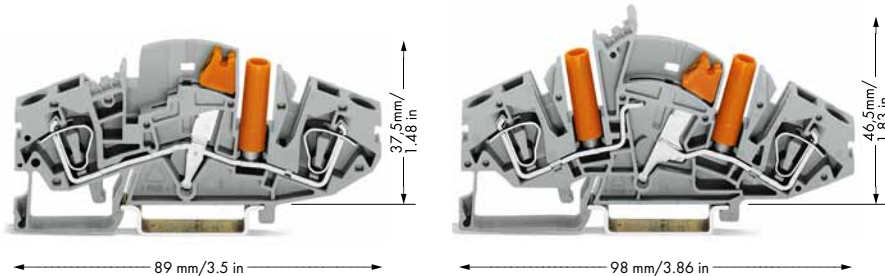
Please find the entire product range in our Full Line Catalog, Volume 1. Additional information at www.wago.com.

* AWG 12: THHN, THWN

 For application notes, see page 83.

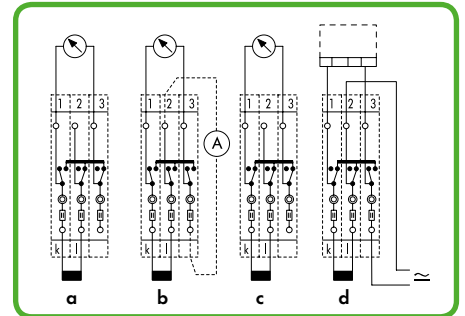
Transverse Switching Terminal Blocks and Longitudinal Switching Disconnect Terminal Blocks 282 Series

<p>0.2 - 6 mm² 500 V/6 kV/3 I_N 30 A</p> <p>Terminal block width 8 mm / 0.315 in 12 - 13 mm / 0.49 in</p> <p>Approvals</p>	<p>AWG 24 - 10 600 V, 30 A</p>	<p>0.2 - 6 mm² 500 V/6 kV/3 I_N 30 A</p> <p>Terminal block width 8 mm / 0.315 in 12 - 13 mm / 0.49 in</p> <p>Approvals</p>	<p>AWG 24 - 10 600 V, 30 A</p>	<p>Application Notes:</p>
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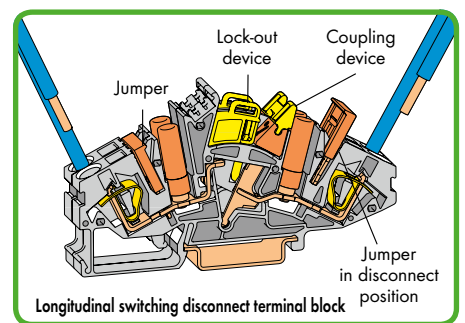


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<p>Transverse switching terminal block, 2-conductor, with touch-proof test socket (orange), 4 mm Ø</p> <p>gray 282-811 20</p>			<p>Longitudinal switching disconnect terminal block, 2-conductor, with touch-proof test sockets (orange), 4 mm Ø</p> <p>gray 282-821 20</p>		
<p>End and separator plate, 1.5 mm thick</p> <p>orange 282-366 50 (2x25)</p> <p>gray 282-361 50 (2x25)</p>			<p>End and separator plate, 1.5 mm thick</p> <p>orange 282-365 50 (2x25)</p> <p>gray 282-360 50 (2x25)</p>		
<p>Accessories, 282 Series</p>			<p>Appropriate marking systems: WMB/Mini-WSB</p>		
<p>Lock-out device, for switch lever</p> <p>yellow 282-370 100 (4x25)</p>			<p>Lock-out device, for switch lever</p> <p>yellow 282-370 100 (4x25)</p>		
<p>Coupling device, yellow, for simultaneous operation of several switch levers</p> <p>2-way 282-372 50 (5x10)</p> <p>3-way 282-373 50 (5x10)</p> <p>4-way 282-374 50 (5x10)</p>			<p>Coupling device, yellow, for simultaneous operation of several switch levers</p> <p>2-way 282-372 50 (5x10)</p> <p>3-way 282-373 50 (5x10)</p> <p>4-way 282-374 50 (5x10)</p>		
<p>Jumper, insulated, I_N 30 A, orange</p> <p>2-way 282-432 50 (5x10)</p> <p>3-way 282-433 50 (5x10)</p> <p>10-way 282-440 50 (5x10)</p> <p>Special version upon request (e.g., 1-3-5)</p>			<p>Jumper, insulated, I_N 30 A, orange</p> <p>2-way 282-432 50 (5x10)</p> <p>3-way 282-433 50 (5x10)</p> <p>10-way 282-440 50 (5x10)</p> <p>Special version upon request (e.g., 1-3-5)</p>		
<p>Adjacent jumper for switch lever, insulated, I_N 30 A,</p> <p>2-way 282-442 50 (5x10)</p> <p>3-way 282-443 50 (5x10)</p> <p>4-way 282-444 50 (5x10)</p>			<p>Collective carrier for jumpers,</p> <p>282-369 25</p>		
<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</p> <p>yellow 282-415 100 (4x25)</p>			<p>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</p> <p>yellow 282-415 100 (4x25)</p>		
<p>Banana plugs, only for safety extra-low voltage (42 V)</p> <p>black 215-311 50</p> <p>red 215-212 50</p> <p>blue 215-711 50</p>			<p>Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade</p> <p>210-721 1</p>		
<p>For more colors and technical data, see page 193.</p>					
<p>Stickers for operating instructions</p> <p>210-424 100</p>			<p>Stickers for operating instructions</p> <p>210-423 100</p>		
<p>WMB Multi marking system, 10 strips with 10 markers,</p> <p>with printing blue U/V (50 each) 794-5554/000-006 1 card</p> <p>yellow k/l (50 each) 794-5553/000-002 1 card</p> <p>white 1...10 (10 each) 793-5502 5 cards</p> <p>white 11...20 (10 each) 793-5503 5 cards</p>					

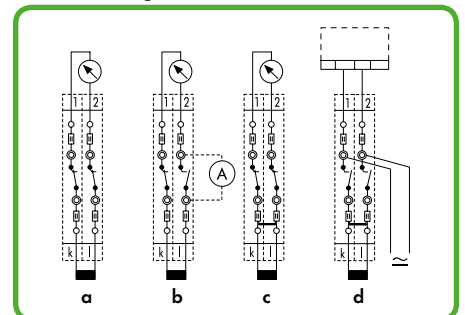
Current transformer circuit with transverse switching terminal blocks



a = Normal operation b = Measurement testing
c = Transformer short-circuit d = Relay testing



Current transformer circuit with longitudinal switching disconnect terminal blocks











a = Normal operation b = Measurement testing
c = Transformer short-circuit d = Relay testing

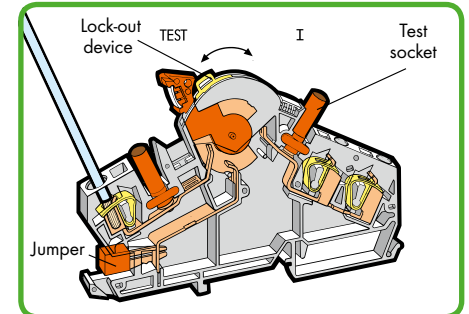
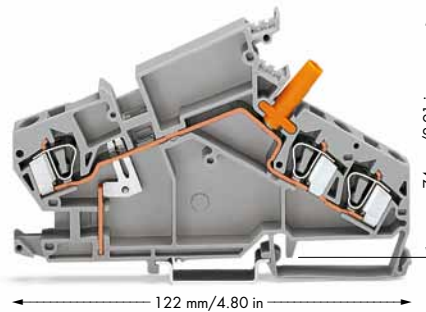
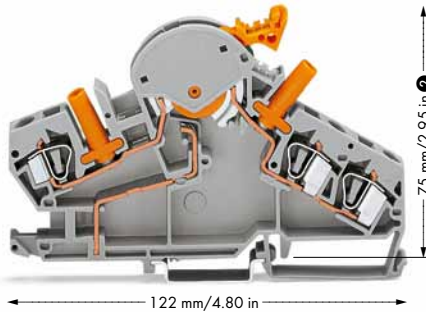
Approvals are available online at: www.wago.com.



For technical explanations and abbreviations, see technical section.

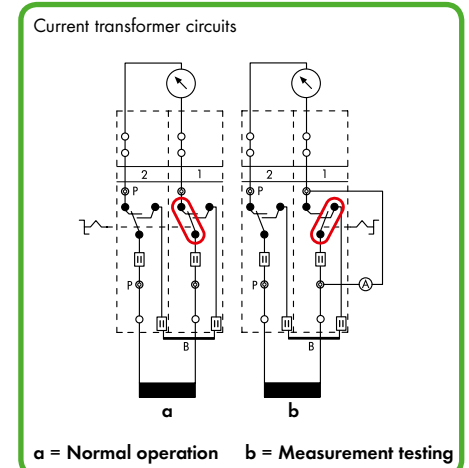
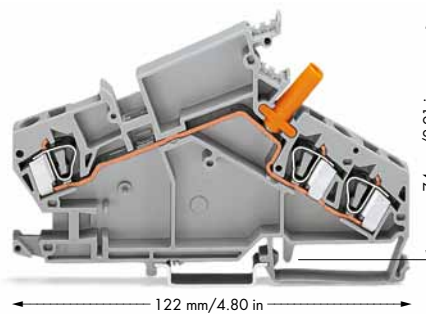
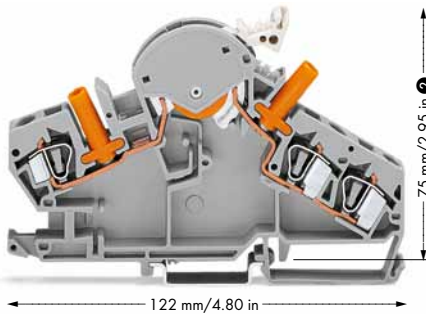
Disconnect/test terminal blocks 282 Series




Application Notes:

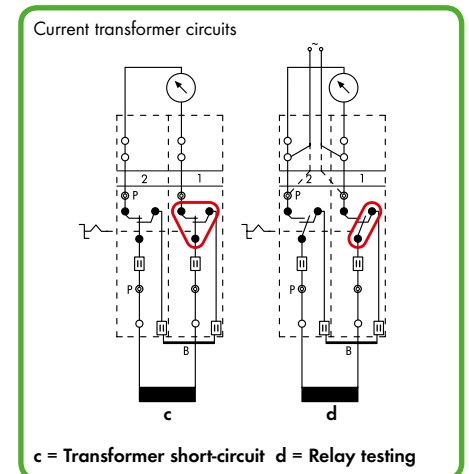
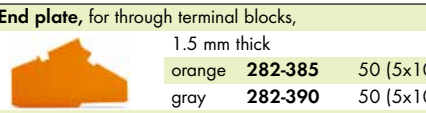
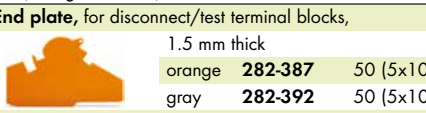
0.2 - 6 mm ² 500 V/6 kV/3 I _N 30 A	AWG 24 - 10 600 V, 30 A  600 V, 30 A 	0.2 - 6 mm ² 500 V/6 kV/3 I _N 30 A	AWG 24 - 10 600 V, 30 A  600 V, 30 A 
Terminal block width 8 mm / 0.315 in  12 - 13 mm / 0.49 in		Terminal block width 8 mm / 0.315 in  12 - 13 mm / 0.49 in	
 Approvals		 Approvals	













Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Disconnect/test terminal block, e.g., for current transformer circuits, with touch-proof test sockets (orange), 4 mm Ø, orange disconnect link			Through terminal block, e.g., current transformer circuits, with touch-proof test socket (orange), 4 mm Ø		
	282-870	20		282-865	20



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Disconnect/test terminal block, e.g., voltage transformer circuits, with touch-proof test sockets (orange), 4 mm Ø, disconnect link, light gray			Through terminal block, e.g., voltage transformer circuits, with touch-proof test socket (orange), 4 mm Ø		
	282-860	20		282-866	20
	282-868	20			
(with ground foot)					




Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
End plate, for disconnect/test terminal blocks, 1.5 mm thick			End plate, for through terminal blocks, 1.5 mm thick		
	orange 282-387	50 (5x10)		orange 282-385	50 (5x10)
	gray 282-392	50 (5x10)		gray 282-390	50 (5x10)

Accessories, 282 Series		Appropriate marking system: WMB			
	Adjacent jumper	gray 282-402	100 (4x25)		Wire commoning chain, insulated, black, 4 connections, 24 A, 2.5 mm ² /AWG 14, 3 x 80 mm 709-110 1
		orange 282-424	100 (4x25)		Wire commoning chain, insulated, black, 3 connections, 24 A, 2.5 mm ² /AWG 14, 2 x 90 mm 709-111 1
	Lock-out device, for disconnect link	yellow 282-384	100 (5x20)		Wire commoning chain, insulated, black, 3 connections, 24 A, 2.5 mm ² /AWG 14, 2 x 150 mm 709-112 1
	Interlocking link, mechanically locks multiple links, 1 m long, transparent	210-254	1		Protective warning marker, with high-voltage symbol, for 5 terminal blocks
	Locking cover, mechanically locks multiple links	transparent 1-pole 282-881	50 (5x10)		Banana plugs, only for safety extra-low voltage (42 V)
		4-pole 282-884	50 (5x10)		black 215-311 50
					red 215-212 50
					blue 215-711 50

Terminal blocks and accessories required:

2 x disconnect/test terminal block	282-870
1 x jumper, orange	282-424
1 x end plate, orange	282-386
1 x locking cover, transparent	282-882

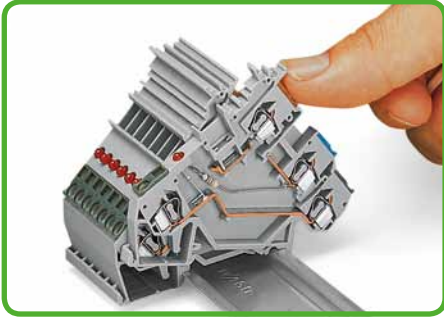
In addition, interlocking links, lock-out devices

 Max. height when rotating the disconnect link (incl. locking cover): 92 mm/3.62 in. Please find the entire product range in our Full Line Catalog, Volume 1. Additional information at www.wago.com.

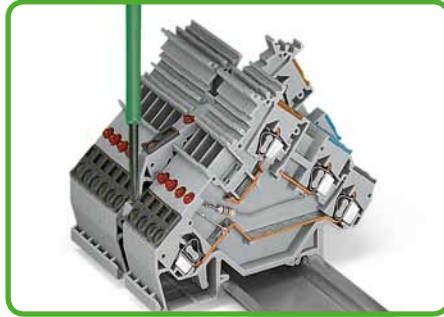
Sensor and Actuator Terminal Blocks . . . 280 Series

Assembly

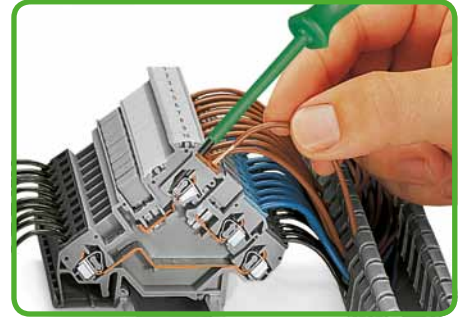
CAGE CLAMP® connection



Snapping terminal block onto DIN rail. Terminal blocks with grounding foot automatically establish a direct contact to the rail.



Removing terminal block from DIN rail. Notice: Remove jumper contacts first!



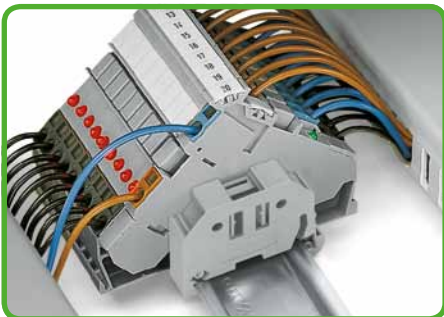
Inserting conductor via straight (3.5 x 0.5) mm screwdriver.

Commoning

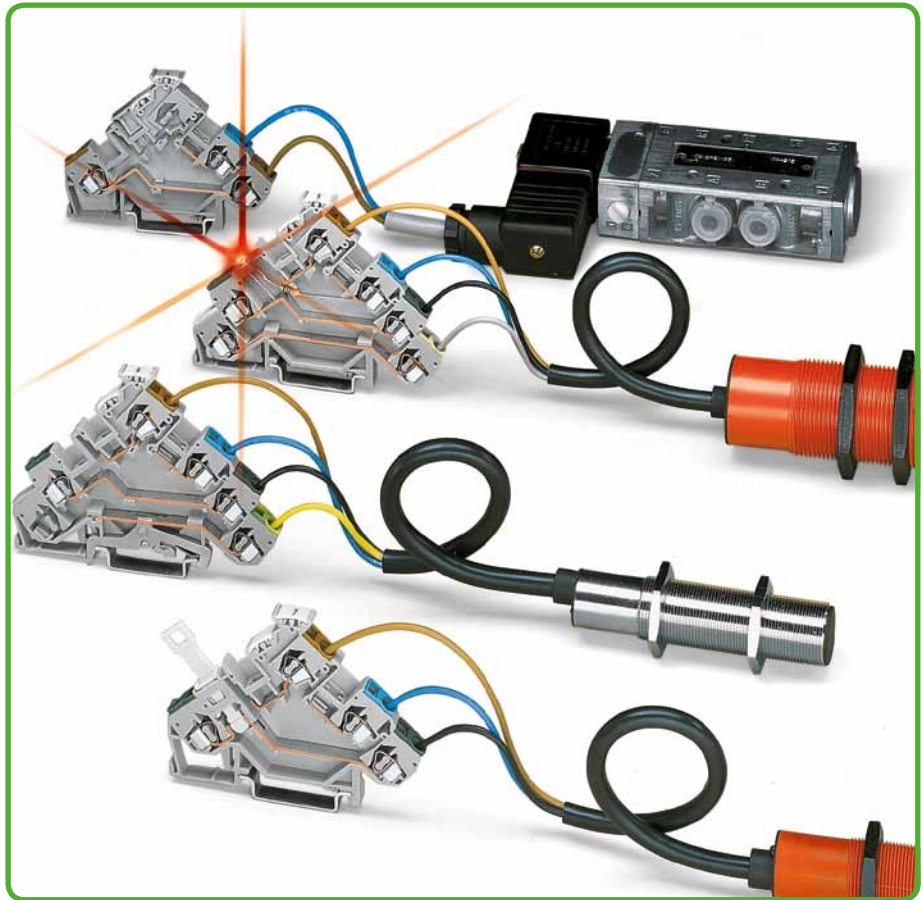


Commoning with adjacent jumpers. Push jumper down until fully inserted!

Power supply



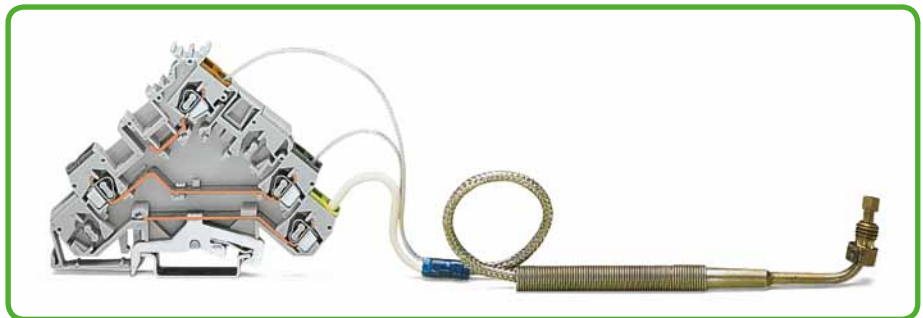
Sensor terminal blocks. Power supply from control panel side.



Power supply



Sensor terminal blocks. Power supply from sensor side.



Actuator terminal block and thermocouple with shield contact.



CAGE CLAMP®
clamps the following
copper conductors:

solid

Strip length, see packaging or instructions.

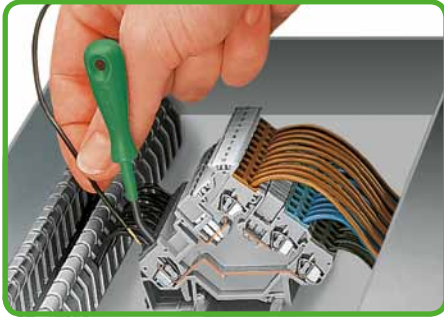


stranded



fine-stranded,
also with tinned
single strands

Marking

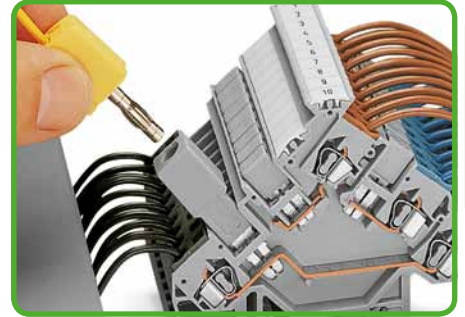


Inserting conductor via angled (3.5 x 0.5) mm screwdriver.



Marking using WMB Multi markers.

Testing

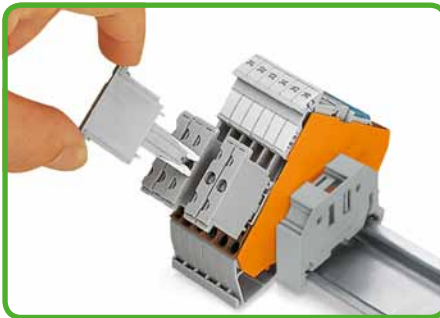


Testing via banana plug and 209-170 test plug adapter.

Actuator terminal blocks (see Full Line Catalog, Volume 1)



Actuator terminal blocks with 281-511 fuse holders. Intermediate plates also required!



Actuator terminal blocks with 280-801 component plugs.

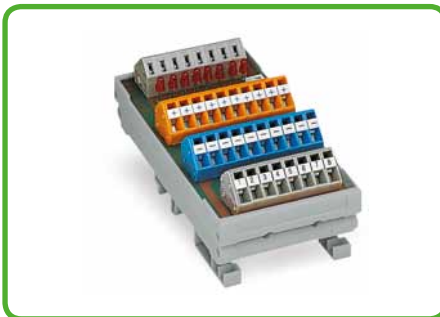


Actuator terminal block with ground connection, for line interruption

289 Series (see Full Line Catalog, Volume 4)



Connection module for 8 x 3-conductor sensors.

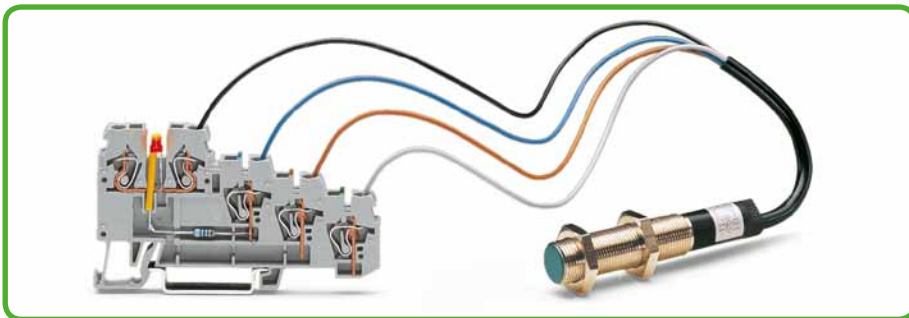


Connection module for 8 x 3-conductor sensors, LED indicator.



Connection module for 8 actuators with ground connection

270 Series (see Full Line Catalog, Volume 1)



Sensor LED terminal block.



Commoning the voltage supply using uninsulated push-in type jumper bars.



fine-stranded, tip-bonded






fine-stranded with ferrule (gastight crimped) 1

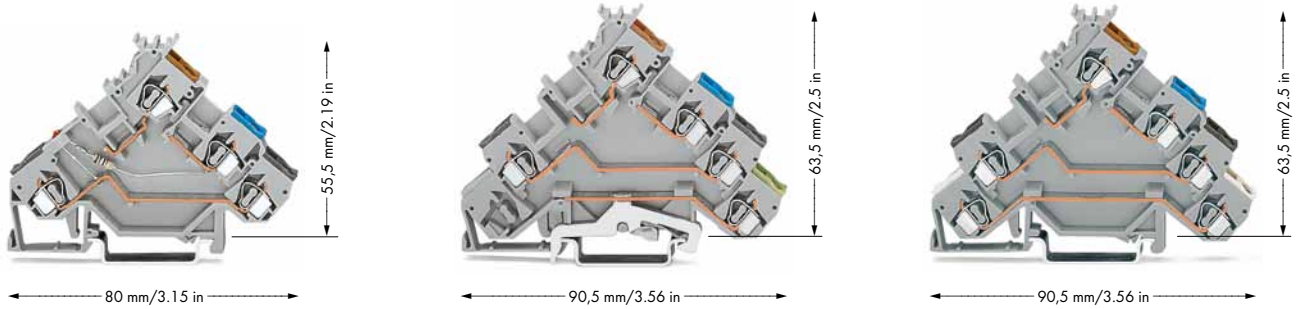


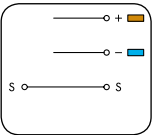
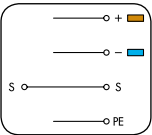
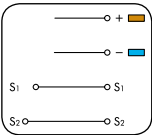
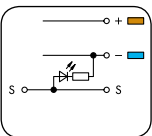
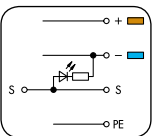
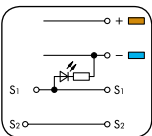
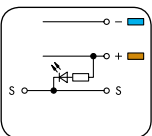
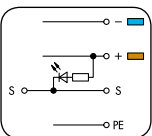
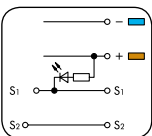
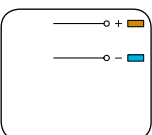
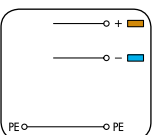
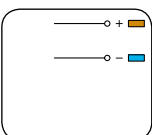
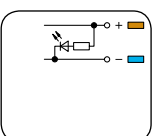
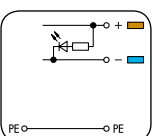
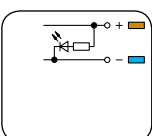
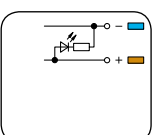
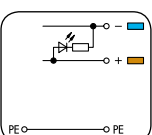
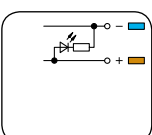
fine-stranded, with pin terminal (gastight crimped)




1 With ferruled conductors, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

Sensor Terminal Blocks 280 Series

<p>Sensor terminal blocks for 3-cond. sensors</p> <p>0.08 - 2.5 mm² AWG 28 - 12*</p> <p>Terminal block width 5 mm / 0.197 in</p>  <p>8 - 9 mm / 0.33 in</p> <p>① Approvals</p>	<p>Sensor terminal blocks with ground connection</p> <p>0.08 - 2.5 mm² AWG 28 - 12*</p> <p>Terminal block width 5 mm / 0.197 in</p>  <p>8 - 9 mm / 0.33 in</p> <p>① Approvals</p>	<p>Sensor terminal blocks for 4-conductor sensors</p> <p>0.08 - 2.5 mm² AWG 28 - 12*</p> <p>Terminal block width 5 mm / 0.197 in</p>  <p>8 - 9 mm / 0.33 in</p> <p>① Approvals</p>
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
 Sensor terminal block 400 V/6 kV/3, 20 A 280-560 50		 Sensor terminal block with ground connection 400 V/6 kV/3, 20 A 280-570 50		 Sensor terminal block 400 V/6 kV/3, 20 A 280-580 50	
 Sensor LED terminal block 24 VDC, 20 A, red LED, for PNP (positive) switching sensors 280-560/281-434 50 LED power consumption: 4.8 mA		 Sensor LED terminal block with ground connection , 24 VDC, 20 A, red LED, for PNP (positive) switching sensors 280-570/281-434 50 LED power consumption: 4.8 mA		 Sensor LED terminal block 24 VDC, 20 A, red LED, for PNP (positive) switching sensors 280-580/281-434 50 LED power consumption: 4.8 mA	
 Sensor LED terminal block 24 VDC, 20 A, red LED, for NPN (negative) switching sensors 280-561/281-413 50 LED power consumption: 4.8 mA		 Sensor LED terminal block with ground connection , 24 VDC, 20 A, red LED, for NPN (negative) switching sensors 280-571/281-413 50 LED power consumption: 4.8 mA		 Sensor LED terminal block 24 VDC, 20 A, red LED, for NPN (negative) switching sensors 280-581/281-413 50 LED power consumption: 4.8 mA	
 Sensor supply terminal block power supply from sensor side 400 V/6 kV/3, 20 A 280-564 10		 Sensor supply terminal block with ground connection , power supply from sensor side 400 V/6 kV/3, 20 A 280-574 10		 Sensor supply terminal block power supply from sensor side 400 V/6 kV/3, 20 A 280-584 10	
 Sensor LED supply terminal block 24 VDC, 20 A, green LED, for PNP (positive) switching sensors 280-564/281-483 10 LED power consumption: 4.8 mA		 Sensor LED supply terminal block, with ground connection , 24 VDC, 20 A, green LED, for PNP (positive) switching sensors 280-574/281-483 10 LED power consumption: 4.8 mA		 Sensor LED supply terminal block 24 VDC, 20 A, green LED, for PNP (positive) switching sensors 280-584/281-483 10 LED power consumption: 4.8 mA	
 Sensor LED supply terminal block 24 VDC, 20 A, green LED, for NPN (negative) switching sensors 280-566/281-496 10 LED power consumption: 4.8 mA		 Sensor LED supply terminal block, with ground connection , 24 VDC, 20 A, green LED, for NPN (negative) switching sensors 280-576/281-496 10 LED power consumption: 4.8 mA		 Sensor LED supply terminal block 24 VDC, 20 A, green LED, for NPN (negative) switching sensors 280-586/281-496 10 LED power consumption: 4.8 mA	
End and intermediate plate , 1 mm thick orange 280-321 100 (4x25) gray 280-319 100 (4x25)		End and intermediate plate , 1 mm thick orange 280-323 100 (4x25) gray 280-320 100 (4x25)		End and intermediate plate , 1 mm thick orange 280-323 100 (4x25) gray 280-320 100 (4x25)	




Accessories, 280 Series		Appropriate marking system: WMB	
 Adjacent jumper , insulated, I _N 24 A gray 280-402 200 (8x25)	 Test plug adapter , for terminal blocks 1.5–10 mm ² (AWG 16–8) 8 mm wide 209-170 50 (2x25) for 4 mm Ø test plug	 Insulation stop , 5 pcs/strip 200 strips	
		white 280-470 0.08–0.2 mm ² (AWG 28–24)	
		light gray 280-471 0.25–0.5 mm ² (AWG 12–20)	
		dark gray 280-472 0.75–1 mm ² (AWG 20–18)	
	For 215 Series test plugs, see page 193.		

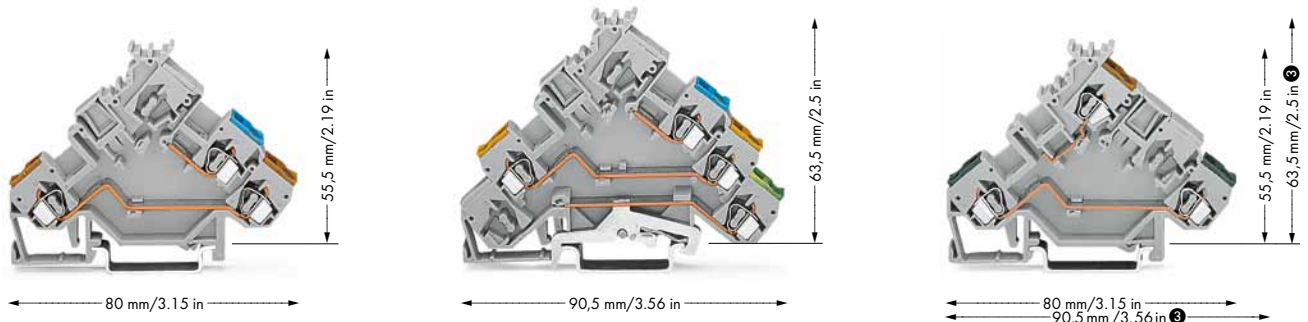
③ Approvals are available online at: www.wago.com.

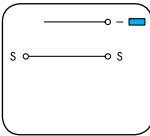
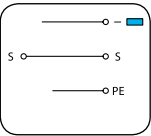
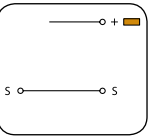
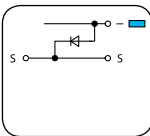
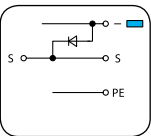
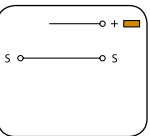
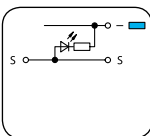
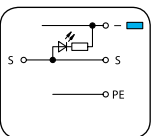
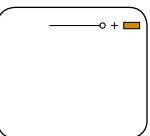
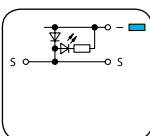
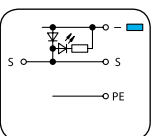
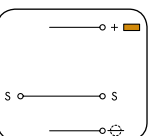
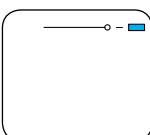
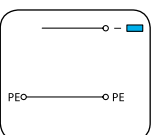
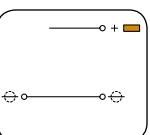
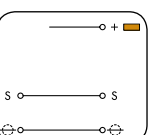






*AWG 12: THHN, THWN

For technical explanations and abbreviations, see technical section.

Actuator Terminal Blocks 280 Series

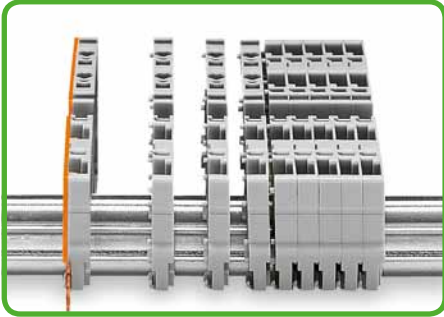
<p>Actuator terminal blocks for 2-conductor actuators 0.08 - 2.5 mm² AWG 28 - 12* Terminal block width 5 mm / 0.197 in  8 - 9 mm / 0.33 in ① Approvals</p>	<p>Actuator terminal block with ground connection 0.08 - 2.5 mm² AWG 28 - 12* Terminal block width 5 mm / 0.197 in  8 - 9 mm / 0.33 in ① Approvals</p>	<p>Actuator terminal blocks with shield connection 0.08 - 2.5 mm² AWG 28 - 12* Terminal block width 5 mm / 0.197 in  8 - 9 mm / 0.33 in ① Approvals</p>
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
 Actuator terminal block (e.g., for magnetic valves) 400 V/6 kV/3, 20 A 280-562 50		 Actuator terminal block with ground connection 400 V/6 kV/3, 20 A 280-572 50		 Actuator terminal block (e.g., for thermocouples) 400 V/6 kV/3, 20 A 280-555 ② 50	
 Actuator terminal block with 1N4007 recovery diode 250 V/4 kV/3, 20 A 280-562/281-411 50		 Actuator terminal block with ground connection, with 1N4007 recovery diode 250 V/4 kV/3, 20 A 280-572/281-411 50		 Actuator terminal block (e.g., for pressure switches) 400 V/6 kV/3, 20 A 280-554 ② 50	
 Actuator LED terminal block 24 VDC, 20 A, red LED 280-562/281-434 50 LED power consumption: 4.8 mA		 Actuator LED terminal block with ground connection, 24 VDC, 20 A, red LED 280-572/281-434 50 LED power consumption: 4.8 mA		 Actuator supply terminal block with end plate, 6 mm terminal block width, for 280-554 and 280-555 400 V/6 kV/3, 20 A 280-556 ② 20	
 Actuator LED terminal block 24 VDC, red LED, with 1N4007 recovery diode 280-562/281-420 50 LED power consumption: 4.8 mA		 Actuator LED terminal block with ground connection, 24 VDC, 20 A, red LED 280-572/281-420 50 LED power consumption: 4.8 mA		 Actuator terminal block with shield connection 400 V/6 kV/3, 20 A 280-585 ③ 50	
 Actuator supply terminal block power supply from actuator side 400 V/6 kV/3, 20 A 280-592 10		 Actuator supply terminal block with ground connection, power supply from actuator side 400 V/6 kV/3, 20 A 280-593 10		 Actuator supply terminal block with shield connection, with end plate, 6 mm terminal block width 280-586 ③ 20	
				 Actuator terminal block with shield conductor through contact 400 V/6 kV/3, 20 A 280-583 ③ 50	
 End and intermediate plate , 1 mm thick orange 280-321 100 (4x25) gray 280-319 100 (4x25)		 End and intermediate plate , 1 mm thick orange 280-323 100 (4x25) gray 280-320 100 (4x25)		 End plate , 1 mm thick ② orange 280-323 100 (4x25) ② gray 280-319 100 (4x25) ③ orange 280-323 100 (4x25) ③ gray 280-320 100 (4x25)	
Accessories, 280 Series Appropriate marking system: WMB					
 Adjacent jumper , insulated, I _N 24 A gray 280-402 200 (8x25)		 Test plug adapter , for terminal blocks 1.5 - 10 mm ² (AWG 16 - 8) 8 mm wide 209-170 50 (2x25) for 4 mm Ø test plug		 Insulation stop , 5 pcs/strip 200 strips white 280-470 0.08-0.2 mm ² (AWG 28-24) light gray 280-471 0.25-0.5 mm ² (AWG 12-20) dark gray 280-472 0.75-1 mm ² (AWG 20-18)	
		For 215 Series test plugs, see page 193.			

X-COM®-SYSTEM . . . 769 Series

Assembly



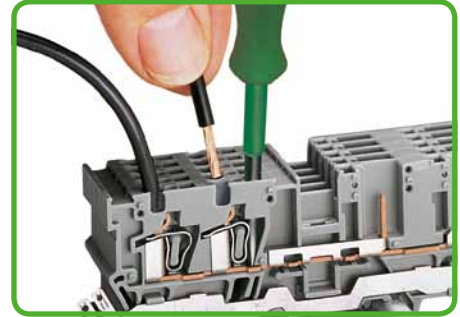
Snap individual carrier terminal blocks onto DIN rail and slide together.

Removal



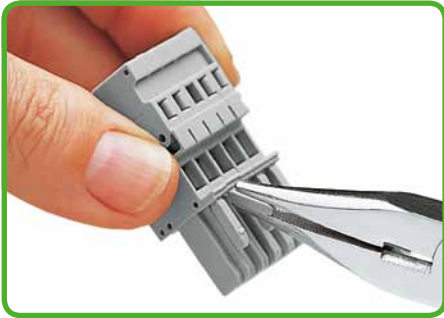
Unlock assembly with (3.5 x 0.5) mm screwdriver and remove terminal block via release lever.

CAGE CLAMP® connection



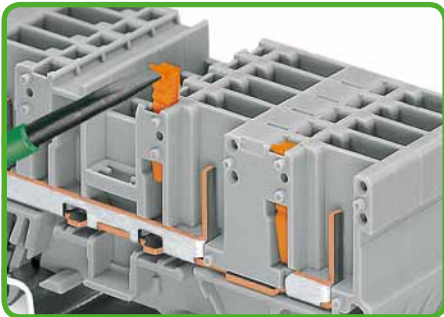
Carrier terminal block: Inserting/removing conductor via (3.5 x 0.5) mm screwdriver.

Coding



Coding a female plug - removing coding finger(s). Do not break off the first and last latch position coding fingers!

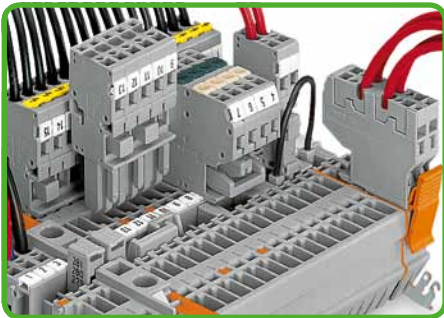
Coding



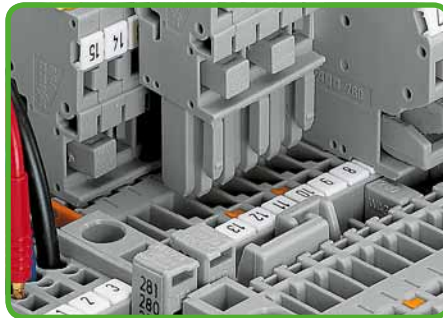
Snap coding pin in proper direction on carrier terminal block. Shown: Removing coding pin from carrier terminal block.



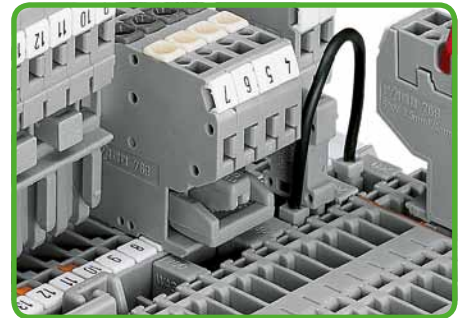
Commoning



Commoning with adjacent or staggered jumpers. Push jumpers down until fully inserted!



Commoning carrier terminal blocks via staggered jumpers.



Commoning 2-conductor female plug with staggered jumper and commoning carrier terminal block with adjacent jumper.



CAGE CLAMP®
clamps the following
copper conductors:

solid

Strip length, see packaging or instructions.

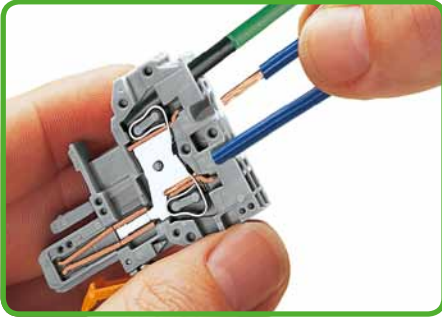


stranded

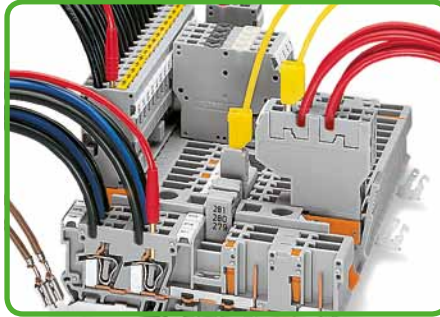


fine-stranded,
also with tinned
single strands

Testing



Female plug: Inserting/removing conductor. Operation 90° to wire also possible.



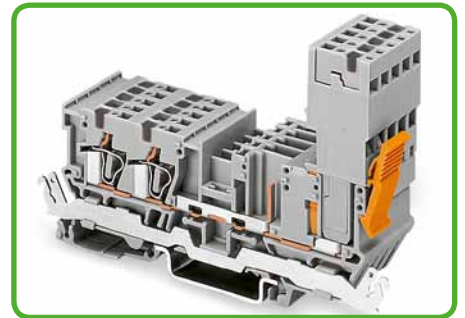
Testing with 2 mm Ø (red) or 2.3 mm Ø (yellow) test plug.

Locking lever

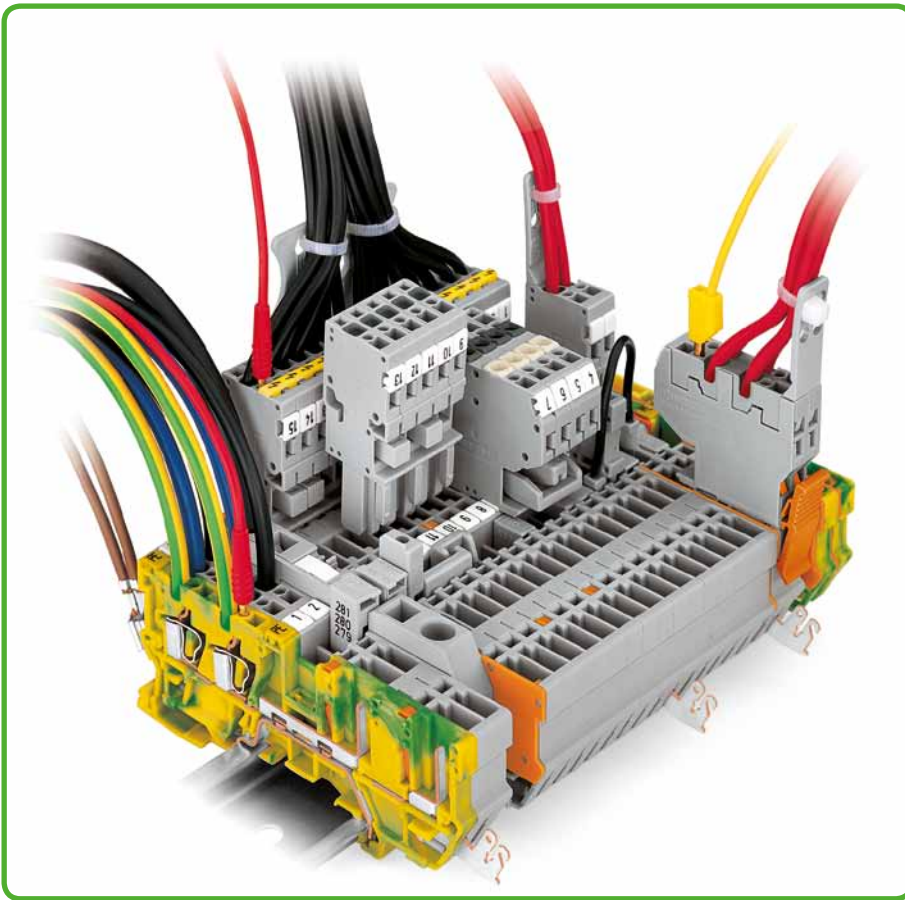


Snapping in/removing locking lever.

Locking lever



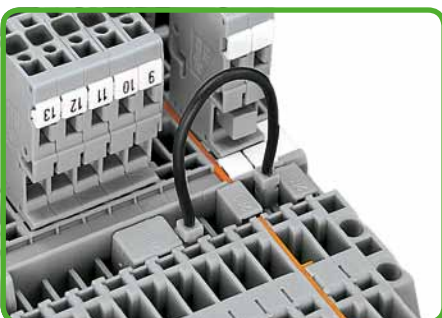
Female plug secured with locking lever in external area of carrier terminal block.



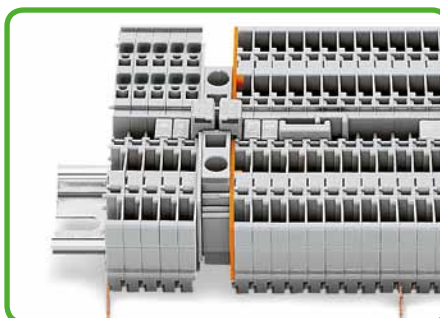
Strain relief



Removing female plug, conductors provided with strain relief plate.



Commoning carrier terminal blocks with push-in type wire, or adjacent jumpers over the intermediate plate.



Step-down jumper used for commoning terminal blocks of different sizes (max. 10 mm²/AWG 8).



Commoning 1-conductor female plugs with miniature adjacent jumpers.



fine-stranded, tip-bonded







fine-stranded with ferrule ① (gastight crimped)

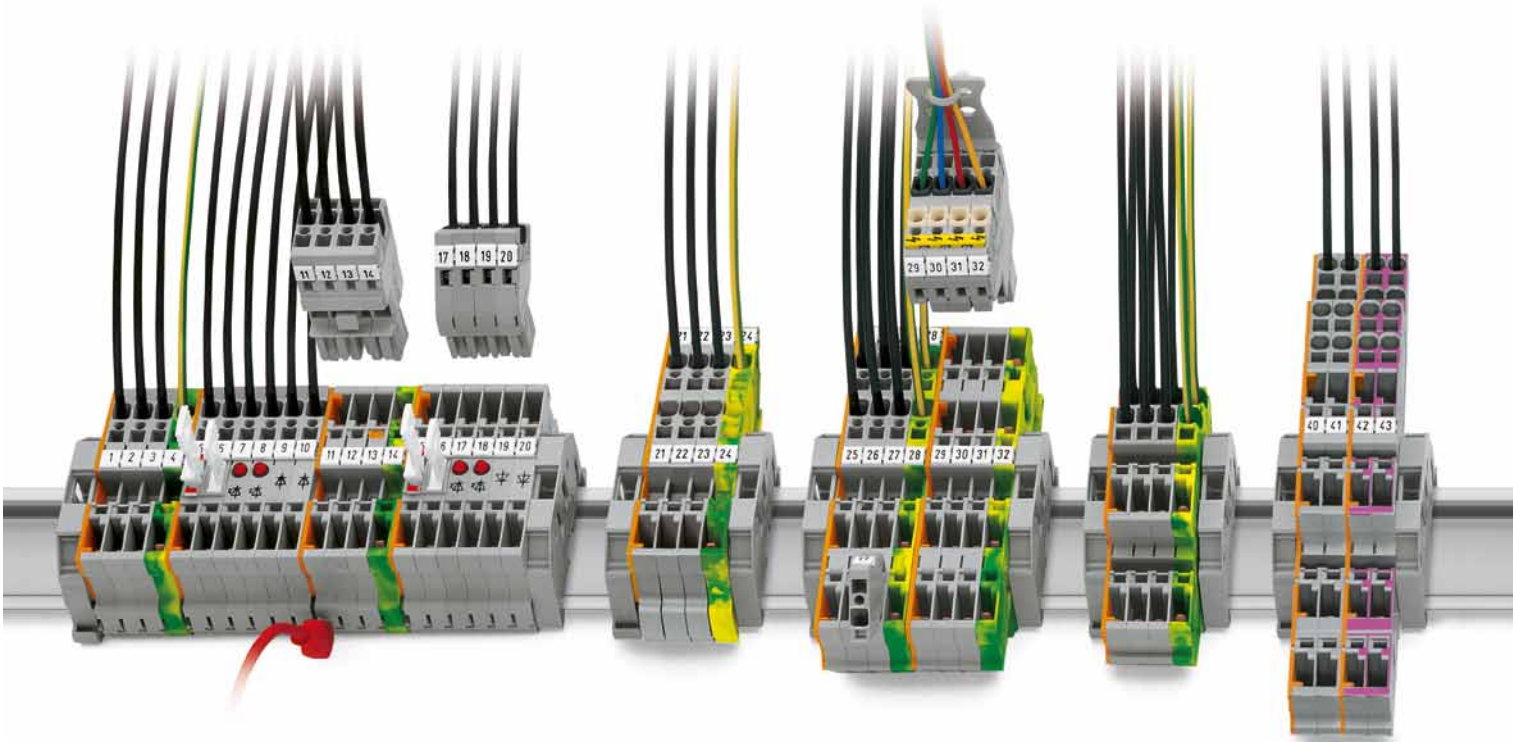


fine-stranded, with pin terminal (gastight crimped)


① With ferruled conductors, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

X-COM®-SYSTEM 769 and 870 Series




Technical data – carrier terminal blocks:	0.08 - 4 mm ²	AWG 28 - 12
	500 V/6 kV/3	300 V, 10 A 
	250 V/4 kV/3	300 V, 20 A 
	I _N 16 A / 32 A*	
	Terminal block width 5 mm / 0.197 in	
	 8 - 9 mm / 0.33 in	
	 Approvals	

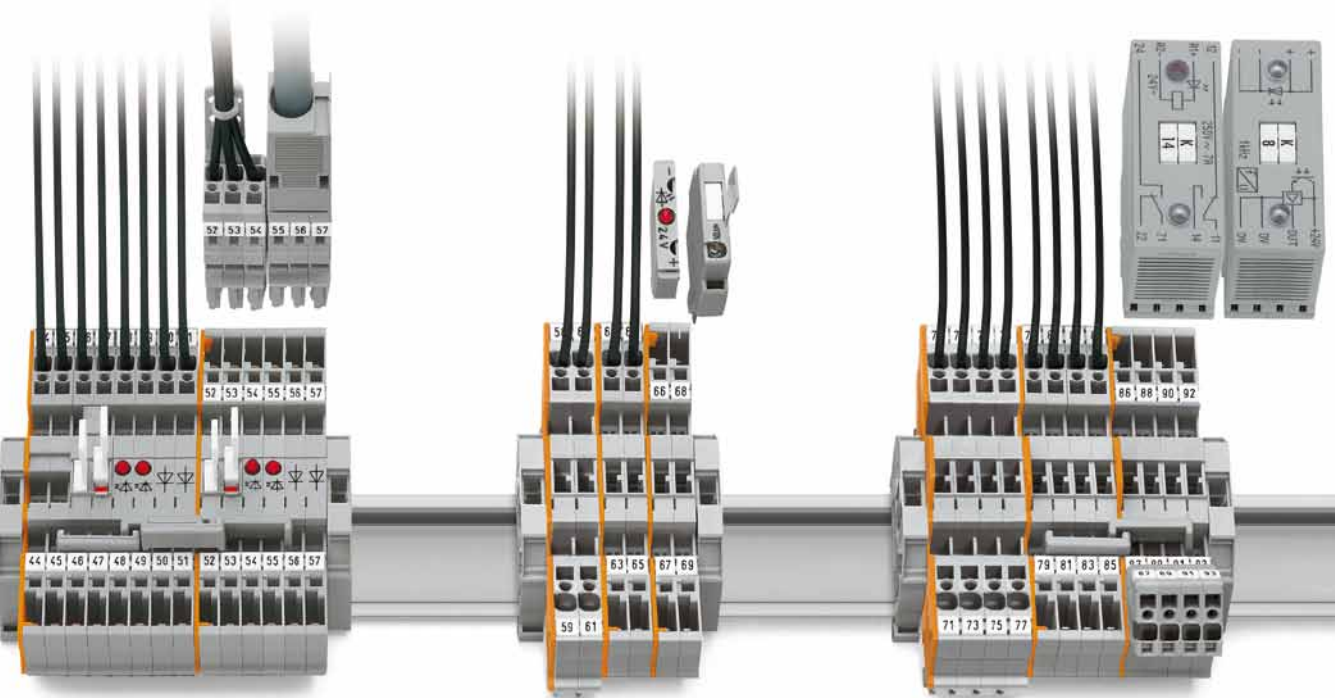


	Single-deck through and function terminal blocks:					Double-deck terminal blocks:			
	1-cond./1-pin	2-pin	2-cond./1-pin	2-cond./2-pin	4-pin	1-cond./1-pin	2-pin/2-pin	2-cond./2-pin	4-cond./4-pin
<input type="radio"/> Carrier terminal block	769-176*	769-156*	769-251*	769-171*	769-151*	870-101	870-151	870-131	
<input type="radio"/> Carrier terminal block internal commoning							4-pin 870-158	870-108	870-138
<input type="radio"/> Carrier terminal block with shield contact	769-231*	769-221*		769-211*	769-201*		4-pin 870-157	870-107	
<input checked="" type="radio"/> Ground carrier term. block	769-237	769-227	769-257	769-217	769-207				
<input type="radio"/> Disconnect carrier term. block	769-232	769-222							
<input type="radio"/> Disconnect carrier terminal block with shield contact	769-233	769-223							
<input type="radio"/> Diode carrier terminal block									
Anode, left side	769-238/281-410	769-228/281-410							
Anode, right side	769-238/281-411	769-228/281-411							
<input type="radio"/> LED carrier terminal block									
Anode, right side	769-239/281-413	769-229/281-413							
Anode, left side	769-239/281-434	769-229/281-434							
<input type="radio"/> End plate	769-307	769-305	769-320	769-301		870-118	870-168	870-148	
<input checked="" type="radio"/> Separator, oversized	769-308	769-306	769-321	769-302		870-119	870-169	870-149	
<input type="radio"/> Jumper	280-4xx	280-4xx	280-4xx	280-4xx	280-4xx	870-4xx	870-4xx	870-4xx	

 Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

Technical data – carrier terminal blocks:	0.08 - 4 mm² 500 V/6 kV/3 250 V/4 kV/3 I _N 16 A / 32 A* Terminal block width 5 mm / 0.197 in  8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 12 300 V, 10 A  300 V, 20 A 
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Terminal blocks with multiple jumper positions			Carrier terminal block for 280/281 Series pluggable modules (fuse, LED, ...)			Carrier terminal blocks for 286 Series pluggable modules with integrated end plate (relays, optocouplers, ...)
3-way	2-way	2-way	1-cond./1-cond.	1-cond./1-pin	2-pin	
1-cond./1-pin	1-cond./1-pin	2-pin	769-191	769-181	769-161	
769-214*						
						1-cond./1-pin
						4-pole 769-182/769-314
						6-pole 769-183/769-314
						8-pole 769-184/769-314
						10-pole 769-185/769-314
	769-212	769-202				1-cond./1-cond.
						4-pole 769-192/769-319
	769-213	769-203				6-pole 769-193/769-319
						8-pole 769-194/769-319
						10-pole 769-195/769-319
769-218/281-410	769-208/281-410					2-pin
769-218/281-411	769-208/281-411					4-pole 769-162/769-313
						6-pole 769-163/769-313
						8-pole 769-164/769-313
769-219/281-413	769-209/281-413					10-pole 769-165/769-313
769-219/281-434	769-209/281-434					
			1-cond./1-cond.	1-cond./1-pin	2-pin	
769-315	769-311	769-309	769-317	769-311	769-309	
769-316	769-312	769-310	769-318	769-312	769-310	
	769-314	769-313	769-319	769-314	769-313	
280-4xx	280-4xx	280-4xx	780-45x	780-45x	780-45x	780-45x



Please find the entire product range in our Full Line Catalog, Volume 1. Additional information at www.wago.com.



X-COM®-SYSTEM

Male Connectors

769 Series

Technical data – male connectors:

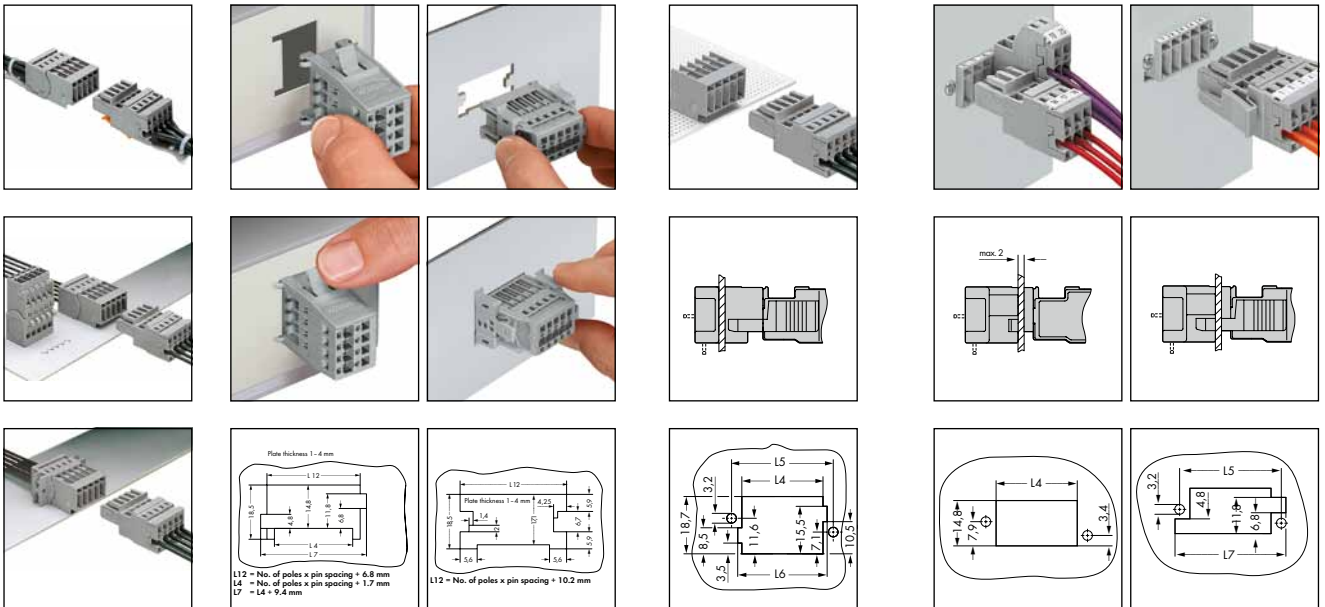
Pin spacing 5 mm / 0.197 in
 0.08 - 4 mm² | AWG 28 - 12
 500 V/6 kV/3 | 600 V, 20 A 
 I_N 32 A | 300 V, 20 A 

 8 - 9 mm / 0.33 in
 Approvals



Male connectors with CAGE CLAMP® connection			Male connectors with CAGE CLAMP® connection and snap-in flanges			Headers with solder pins		Headers with solder pins and fixing flanges	
						straight	angled	straight	angled
○ 2-pole	769-602	769-602/005-000	769-602/006-000	769-632	769-662	769-632/004-000	769-662/004-000	769-633/004-000	769-663/004-000
○ 3-pole	769-603	769-603/005-000	769-603/006-000	769-633	769-663	769-634/004-000	769-664/004-000	769-634/004-000	769-664/004-000
○ 4-pole	769-604	769-604/005-000	769-604/006-000	769-634	769-664	769-635/004-000	769-665/004-000	769-635/004-000	769-665/004-000
○ 5-pole	769-605	769-605/005-000	769-605/006-000	769-635	769-665	769-636/004-000	769-666/004-000	769-636/004-000	769-666/004-000
○ 6-pole	769-606	769-606/005-000	769-606/006-000	769-636	769-666	769-637/004-000	769-667/004-000	769-637/004-000	769-667/004-000
○ 7-pole	769-607	769-607/005-000	769-607/006-000	769-637	769-667	769-638/004-000	769-668/004-000	769-638/004-000	769-668/004-000
○ 8-pole	769-608	769-608/005-000	769-608/006-000	769-638	769-668	769-639/004-000	769-669/004-000	769-639/004-000	769-669/004-000
○ 9-pole	769-609	769-609/005-000	769-609/006-000	769-639	769-669	769-640/004-000	769-670/004-000	769-640/004-000	769-670/004-000
○ 10-pole	769-610	769-610/005-000	769-610/006-000	769-640	769-670	769-641/004-000	769-671/004-000	769-641/004-000	769-671/004-000
○ 11-pole	769-611	769-611/005-000	769-611/006-000	769-641	769-671	769-642/004-000	769-672/004-000	769-642/004-000	769-672/004-000
○ 12-pole	769-612	769-612/005-000	769-612/006-000	769-642	769-672	769-643/004-000	769-673/004-000	769-643/004-000	769-673/004-000
○ 13-pole	769-613	769-613/005-000	769-613/006-000	769-643	769-673	769-644/004-000	769-674/004-000	769-644/004-000	769-674/004-000
○ 14-pole	769-614	769-614/005-000	769-614/006-000	769-644	769-674	769-645/004-000	769-675/004-000	769-645/004-000	769-675/004-000
○ 15-pole	769-615	769-615/005-000	769-615/006-000	769-645	769-675				
Item no. suffix for male connectors with snap-in mounting feet*: ...-.../001-000 or fixing flanges: ...-.../002-000 * 209-137 mounting carrier for DIN 35 rail				Item no. suffix for headers with solder pins and fixing flanges: ...-.../003-000					

Application Notes and Dimensions






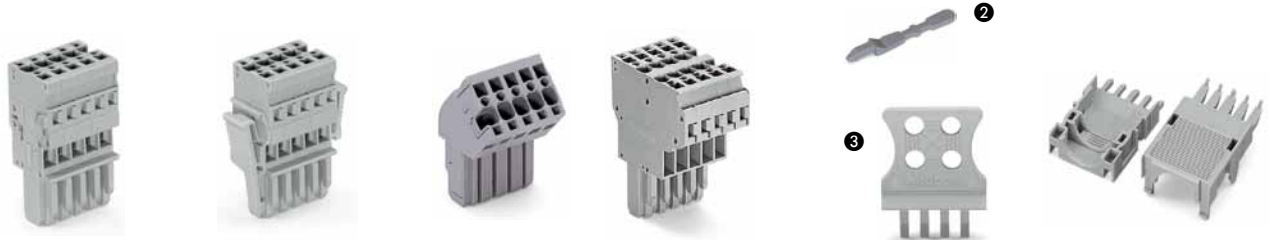
X-COM®-SYSTEM

Female Plugs, Strain Relief Plates and Housings

769 Series


















CAGE CLAMP®

Technical data – female plugs:	0.08 - 4 mm ²	AWG 28 - 12
	500 V/6 kV/3 I _N 32 A	300 V, 10 A  300 V, 20 A 
	Module width 5 mm / 0.197 in	
	 8 - 9 mm / 0.33 in	
	① Approvals	



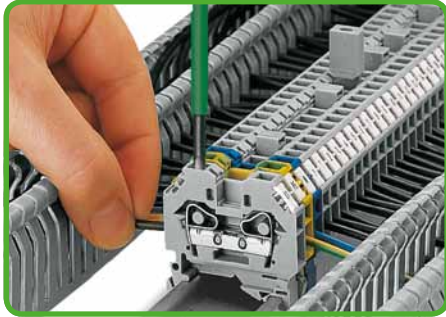
Female plugs, with coding fingers	1-conductor, straight	1-conductor, with locking lever	1-conductor, angled	2-conductor, straight	② Strain relief plate, gray	Strain relief housing, gray
○ 1-pole	769-101	-	769-101/022-000	769-121	1-pole	769-410
○ 2-pole	769-102	769-102/021-000	769-102/022-000	769-122	2- to 3-pole	769-411
○ 3-pole	769-103	769-103/021-000	769-103/022-000	769-123	4- to 5-pole	769-412
○ 4-pole	769-104	769-104/021-000	769-104/022-000	769-124		
○ 5-pole	769-105	769-105/021-000	769-105/022-000	769-125		
○ 6-pole	769-106	769-106/021-000	769-106/022-000	769-126		
○ 7-pole	769-107	769-107/021-000	769-107/022-000	769-127		
○ 8-pole	769-108	769-108/021-000	769-108/022-000	769-128	③ Strain relief plate, gray	7-pole
○ 9-pole	769-109	769-109/021-000	769-109/022-000	769-129	6- to 9-pole	769-413
○ 10-pole	769-110	769-110/021-000	769-110/022-000	769-130	10- to 15-pole	769-414
○ 11-pole	769-111	769-111/021-000	769-111/022-000	769-131		
○ 12-pole	769-112	769-112/021-000	769-112/022-000	769-132		
○ 13-pole	769-113	769-113/021-000	769-113/022-000	769-133		
○ 14-pole	769-114	769-114/021-000	769-114/022-000	769-134		
○ 15-pole	769-115	769-115/021-000	769-115/022-000	769-135		
● 1-pole	769-101/000-016		769-101/022-016	769-121/000-016		

Accessories, X-COM®-SYSTEM

 5 pcs/strip 0.08 - 0.2 mm ² "sol." (0.14 mm ² "f-st") white 769-470 200(8x25)	 5 pcs/strip 0.25 - 0.5 mm ² light gray 769-471 200(8x25)	 5 pcs/strip 0.75 - 1 mm ² dark gray 769-472 200(8x25)
 Miniature adjacent jumper, for straight 1-conductor female plugs, insulated, I _N 24 A gray 769-402 100(4x25)	 Adjacent Jumper, for carrier terminal blocks and 2-conductor female plugs, insulated, I _N = I _N terminal block gray 280-402 200(8x25)	 Jumper Cover, for 1-conductor female plugs, 5 poles gray 769-436 100(4x25)
 Protective warning marker, with high-voltage symbol, for 5 terminal blocks yellow 280-415 100(4x25)	 Locking Lever, for 1-pole female plugs gray 769-428 100(4x25) orange 769-429 100(4x25)	 Locking Lever, for female plugs, 2 poles and more gray 769-430 100(4x25) orange 769-431 100
 Coding pin, for coding female plugs orange 769-435 100(4x25)	 Disconnect lock, for disconnect tab used on 280/281 and 769 Series disconnect terminal blocks red 709-170 200(8x25)	 Operating lever, loose, for female plugs and male connectors with CAGE CLAMP® connection 769-434 2000 (20x100)
 Operating tool, for female plugs and male connectors with CAGE CLAMP® connection 210-490 1	 Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade 210-720 1	 Test plug, with 500 mm cable, 2.3 mm Ø red 210-136 50
 Miniature WSB Quick marking system, see Section 6	 WMB Multi marking system, for double-deck carrier terminal blocks (see Section 6)	

Side-Entry, Rail-Mounted Terminal Blocks 279 to 284 Series

Conductor termination



Open clamping unit using a screwdriver and insert stripped conductor until it hits backstop.



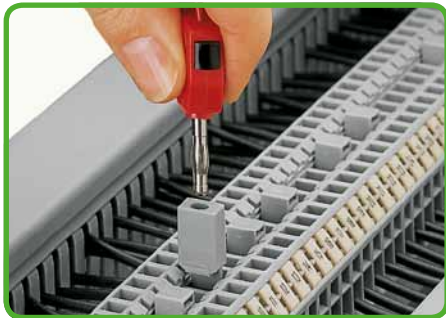
The plunger is placed into the upper operating slot of the side-entry terminal block and the clamp is hooked into the lateral operating slot. The contact is fully opened by pressing the handles together until they engage. Insert stripped conductor until it hits backstop.

Marking



Marking using WMB Multi markers.

Testing

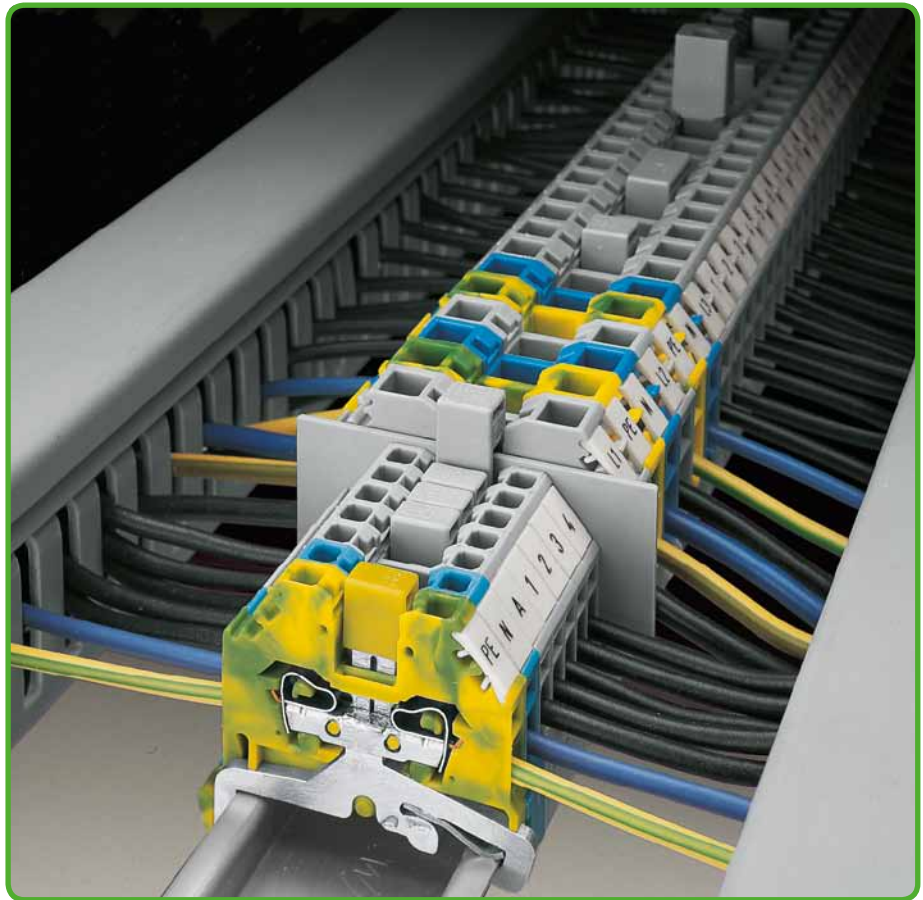


Testing with test plug adapter.

Commoning



Commoning with adjacent jumpers. Push jumper down until fully inserted!



Commoning with step-down jumpers



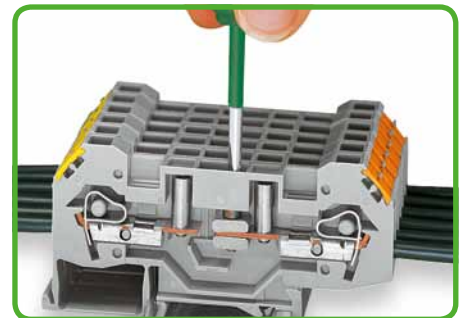
Commoning side-entry rail-mounted terminal blocks with step-down jumpers.

Fuse terminal blocks



Replacing a fuse.

Disconnect terminal blocks



Shifting the disconnect slide link.

CAGE CLAMP® clamps the following copper conductors:



solid



stranded



fine-stranded



tip-bonded



with ferrule



with pin terminal

Strip length, see packaging or instructions.

Through and Ground Conductor Terminal Blocks, Side-Entry 279 to 281 Series

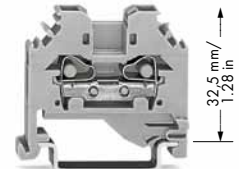
<p>0.08 - 1.5 mm² 800 V/8 kV/3 I_N 18 A</p> <p>Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in</p> <p>AWG 28 - 16 300 V, 10 A 600 V, 15 A</p> <p>Approvals</p>	<p>0.08 - 2.5 mm² 800 V/8 kV/3 I_N 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in</p> <p>AWG 28 - 12* 600 V, 20 A 600 V, 20 A</p> <p>Approvals</p>	<p>0.08 - 4 mm² 800 V/8 kV/3 I_N 32 A</p> <p>Terminal block width 6 mm / 0.236 in 9 - 10 mm / 0.37 in</p> <p>AWG 28 - 12 600 V, 20 A 600 V, 20 A</p> <p>Approvals</p>
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← 42,5 mm / 1.67 in →



← 42,5 mm / 1.67 in →












← 42,5 mm / 1.67 in →

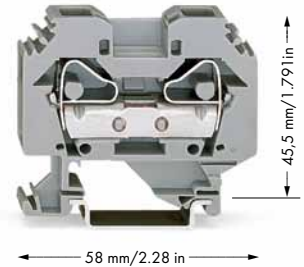
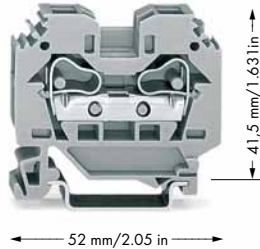
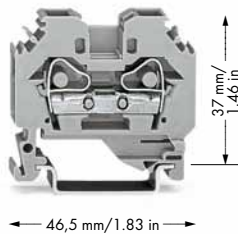
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			2-conductor through terminal block			2-conductor through terminal block		
gray	279-101	100	gray	280-101	100	gray	281-101	100
blue	279-104	100	blue	280-104	100	blue	281-104	100
2-conductor ground terminal block			2-conductor ground terminal block			2-conductor ground terminal block		
			green-yellow	280-107	100	green-yellow	281-107	100
Item-Specific Accessories			Item-Specific Accessories			Item-Specific Accessories		
End and intermediate plate, 2.5 mm thick			End and intermediate plate, 2.5 mm thick			End and intermediate plate, 3 mm thick		
	orange	280-302 100 (4x25)	orange	280-302 100 (4x25)	orange	281-302 100 (4x25)	orange	281-302 100 (4x25)
	gray	280-301 100 (4x25)	gray	280-301 100 (4x25)	gray	281-301 100 (4x25)	gray	281-301 100 (4x25)
Separator, oversized, 2 mm thick			Separator, oversized, 2 mm thick			Separator, oversized, 2 mm thick		
	orange	280-322 100 (4x25)	orange	280-322 100 (4x25)	orange	281-322 100 (4x25)	orange	281-322 100 (4x25)
	gray	280-332 100 (4x25)	gray	280-332 100 (4x25)	gray	281-332 100 (4x25)	gray	281-332 100 (4x25)
Accessories, 279 Series			Accessories, 280 Series			Accessories, 281 Series		
Appropriate marking system: WMB			Appropriate marking system: WMB			Appropriate marking system: WMB		
Adjacent jumper, insulated, I_N 15 A			Adjacent jumper, insulated, I_N 24 A			Adjacent jumper, insulated, I_N 32 A		
	gray	279-402 200 (8x25)	gray	280-402 200 (8x25)	gray	281-402 200 (8x25)	gray	281-402 200 (8x25)
	yellow-green	279-422 200 (8x25)	yellow-green	280-422 200 (8x25)	yellow-green	281-422 200 (8x25)	yellow-green	281-422 200 (8x25)
Alternate jumper, insulated, I_N 15 A			Alternate jumper, insulated, I_N 24 A			Alternate jumper, insulated, I_N 32 A		
	gray	279-409 100 (4x25)	gray	280-409 100 (4x25)	gray	281-409 100 (4x25)	gray	281-409 100 (4x25)
Staggered jumper, insulated, I_N 24 A, 5 mm wide			Staggered jumper, insulated, I_N 24 A, 5 mm wide			Staggered jumper, insulated, I_N 32 A, 6 mm wide		
	from 1 to 2	780-452 100 (4x25)	from 1 to 2	780-452 100 (4x25)	from 1 to 2	781-452 100 (4x25)	from 1 to 2	781-452 100 (4x25)
	from 1 to 3	780-453 100 (4x25)	from 1 to 3	780-453 100 (4x25)	from 1 to 3	781-453 100 (4x25)	from 1 to 3	781-453 100 (4x25)
	from 1 to 4	780-454 100 (4x25)	from 1 to 4	780-454 100 (4x25)	from 1 to 4	781-454 100 (4x25)	from 1 to 4	781-454 100 (4x25)
	from 1 to 5	780-455 50 (2x25)	from 1 to 5	780-455 50 (2x25)	from 1 to 5	781-455 50 (2x25)	from 1 to 5	781-455 50 (2x25)
	:	:	:	:	:	:	:	:
	from 1 to 8	780-458 50 (2x25)	from 1 to 8	780-458 50 (2x25)	from 1 to 6	781-456 50 (2x25)	from 1 to 6	781-456 50 (2x25)
Test plug adapter, for terminal blocks 1.5-10 mm² (AWG 16-8), 8 mm wide			Test plug adapter, for terminal blocks 1.5-10 mm² (AWG 16-8), 8 mm wide			Test plug adapter, for terminal blocks 1.5-10 mm² (AWG 16-8), 8 mm wide		
		209-170 50 (2x25)		209-170 50 (2x25)		209-170 50 (2x25)		209-170 50 (2x25)
Protective warning marker, with high-voltage symbol, for 5 terminal blocks			Protective warning marker, with high-voltage symbol, for 5 terminal blocks			Protective warning marker, with high-voltage symbol, for 5 terminal blocks		
	yellow	279-405 100 (4x25)	yellow	280-405 100 (4x25)	yellow	281-405 100 (4x25)	yellow	281-405 100 (4x25)
Operating tool, for side-entry rail-mounted terminal blocks			Operating tool, for side-entry rail-mounted terminal blocks			Operating tool, for side-entry rail-mounted terminal blocks		
		210-143 1		210-143 1		210-141 1		210-141 1
Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade			Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade			Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade		
		210-720 1		210-720 1		210-720 1		210-720 1
			<p>● Suitable for Ex i applications</p>					

Approvals are available online at: www.wago.com.
* AWG 12: THHN, THWN

For technical explanations and abbreviations, see technical section.

Through and Ground Conductor Terminal Blocks, Side-Entry 282 to 284 Series

0.2 - 6 mm² 800 V/8 kV/3 I _N 41 A Terminal block width 8 mm / 0.315 in  12 - 13 mm / 0.49 in ① Approvals	AWG 24 - 10 600 V, 30 A  600 V, 10 A 	0.2 - 10 mm² 800 V/8 kV/3 I _N 57 A Terminal block width 10 mm / 0.394 in  12 - 13 mm / 0.49 in ① Approvals	AWG 24 - 8 600 V, 50 A  600 V, 65 A 	0.2 - 16 mm² 800 V/8 kV/3 I _N 76 A Terminal block width 12 mm / 0.472 in  16 - 17 mm / 0.65 in ① Approvals	AWG 24 - 6 600 V, 65 A  600 V, 90 A 
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-conductor through terminal block			2-conductor through terminal block			2-conductor through terminal block		
	gray 282-101	50		gray 284-101	50		gray 283-101	50
	blue 282-104	50		blue 284-104	50		blue 283-104	50
2-conductor ground terminal block			2-conductor ground terminal block			2-conductor ground terminal block		
	green-yellow 282-107	50		green-yellow 284-107	50		green-yellow 283-107	50
Item-Specific Accessories			Item-Specific Accessories			Item-Specific Accessories		
End and intermediate plate, 4 mm thick			End and intermediate plate, 2.5 mm thick			End and intermediate plate, 4 mm thick		
	orange 282-302	100 (4x25)		orange 284-302	100 (4x25)		orange 283-302	50 (2x25)
	gray 282-301	100 (4x25)		gray 284-301	100 (4x25)		gray 283-301	50 (2x25)
Separator, oversized, 2 mm thick			Separator, oversized, 2 mm thick			Separator, oversized, 2 mm thick		
	orange 282-322	100 (4x25)		orange 284-322	100 (4x25)		orange 283-322	50 (2x25)
	gray 282-332	100 (4x25)		gray 284-332	100 (4x25)		gray 283-332	50 (2x25)
Accessories, 282 Series			Accessories, 284 Series			Accessories, 283 Series		
Appropriate marking system: WMB			Appropriate marking system: WMB			Appropriate marking system: WMB		
Adjacent jumper, insulated, I_N 41 A			Adjacent jumper, insulated, I_N 57 A			Adjacent jumper, insulated, I_N 70 A		
	gray 282-402	100 (4x25)		gray 284-402	100 (4x25)		gray 283-402	50 (2x25)
	yellow-green 282-422	100 (4x25)		yellow-green 284-422	100 (4x25)		yellow-green 283-422	50 (2x25)
Alternate jumper, insulated, I_N 41 A			Alternate jumper, insulated, I_N 57 A			Alternate jumper, insulated, I_N 76 A		
	gray 282-409	100 (4x25)		gray 284-409	100 (4x25)		gray 283-409	50 (2x25)
Test plug adapter, for terminal blocks 1.5 - 10 mm² (AWG 16-8), 8 mm wide			Test plug adapter, for terminal blocks 1.5 - 10 mm² (AWG 16-8), 8 mm wide			Test plug adapter, for terminal blocks 1.5 - 16 mm² (AWG 16-6), 11.6 mm wide		
	209-170	50 (2x25)		209-170	50 (2x25)		283-404	25
for 4 mm Ø test plug			for 4 mm Ø test plug			for 4 mm Ø test plug		
Step-down jumper, insulated, I_N 15 A			Step-down jumper, insulated, I_N 30 A			Step-down jumper, insulated, I_N 32 A		
	10/6 mm ² to 4/2.5/1.5 mm ² / AWG 12/14/16	50 (2x25)		10/6 mm ² /AWG 8/10 to 6/ 4 mm ² /AWG 10/12	50 (2x25)		16 mm ² /AWG 6 to 4 mm ² / AWG 12	50 (2x25)
	gray 284-414			gray 284-413			gray 283-414	
Protective warning marker, with high-voltage symbol, for 5 terminal blocks			Protective warning marker, with high-voltage symbol, for 5 terminal blocks			Protective warning marker, with high-voltage symbol, for 5 terminal blocks		
	yellow 282-405	100 (4x25)		yellow 284-405	50 (2x25)		yellow 283-405	50 (2x25)
Operating tool, for side-entry rail-mounted terminal blocks			Operating tool, for side-entry rail-mounted terminal blocks			Operating tool, for side-entry rail-mounted terminal blocks		
	210-141	1		210-141	1		210-141	1
Operating tool with partially insulated shaft, type 3, [5.5 x 0.8] mm blade			② Suitable for Ex i applications			Banana plugs, only for safety extra-low voltage (42 V)		
	210-721	1						
							red 215-212	50
							blue 215-711	50

① Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

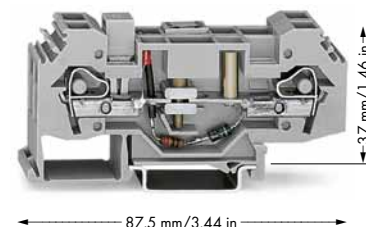
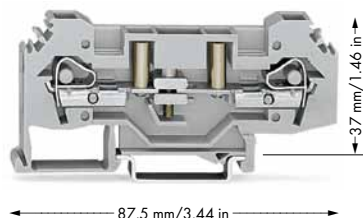
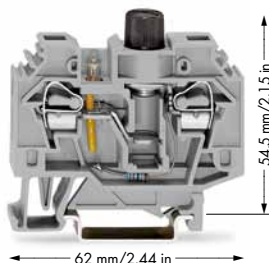
Fuse Terminal Blocks, Disconnect Terminal Blocks and Ground Conductor Disconnect Terminal Blocks 282 Series

CAGE CLAMP®

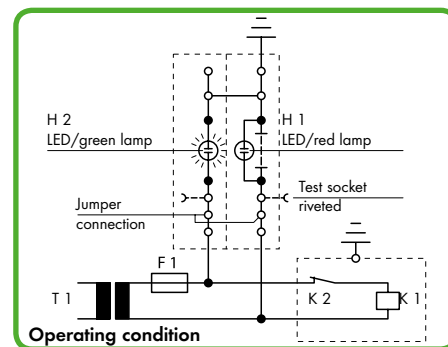
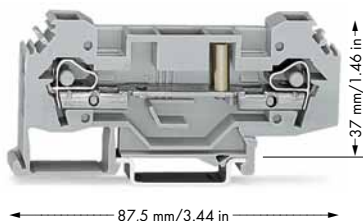
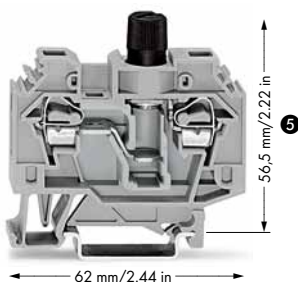
<p>0.2 - 6 mm² 220 V ≈ ③ I_N 10 A max. ③</p> <p>AWG 24 - 10 600 V, 10 A ③ ④ 250 V, 10 A ③ ④</p> <p>Terminal block width 13 mm / 0.512 in 12 - 13 mm / 0.49 in</p> <p>① Approvals</p>	<p>0.2 - 6 mm² 400 V/6 kV/3 I_N 41 A</p> <p>AWG 24 - 10 300 V, 30 A ④ 300 V, 40 A ④</p> <p>Terminal block width 8 mm / 0.315 in 12 - 13 mm / 0.49 in</p> <p>① Approvals</p>	<p>0.2 - 6 mm² AWG 24 - 10</p> <p>Terminal block width 16 mm / 0.63 in 12 - 13 mm / 0.49 in</p> <p>① Approvals</p>
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③ Electrical ratings are given by the fuse.

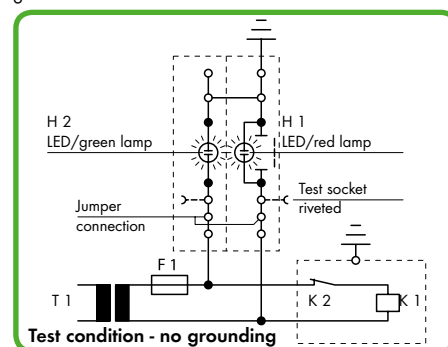
Front-entry, ground conductor disconnect terminal blocks, see page 67.



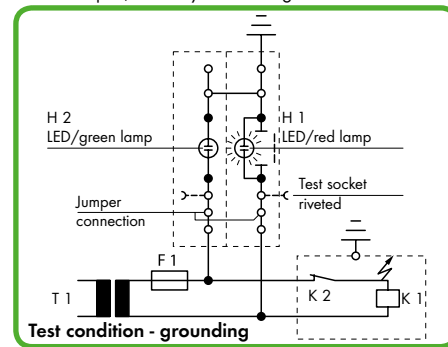
Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Voltage	Item No.	Pack. Unit	
Fuse terminal block, gray, for miniature metric fuses, with blown fuse indication by neon lamp, 250 VAC/220 VDC			Disconnect/test terminal block, with 4 mm Ø test sockets			Ground conductor disconnect terminal block, gray		
○ 5 x 20 mm	282-124 ④	40	○ gray	282-131	25	○ 24 V AC/DC	282-140	12
○ 1/4" x 1 1/4"	282-128/281-417 ⑤	40	Disconnect/test terminal block, without test sockets			○ 48 V AC/DC	282-141	12
by neon lamp, 120 V AC/DC			○ gray	282-135	25	○ 120 V AC/DC	282-138	12
○ 1/4" x 1 1/4"	282-128/281-418 ⑤	40				○ 230 V AC/DC	282-139	12
by LED, 24 VDC								
○ 1/4" x 1 1/4"	282-128/281-413 ⑤	40						



Slide link closed, auxiliary circuit grounded, green LED illuminates.



Slide link open, auxiliary circuit not grounded.



Slide link open, auxiliary circuit not grounded, red LED illuminates.

Item No.	Pack. Unit	Color	Item No.	Pack. Unit	
Fuse terminal block, gray, for miniature metric fuses, without blown fuse indication, 500 V/6 kV/3 max.		Through terminal block			
○ 5 x 20 mm	282-122 ④	40	○ gray	282-133	25
○ 1/4" x 1"	282-120 ⑤	40			
○ 1/4" x 1 1/4"	282-128 ⑤	40			

Item-Specific Accessories

End and intermediate plate, 4 mm thick			
	orange	282-312	50 (2x25)
	gray	282-311	50 (2x25)

End and intermediate plate, 4 mm thick			
	orange	282-315	50 (2x25)
	gray	282-314	50 (2x25)

Accessories, 282 Series

Appropriate marking system: **WMB**

Miniature metric fuse			
	200 (20x10)		
5 x 20 mm	282-451	6.3 A	
1/4" x 1"	282-458	10 A	
1/4" x 1 1/4"	282-457	10 A	

Adjacent jumper, insulated, I _N 41 A			
	gray	282-402	100 (4x25)

Test plug adapter, for terminal blocks 1.5-10 mm ²			
	(AWG 16-8), 8 mm wide	209-170	50 (2x25)
for 4 mm Ø test plug			

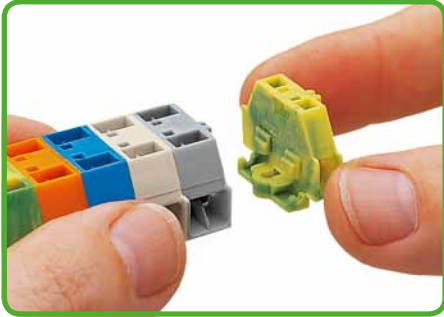
Alternate jumper, insulated, I _N 41 A			
	gray	282-409	100 (4x25)

Test plug, 6 mm wide, with CAGE CLAMP®			
	for 0.08-2.5 mm ² (AWG 28-14)		
	I _N 24 A	281-407	100 (4x25)

Lock-out, snap-on type,			
	prevents reclosing of slide link		
	orange	282-137	100 (4x25)

Modular Terminal Blocks and Terminal Strips, Side-Entry 260 to 262 Series

Assembly

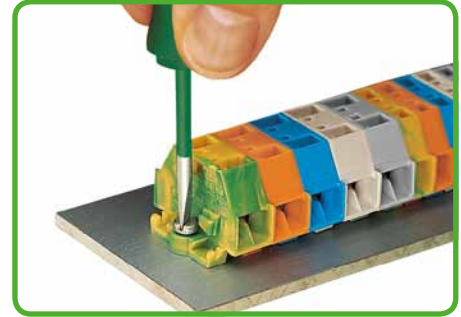


Assembling modular terminal blocks into terminal strips.



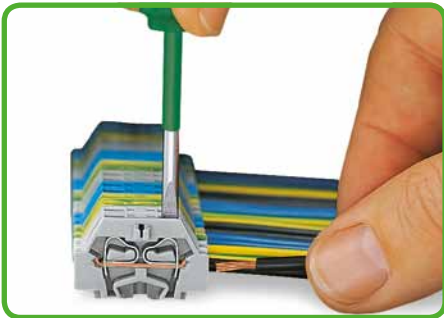
Mounting an end plate.

Mounting

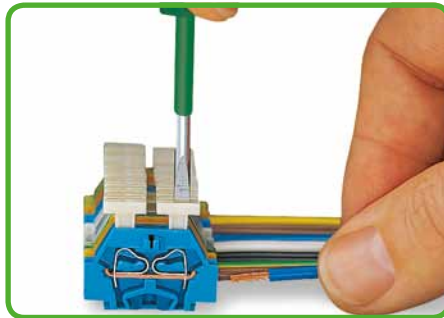


Terminal strip with fixing flanges, screw mount.

CAGE CLAMP® connection



Conductor termination



Conductor termination via push-button.

Mounting



Terminal strip with fixing flanges, screw mounting of 209-123 mounting adapter (distance between mounting adapters should be 35-40 mm).

Marking

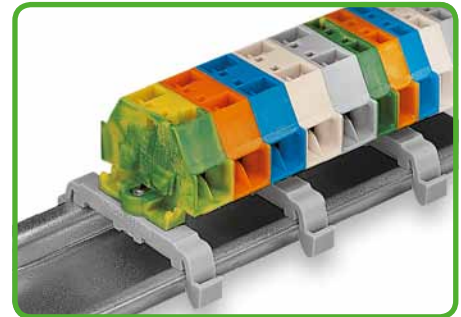


Marking with self-adhesive marker strips.



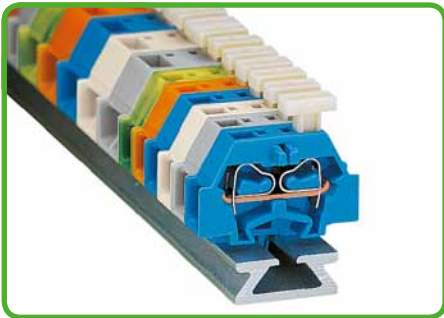
Marking by direct printing (upon request).

Mounting



Terminal strip with fixing flanges, on DIN 35 rail.

Types

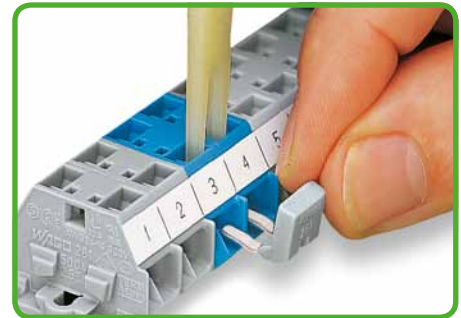


Terminal strip with push-buttons on one side.



Terminal strip with marker slot for miniature WSB Quick marking system (see Full Line Catalog, Volume 1).

Commoning



Commoning with comb-style jumper bar.

CAGE CLAMP® clamps the following copper conductors:



solid



stranded



fine-stranded



tip-bonded



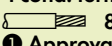


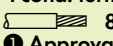




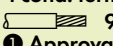


with crimped ferrule*

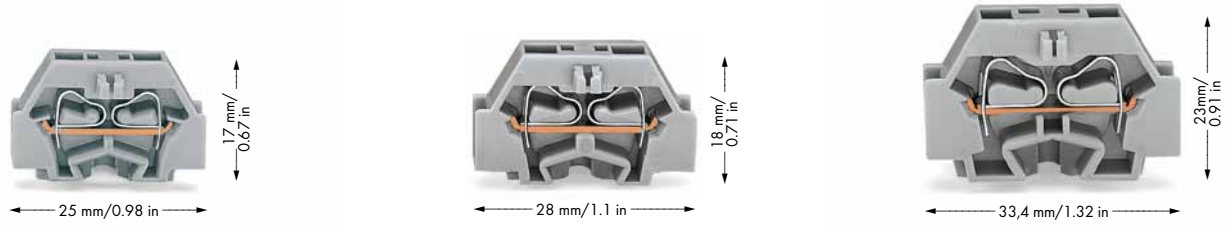





with pin terminal

*With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section. Strip length, see packaging or instructions.

Modular Terminal Blocks and Terminal Strips 260 to 262 Series

<p>0.08 - 1.5 mm² 400 V/6 kV/3 I_N 18 A 2-cond. terminal block width 5 mm/0.197 in. 4-cond. terminal block width 8 mm/0.315 in.</p>  <p>8 - 9 mm / 0.33 in</p> <p>① Approvals</p>	<p>AWG 28 - 16 300 V, 10 A  300 V, 15 A </p>	<p>0.08 - 2.5 mm² 500 V/6 kV/3 I_N 24 A 2-cond. terminal block width 6 mm/0.236 in 4-cond. terminal block width 10 mm/0.394 in</p>  <p>8 - 9 mm / 0.33 in</p> <p>① Approvals</p>	<p>AWG 28 - 14 300/600 V, 15 A  300/600 V, 20 A </p>	<p>0.08 - 4 mm² 630 V/8 kV/3 I_N 24 A  (32 A ) 2-cond. terminal block width 7 mm/0.276 in 4-cond. terminal block width 12 mm/0.472 in</p>  <p>9 - 10 mm / 0.37 in</p> <p>① Approvals</p>	<p>AWG 28 - 12 300/600 V, 20 A  300/600 V, 20 A </p>
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Color	Item No. 2-cond.	Item No. 4-cond.	Pack. Unit	Color	Item No. 2-cond.	Item No. 4-cond.	Pack. Unit	Color	Item No. 2-cond. ②	Item No. 4-cond. ③	Pack. Unit
gray	260-301	260-331	300 (6x50)	gray	261-301	261-331	200 (4x50)	gray	262-301	262-331	100 (2x50)
light gray	260-303	260-333	300 (6x50)	light gray	261-303	261-333	200 (4x50)	light gray 	262-130	262-230	100 (2x50)
blue	260-304	260-334	300 (6x50)	blue 	261-304	261-334	200 (4x50)	blue 	262-304	262-334	100 (2x50)
orange	260-306	260-336	300 (6x50)	orange	261-306	261-336	200 (4x50)	orange	262-306	262-336	100 (2x50)
green-yellow	260-307	260-337	300 (6x50)	green-yellow	261-307	261-337	200 (4x50)	green-yellow	262-307	262-337	100 (2x50)
Versions with push-buttons, see bottom right.											



Color	Item No. 2-cond.	Item No. 4-cond.	Pack. Unit	Color	Item No. 2-cond.	Item No. 4-cond.	Pack. Unit	Color	Item No. 2-cond. ②	Item No. 4-cond. ③	Pack. Unit
Terminal strip with fixing flanges, gray											
2	260-102	260-202	100	2	261-102	261-202	100	2	262-102	262-202	100
3	260-103	260-203	100	3	261-103	261-203	100	3	262-103	262-203	100
:	:	:		:	:	:		:	:	:	
12	260-112	260-212	25	12	261-112	261-212	25	12	262-112	262-212	25

Accessories, 260/261/262 Series

Appropriate marking system, see Section 6.

<p>End plate with fixing flange, gray</p>  <p>for 260 Series gray 260-361 100 (2x50)</p> <p>for 261 Series gray 261-361 100 (2x50)</p> <p>for 262 Series gray 262-361 50</p>	<p>Mounting foot with screw, for DIN 35 rail, 6 mm wide, can be screwed on terminal blocks with fixing flange</p>  <p>gray 209-123 25</p>	<p>Item no. suffix for terminal blocks and terminal strips with push-buttons, for 261 Series only.</p> <p>With push-buttons on one side:</p>  <p>2-cond. block 261-.../331-000</p> <p>4-cond. block 261-.../332-000</p>																					
<p>Comb-style jumper bar, insulated, 2-way</p> 	<p>Test plug module</p>  <p>100 (4x25)</p>	<p>With push-buttons on both sides:</p>  <p>2-cond. block 261-.../341-000</p> <p>4-cond. block 261-.../342-000</p>																					
<p>Operating tool, insulated, for inserting comb-style jumper bars</p>  <p>2-way 209-132 1</p>	<p>Locking devices</p> <table border="1"> <thead> <tr> <th>Series</th> <th>with</th> <th>without</th> </tr> </thead> <tbody> <tr> <td>260 / 5 mm</td> <td>260-404</td> <td>249-135</td> </tr> <tr> <td>8 mm</td> <td>260-405</td> <td>249-138</td> </tr> <tr> <td>261 / 6 mm</td> <td>261-404</td> <td>249-136</td> </tr> <tr> <td>10 mm</td> <td>261-405</td> <td>249-139</td> </tr> <tr> <td>262 / 7 mm</td> <td></td> <td>249-137</td> </tr> <tr> <td>12 mm</td> <td></td> <td>249-140</td> </tr> </tbody> </table>	Series	with	without	260 / 5 mm	260-404	249-135	8 mm	260-405	249-138	261 / 6 mm	261-404	249-136	10 mm	261-405	249-139	262 / 7 mm		249-137	12 mm		249-140	<p>Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade</p>  <p>210-720 1</p>
Series	with	without																					
260 / 5 mm	260-404	249-135																					
8 mm	260-405	249-138																					
261 / 6 mm	261-404	249-136																					
10 mm	261-405	249-139																					
262 / 7 mm		249-137																					
12 mm		249-140																					

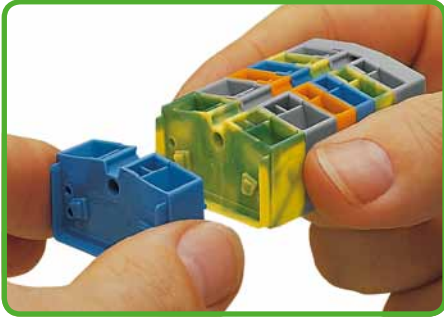
① Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.



Modular Terminal Blocks and Terminal Strips, Front-Entry 264 Series

Assembly

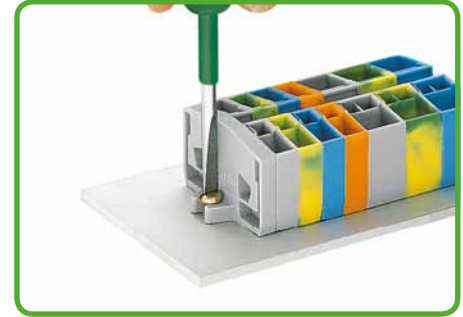


Assembling modular terminal blocks into terminal strips.



Mounting an "end terminal block" with fixing flange.

Mounting



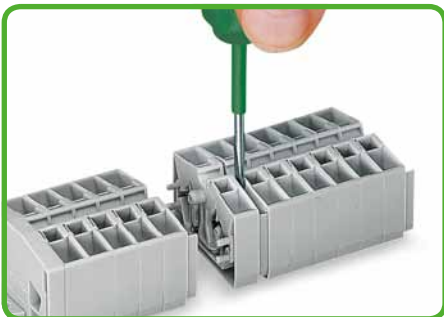
Terminal strip with fixing flanges, screw mount.

CAGE CLAMP® connection

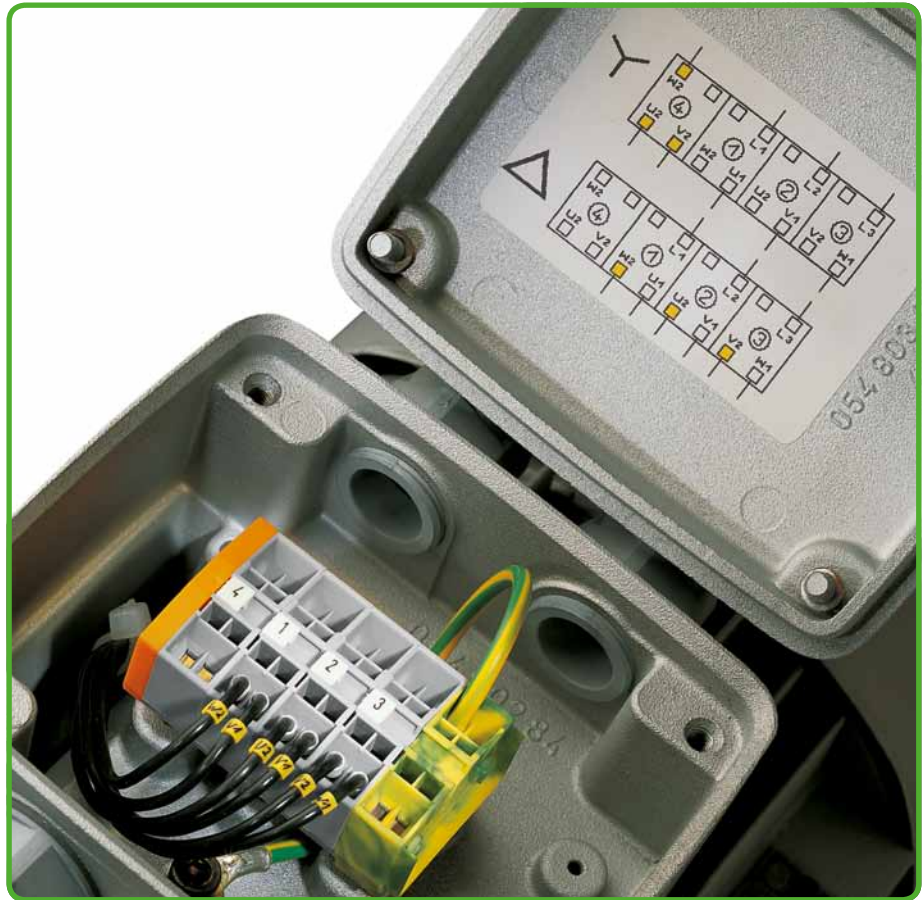


Inserting a conductor via operating tool.

Removal



Removing a terminal block.

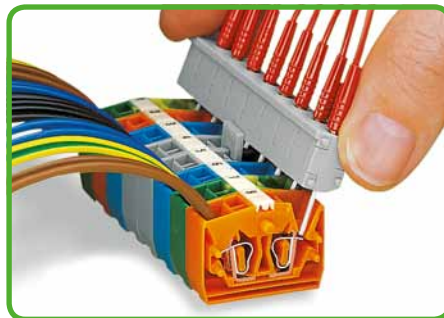


Commoning



Commoning with comb-style jumper bar.

Testing



Testing with test plug module assembly - touch contact.

Marking



Marking using Miniature WSB Quick markers.

CAGE CLAMP® clamps the following copper conductors:



solid



stranded



fine-stranded



tip-bonded



with crimped ferrule*



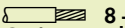



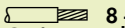







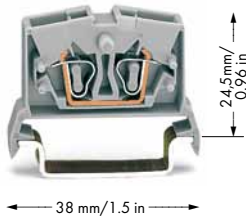
with pin terminal

























































*With ferruled conductors, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.


Strip length, see packaging or instructions.

Modular Terminal Blocks and Terminal Strips 264 Series

<p>0.08 - 2.5 mm² 800 V/8 kV/3 I_N 24 A</p> <p>AWG 28 - 12** 600 V, 20 A  600 V, 20 A </p> <p>2-cond. terminal block width 6 mm/0.236 in 4-cond. terminal block width 10 mm/0.394 in</p> <p> 8 - 9 mm / 0.33 in</p> <p> Approvals</p>	<p>0.08 - 2.5 mm² 800 V/8 kV/3 I_N 24 A</p> <p>AWG 28 - 12** 600 V, 20 A  600 V, 20 A </p> <p>2-cond. terminal block width 6 mm/0.236 in 4-cond. terminal block width 10 mm/0.394 in</p> <p> 8 - 9 mm / 0.33 in</p> <p> Approvals</p>	<p>0.08 - 2.5 mm² 800 V/8 kV/3 I_N 24 A</p> <p>AWG 28 - 12** 600 V, 20 A  600 V, 20 A </p> <p>2-cond. terminal block width 6 mm/0.236 in 4-cond. terminal block width 10 mm/0.394 in</p> <p> 8 - 9 mm / 0.33 in</p> <p> Approvals</p>
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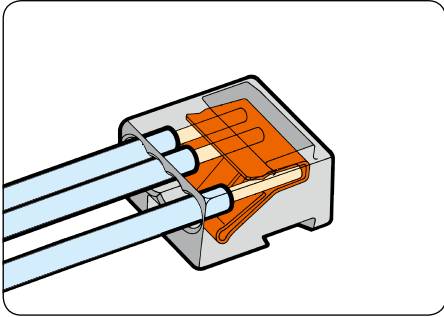


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit																		
2-cond. block			4-cond. block			2-cond. block			4-cond. block																	
Through terminal block, for DIN 35 rail									Center terminal block without fixing flange									Terminal strip with fixing flanges, gray								
	264-711	264-731	100		264-321	264-351	100		2	264-102	264-202	100														
	264-714	264-734	100		264-324	264-354	100		3	264-103	264-203	100														
	264-716	264-736	100		264-326	264-356	100		4	264-104	264-204	100														
 	264-125	264-225	100	 	264-131	264-231	100	:	:	:	:	:														
End terminal block with fixing flange									Terminal strip with snap-in mounting feet, gray																	
	264-301	264-331	100		264-301	264-331	100		2	264-152	264-252	100														
	264-304	264-334	100		264-304	264-334	100		3	264-153	264-253	100														
	264-306	264-336	100		264-306	264-336	100		4	264-154	264-254	100														
	264-307	264-337	100		264-307	264-337	100	:	:	:	:	:														
 	264-130	264-230	100	 	264-130	264-230	100		10	264-160	264-260	25														
Center terminal block with snap-in mounting foot									For terminal strips mixed in different colors, please contact factory.																	
	264-311	264-341	100		264-311	264-341	100		11	264-161	264-261	25														
	264-314	264-344	100		264-314	264-344	100		12	264-162	264-262	25														
	264-316	264-346	100		264-316	264-346	100																			
	264-317	264-347	100		264-317	264-347	100																			
 	264-180	264-280	100	 	264-180	264-280	100																			
4-conductor ground terminal block, for DIN 35 rail									End plates for DIN 35 rail,																	
	264-737	100								4 mm thick																
 	264-737/999-950	100							orange	264-369	25															
									gray	264-368	25															
									light gray	264-370	25															
									End plates with fixing flange,																	
										4 mm thick																
									gray	264-361	25															
									orange	264-364	25															
									light gray	264-363	25															
									End plate, for blocks with snap-in mounting foot,																	
										4 mm thick																
									gray	264-371	25															
									orange	264-374	25															
									light gray	264-373	25															
Accessories, 264 Series									Appropriate marking system: Miniature WSB																	
Comb-style jumper bar, insulated, I_N 16 A, 2-way									Operating tool, insulated, 2-way,																	
																										
264-402 200 (8x25)									for comb-style jumper bar																	
reduces maximum conductor size to 1.5 mm ² /AWG 16									280-432 1																	
Alternate comb-style jumper bar, insulated,									Aluminum carrier rail, 1000 x 18 x 7 mm,																	
																										
I _N = I _N terminal block, for 2-conductor blocks									for version with mounting feet																	
280-492 200 (8x25)									210-154 1																	
for 4-conductor blocks									Plastic end stop, with WSB marker slot,																	
281-492 100 (4x25)																										
									6 mm wide,																	
									for 210-154 aluminum rail																	
									gray 209-122 1																	
Separator for Ex e /Ex i applications, 66 mm wide,									 <p>Suitable for Ex i applications  Suitable for Ex e II applications 0.5 - 2.5 mm² AWG 20 - 12** 690 V, 23 A</p>																	
4 mm thick																										
orange 264-367 25																										
DIN 35 rails and end stops, see Section 6																										

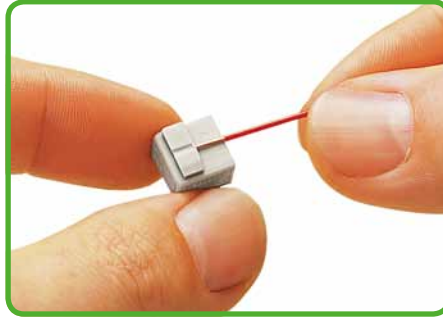
 All approvals and more information at www.wago.com.
 **AWG 12: THHN, THWN

For technical explanations and abbreviations, see technical section.
 Please find the entire product range in our Full Line Catalog, Volume 1.

MICRO PUSH WIRE® Connectors for Junction Boxes, 243 Series – Description and Handling –



Strip length



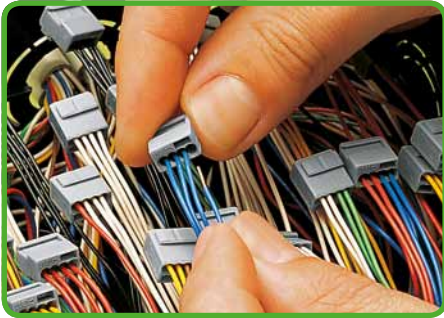
Strip solid conductor to 5 – 6 mm / 0.22 in.

Connector strips



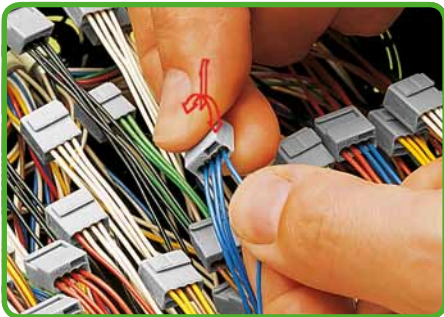
Assembling modular connectors to connector strips

PUSH WIRE® connection



Termination: Insert stripped conductor until it hits backstop.

PUSH WIRE® connection



Removal: Hold conductor to be removed and twist alternately left and right while pulling the connector.



Testing

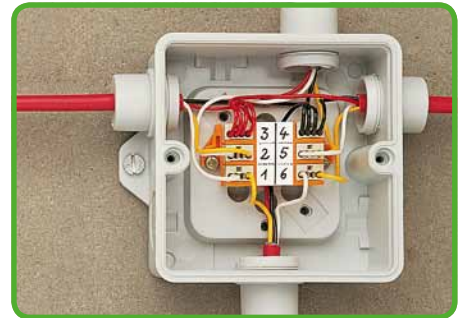


Testing

Applications



Switch (specialty connectors with solder pin termination)



Typical application in a terminal box for burglar alarm – screw mount.

PUSH WIRE® clamps
the following copper conductors:









solid

Strip length, see packaging or instructions.




Connectors for **EIB** applications, see Full Line Catalog, Volume 2.

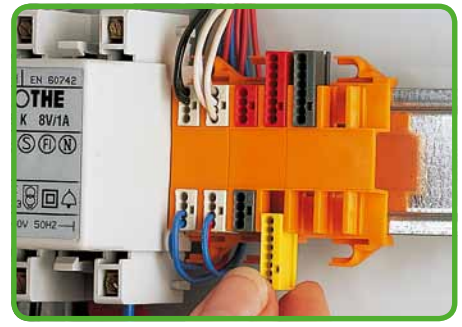
MICRO PUSH WIRE® Connectors for Junction Boxes, Mounting Carriers 243 Series

<p>0.6 - 0.8 mm Ø "sol."** AWG 22 - 20 "sol."** 100 V/1.5 kV/2 150 V, 7 A  I_N 6 A</p> <p> 5 - 6 mm / 0.22 in</p> <p> Approvals</p>	<p>0.6 - 0.8 mm Ø "sol."** AWG 22 - 20 "sol."** 100 V/1.5 kV/2 150 V, 7 A  I_N 6 A</p> <p> 5 - 6 mm / 0.22 in</p> <p> Approvals</p>	<p>Mounting carriers for MICRO PUSH WIRE® connectors</p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Description	Item No.	Pack. Unit
MICRO PUSH WIRE® connector for junction boxes, 4-conductor connector			MICRO PUSH WIRE® connector for junction boxes, 8-conductor connector			Mounting carrier, for 4 connectors		
● dark gray	243-204	1000 (10x100)	● dark gray	243-208	500 (10x50)	for 6 connectors	243-112	50 (5x10)
● red	243-804	1000 (10x100)	● red	243-808	500 (10x50)	Marking strips, plain	243-113	50 (5x10)
○ light gray	243-304	1000 (10x100)	○ light gray	243-308	500 (10x50)		243-110	1
● yellow	243-504	1000 (10x100)	● yellow	243-508	500 (10x50)			

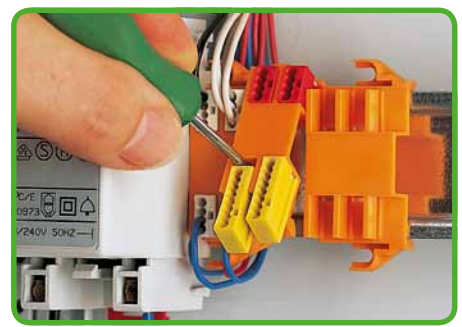
<p>0.4 - 0.5 mm Ø "sol."** AWG 26 - 24 "sol."** 100 V/1.5 kV/2 150 V, 7 A  I_N 6 A</p> <p> 5 - 6 mm / 0.22 in</p> <p> Approvals</p>
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Inserting a connector into the mounting carrier.

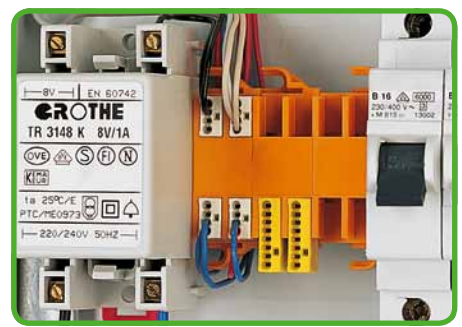
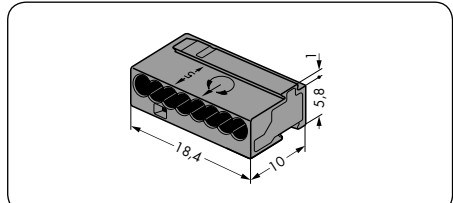
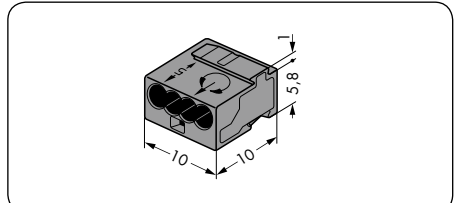


Color	Item No.	Pack. Unit
MICRO PUSH WIRE® connector for junction boxes, 4-conductor connector		
○ transparent	243-144	1000 (10x100)




Removing a mounting carrier from the DIN rail.

Dimensions



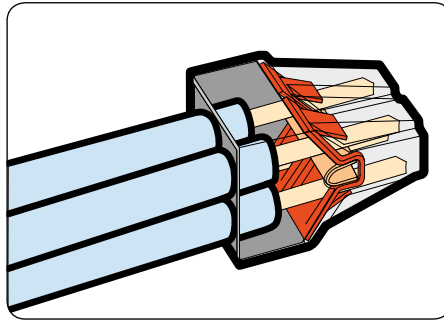
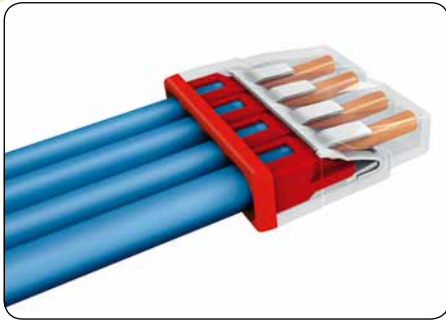
Example of residential door bell application - mounted on DIN 35 rail.

 Approvals are available online at: www.wago.com. For technical explanations and abbreviations, see technical section.
*When using conductors of exclusively the same diameter, 0.5 mm/AWG 24 or 1.0 mm/AWG 18 diameters are also possible.

PUSH WIRE® Connectors for Junction Boxes

273 / 773 / 2273 Series

- Description and Handling -



PUSH WIRE® Connectors for Junction Boxes, 273 Series

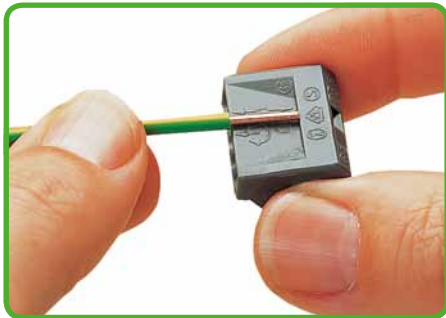
0.75 – 1.5 mm² "sol." ① | AWG 18 – 16 "sol."
 400 V / 4 kV / 2** | 600 V, 20 A ②
 I_N 18 A | 600 V, 10 A ③

10 – 13 mm / 0.45 in

③ Approvals



Strip length



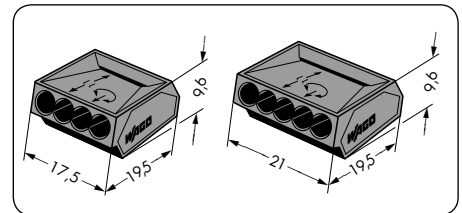
Strip solid conductor to 10 – 13 mm (0.39 – 0.51 in).

Testing



Testing

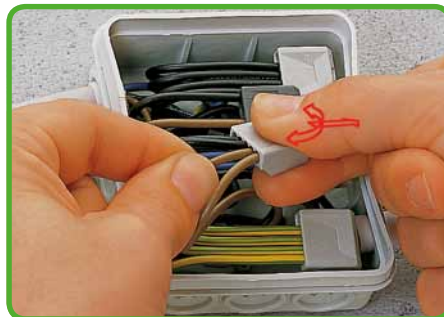
Color	Item No.	Item No.	Pack.	Unit
PUSH WIRE® connector for junction boxes				
3 cond.	● 273-100	○ 273-153	1000	



PUSH WIRE® connection



Termination: Insert stripped solid conductor until it hits backstop.



Removal: Hold conductor to be removed and twist alternately left and right while pulling the connector.

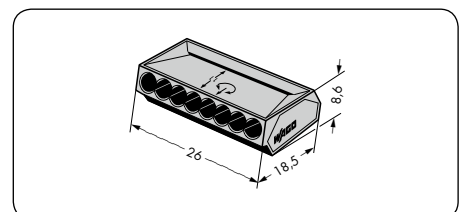
0.75 – 1.5 mm² "sol." ① | AWG 18 – 16 "sol."
 400 V / 4 kV / 2** | 600 V, 20 A ②
 I_N 18 A | 600 V, 10 A ③

10 – 13 mm / 0.45 in

③ Approvals



Color	Item No.	Item No.	Pack.	Unit
PUSH WIRE® connector for junction boxes				
5 cond.	● 273-101	○ 273-155	1000	
8 cond.	● 273-108	○ 273-158	500	



FIXED IN POSITION – on a DIN 35 rail (273 Series mounting carrier)



FIXED IN POSITION – on a DIN 35 rail (773 Series mounting carrier)

PUSH WIRE® clamps the following copper conductors:



solid, 273, 773 and 2273 Series



stranded, 773 Series only

Strip length, see packaging or instructions.

PUSH WIRE® Connectors for Junction Boxes

COMPACT PUSH WIRE® Connectors for Junction Boxes

PUSH WIRE®

1

91

273 Series

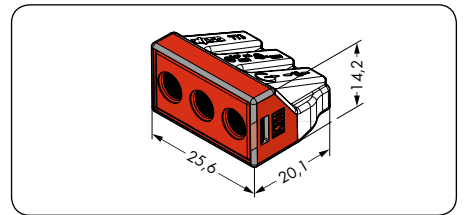
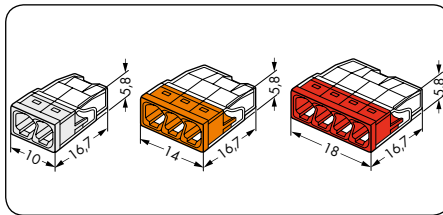
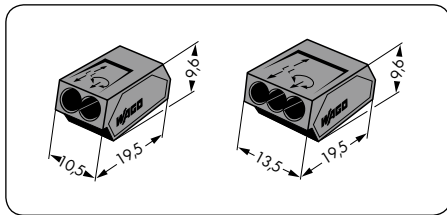
2273 Series

773 Series

<p>1 – 2.5 mm² "sol." ① AWG 14 – 12 "sol." 400 V/4 kV/2** 600 V, 20 A ④ I_N 24 A</p> <p>10 – 13 mm / 0.45 in</p> <p>③ Approvals</p>	<p>0.5 – 2.5 mm² "sol." ① AWG 18 – 14 "sol." 450 V/4 kV/2** 600 V, 20 A ④ I_N 24 A</p> <p>11 mm / 0.43 in</p> <p>③ Approvals</p>	<p>2.5 – 6 mm² "s+st" AWG 14 – 10 "s+st" 400 V/4 kV/2** 600 V, 20 A ④ I_N 41 A 600 V, 30 A ④</p> <p>12 – 13 mm / 0.49 in</p> <p>③ Approvals</p>
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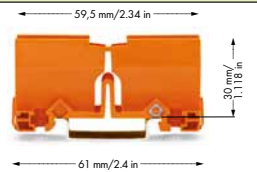
Color	Item No.	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	
PUSH WIRE® connector for junction boxes				COMPACT PUSH WIRE® connector for junction boxes, Housing color: transparent				PUSH WIRE® connector for junction boxes, transparent housing		
2 cond.	273-112	273-252	1000	2 cond.	2273-202	1000 (10x100)	3 cond.	773-173	500 (10x50)	
3 cond.	273-104	273-253	1000	3 cond.	2273-203	1000 (10x100)				
4 cond.	273-102	273-254	1000	4 cond.	2273-204	1000 (10x100)				



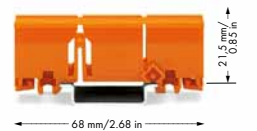
<p>1 – 2.5 mm² "sol." ① AWG 14 – 12 "sol." 400 V/4 kV/2** 600 V, 20 A ④ I_N 24 A</p> <p>10 – 13 mm / 0.45 in</p> <p>③ Approvals</p>	<p>0.5 – 2.5 mm² "sol." ① AWG 18 – 12 "sol." ④ 450 V/4 kV/2** 600 V, 20 A ④ I_N 24 A</p> <p>12 mm / 0.47 in ④</p> <p>③ Approvals</p>	<p>0.5 – 2.5 mm² "sol." ① AWG 18 – 14 "sol." 450 V/4 kV/2** 600 V, 20 A ④ I_N 24 A</p> <p>11 mm / 0.43 in</p> <p>③ Approvals</p>	<p>Mounting carrier for 273 and 773 Series PUSH WIRE® connectors for junction boxes</p> <p>for 2273 Series COMPACT PUSH WIRE® connectors for junction boxes</p>
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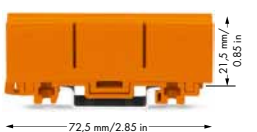
273 Series



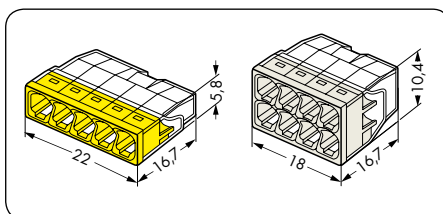
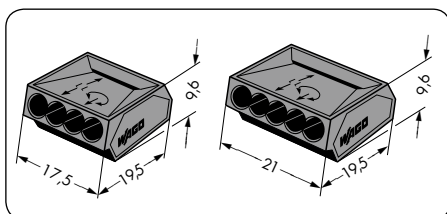
773 Series



2273 Series



Color	Item No.	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PUSH WIRE® connector for junction boxes				COMPACT PUSH WIRE® connector for junction boxes, Housing color: transparent		
5 cond.	273-105	273-255	1000	5 cond.	2273-205	1000 (10x100)
8 cond.	773-108 ④		500	8 cond.	2273-208	500 (10x50)



Color	Item No.	Pack. Unit
Mounting carrier		
orange	273-150	50 (5x10)
orange	773-332	50 (5x10)
orange	2273-500	50 (5x10)
Self-adhesive marking strips, plain		
white	210-334	1

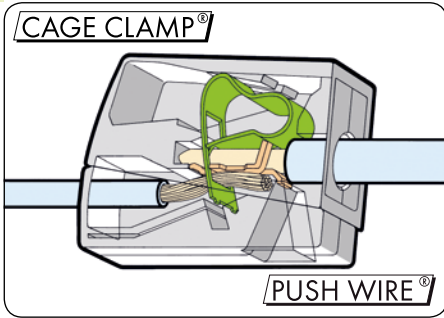
When using conductors of the same diameter only, ① 0.5 mm²/AWG 20 ② or 0.75 mm²/AWG 18 are also possible. ** In grounded power lines ③ Approvals are available online at: www.wago.com. For technical explanations and abbreviations, see technical section.



Lighting Connectors and "Service" Connectors 224 Series

PUSH WIRE®

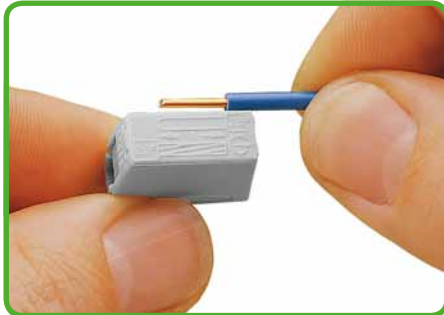
CAGE CLAMP®



Installation side 1 - 2.5 mm ² "sol." Lighting side 0.5 - 2.5 mm ² "s+f-st" 400 V/4 kV/2*, I _N 24 A 9 - 11 mm / 0.39 in 1 Approvals	AWG 14 - 12 AWG 20 - 16 300 V, 20 A (UL)	Installation side 2 x 1.0 - 2.5 mm ² "sol." Lighting side 0.5 - 2.5 mm ² "s+f-st" 400 V/4 kV/2*, I _N 24 A 9 - 11 mm / 0.39 in 1 Approvals	AWG 16 - 14 AWG 20 - 16 300 V, 20 A (UL)
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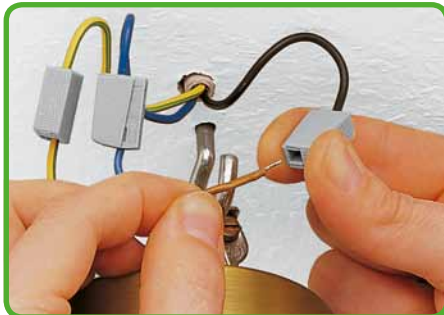


Strip length



Strip conductor to 9 - 11 mm/0.39 in.

Conductor termination



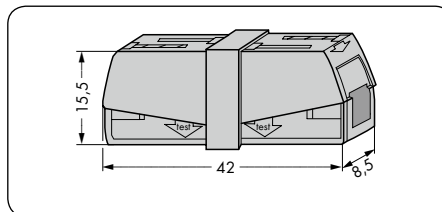
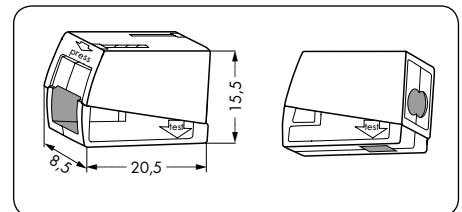
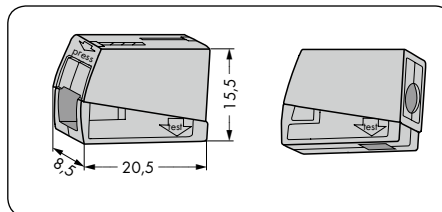
Lighting-side termination:
Press button, insert stripped conductor into square entry and release.



Installation-side termination:
Insert stripped solid conductor into circular entry and push until it hits the backstop.

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Lighting connector, standard version, continuous service temperature: 105°C			2-conductor lighting connector, standard version, continuous service temperature: 105°C		
● gray	224-101	1000	○ white	224-112	1000
Version for increased continuous service temperature of 120°C			Version for increased continuous service temperature of 120°C		
● black	224-104	100	● black	224-114	100
"Service" connector ● gray 224-201 50					

Dimensions and Handling



Testing through separate test slot.

CAGE CLAMP® clamps the following copper conductors:



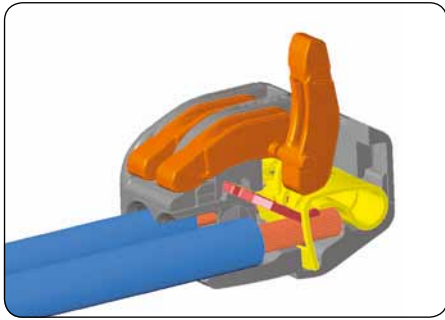
PUSH WIRE® clamps the following copper conductors:



1 Approvals are available online at: www.wago.com.

Strip length, see packaging or instructions.

Compact Splicing Connectors for Fine-Stranded Conductors 222 Series

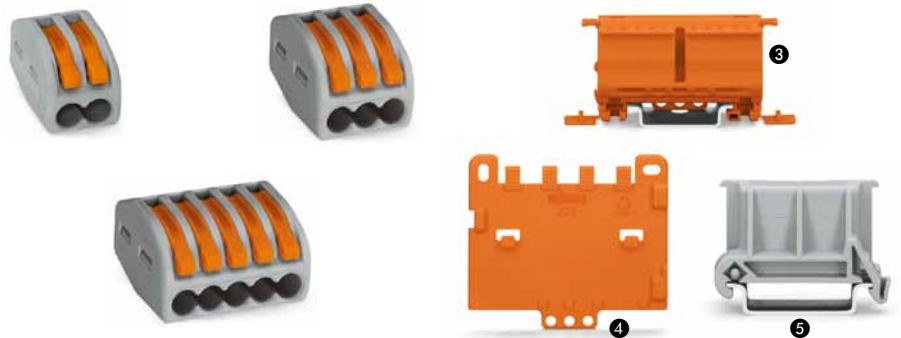


0.08 - 2.5 mm² "s+st"
0.08 - 4 mm² "f-st"
400 V/4 kV/2*
I_N 32 A

AWG 28 - 14 "s+f-st"
AWG 28 - 12 "f-st"
600 V, 20 A Ⓢ

Mounting carrier,
strain relief plate and
angled DIN-rail adapter
for 222 Series compact splicing connectors

9 - 10 mm / 0.37 in
Approvals



Strip length



Strip conductor to 9 - 10 mm / 0.37 in.

CAGE CLAMP® COMPACT connection



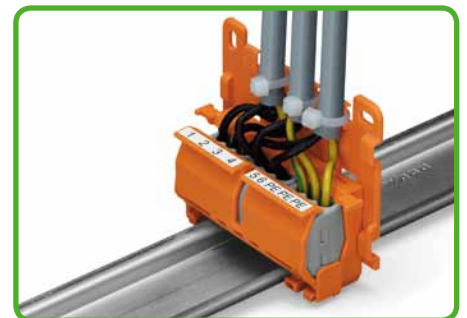
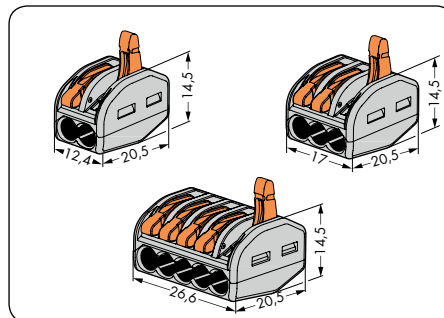
Conductor termination: Open clamping unit using the lever and insert conductor.



Then, lower lever to close the clamp.

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Compact splicing connector, with levers, max. continuous service temperature: 85 °C			Mounting carrier ③, for 2, 3 and 5-conductor compact splicing connectors		
Orange	222-500	50 (5x10)	Orange	222-500	50 (5x10)
2-conductor connector			Strain relief plate ④, for mounting carrier		
Gray	222-412	500	Orange	222-505	50 (5x10)
3-conductor connector			Angled DIN-rail adapter ⑤, for DIN 35-rail mounting		
Gray	222-413	500	Gray	222-510	50 (5x10)
5-conductor connector			Self-adhesive marking strips, plain		
Gray	222-415	400	White	210-334	1 card

Dimensions and Handling



Vertical mounting with strain relief plate on DIN 35 rail. Marking clamping units via marking strips.



Wiring fine-stranded conductors in a junction box.



Testing connectors via test slots on top of the carrier.

CAGE CLAMP® clamps the following copper conductors:

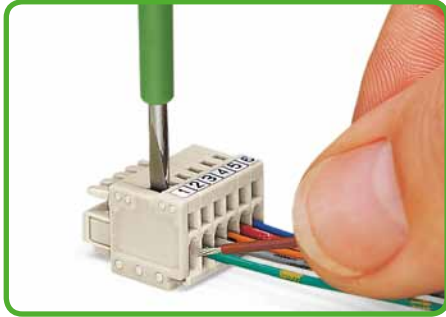


② With ferruled conductors, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.
For technical explanations and abbreviations, see technical section.
* In grounded power lines

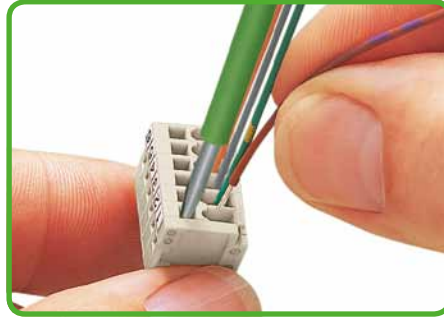
MULTI CONNECTION SYSTEM MICRO, MINI and MIDI

Description and Handling

CAGE CLAMP® connection

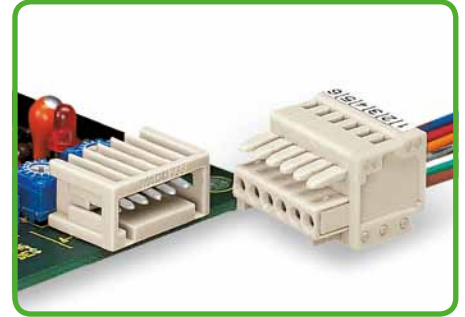


Inserting conductor via (2.5 x 0.4) mm screwdriver. Operation perpendicular to conductor entry.



Inserting conductor via (2.5 x 0.4) mm screwdriver. Operation parallel to conductor entry.

Protection against mismatching

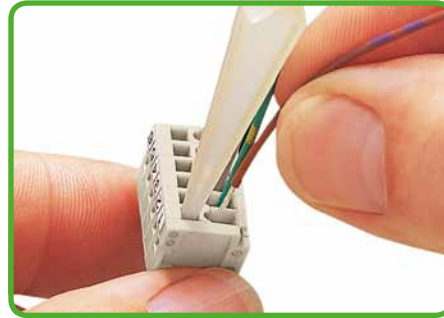


Male header and female connector - 100% protected against mismatching. Only mating halves with the same pole number can be connected together.

CAGE CLAMP® connection

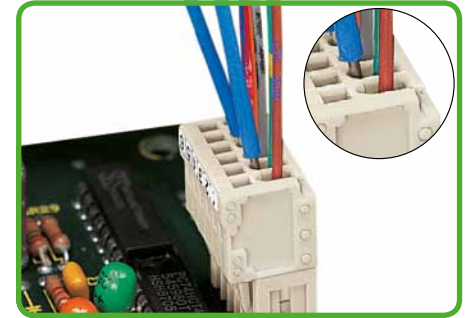


Inserting conductor via 734-230 operating lever.



Inserting conductor via 233-332 operating tool. Operation parallel to conductor entry.

Testing

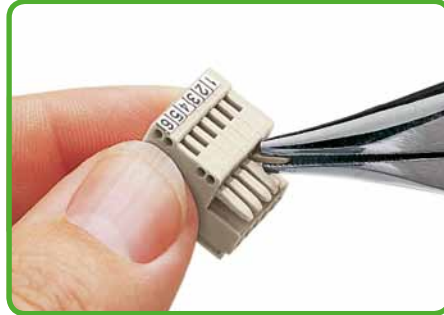


Testing with 1 mm Ø test probe, item no. 735-500, tip contact

Coding

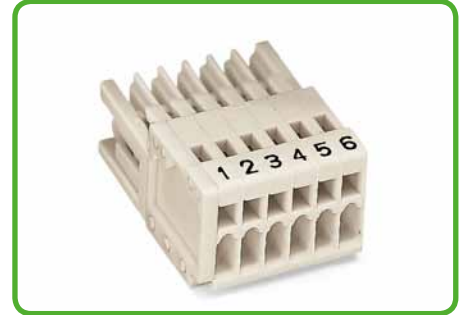


Coding a male header - fitting coding key(s).



Coding a female connector - removing coding finger(s).

Marking



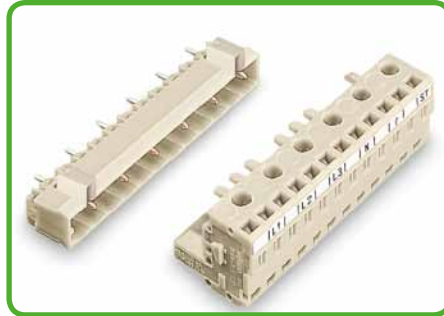
Marking by direct printing or using self-adhesive marker strips.

Insulation stop



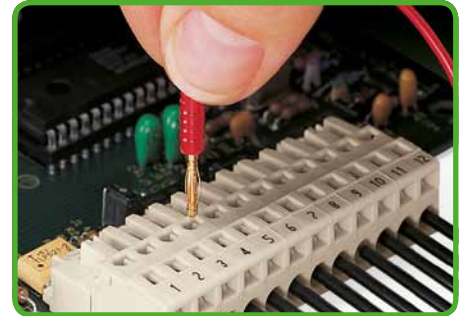
The insulation stop prevents the insulation of smaller conductors from being inserted into the clamping unit.

Pin spacing 10 mm/0.394 in



For 10 mm pin spacing, please contact factory.

Testing



Testing with 2 mm or 2.3 mm Ø test plug.

CAGE CLAMP® clamps the following copper conductors:



solid



stranded



fine-stranded









tip-bonded



with ferrule

Strip length, see packaging or instructions.

MULTI CONNECTION SYSTEM MICRO – 100% Protected Against Mismatching Male Headers with Solder Pins; Male and Female Connectors, Pin Spacing 2.5 mm












Pin spacing 2.5 mm/0.098 in, light gray 250 V/2.5 kV/2 I_N 4 A	150 V, 4 A	Pin spacing 2.5 mm/0.098 in, light gray 0.08 - 0.5 mm ² 250 V/2.5 kV/2 I_N 4 A	AWG 28 - 20 150 V, 4 A	Pin spacing 2.5 mm/0.098 in, light gray 0.08 - 0.5 mm ² 250 V/2.5 kV/2 I_N 4 A	AWG 28 - 20 150 V, 4 A
 5 - 6 mm / 0.22 in		 5 - 6 mm / 0.22 in		 5 - 6 mm / 0.22 in	
 Approvals		 Approvals		 Approvals	

CAGE CLAMP®



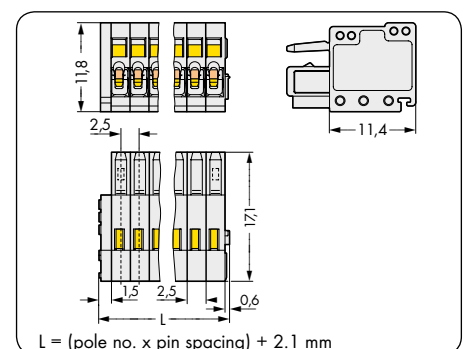
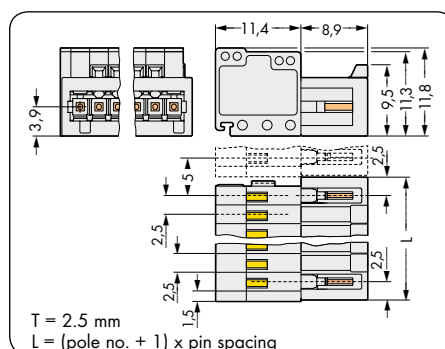
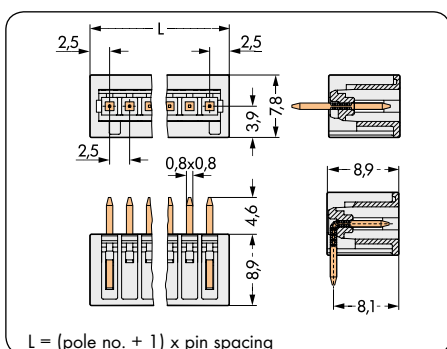
Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit		
Male header with solder pins, 100% protected against mismatching, light gray				Male connector with CAGE CLAMP®, 100% protected against mismatching, light gray				Female connector with CAGE CLAMP®, 100% protected against mismatching, with coding fingers, light gray			
	Solder pin (0.8 x 0.8) mm										
		straight	angled								
○ 2	733-332	733-362	200	○ 2	733-202	200	○ 2	733-102	200		
○ 3	733-333	733-363	200	○ 3	733-203	200	○ 3	733-103	200		
○ 4	733-334	733-364	200	○ 4	733-204	200	○ 4	733-104	200		
○ 5	733-335	733-365	200	○ 5	733-205	100	○ 5	733-105	100		
○ 6	733-336	733-366	200	○ 6	733-206	100	○ 6	733-106	100		
○ 7	733-337	733-367	200	○ 7	733-207	100	○ 7	733-107	100		
○ 8	733-338	733-368	200	○ 8	733-208	100	○ 8	733-108	100		
○ 9	733-339	733-369	200	○ 9	733-209	100	○ 10	733-110	100		
○ 10	733-340	733-370	200	○ 10	733-210	100	○ 12	733-112	50		
○ 12	733-342	733-372	100	○ 12	733-212	50					

Accessories, 733 Series

Coding key, snap-on type  white 733-330 100	Coding key, snap-on type  white 733-330 100	Operating tool with partially insulated shaft, type 1, (2.5x0.4)mm blade  210-719 1
	Operating tool, partially insulated  233-335 1  insulated 233-332 25	Operating tool, partially insulated  233-335 1  insulated 233-332 25
Note: These connectors shall only be mated or unmated at voltages below 42V and in the "no load" condition. For mating and unmating at low power values, please request data.	Marker card, 100 self-adhesive  strips per card, 1 - 16 (400x) marking 210-331/250-202	Marker card, 100 self-adhesive  strips per card, 1 - 16 (400x) marking 210-331/250-202
	Strain relief plate, pre-assembled  Item no. suffix Width: 6 mm 12.5 mm .../032-000 .../033-000	Strain relief plate, pre-assembled  Item no. suffix Width: 6 mm 12.5 mm .../032-000 .../033-000

Dimensions

Drilled hole diameter: 1.1^{+0.1} mm



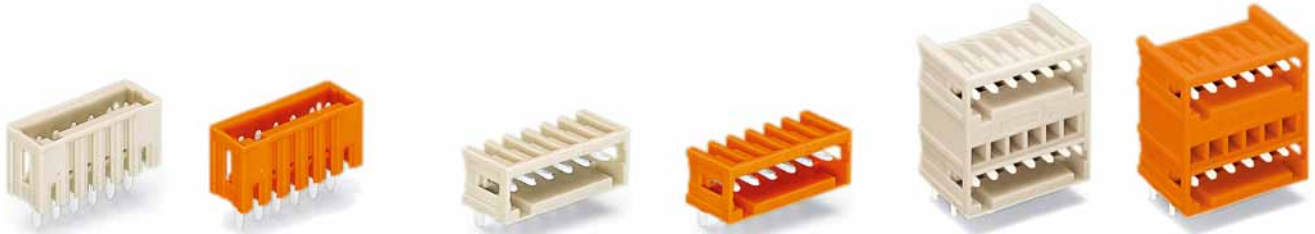
Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

MULTI CONNECTION SYSTEM MINI – 100% Protected Against Mismatching

Male Headers with Solder Pins; Double-Deck Male Headers with Solder Pins, Pin Spacing 3.5 mm and 3.81 mm

Pin spacing 3.5 mm/0.138 in, light gray Pin spacing 3.81 mm/0.15 in, orange 160 V/2.5 kV/2 300 V, 10 A I _N 10 A 300 V, 10 A	Pin spacing 3.5 mm/0.138 in, light gray Pin spacing 3.81 mm/0.15 in, orange 160 V/2.5 kV/2 300 V, 10 A I _N 10 A 300 V, 10 A	Pin spacing 3.5 mm/0.138 in, light gray Pin spacing 3.81 mm/0.15 in, orange 160 V/2.5 kV/2 300 V, 10 A I _N 10 A 300 V, 10 A
1 Approvals	1 Approvals	1 Approvals

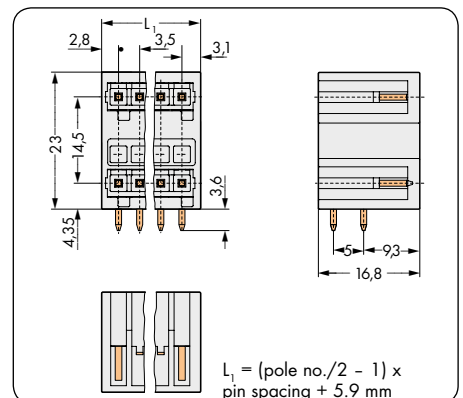
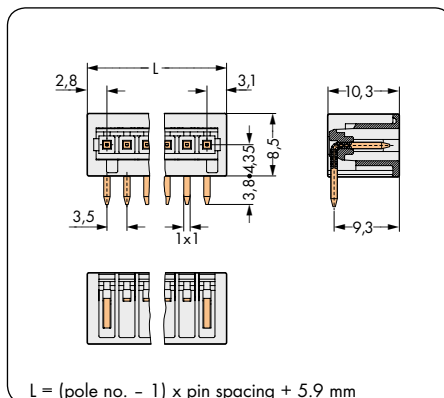
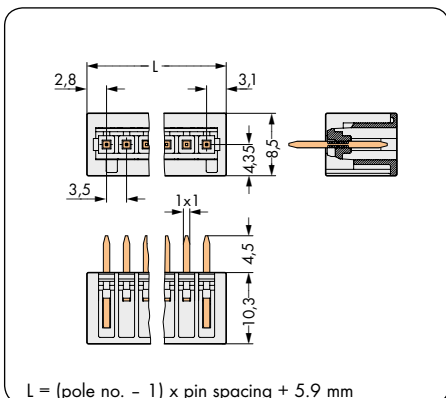


Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit
Male header, 100% protected against mismatching, (1 x 1) mm straight solder pins				Male header, 100% protected against mismatching, (1 x 1) mm angled solder pins				Double-deck male header without support, 100% protection against mismatching, (1 x 1) mm angled solder pins			
	Pin spacing 3.5 mm	3.81 mm			Pin spacing 3.5 mm	3.81 mm			Pin spacing 3.5 mm	3.81 mm	
	light gray	orange			light gray	orange			light gray	orange	
2	○ 734-132	● 734-232	200	2	○ 734-162	● 734-262	200	2	○ 734-402	● 734-432	100
:	:	:		:	:	:		3	○ 734-403	● 734-433	100
6	○ 734-136	● 734-236	100	6	○ 734-166	● 734-266	100	4	○ 734-404	● 734-434	100
7	○ 734-137	-	100	7	○ 734-167	-	100	5	○ 734-405	● 734-435	100
8	○ 734-138	● 734-238	100	8	○ 734-168	● 734-268	100	6	○ 734-406	● 734-436	100
9	○ 734-139	● 734-239	100	9	○ 734-169	● 734-269	100	7	○ 734-407	-	50
10	○ 734-140	● 734-240	100	10	○ 734-170	● 734-270	100	8	○ 734-408	● 734-438	50
12	○ 734-142	● 734-242	100	12	○ 734-172	● 734-272	100	9	○ 734-409	● 734-439	50
13	○ 734-143	-	100	13	○ 734-173	-	100	10	○ 734-410	● 734-440	50
14	○ 734-144	● 734-244	100	14	○ 734-174	● 734-274	100	12	○ 734-412	● 734-442	50
16	○ 734-146	● 734-246	50	16	○ 734-176	● 734-276	50				
18	○ 734-148	● 734-248	50	18	○ 734-178	● 734-278	50				
20	○ 734-150	● 734-250	50	20	○ 734-180	● 734-280	50				
24	○ 734-154	-	50	24	○ 734-184	-	50				

Accessories, 734 Series

Coding key, snap-on type light gray 734-130 100	Coding key, snap-on type light gray 734-130 100	Coding key, to be snapped above top level light gray 734-130 100
<p>Note: These connectors shall only be mated or unmated at voltages below 42V and in the "no load" condition.</p> <p>For mating and unmating at low power values, please request data.</p>		Coding key, to be snapped in bottom level, light gray 734-400 100

Dimensions Drilled hole diameter: 1.4^{+0.1} mm

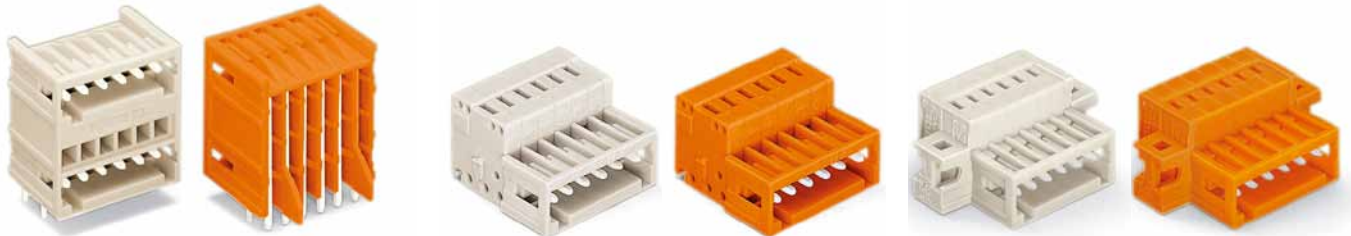


MULTI CONNECTION SYSTEM MINI – 100% Protected Against Mismatching

Double-Deck Male Headers with Solder Pins; Male Connectors with CAGE CLAMP® Connection, Pin spacing 3.5 mm and 3.81 mm

Pin spacing 3.5 mm/0.138 in, light gray Pin spacing 3.81 mm/0.15 in, orange 160 V/2.5 kV/2 I _N 10 A	Pin spacing 3.5 mm/0.138 in, light gray Pin spacing 3.81 mm/0.15 in, orange 0.08 - 1.5 mm ² 160 V/2.5 kV/2 I _N 10 A 7 mm / 0.28 in	Pin spacing 3.5 mm/0.138 in, light gray Pin spacing 3.81 mm/0.15 in, orange 0.08 - 1.5 mm ² 160 V/2.5 kV/2 I _N 10 A 7 mm / 0.28 in
300 V, 10 A 300 V, 10 A	AWG 28 - 14* 300 V, 10 A 300 V, 10 A	AWG 28 - 14* 300 V, 10 A 300 V, 10 A
Approvals	Approvals	Approvals

CAGE CLAMP®



Pole No.	Item No.	Item No.	Pole No.	Item No.	Item No.	Pole No.	Item No.	Item No.
Double-deck male header with support, (1 x 1) mm angled solder pins			Male connector with CAGE CLAMP®			Male connector with CAGE CLAMP® and fixing flanges		
Pin spacing 3.5 mm		3.81 mm	Pin spacing 3.5 mm		3.81 mm	Pin spacing 3.5 mm		3.81 mm
light gray		orange	light gray		orange	light gray		orange
2	734-402/001-000	734-432/001-000	2	734-302	734-332	2	734-302/019-000	734-332/019-000
3	734-403/001-000	734-433/001-000	3	734-303	734-333	3	734-303/019-000	734-333/019-000
4	734-404/001-000	734-434/001-000	:	:	:	:	:	:
5	734-405/001-000	734-435/001-000	10	734-310	734-340	10	734-310/019-000	734-340/019-000
6	734-406/001-000	734-436/001-000	11	734-311	-	11	734-311/019-000	-
7	734-407/001-000	-	12	734-312	734-342	12	734-312/019-000	734-342/019-000
8	734-408/001-000	734-438/001-000	13	734-313	-	13	734-313/019-000	-
9	734-409/001-000	734-439/001-000	14	734-314	734-344	14	734-314/019-000	734-344/019-000
10	734-410/001-000	734-440/001-000	16	734-316	734-346	16	734-316/019-000	734-346/019-000
12	734-412/001-000	734-442/001-000	18	734-318	734-348	18	734-318/019-000	734-348/019-000
			20	734-320	734-350	20	734-320/019-000	734-350/019-000
			24	734-324	-	24	734-324/019-000	-

Accessories, Item-Specific

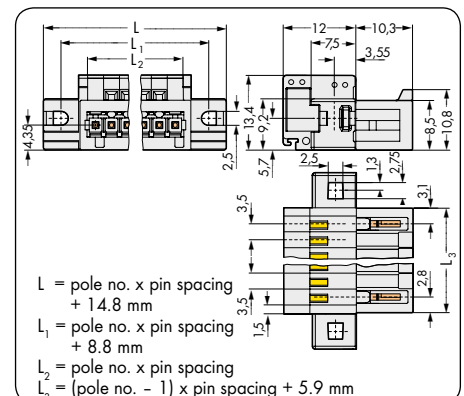
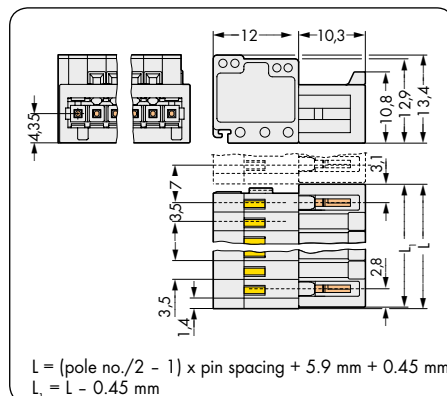
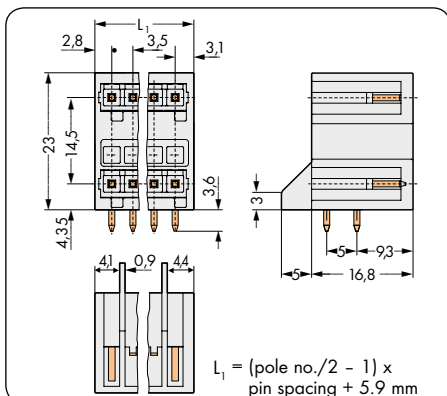
	Coding key, light gray, to be snapped in bottom level 734-400 100		Operating lever, for male connectors 734-230 100(4x25)		Screw with nut, M 2 x 12 mm 231-195 200 (2x100)
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Accessories, 734 Series

	Coding key, light gray, to be snapped above top level 734-130 100		Operating tool, with partially insulated shaft, (2.5x0.4)mm blade 210-719 1		Marker cards, 80 self-adhesive strips per card direct printing upon request
Note: These connectors shall only be mated or unmated at voltages below 42V and in the "no load" condition. For mating and unmating at low power values, please request data.			Test pin, 1 mm Ø, with solder connection for test cable 735-500 1		Strain relief plates, see page 113
			Marking 1 - 16 (240x) Spacing 3.5 mm 210-332/350-202 17 - 32 (240x) Spacing 3.5 mm 210-332/350-204 1 - 16 (160x) Spacing 3.81 mm 210-332/381-202 17 - 32 (160x) Spacing 3.81 mm 210-332/381-204		

Dimensions

Drilled hole diameter: 1.4^{+0.1} mm















* AWG 14: THHN, THWN

For technical explanations and abbreviations, see technical section.

MULTI CONNECTION SYSTEM MINI – 100% Protected Against Mismatching

Female Connectors, Pin spacing 3.5 mm and 3.81 mm

<p>Pin spacing 3.5 mm/0.138 in, light gray Pin spacing 3.81 mm/0.15 in, orange 0.08 - 1.5 mm² AWG 28 - 14* 160 V/2.5 kV/2 300 V, 10 A  I_N 10 A 300 V, 10 A   7 mm / 0.28 in  Approvals</p>	<p>Pin spacing 3.5 mm/0.138 in, light gray Pin spacing 3.81 mm/0.15 in, orange 0.08 - 1.5 mm² AWG 28 - 14* 160 V/2.5 kV/2 300 V, 10 A  I_N 10 A 300 V, 10 A   7 mm / 0.28 in  Approvals</p>	<p>Pin spacing 3.5 mm/0.138 in, light gray Pin spacing 3.81 mm/0.15 in, orange 0.2 - 1.5 mm² AWG 24 - 14* 160 V/2.5 kV/2 300 V, 10 A  I_N 10 A 300 V, 10 A   8 - 9 mm / 0.33 in  Approvals</p>
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CAGE CLAMP®

CAGE CLAMP®S








Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit
Female connector with CAGE CLAMP®, with coding fingers				Female connector with CAGE CLAMP® and locking levers, with coding fingers				Female connector with CAGE CLAMP®S and integrated push-buttons, with coding fingers			
		Pin spacing 3.5 mm	3.81 mm			Pin spacing 3.5 mm	3.81 mm			Pin spacing 3.5 mm	3.81 mm
		light gray	orange			light gray	orange			light gray	orange
2	○ 734-102	● 734-202	200	2	○ 734-102/037-000	● 734-202/037-000	100	2	○ 2734-102	● 2734-202	200
3	○ 734-103	● 734-203	200	3	○ 734-103/037-000	● 734-203/037-000	100	3	○ 2734-103	● 2734-203	200
:	:	:	:	:	:	:	:	:	:	:	:
9	○ 734-109	● 734-209	50	9	○ 734-109/037-000	● 734-209/037-000	50	9	○ 2734-109	● 2734-209	50
10	○ 734-110	● 734-210	50	10	○ 734-110/037-000	● 734-210/037-000	50	10	○ 2734-110	● 2734-210	50
12	○ 734-112	● 734-212	25	12	○ 734-112/037-000	● 734-212/037-000	25	12	○ 2734-112	● 2734-212	25
13	○ 734-113	-	25	13	○ 734-113/037-000	● -	25	13	○ 2734-113	-	25
14	○ 734-114	● 734-214	25	14	○ 734-114/037-000	● 734-214/037-000	25	14	○ 2734-114	● 2734-214	25
16	○ 734-116	● 734-216	25	16	○ 734-116/037-000	● 734-216/037-000	25	16	○ 2734-116	● 2734-216	25
18	○ 734-118	● 734-218	25	18	○ 734-118/037-000	● 734-218/037-000	25	18	○ 2734-118	● 2734-218	25
20	○ 734-120	● 734-220	25	20	○ 734-120/037-000	● 734-220/037-000	25	20	○ 2734-120	● 2734-220	25
24	○ 734-124	-	25	24	○ 734-124/037-000	-	25	24	○ 2734-124	-	25

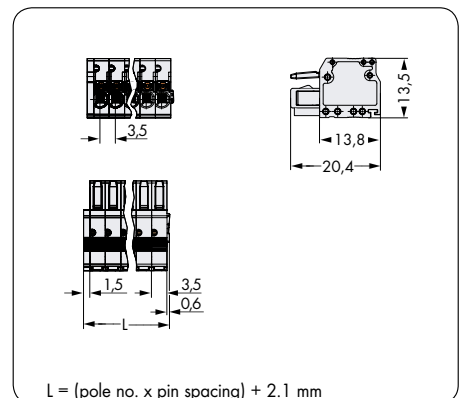
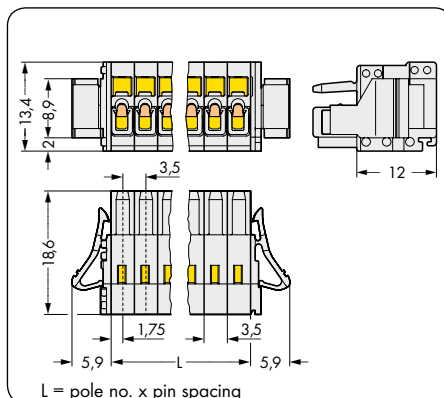
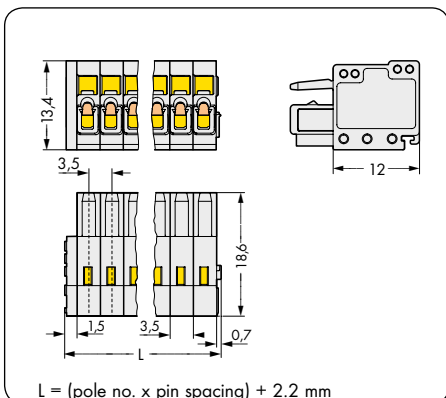
Accessories, Item-Specific


	Operating lever, for male and female connectors 734-230 100
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Accessories, 734 and 2734 Series

	Operating tool with partially insulated shaft, type 1, (2.5x0.4) mm blade 210-719 1		Marker cards, 80 self-adhesive strips per card direct printing upon request		Marker cards, 80 self-adhesive strips per card direct printing upon request
	Test pin, 1 mm Ø, with solder connection for test cable 735-500 1	Marking 1 - 16 (240x) Spacing 3.5 mm 210-332/350-202 17 - 32 (240x) Spacing 3.5 mm 210-332/350-204 1 - 16 (160x) Spacing 3.81 mm 210-332/381-202 17 - 32 (160x) Spacing 3.81 mm 210-332/381-204	Marking 1 - 16 (240x) Spacing 3.5 mm 210-332/350-202 17 - 32 (240x) Spacing 3.5 mm 210-332/350-204 1 - 16 (160x) Spacing 3.81 mm 210-332/381-202 17 - 32 (160x) Spacing 3.81 mm 210-332/381-204		
	Strain relief plates, see page 113				

Dimensions



 Approvals are available online at: www.wago.com.

MULTI CONNECTION SYSTEM MINI HD – 100% Protected Against Mismatching

Male Headers and Female Connectors, Pin Spacing 3.5 mm, 713 Series

Pin spacing 3.5 mm / 0.138 in 160 V/2.5 kV/3 I_N 10 A Approvals	Pin spacing 3.5 mm / 0.138 in 160 V/2.5 kV/3 I_N 10 A Approvals	Pin spacing 3.5 mm / 0.138 in 0.08 - 1.5 mm ² AWG 28 - 16 160 V/2.5 kV/3 I_N 10 A 6 - 7 mm / 0.24 - 0.28 in Approvals
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Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Male header, 2-row, (0.8 x 0.8) mm straight solder pins, black			Male header, 2-row, (0.8 x 0.8) mm angled solder pins, black			Female connector with CAGE CLAMP®, 2-row, with coding fingers to be cut off, black		
● 6 (3 x 2)	713-1403	100	● 6 (3 x 2)	713-1423	100	● 6 (3 x 2)	713-1103	100
● 8 (4 x 2)	713-1404	50	● 8 (4 x 2)	713-1424	50	● 8 (4 x 2)	713-1104	50
● 10 (5 x 2)	713-1405	50	● 10 (5 x 2)	713-1425	50	● 10 (5 x 2)	713-1105	50
● 12 (6 x 2)	713-1406	50	● 12 (6 x 2)	713-1426	50	● 12 (6 x 2)	713-1106	50
● 14 (7 x 2)	713-1407	50	● 14 (7 x 2)	713-1427	50	● 14 (7 x 2)	713-1107	50
● 16 (8 x 2)	713-1408	25	● 16 (8 x 2)	713-1428	25	● 16 (8 x 2)	713-1108	25
● 18 (9 x 2)	713-1409	25	● 18 (9 x 2)	713-1429	25	● 18 (9 x 2)	713-1109	25
● 20 (10 x 2)	713-1410	25	● 20 (10 x 2)	713-1430	25	● 20 (10 x 2)	713-1110	25
● 22 (11 x 2)	713-1411	25	● 22 (11 x 2)	713-1431	25	● 22 (11 x 2)	713-1111	25
● 24 (12 x 2)	713-1412	25	● 24 (12 x 2)	713-1432	25	● 24 (12 x 2)	713-1112	25
● 26 (13 x 2)	713-1413	25	● 26 (13 x 2)	713-1433	25	● 26 (13 x 2)	713-1113	25
● 28 (14 x 2)	713-1414	20	● 28 (14 x 2)	713-1434	20	● 28 (14 x 2)	713-1114	20
● 30 (15 x 2)	713-1415	20	● 30 (15 x 2)	713-1435	20	● 30 (15 x 2)	713-1115	20
● 32 (16 x 2)	713-1416	20	● 32 (16 x 2)	713-1436	20	● 32 (16 x 2)	713-1116	20
● 34 (17 x 2)	713-1417	20	● 34 (17 x 2)	713-1437	20	● 34 (17 x 2)	713-1117	20
● 36 (18 x 2)	713-1418	20	● 36 (18 x 2)	713-1438	20	● 36 (18 x 2)	713-1118	20
Coding pin carrier 714-101	100 (4x25)		Coding pin carrier 714-101	100 (4x25)				

Accessories, 713 Series

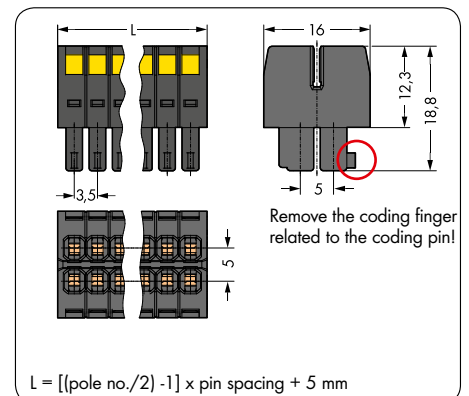
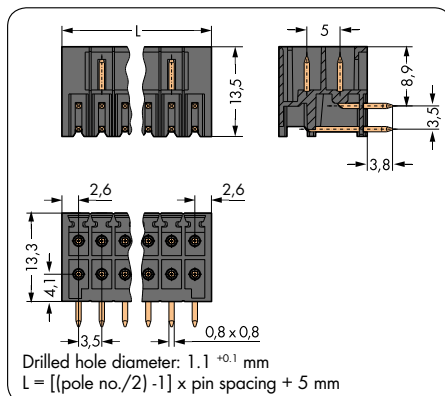
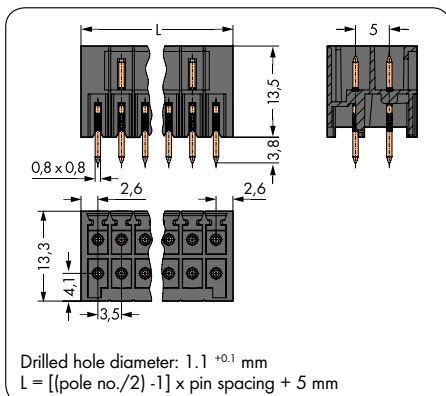
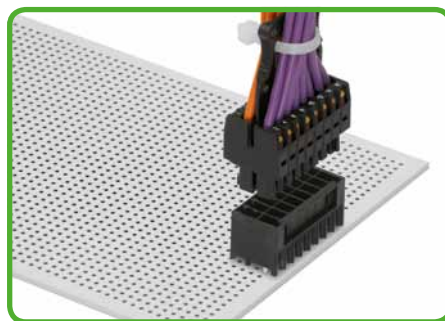
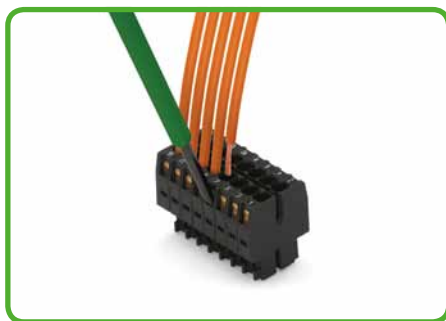


Operating tool with partially insulated shaft, type 1,
[2.5 x 0.4] mm blade **210-719** 1



Strain relief plate
 11 mm wide **713-126** 100
 25 mm wide **713-127** 100
 39 mm wide **713-128** 100
 53 mm wide **713-129** 100

Dimensions




For technical explanations and abbreviations, see technical section.

MULTI CONNECTION SYSTEM MINI HD – 100% Protected Against Mismatching

Male Headers and Female Connectors with Levers

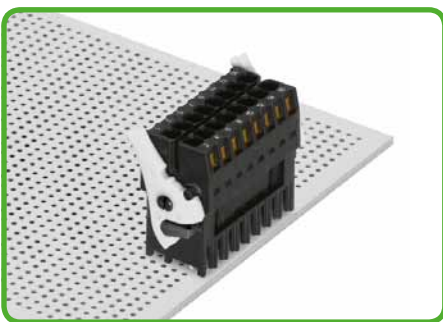
Pin Spacing 3.5 mm; 713 Series

Pin spacing 3.5 mm / 0.138 in 160 V/2.5 kV/3 I_N 10 A Approvals	Pin spacing 3.5 mm / 0.138 in 160 V/2.5 kV/3 I_N 10 A Approvals	Pin spacing 3.5 mm / 0.138 in 0.08 - 1.5 mm ² 160 V/2.5 kV/3 I_N 10 A AWG 28 - 16  6 - 7 mm / 0.25 in Approvals
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CAGE CLAMP®



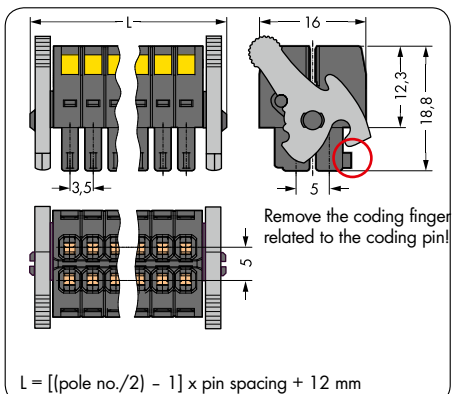
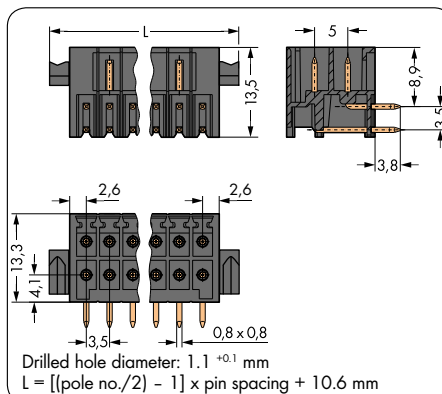
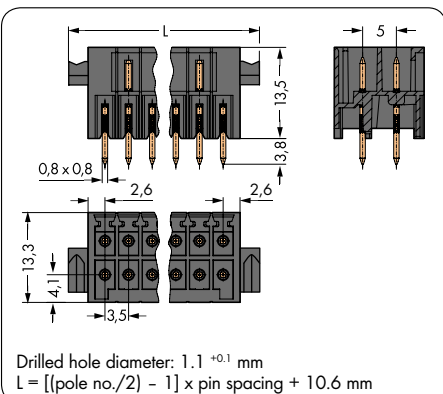
Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Male header, 2-row, with levers, (0.8 x 0.8) mm straight solder pins, black			Male header, 2-row, with levers, (0.8 x 0.8) mm angled solder pins, black			Female connector, 2-row, with levers, with CAGE CLAMP®, with coding fingers to be cut off, black		
● 6 (3 x 2)	713-1403/037-000	50	● 6 (3 x 2)	713-1423/037-000	50	● 6 (3 x 2)	713-1103/037-000	50
● 8 (4 x 2)	713-1404/037-000	50	● 8 (4 x 2)	713-1424/037-000	50	● 8 (4 x 2)	713-1104/037-000	50
● 10 (5 x 2)	713-1405/037-000	50	● 10 (5 x 2)	713-1425/037-000	50	● 10 (5 x 2)	713-1105/037-000	50
● 12 (6 x 2)	713-1406/037-000	25	● 12 (6 x 2)	713-1426/037-000	50	● 12 (6 x 2)	713-1106/037-000	25
● 14 (7 x 2)	713-1407/037-000	25	● 14 (7 x 2)	713-1427/037-000	50	● 14 (7 x 2)	713-1107/037-000	25
● 16 (8 x 2)	713-1408/037-000	25	● 16 (8 x 2)	713-1428/037-000	25	● 16 (8 x 2)	713-1108/037-000	25
● 18 (9 x 2)	713-1409/037-000	25	● 18 (9 x 2)	713-1429/037-000	25	● 18 (9 x 2)	713-1109/037-000	25
● 20 (10 x 2)	713-1410/037-000	25	● 20 (10 x 2)	713-1430/037-000	25	● 20 (10 x 2)	713-1110/037-000	20
● 22 (11 x 2)	713-1411/037-000	20	● 22 (11 x 2)	713-1431/037-000	20	● 22 (11 x 2)	713-1111/037-000	20
● 24 (12 x 2)	713-1412/037-000	20	● 24 (12 x 2)	713-1432/037-000	20	● 24 (12 x 2)	713-1112/037-000	20
● 26 (13 x 2)	713-1413/037-000	20	● 26 (13 x 2)	713-1433/037-000	20	● 26 (13 x 2)	713-1113/037-000	20
● 28 (14 x 2)	713-1414/037-000	20	● 28 (14 x 2)	713-1434/037-000	20	● 28 (14 x 2)	713-1114/037-000	20
● 30 (15 x 2)	713-1415/037-000	20	● 30 (15 x 2)	713-1435/037-000	20	● 30 (15 x 2)	713-1115/037-000	20
● 32 (16 x 2)	713-1416/037-000	20	● 32 (16 x 2)	713-1436/037-000	20	● 32 (16 x 2)	713-1116/037-000	20
● 34 (17 x 2)	713-1417/037-000	10	● 34 (17 x 2)	713-1437/037-000	10	● 34 (17 x 2)	713-1117/037-000	10
● 36 (18 x 2)	713-1418/037-000	10	● 36 (18 x 2)	713-1438/037-000	10	● 36 (18 x 2)	713-1118/037-000	10
Coding pin carrier 714-101			Coding pin carrier 714-101					



Accessories, 713 Series

	Operating tool with partially insulated shaft, type 1, (2.5 x 0.4) mm blade 210-719	1
	Strain relief plate	
	11 mm wide 713-126	100
	25 mm wide 713-127	100
	39 mm wide 713-128	100
	53 mm wide 713-129	100

Dimensions



MULTI CONNECTION SYSTEM MIDI – 100% Protected Against Mismatching

Male Headers and Male Connectors

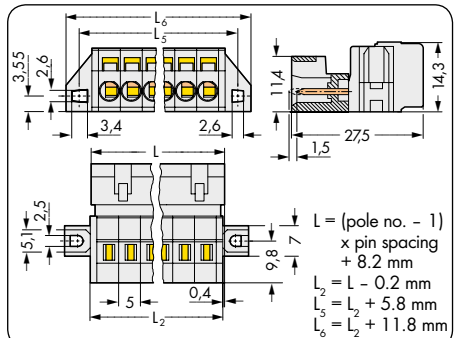
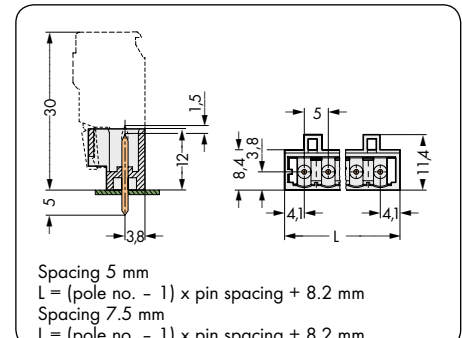
Pin Spacing 5 mm and 7.5 mm

Pin spacing 5 mm/0.197 in, light gray 320 V/4 kV/3 300 V, 10 A I_N 12 A 300 V, 10 A Pin spacing 7.5 mm/0.295 in, light gray 400 V/6 kV/3 300 V, 10 A I_N 12 A 300 V, 10 A Approvals	0.08 - 2.5 mm ² AWG 28 - 12* Pin spacing 5 mm/0.197 in, light gray 250 V/4 kV/3, 12 A 300 V, 15 A Pin spacing 7.5 mm/0.295 in, light gray 400 V/6 kV/3 300 V, 15 A Approvals	Accessories
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Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Item No.	Pack. Unit	Accessories, 721 and 723 Series	Item No.	Pack. Unit	
Male header, 100% protected against mismatching, (1 x 1 mm) solder pins, light gray				Male connector with CAGE CLAMP®, 100% protected against mismatching, light gray				Marking strips, 100 self-adhesive strips				
Pin spacing 5 mm				Pin spacing 5 mm				Spacing 5 mm				
straight				with fixing flanges				1 - 12 (300x) 210-331/500-103				
angled								13 - 24 (300x) 210-331/500-104				
○ 2	721-132/001-000	721-432/001-000	200	○ 2	721-602	100	721-602/019-000	100	Spacing 7.5 mm			
○ 3	721-133/001-000	721-433/001-000	200	○ 3	721-603	100	721-603/019-000	50	1 - 16 (100x) 210-331/750-202			
○ 4	721-134/001-000	721-434/001-000	200	○ 4	721-604	100	721-604/019-000	50	Coding key, snap-on type,			
○ 5	721-135/001-000	721-435/001-000	200	○ 5	721-605	50	721-605/019-000	50	Spacing 5 mm			
○ 6	721-136/001-000	721-436/001-000	100	○ 6	721-606	50	721-606/019-000	50	light gray 231-129 100			
○ 7	721-137/001-000	721-437/001-000	100	○ 7	721-607	50	721-607/019-000	50	Spacing 7.5 mm			
○ 8	721-138/001-000	721-438/001-000	100	○ 8	721-608	50	721-608/019-000	50	light gray 231-130 100			
○ 9	721-139/001-000	721-439/001-000	100	○ 9	721-609	50	721-609/019-000	25	Insulation stop, 5 pcs/strip			
○ 10	721-140/001-000	721-440/001-000	100	○ 10	721-610	50	721-610/019-000	25	Spacing 5 mm			
○ 12	721-142/001-000	721-442/001-000	100	○ 12	721-612	25	721-612/019-000	25	0.08 - 0.2mm ² ②			
○ 14	721-144/001-000	721-444/001-000	50	:	:	:	:	:	white 231-670 200			
○ 16	721-146/001-000	721-446/001-000	50	○ 16	721-616	25	721-616/019-000	10	0.25 - 0.5 mm ²			
○ 20	721-150/001-000	721-450/001-000	50	○ 20	721-620	10	721-620/019-000	10	light gray 231-671 200			
Pin spacing 7.5 mm				Pin spacing 7.5 mm				Spacing 7.5 mm				
straight				with fixing flanges				0.08 - 0.2mm ² ②				
angled								white 231-673 200				
○ 2	721-232/001-000	721-832/001-000	200	○ 2	723-602	100	723-602/019-000	50	0.25 - 0.5 mm ²			
○ 3	721-233/001-000	721-833/001-000	200	○ 3	723-603	100	723-603/019-000	50	light gray 231-674 200			
○ 4	721-234/001-000	721-834/001-000	100	○ 4	723-604	50	723-604/019-000	50	0.75 - 1mm ²			
○ 5	721-235/001-000	721-835/001-000	100	○ 5	723-605	50	723-605/019-000	50	dark gray 231-672 200			
○ 6	721-236/001-000	721-836/001-000	100	○ 6	723-606	50	723-606/019-000	25	Spacing 7.5 mm			
○ 7	721-237/001-000	721-837/001-000	50	○ 7	723-607	50	723-607/019-000	25	0.08 - 0.2mm ² ②			
○ 8	721-238/001-000	721-838/001-000	50	○ 8	723-608	25	723-608/019-000	25	white 231-673 200			
○ 9	721-239/001-000	721-839/001-000	50	○ 9	723-609	25	723-609/019-000	25	0.25 - 0.5 mm ²			
○ 10	721-240/001-000	721-840/001-000	50	○ 10	723-610	25	723-610/019-000	25	light gray 231-674 200			
○ 11	721-241/001-000	721-841/001-000	50	○ 11	723-611	25	723-611/019-000	10	0.75 - 1mm ²			
○ 12	721-242/001-000	721-842/001-000	50	○ 12	723-612	25	723-612/019-000	10	dark gray 231-675 200			
Dimensions				Drilled hole diameter: 1.4^{+0.1} mm (1x1 mm solder pin)								



* AWG 12: THHN, THWN

For technical explanations and abbreviations, see technical section.

MULTI CONNECTION SYSTEM MIDI – 100% Protected Against Mismatching

Female Headers and Connectors

Pin Spacing 5 mm and 7.5 mm

Pin spacing 5 mm/0.197 in, light gray 250 V/4 kV/3 300 V, 10 A I_N 12 A 300 V, 15 A	Pin spacing 5 mm/0.197 in, light gray 0.08 - 2.5 mm ² AWG 28 - 12* 250 V/4 kV/3; 16 A 300 V, 15 A Pin spacing 7.5 mm/0.295 in, light gray 400 V/6 kV/3 300 V, 10 A 8 - 9 mm / 0.33 in	Pin spacing 5 mm/0.197 in, light gray 0.2 - 2.5 mm ² AWG 24 - 12* 250 V/4 kV/3 I_N 16 A 10 - 11 mm / 0.43 in
Approvals		

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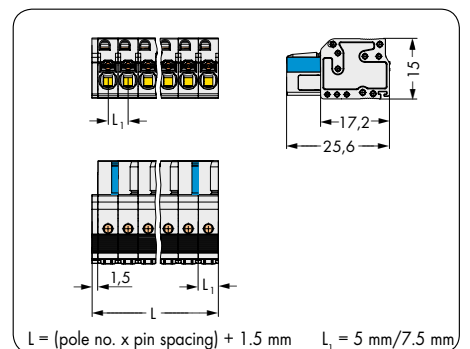
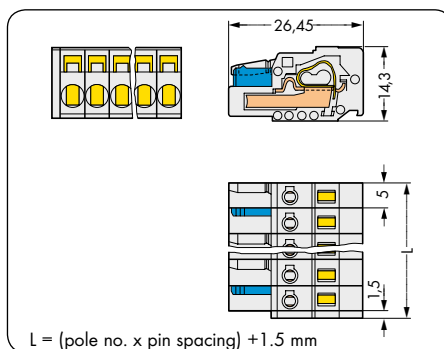
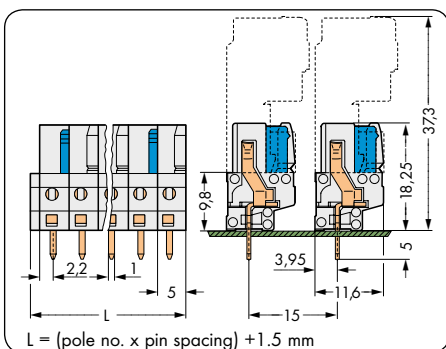
CAGE CLAMP®S



Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Female header with solder pins, with coding fingers, with two latches, (0.6 x 1) mm solder pin, light gray				Female connector with CAGE CLAMP®, with coding fingers, with two latches, light gray				Female connector with CAGE CLAMP®S and integrated push-buttons, with coding fingers, with two latches, light gray			
Pin spacing 5 mm				Pin spacing 5 mm				Pin spacing 5 mm			
straight				with locking levers							
angled											
○ 2**	722-132	722-232	100	○ 2**	721-102/026-000	100	721-102/037-000	100	○ 2**	2721-102/026-000	100
○ 3	722-133	722-233	100	○ 3	721-103/026-000	100	721-103/037-000	50	○ 3	2721-103/026-000	100
○ 4	722-134	722-234	100	○ 4	721-104/026-000	100	721-104/037-000	50	○ 4	2721-104/026-000	100
○ 5	722-135	722-235	100	○ 5	721-105/026-000	100	721-105/037-000	50	○ 5	2721-105/026-000	100
○ 6	722-136	722-236	50	○ 6	721-106/026-000	50	721-106/037-000	50	○ 6	2721-106/026-000	50
:	:	:	:	:	:	:	:	:	:	:	:
○ 10	722-140	722-240	50	○ 10	721-110/026-000	50	721-110/037-000	25	○ 10	2721-110/026-000	50
○ 12	722-142	722-242	25	○ 12	721-112/026-000	25	721-112/037-000	25	○ 12	2721-112/026-000	25
○ 14	722-144	722-244	25	:	:	:	:	:	○ 14	2721-114/026-000	25
○ 16	722-146	722-246	25	○ 16	721-116/026-000	25	721-116/037-000	10	○ 16	2721-116/026-000	25
○ 20	722-150	722-250	10	○ 20	721-120/026-000	10	721-120/037-000	10	○ 20	2721-120/026-000	10
Pin spacing 7.5 mm (pole no - 1) x pin spacing + 5 mm + 1.5 mm				Pin spacing 7.5 mm (pole no. - 1) + 5 mm				Pin spacing 7.5 mm			
straight				with locking levers							
angled											
○ 2**	722-732	722-832	100	○ 2**	721-202/026-000	100	721-202/037-000	50	○ 2**	2721-202/026-000	100
○ 3	722-733	722-833	100	○ 3	721-203/026-000	100	721-203/037-000	50	○ 3	2721-203/026-000	100
○ 4	722-734	722-834	50	○ 4	721-204/026-000	50	721-204/037-000	50	○ 4	2721-204/026-000	50
○ 5	722-735	722-835	50	○ 5	721-205/026-000	50	721-205/037-000	50	○ 5	2721-205/026-000	50
○ 6	722-736	722-836	50	○ 6	721-206/026-000	50	721-206/037-000	25	○ 6	2721-206/026-000	50
○ 7	722-737	722-837	50	○ 7	721-207/026-000	50	721-207/037-000	25	○ 7	2721-207/026-000	50
○ 8	722-738	722-838	25	○ 8	721-208/026-000	25	721-208/037-000	25	○ 8	2721-208/026-000	25
○ 9	722-739	722-839	25	○ 9	721-209/026-000	25	721-209/037-000	25	○ 9	2721-209/026-000	25
○ 10	722-740	722-840	25	○ 10	721-210/026-000	25	721-210/037-000	25	○ 10	2721-210/026-000	25
○ 11	722-741	722-841	25	○ 11	721-211/026-000	25	721-211/037-000	10	○ 11	2721-211/026-000	25
○ 12	722-742	722-842	25	○ 12	721-212/026-000	25	721-212/037-000	10	○ 12	2721-212/026-000	25
**one latch only				**one latch only				**one latch only			

Dimensions

Drilled hole diameter: 1.3 ^{+0.1}mm





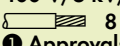



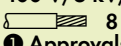

Approvals are available online at: www.wago.com.
For technical explanations and abbreviations, see technical section.

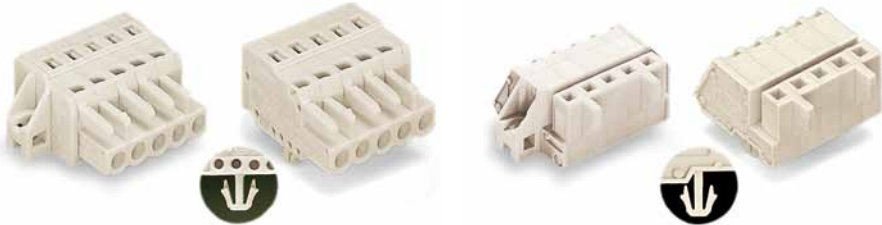
* AWG 12: THHN, THWN





MULTI CONNECTION SYSTEM MIDI – 100% Protected Against Mismatching, Female Headers and Connectors

Pin Spacing 5 mm and 7.5 mm

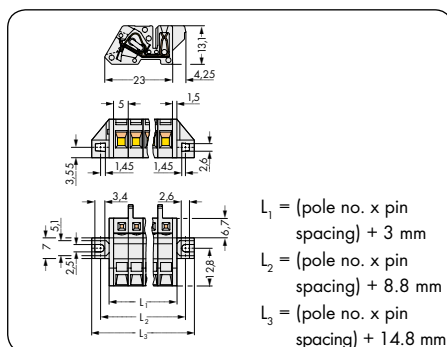
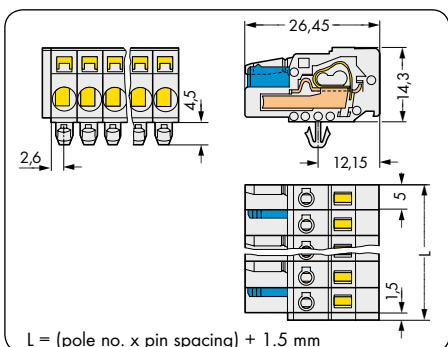
CAGE CLAMP®

<p>Pin spacing 5 mm/0.197 in, light gray 0.08 - 2.5 mm² AWG 28 - 12* 250 V/4 kV/3; 12 A 300 V, 15 A </p> <p>Pin spacing 7.5 mm/0.295 in, light gray 400 V/6 kV/3 300 V, 15 A </p> <p> 8 - 9 mm / 0.33 in</p> <p> Approvals</p>	<p>Pin spacing 5 mm/0.197 in, light gray 0.08 - 2.5 mm² AWG 28 - 12* 250 V/4 kV/3; 12 A 300 V, 15 A </p> <p>Pin spacing 7.5 mm/0.295 in, light gray 400 V/6 kV/3 300 V, 15 A </p> <p> 8 - 9 mm / 0.33 in</p> <p> Approvals</p>	<p>Accessories</p>
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Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Accessories, 721 and 2721 Series	Item No.
<p>Female connector with CAGE CLAMP® and fixing flanges for panel mounting, with coding fingers, with two latches, for screw or similar mounting types, light gray</p> <p>and snap-in mounting feet, for 0.6 - 1.2 mm plate thickness, 3.5 mm Ø mounting holes, or with 209-137 mounting adapter for DIN 35 rail</p>							<p>Angled female connector with CAGE CLAMP® and fixing flanges for panel mounting, with two latches, for screw or similar mounting types, light gray</p> <p>and snap-in mounting feet, for 0.6 - 1.2 mm plate thickness, 3.5 mm Ø mounting holes</p>							<p>Marking strips, 100 self-adhesive strips</p> <p>Spacing 5 mm 1 - 12 (300x) 210-331/500-103 13 - 24 (300x) 210-331/500-104</p> <p>Spacing 7.5 mm 1 - 16 (100x) 210-331/750-202</p> <p>Insulation stop, 5 pcs/strip</p> <p>Spacing 5 mm 0.08-0.2mm²  white 231-670 200 0.25-0.5 mm² light gray 231-671 200 0.75-1 mm² dark gray 231-672 200</p> <p>Spacing 7.5 mm 0.08-0.2mm²  white 231-673 200 0.25-0.5 mm² light gray 231-674 200 0.75-1 mm² dark gray 231-675 200</p> <p></p> <p> 209-137 1</p>	
<p>Pin spacing 5 mm</p> <p>with fixing flanges with snap-in mounting feet</p> <p>○ 2** 721-102/031-000 100 721-102/008-000 100</p> <p>○ 3 721-103/031-000 50 721-103/008-000 100</p> <p>○ 4 721-104/031-000 50 721-104/008-000 100</p> <p>○ 5 721-105/031-000 50 721-105/008-000 100</p> <p>○ 6 721-106/031-000 50 721-106/008-000 50</p> <p>: : :</p> <p>○ 10 721-110/031-000 25 721-110/008-000 50</p> <p>○ 12 721-112/031-000 25 721-112/008-000 25</p> <p>: : :</p> <p>○ 16 721-116/031-000 10 721-116/008-000 25</p> <p>○ 20 721-120/031-000 10 721-120/008-000 10</p>							<p>Pin spacing 5 mm</p> <p>with fixing flanges with snap-in mounting feet</p> <p>○ 2 721-302/031-000 100 721-302/008-000 100</p> <p>○ 3 721-303/031-000 50 721-303/008-000 50</p> <p>○ 4 721-304/031-000 50 721-304/008-000 50</p> <p>○ 5 721-305/031-000 50 721-305/008-000 50</p> <p>○ 6 721-306/031-000 50 721-306/008-000 50</p> <p>: : :</p> <p>○ 10 721-310/031-000 25 721-310/008-000 50</p> <p>○ 12 721-312/031-000 25 721-312/008-000 25</p> <p>: : :</p> <p>○ 16 721-316/031-000 10 721-316/008-000 25</p> <p>○ 20 721-320/031-000 10 721-320/008-000 10</p>							<p>② 0.2 mm² "sol." (0.14 mm² "fst")</p>	
<p>Pin spacing 7.5 mm (pole no. - 1) x pin spacing + 5 mm + 1.5 mm</p> <p>with fixing flanges with snap-in mounting feet</p> <p>○ 2** 721-202/031-000 50 721-202/008-000 100</p> <p>○ 3 721-203/031-000 50 721-203/008-000 100</p> <p>○ 4 721-204/031-000 50 721-204/008-000 50</p> <p>○ 5 721-205/031-000 50 721-205/008-000 50</p> <p>○ 6 721-206/031-000 25 721-206/008-000 50</p> <p>: : :</p> <p>○ 11 721-211/031-000 10 721-211/008-000 25</p> <p>○ 12 721-212/031-000 10 721-212/008-000 25</p>							<p>Pin spacing 7.5 mm (pole no. - 1) + 5 mm</p> <p>with fixing flanges with snap-in mounting feet</p> <p>○ 2 721-332/031-000 50 721-332/008-000 100</p> <p>○ 3 721-333/031-000 50 721-333/008-000 100</p> <p>○ 4 721-334/031-000 50 721-334/008-000 50</p> <p>○ 5 721-335/031-000 50 721-335/008-000 50</p> <p>○ 6 721-336/031-000 50 721-336/008-000 50</p> <p>: : :</p> <p>○ 11 721-341/031-000 25 721-341/008-000 25</p> <p>○ 12 721-342/031-000 25 721-342/008-000 25</p>							<p>Mounting adapter, for DIN 35 rail, 3 or more poles</p> <p>gray 209-137 1</p>	
<p>**one latch only</p>							<p>Tapping screw</p> <p>B 2.2 x 9.5 mm 209-147 100</p> <p>Drilled hole, 1.8 mm Ø</p>								

Dimensions









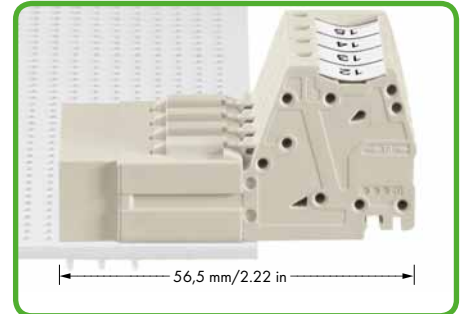
Please find the entire product range in our Full Line Catalog, Volume 2. For more information, please visit www.wago.com.

MULTI CONNECTION SYSTEM MAXI – 100% Protected Against Mismatching

Male Headers with Solder Pins

Pin spacing 7.62 mm

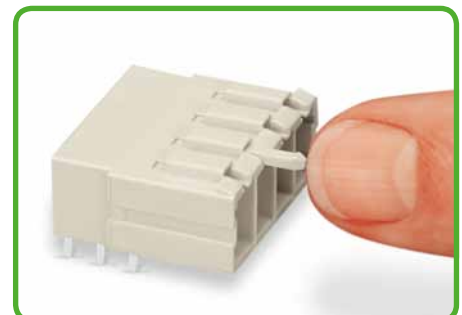
Pin spacing 7.62 mm/0.3 in, light gray 630 V/6 kV/3 300 V, 42 A  I_N 41 A 300 V, 50 A 	Pin spacing 7.62 mm/0.3 in, light gray 630 V/6 kV/3 300 V, 42 A  I_N 41 A 300 V, 50 A 	Handling
 Approvals	 Approvals	



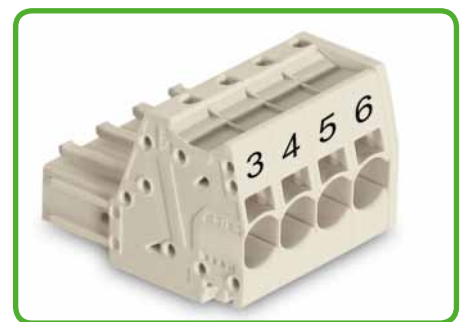
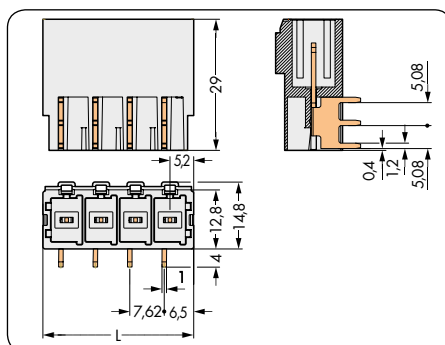
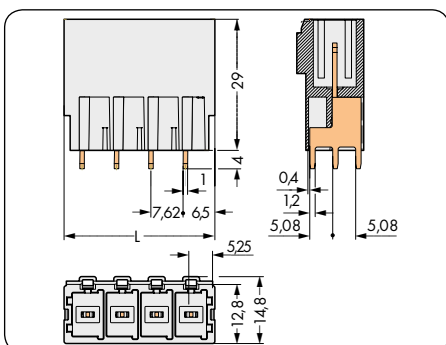
Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Male header with straight solder pins, 3 solder pins/pole, 1 mm x 1.2 mm, light gray			Male header with angled solder pins, 3 solder pins/pole, 1 mm x 1.2 mm, light gray		
○ 2	831-3602	48	○ 2	831-3622	48
○ 3	831-3603	48	○ 3	831-3623	48
○ 4	831-3604	24	○ 4	831-3624	24
○ 5	831-3605	24	○ 5	831-3625	24
○ 6	831-3606	24	○ 6	831-3626	24
○ 7	831-3607	12	○ 7	831-3627	12
○ 8	831-3608	12	○ 8	831-3628	12
○ 9	831-3609	12	○ 9	831-3629	12
Note: Upon request, male headers with straight solder pins are also available with protection against PCB mounting errors.					
Dimensions Drilled hole diameter: $1.7^{+0.1}mm$ $L = (\text{pole no.} - 1) \times \text{pin spacing} + 10.5 \text{ mm}$					



Break or cut off coding pin from female connector.



Insert coding pin into male header (break first) until it engages.



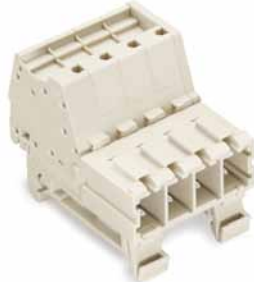
Printed female connector upon request.

MULTI CONNECTION SYSTEM MAXI – 100% Protected Against Mismatching, Male and Female Connectors, Pin Spacing 7.62 mm

CAGE CLAMP®S

<p>Pin spacing 7.62 mm/0.3 in, light gray 0.5 - 6 (10) mm² ② AWG 20 - 8 1000 V/8 kV/3 600 V, 42 A I_N 41 A 600 V, 50 A </p> <p> 13 - 15 mm / 0.52 - 0.58 in</p> <p>① Approvals</p>	<p>Pin spacing 7.62 mm/0.3 in, light gray 0.5 - 6 (10) mm² ② AWG 20 - 8 1000 V/8 kV/3 600 V, 42 A I_N 41 A 600 V, 50 A </p> <p> 13 - 15 mm / 0.52 - 0.58 in</p> <p>① Approvals</p>	<p>Pin spacing 7.62 mm/0.3 in, light gray 0.5 - 6 (10) mm² ② AWG 20 - 8 1000 V/8 kV/3 600 V, 42 A I_N 41 A 600 V, 50 A </p> <p> 13 - 15 mm / 0.52 - 0.58 in</p> <p>① Approvals</p>
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② Conductor sizes: 0.5 - 10 mm² "s+f-st";
Push-in conductor sizes: 1.5 - 10 mm² "s" and
1.5 - 6 mm² "insulated ferrule, 12 mm"

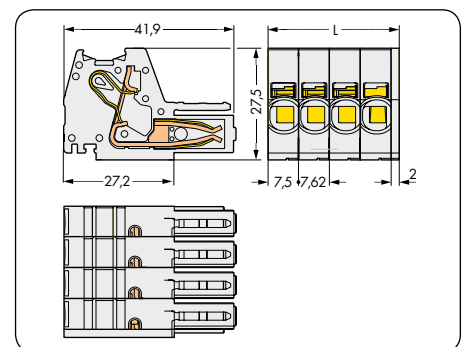
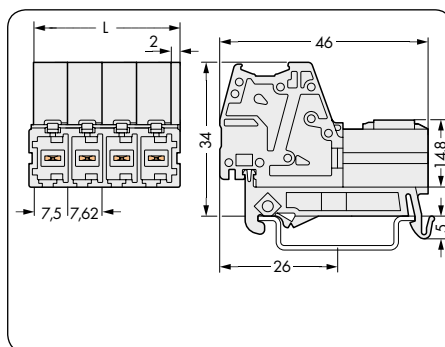
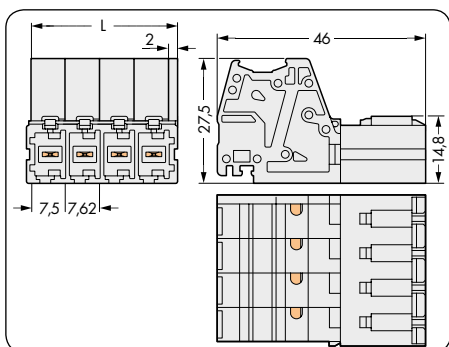


Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Male connector with CAGE CLAMP®S, coding via pins, light gray			Male connector with CAGE CLAMP®S, with integrated adapter for DIN 35-rail mounting, coding via pins, light gray			Female connector with CAGE CLAMP®S, with coding pins, light gray		
○ 2	831-3202	48	○ 2	831-3202/007-000	48	○ 2	831-3102	48
○ 3	831-3203	48	○ 3	831-3203/007-000	48	○ 3	831-3103	48
○ 4	831-3204	24	○ 4	831-3204/007-000	24	○ 4	831-3104	24
○ 5	831-3205	24	○ 5	831-3205/007-000	24	○ 5	831-3105	24
○ 6	831-3206	24	○ 6	831-3206/007-000	24	○ 6	831-3106	24
○ 7	831-3207	12	○ 7	831-3207/007-000	12	○ 7	831-3107	12
○ 8	831-3208	12	○ 8	831-3208/007-000	12	○ 8	831-3108	12
○ 9	831-3209	12	○ 9	831-3209/007-000	12	○ 9	831-3109	12

Accessories, 831 Series

<p>Test plug, with 500 mm cable, 2 mm Ø red 210-136 50</p>	<p>Test plug, with 500 mm cable, 2 mm Ø red 210-136 50</p>	<p>Test plug, with 500 mm cable, 2 mm Ø red 210-136 50</p>
<p>Marker card, 40 self-adhesive strips per card 5 mm wide strip Marking 1 - 16 (100 x) 210-334/762-202 1</p> <p>For direct printing, please contact factory.</p>	<p>Marker card, 40 self-adhesive strips per card 5 mm wide strip Marking 1 - 16 (100 x) 210-334/762-202 1</p> <p>For direct printing, please contact factory.</p>	<p>Marker card, 40 self-adhesive strips per card 5 mm wide strip Marking 1 - 16 (100 x) 210-334/762-202 1</p> <p>For direct printing, please contact factory.</p>
<p>Marking strips, plain, 11 mm wide, 50m roll white 2009-110 1</p>	<p>Marking strips, plain, 11 mm wide, 50m roll white 2009-110 1</p>	<p>Marking strips, plain, 11 mm wide, 50m roll white 2009-110 1</p>
<p>Mounting adapter for DIN 35-rail, for snap-fit mounting to male connectors with CAGE CLAMP®S 831-137 1</p>	<p>Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade 210-721 1</p>	<p>Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade 210-721 1</p>

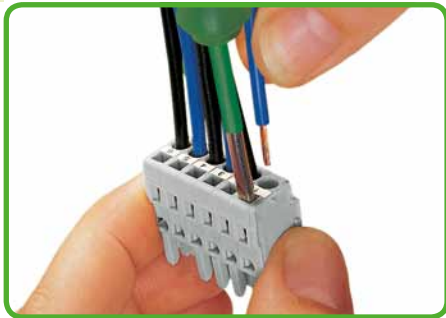
Dimensions L = (pole no. - 1) x pin spacing + 9.5 mm



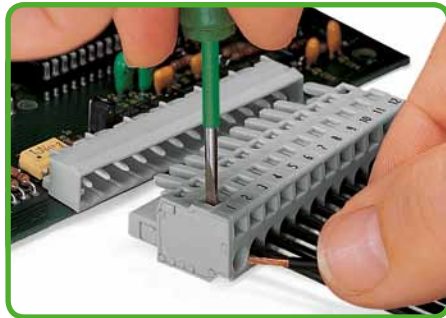
MULTI CONNECTION SYSTEM MIDI Classic

Description and Handling

CAGE CLAMP® connection



Inserting conductor using 3.5 mm screwdriver – CAGE CLAMP® actuation parallel to conductor entry.

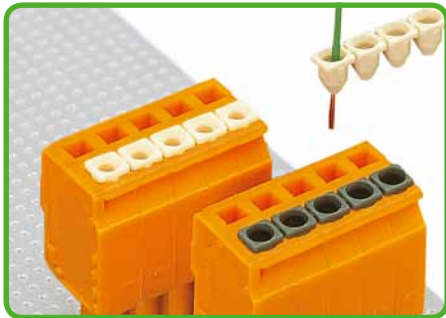


Inserting conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



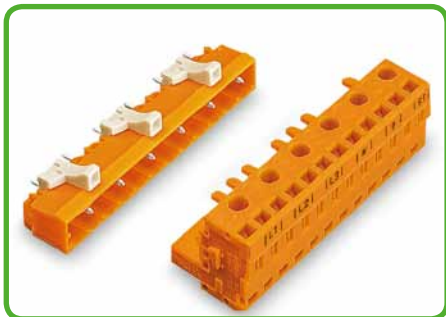
Inserting conductor into CAGE CLAMP® unit via 231-131 operating lever.

Insulation stop

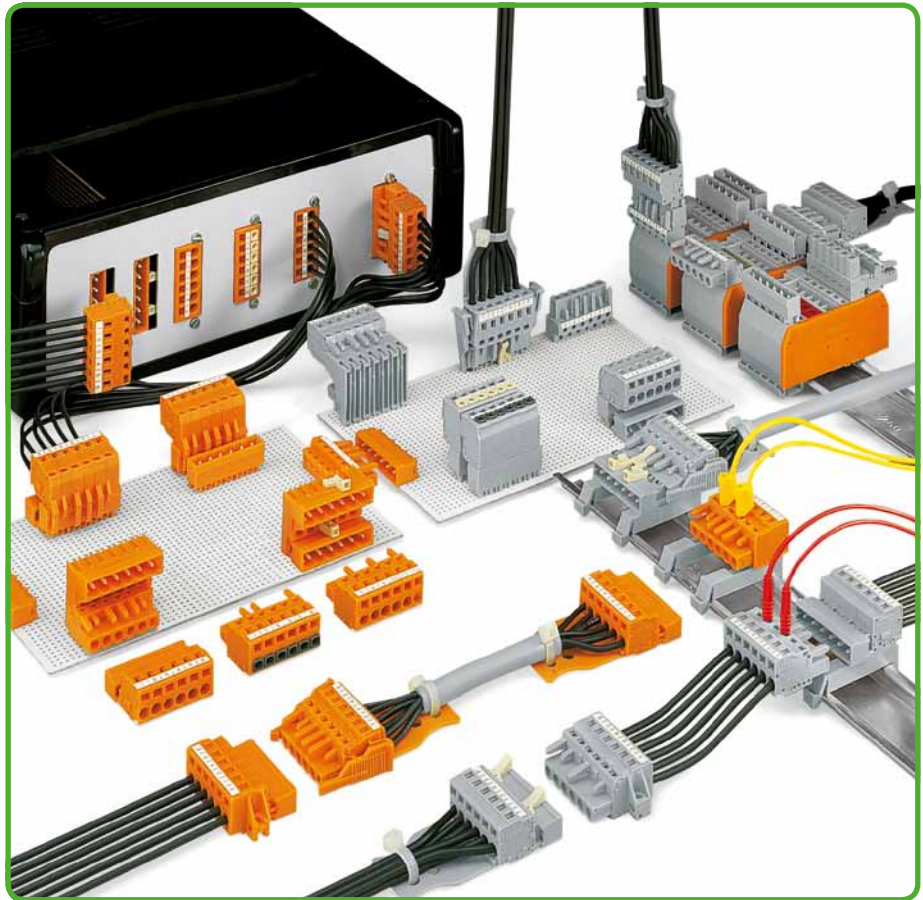


Prevents conductor insulation from being inserted into the clamping unit for CAGE CLAMP® and CAGE CLAMP®S.

Pin spacing 10 mm and 10.16 mm



Shown here with 10.16 mm/0.4 in spacing (upon request).



Coding

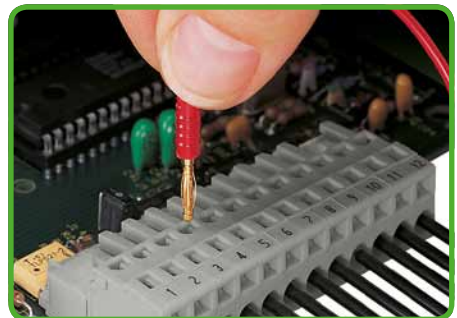


Coding a male header – fitting coding key(s).



Coding a female connector – removing coding finger(s).

Testing



Testing female connector with CAGE CLAMP®. Vertical insertion of 2 mm or 2.3 mm Ø test plug.

CAGE CLAMP® clamps the following copper conductors:



solid



stranded



fine-stranded



tip-bonded



with ferrule



with pin terminal

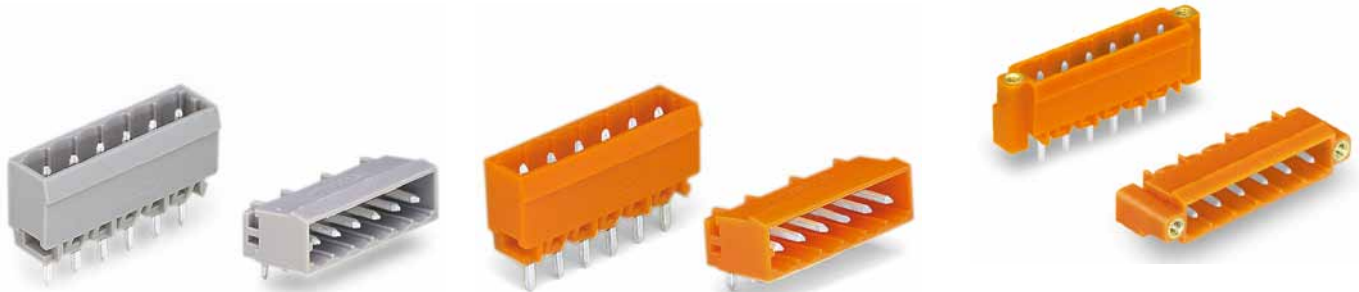
Strip length, see packaging or instructions.

MULTI CONNECTION SYSTEM MIDI Classic

Male Headers with Solder Pins

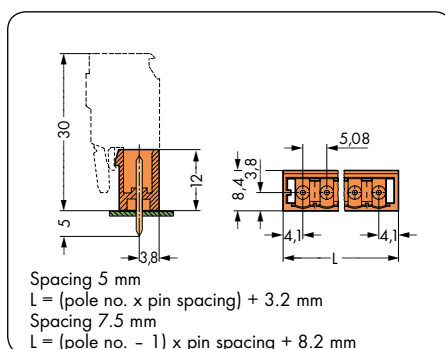
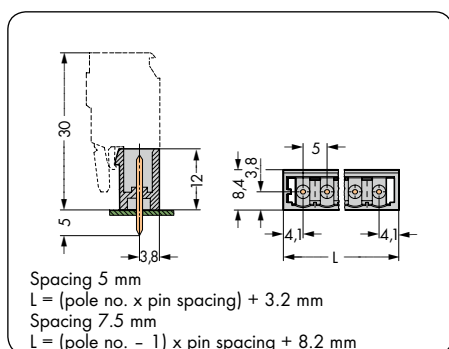
Pin Spacing 5 mm; 5.08 mm; 7.5 mm and 7.62 mm

Pin spacing 5 mm/0.197 in, gray 320 V/4 kV/3 300 V, 10 A I_N 12 A Pin spacing 7.5 mm/0.295 in, gray 630 V/6 kV/3 300 V, 10 A I_N 12 A Approvals	Pin spacing 5.08 mm/0.2 in, orange 250 V/4 kV/3 300 V, 10 A I_N 12 A Pin spacing 7.62 mm/0.3 in, orange 630 V/6 kV/3 300 V, 10 A I_N 12 A Approvals	Accessories
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For male headers with screw flanges, see Full Line Catalog, Volume 2.

Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit	Accessories, 231 Series	Item No.
Male header with 1 x 1 mm solder pins, gray				Male header with 1 x 1 mm solder pins, orange				Coding key, snap-on type,	
Pin spacing 5 mm				Pin spacing 5.08 mm				5 mm and 5.08 mm pin spacing light gray 231-129 100	
straight				straight				7.5 mm and 7.62 mm pin spacing light gray 231-130 100	
2	231-132/001-000	231-432/001-000	200	2	231-332/001-000	231-532/001-000	200	Fixing element, horizontal,	
3	231-133/001-000	231-433/001-000	200	3	231-333/001-000	231-533/001-000	200	5 mm and 7.5 mm pin spacing gray 231-193 100	
4	231-134/001-000	231-434/001-000	200	4	231-334/001-000	231-534/001-000	200	Fixing element, horizontal,	
5	231-135/001-000	231-435/001-000	200	5	231-335/001-000	231-535/001-000	200	5.08 mm and 7.62 mm pin spacing orange 231-393 100	
:	:	:	:	:	:	:	:	Tapping screw,	
12	231-142/001-000	231-442/001-000	100	12	231-342/001-000	231-542/001-000	100	for 1.8 mm Ø mounting hole B 2.2 x 13 mm 231-194 100	
21	231-151/001-000	231-451/001-000	50	21	231-351/001-000	231-551/001-000	50	Screw with nut,	
22	231-152/001-000	231-452/001-000	50	22	231-352/001-000	231-552/001-000	50	for fixing element M 2 x 12 mm 231-195 100	
23	231-153/001-000	231-453/001-000	50	23	231-353/001-000	231-553/001-000	50	Separator, for formation of groups	
24	231-154/001-000	231-454/001-000	50	24	231-354/001-000	231-554/001-000	50	light gray 231-500 100	
Pin spacing 7.5 mm				Pin Spacing 7.62 mm					
straight				straight					
2	231-232/001-000	231-832/001-000	200	2	231-732/001-000	231-932/001-000	200		
3	231-233/001-000	231-833/001-000	200	3	231-733/001-000	231-933/001-000	200		
4	231-234/001-000	231-834/001-000	100	4	231-734/001-000	231-934/001-000	100		
5	231-235/001-000	231-835/001-000	100	5	231-735/001-000	231-935/001-000	100		
6	231-236/001-000	231-836/001-000	100	6	231-736/001-000	231-936/001-000	100		
7	231-237/001-000	231-837/001-000	50	7	231-737/001-000	231-937/001-000	50		
8	231-238/001-000	231-838/001-000	50	8	231-738/001-000	231-938/001-000	50		
9	231-239/001-000	231-839/001-000	50	9	231-739/001-000	231-939/001-000	50		
10	231-240/001-000	231-840/001-000	50	10	231-740/001-000	231-940/001-000	50		
11	231-241/001-000	231-841/001-000	50	11	231-741/001-000	231-941/001-000	50		
12	231-242/001-000	231-842/001-000	50	12	231-742/001-000	231-942/001-000	50		
13	231-243/001-000	231-843/001-000	50						
16	231-246/001-000	231-846/001-000	50						
Dimensions Drilled hole diameter: 1.4 ^{+0.1} mm (1 x 1 mm solder pin)									



Approvals are available online at: www.wago.com.
 For technical explanations and abbreviations, see technical section.

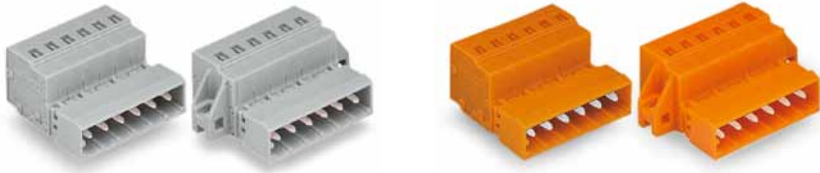
MULTI CONNECTION SYSTEM MIDI Classic

Male Connectors

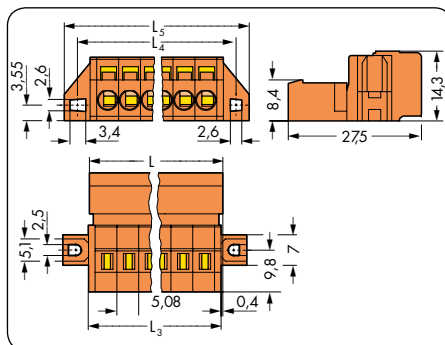
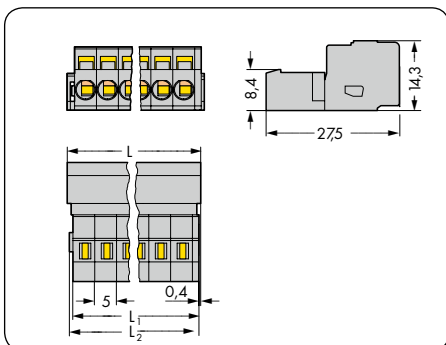
Pin Spacing 5 mm; 5.08 mm; 7.5 mm and 7.62 mm



<p>Pin spacing 5 mm/0.197 in, gray 0.08 - 2.5 mm² AWG 28 - 12* 320 V/4 kV/3, 12 A 300 V, 15 A </p> <p>Pin spacing 7.5 mm/0.295 in, gray 630 V/6 kV/3 300 V, 15 A </p> <p> 8 - 9 mm / 0.33 in</p> <p> Approvals</p>	<p>Pin spacing 5.08 mm/0.2 in, orange 0.08 - 2.5 mm² AWG 28 - 12* 320 V/4 kV/3, 12 A 300 V, 15 A </p> <p>Pin spacing 7.62 mm/0.3 in, orange 630 V/6 kV/3 300 V, 15 A </p> <p> 8 - 9 mm / 0.33 in</p> <p> Approvals</p>	<p>Accessories</p>
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Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Accessories, Series 231 and 731	Item No.
Male connector with CAGE CLAMP® and fixing flanges, for screw or similar mounting types, for vertical or horizontal mounting, gray				Male connector with CAGE CLAMP® and fixing flanges, for screw or similar mounting types, for vertical or horizontal mounting, orange								Marking strips, 100 self-adhesive strips			
Pin spacing 5 mm				Pin spacing 5.08 mm								Pin spacing 5 mm			
with fixing flanges				with fixing flanges								1 - 12 (300x) 210-331/500-103			
2	231-602	100	231-602/019-000	100	2	231-632	100	231-632/019-000	100	13 - 24 (300x)	210-331/500-104	Pin spacing 5.08 mm			
3	231-603	100	231-603/019-000	50	3	231-633	100	231-633/019-000	50	1 - 12 (200x)	210-331/508-103	Pin spacing 7.5 mm			
4	231-604	100	231-604/019-000	50	4	231-634	100	231-634/019-000	50	13 - 24 (200x)	210-331/508-104	1 - 16 (100x) 210-331/750-202			
5	231-605	50	231-605/019-000	50	5	231-635	50	231-635/019-000	50	Pin spacing 7.62 mm					
:	:	:	:	:	:	:	:	:	:	1 - 16 (100x) 210-331/762-202					
12	231-612	25	231-612/019-000	25	12	231-642	25	231-642/019-000	25	Operating tool with partially insulated shaft, type 2, (3.5x0.5) mm blade					
:	:	:	:	:	:	:	:	:	:	210-720 1					
21	231-621	10	231-621/019-000	10	21	231-651	10	231-651/019-000	10	Coding key, snap-on type, 5 mm and 5.08 mm pin spacing					
22	231-622	10	231-622/019-000	10	22	231-652	10	231-652/019-000	10	light gray 231-129 100					
23	231-623	10	231-623/019-000	10	23	231-653	10	231-653/019-000	10	7.5 mm and 7.62 mm pin spacing					
24	231-624	10	231-624/019-000	10	24	231-654	10	231-654/019-000	10	light gray 231-130 100					
Pin spacing 7.5 mm (pole no. - 1) + 5 mm				Pin spacing 7.62 mm (pole no. - 1) + 5.08 mm								Insulation stop, 5 pcs/strip			
with fixing flanges				with fixing flanges								5 mm and 5.08 mm pin spacing			
2	731-602	100	731-602/019-000	50	2	731-632	100	731-632/019-000	50	0.08-0.2mm ² ②					
3	731-603	100	731-603/019-000	50	3	731-633	100	731-633/019-000	50	white 231-670 200					
4	731-604	50	731-604/019-000	50	4	731-634	50	731-634/019-000	50	0.25-0.5 mm ²					
5	731-605	50	731-605/019-000	50	5	731-635	50	731-635/019-000	50	light gray 231-671 200					
6	731-606	50	731-606/019-000	25	6	731-636	50	731-636/019-000	25	0.75-1 mm ²					
7	731-607	50	731-607/019-000	25	7	731-637	50	731-637/019-000	25	dark gray 231-672 200					
8	731-608	25	731-608/019-000	25	8	731-638	25	731-638/019-000	25	7.5 mm and 7.62 mm pin spacing					
9	731-609	25	731-609/019-000	25	9	731-639	25	731-639/019-000	25	0.08-0.2mm ² ②					
10	731-610	25	731-610/019-000	25	10	731-640	25	731-640/019-000	25	white 231-673 200					
11	731-611	25	731-611/019-000	10	11	731-641	25	731-641/019-000	10	0.25-0.5 mm ²					
12	731-612	25	731-612/019-000	10	12	731-642	25	731-642/019-000	10	light gray 231-674 200					
13	731-613	10	731-613/019-000	10					0.75-1 mm ²						
16	731-616	10	731-616/019-000	10					dark gray 231-675 200						
Dimensions				L = (pole no. x pin spacing) + 3.2 mm L ₁ = L - 1.7 mm L ₂ = L - 1.2 mm								② 0.2 mm ² "sol." (0.14 mm ² "fst")			
				L ₃ = L - 0.2 mm L ₄ = L ₃ + 5.8 mm L ₅ = L ₃ + 11.8 mm								Tapping screw,			
												for 1.8 mm Ø mounting hole			
												B 2.2 x 9.5 mm 209-147 100			
												Separator, for formation of groups			
												light gray 231-500 100			









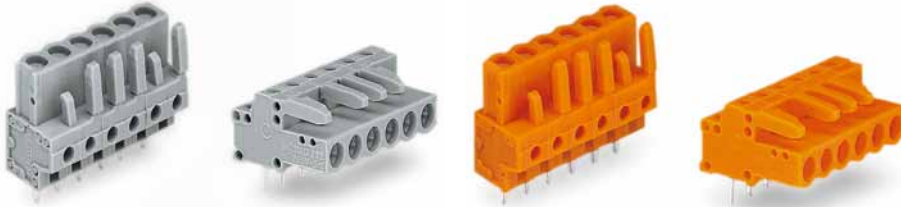
① Approvals are available online at: www.wago.com. * AWG 14: THHN, THWN
For technical explanations and abbreviations, see technical section.

MULTI CONNECTION SYSTEM MIDI Classic

Female Headers with Solder Pins

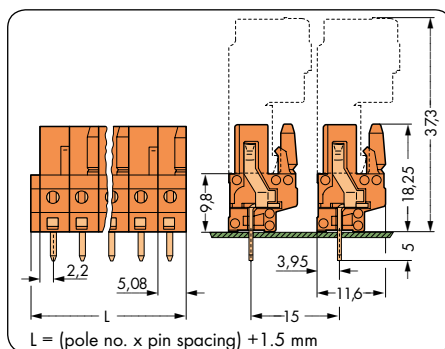
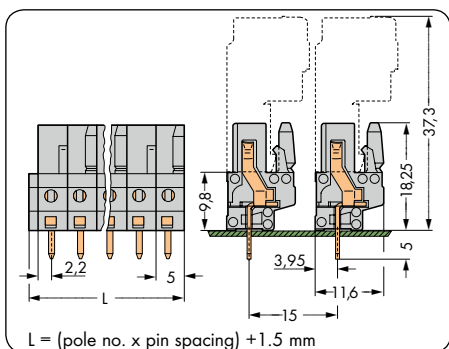
Pin Spacing 5 mm; 5.08 mm; 7.5 mm and 7.62 mm

Pin spacing 5 mm/0.197 in, gray 320 V/4 kV/3 300 V, 15 A  I_N 12 A Pin spacing 7.5 mm/0.295 in, gray 630 V/6 kV/3 300 V, 15 A  I_N 12 A  Approvals	Pin spacing 5.08 mm/0.2 in, orange 320 V/4 kV/3 300 V, 15 A  I_N 12 A Pin spacing 7.62 mm/0.3 in, orange 630 V/6 kV/3 300 V, 15 A  I_N 12 A  Approvals	Accessories
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Pole No. Item No.	Item No. Pack. Unit	Pole No. Item No.	Item No. Pack. Unit	Accessories, 232 Series	Item No.
Female header with 0.6 x 1 mm solder pins, with coding fingers, with two latches, gray		Female header with 0.6 x 1 mm solder pins, with coding fingers, with two latches, orange		Marking strips, 100 self-adhesive strips	
Pin spacing 5 mm		Pin spacing 5.08 mm		Pin spacing 5 mm	
straight angled		straight angled		1-12 (300x) 210-331/500-103 13-24 (300x) 210-331/500-104	
● 2** 232-132	232-232 100	● 2** 232-162	232-262 100	Pin spacing 5.08 mm	
● 3** 232-133	232-233 100	● 3** 232-163	232-263 100	1-12 (200x) 210-331/508-103 13-24 (200x) 210-331/508-104	
● 4 232-134	232-234 100	● 4 232-164	232-264 100	Pin spacing 7.5 mm	
● 5 232-135	232-235 100	● 5 232-165	232-265 100	1-16 (100x) 210-331/750-202	
:	:	:	:	Pin Spacing 7.62 mm	
● 12 232-142	232-242 50	● 12 232-172	232-272 50	1-16 (100x) 210-331/762-202	
:	:	:	:	Test plug, with 500 mm cable,	
● 21 232-151	232-251 10	● 21 232-181	232-281 10	2 mm Ø, red 210-136 50 2.3 mm Ø, yellow 210-137 50	
● 22 232-152	232-252 10	● 22 232-182	232-282 10		
● 23 232-153	232-253 10	● 23 232-183	232-283 10		
● 24 232-154	232-254 10	● 24 232-184	232-284 10		
Pin spacing 7.5 mm (pole no - 1) x pin spacing + 5 mm + 1.5 mm		Pin spacing 7.62 mm (pole no - 1) x pin spacing + 5.08 mm + 1.5 mm			
straight angled		straight angled			
● 2** 232-732	232-832 100	● 2** 232-762	232-862 100		
● 3** 232-733	232-833 100	● 3** 232-763	232-863 100		
● 4 232-734	232-834 50	● 4 232-764	232-864 50		
● 5 232-735	232-835 50	● 5 232-765	232-865 50		
● 6 232-736	232-836 50	● 6 232-766	232-866 50		
● 7 232-737	232-837 50	● 7 232-767	232-867 50		
● 8 232-738	232-838 25	● 8 232-768	232-868 25		
● 9 232-739	232-839 25	● 9 232-769	232-869 25		
● 10 232-740	232-840 25	● 10 232-770	232-870 25		
● 11 232-741	232-841 25	● 11 232-771	232-871 25		
● 12 232-742	232-842 25	● 12 232-772	232-872 25		
● 13 232-743	232-843 10				
● 16 232-746	232-846 10				
**one latch only		**one latch only			

Dimensions





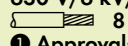



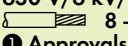

Please find the entire product range in our Full Line Catalog, Volume 2. For more information, please visit www.wago.com.

MULTI CONNECTION SYSTEM MIDI Classic

Female Connectors with Snap-In Mounting Feet

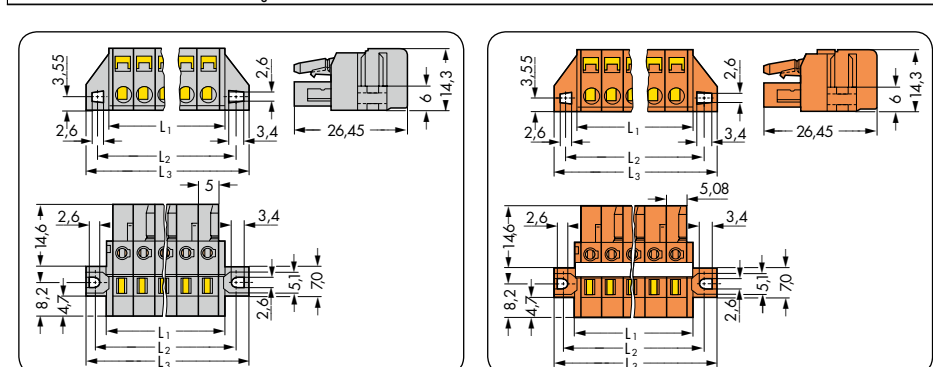
Pin Spacing 5 mm; 5.08 mm; 7.5 mm and 7.62 mm

CAGE CLAMP®

<p>Pin spacing 5 mm/0.197 in, gray 0.08 - 2.5 mm² AWG 28 - 12* 320 V/4 kV/3, 16 A 300 V, 15 A </p> <p>Pin spacing 7.5 mm/0.295 in, gray 630 V/6 kV/3 300 V, 15 A </p> <p> 8 - 9 mm / 0.33 in</p> <p> Approvals</p>	<p>Pin spacing 5.08 mm/0.2 in, orange 0.08 - 2.5 mm² AWG 28 - 12* 320 V/4 kV/3, 16 A 300 V, 15 A </p> <p>Pin spacing 7.62 mm/0.3 in, orange 630 V/6 kV/3 300 V, 15 A </p> <p> 8 - 9 mm / 0.33 in</p> <p> Approvals</p>	<p>Accessories</p>
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Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Accessories, 231 and 231 Series	Item No.
Female connector with CAGE CLAMP® and fixing flanges for panel mounting, with coding fingers, with two latches, for screw or similar mounting types, gray						Female connector with CAGE CLAMP® and fixing flanges for panel mounting, with coding fingers, with two latches, for screw or similar mounting types, orange						Marking strips, 100 self-adhesive strips			
and snap-in mounting feet, for 0.6 - 1.2 mm plate thickness, 3.5 mm Ø mounting holes, or with 209-137 mounting adapter for DIN 35 rail						and snap-in mounting feet, for 0.6 - 1.2 mm plate thickness, 3.5 mm Ø mounting holes, or with 209-137 mounting adapter for DIN 35 rail						Pin spacing 5 mm			
Pin spacing 5 mm						Pin spacing 5.08 mm						Pin spacing 5.08 mm			
with fixing flanges						with snap-in mounting feet						1 - 12 (300x) 210-331/500-103			
with fixing flanges						with snap-in mounting feet						13 - 24 (300x) 210-331/500-104			
with fixing flanges						with snap-in mounting feet						Pin spacing 7.5 mm			
with fixing flanges						with snap-in mounting feet						1 - 16 (100x) 210-331/750-202			
with fixing flanges						with snap-in mounting feet						Pin Spacing 7.62 mm			
with fixing flanges						with snap-in mounting feet						1 - 16 (100x) 210-331/762-202			
with fixing flanges						with snap-in mounting feet						Insulation stop, 5 pcs/strip,			
with fixing flanges						with snap-in mounting feet						5 mm and 5.08 mm pin spacing			
with fixing flanges						with snap-in mounting feet						0.08 - 0.2mm ² ②			
with fixing flanges						with snap-in mounting feet						white 231-670 200			
with fixing flanges						with snap-in mounting feet						0.25 - 0.5 mm ²			
with fixing flanges						with snap-in mounting feet						light gray 231-671 200			
with fixing flanges						with snap-in mounting feet						0.75 - 1mm ²			
with fixing flanges						with snap-in mounting feet						dark gray 231-672 200			
with fixing flanges						with snap-in mounting feet						7.5 mm and 7.62 mm pin spacing			
with fixing flanges						with snap-in mounting feet						0.08 - 0.2mm ² ②			
with fixing flanges						with snap-in mounting feet						white 231-673 200			
with fixing flanges						with snap-in mounting feet						0.25 - 0.5 mm ²			
with fixing flanges						with snap-in mounting feet						light gray 231-674 200			
with fixing flanges						with snap-in mounting feet						0.75 - 1mm ²			
with fixing flanges						with snap-in mounting feet						dark gray 231-675 200			
with fixing flanges						with snap-in mounting feet						② 0.2 mm ² "sol." (0.14 mm ² "f-st")			
with fixing flanges						with snap-in mounting feet						Test plug, with 500 mm cable,			
with fixing flanges						with snap-in mounting feet						2 mm Ø, red 210-136 50			
with fixing flanges						with snap-in mounting feet						2.3 mm Ø, yellow 210-137 50			
with fixing flanges						with snap-in mounting feet						Mounting adapter, for DIN 35 rail,			
with fixing flanges						with snap-in mounting feet						3 or more poles			
with fixing flanges						with snap-in mounting feet						gray 209-137 1			
with fixing flanges						with snap-in mounting feet						Tapping screw,			
with fixing flanges						with snap-in mounting feet						for 1.8 mm Ø mounting hole			
with fixing flanges						with snap-in mounting feet						B 2.2 x 9.5			
with fixing flanges						with snap-in mounting feet						209-147 100			
with fixing flanges						with snap-in mounting feet						Operating tool with partially insulated shaft,			
with fixing flanges						with snap-in mounting feet						type 2, (3.5x0.5) mm blade			
with fixing flanges						with snap-in mounting feet						210-720 1			



Please find the entire product range in our Full Line Catalog, Volume 2. For more information, please visit www.wago.com.

MULTI CONNECTION SYSTEM MIDI Classic

Angled Female Connectors for Panel Mounting



Pin Spacing 5 mm and 7.5 mm, Multi Mounting Adapter, Test Plug Adapters

Pin spacing 5 mm/0.197 in, gray
 0.08 - 2.5 mm² | AWG 28 - 12*
 320 V/4 kV/3, 12 A | 300 V, 15 A

Pin spacing 7.5 mm/0.295 in, gray
 630 V/6 kV/3 | 300 V, 15 A

8 - 9 mm / 0.33 in

1 Approvals

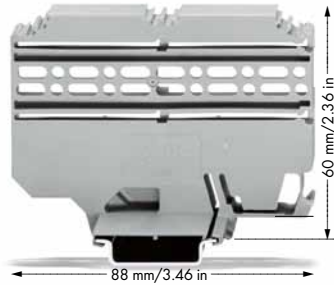
Multi mounting adapter
 for male and female connectors
 with snap-in mounting feet

Adapter width 10 mm/0.394 in

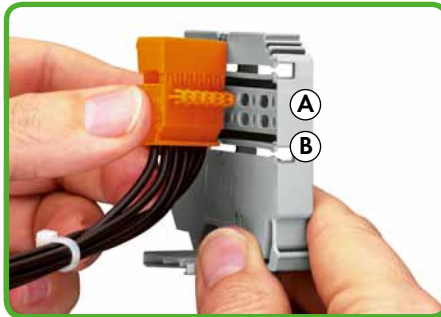
Test plug adapter for female connectors
 Pin spacing 5 mm; 5.08 mm; 7.5 mm and 7.62 mm
 0.08 - 2.5 mm² | AWG 28 - 12
 320 V/4 kV/3 | 300 V, 15 A

8 - 9 mm / 0.33 in

1 Approvals



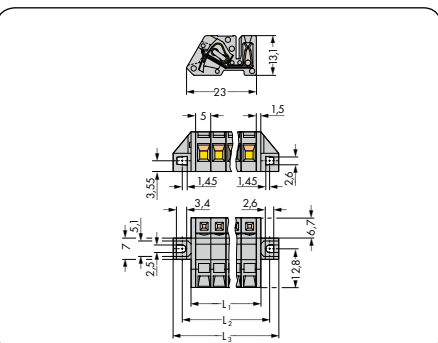
Pole No.	Item No.	Pack. Unit	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Item No.	Pack. Unit					
Angled female connector with CAGE CLAMP® and fixing flanges for panel mounting, for screw or similar mounting types, gray and snap-in mounting feet, for 0.6 - 1.2 mm plate thickness, 3.5 mm Ø mounting holes					Multi mounting adapter					Test plug adapter for female connector, with CAGE CLAMP® connection				
					gray	209-148	25	0.08-2.5 mm ² (AWG 28-14), light gray						
										5 mm and 5.08 mm pin spacing 231-661 100				
										7.5 mm and 7.62 mm pin spacing 231-662 100				
Pin spacing 5 mm										Accessories, 731 Series				
with fixing flanges					with snap-in mounting feet					Test plug, with 500 mm cable,				
2	731-502/031-000	100	731-502/008-000	100						2 mm Ø, red	210-136	50		
3	731-503/031-000	50	731-503/008-000	50						2.3 mm Ø, yellow	210-137	50		
4	731-504/031-000	50	731-504/008-000	50						Operating lever, for male and female connectors with CAGE CLAMP®				
5	731-505/031-000	50	731-505/008-000	50						231-131 25				
12	731-512/031-000	25	731-512/008-000	25						Screw with nut, M 2 x 12,				
17	731-517/031-000	10	731-517/008-000	25						for fixing element				
18	731-518/031-000	10	731-518/008-000	25						231-195	100			
19	731-519/031-000	10	731-519/008-000	10						Operating tool with partially insulated shaft,				
20	731-520/031-000	10	731-520/008-000	10						type 2, (3.5x0.5) mm blade				
										Marking strips, 100 self-adhesive strips				
										Spacing 5 mm				
					1-12 (300x) 210-331/0500-0103									
					13-24 (300x) 210-331/0500-0104									
					Spacing 7.5 mm									
					1-16 (100x) 210-331/0750-0202									



If either the male or the female connector is equipped with mounting feet and mounted on the adapter via its oblong holes or open grooves (A/B), but the mating half is not, then the connection remains pluggable.



The adapter can be marked either with WMB or miniature WSB markers. For marking accessories, see Section 6.



1 Approvals are available online at: www.wago.com. For technical explanations and abbreviations, see technical section.

* AWG 12: THHN, THWN

MULTI CONNECTION SYSTEM MINI and MIDI

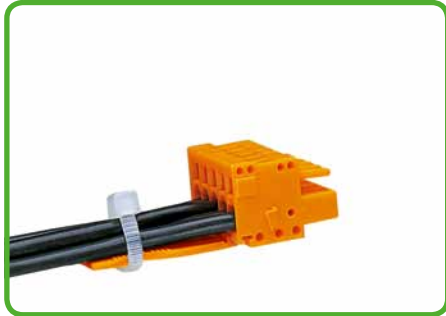
Strain Relief Plates and Snap-on Type Strain Relief Housings

Strain relief plates suitable for:
 - female connectors with CAGE CLAMP®
 - male connectors with CAGE CLAMP®

MULTI CONNECTION SYSTEM MINI
 734 Series

MULTI CONNECTION SYSTEM MIDI
 231, 721 and 731 Series

Snap-on type strain relief housings for:
 - female connectors with CAGE CLAMP®
 - male connectors with CAGE CLAMP®



Width	Item no. suffix
Strain relief plate, pre-assembled, for 734 Series	
6 mm	.../032-000
12.5 mm	.../033-000
25 mm	.../034-000
35 mm	.../035-000
55 mm	.../036-000
Ordering example: Female connector with strain relief plate, 3.81 mm pin spacing, 5-pole, orange 734-205/033-000	

Width	Item no. suffix
Strain relief plate, pre-assembled, for 231, 721 and 731 Series	
11.5 mm	.../032-000
20 mm	.../033-000
30 mm	.../034-000
50 mm	.../035-000
Ordering example: Male connector with strain relief plate, 5 mm pin spacing, 8-pole, light gray, 721-608/034-000	

Strain relief plate, loose, for 734 Series			
Item No.	Color	Pole No.	Width
734-127	light gray	2 - 4	6 mm
734-227	orange		
734-128	light gray	4 - 8	12.5 mm
734-228	orange		
734-129	light gray	5 - 12	25 mm
734-229	orange		
734-126	light gray	13 - 16	35 mm
734-226	orange		
734-426	light gray	max. 17	55 mm
734-428	orange		

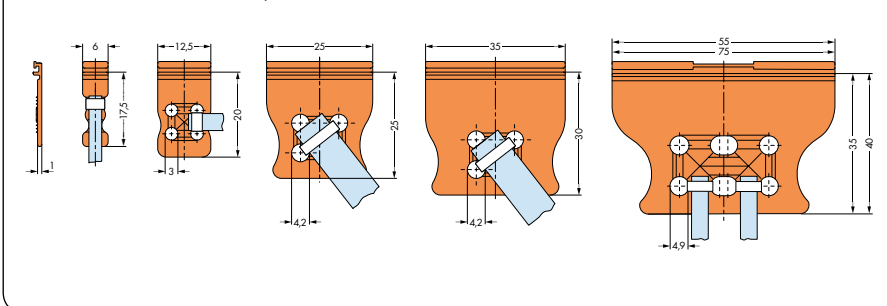
Pole No.	Item No.	Item No.	Pack. Unit
Snap-on type strain relief housing, consists of strain relief support and housing, for 734 Series			
	Pin spacing 3.5 mm	Pin spacing 3.81 mm	
	light gray	orange	
2	○ 734-602 ②	● 734-632 ②	50
3	○ 734-603 ②	● 734-633 ②	25
:	:	:	
6	○ 734-606	● 734-636	25
7	○ 734-607	-	25
8	○ 734-608	● 734-638	25
9	○ 734-609	● 734-639	25
10	○ 734-610	● 734-640	25
12	○ 734-612	● 734-642	25
for 231 and 721 Series			
	Pin spacing 5 mm	Pin spacing 5.08 mm	
2	○ 232-602	● 232-632	25
3	○ 232-603	● 232-633	25
:	:	:	
6	○ 232-606	● 232-636	25
7	○ 232-607	-	25
8	○ 232-608	● 232-638	25
9	○ 232-609	● 232-639	25
10	○ 232-610	● 232-640	25
12	○ 232-612	● 232-642	25
for 231, 721 and 731 Series			
	Pin spacing 7.5 mm	Pin Spacing 7.62 mm	
2	○ 232-662 ③	● 232-682 ③	25
3	○ 232-663 ③	● 232-683 ③	25
4	○ 232-664	● 232-684	25
5	○ 232-665	● 232-685	25
7	○ 232-667	● 232-687	25
Cable clamp, for strain relief 209-177 25			
	for pole no.	Spacing in mm	
	6- to 12-pole	3,5 + 3,81	
	4- to 6-pole	5 + 5,08	
	3-pole	7,5 + 7,62	
Cable clamp, for strain relief 209-174 25			
	7 or more poles	5 + 5,08	
	5 or more poles	7,5 + 7,62	
Fixing screws, for cable clamp 209-176 50			
	for pole no.	Spacing in mm	
	4- to 6-pole	5 + 5,08	
	3-pole	7,5 + 7,62	
Fixing screws, for cable clamp 209-172 50			
	6- to 12-pole	3,5 + 3,81	
Fixing screws, for cable clamp 209-173 50			
	7 or more poles	5 + 5,08	
	5 or more poles	7,5 + 7,62	

Both male and female connectors with CAGE CLAMP®S can be retrofitted with a strain relief plate or pre-assembled with one at the factory. Plates are available in 5 different sizes.

An "item no. suffix", referring to the width of the strain relief plate, is added to the "basic item no." and determines the type of male or female connector (see ordering examples).

The arrangement of the attachments for cable ties allows single conductors or multi-core cables to be secured in different ways.

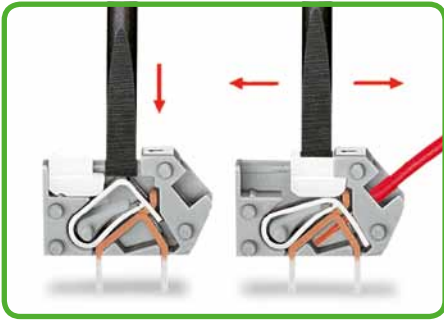
Dimensions of loose strain relief plates:



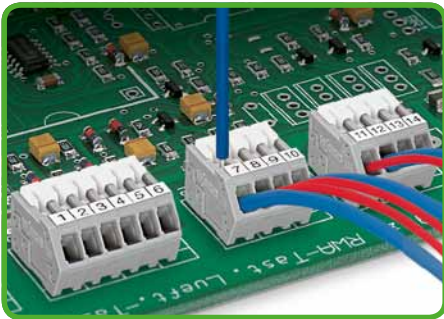
② 2 to 5 poles only suitable for cable ties (734 Series), ③ 2 to 3 poles only suitable for cable ties (231, 721 and 731 Series)

PCB Terminal Strips, Description and Handling 218, 233 and 234 Series

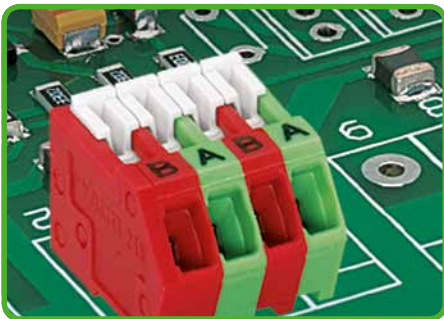
218 Series



Conductor termination: To momentarily open clamping unit, use screwdriver and then insert stripped conductor. To open clamping unit for extended period, move locking slide toward conductor entry hole. Then fully insert stripped conductor and move locking slide back to original position (also possible to perform with fingernail).



Testing directly on the clamping spring.
Marking with self-adhesive marking strips.



Factory direct printing.



Size comparison between 218 Series and 745 Series high-current terminal blocks.

CAGE CLAMP® clamps the following copper conductors:



solid



stranded



fine-stranded



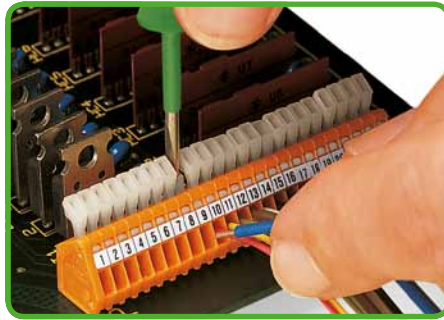
tip-bonded



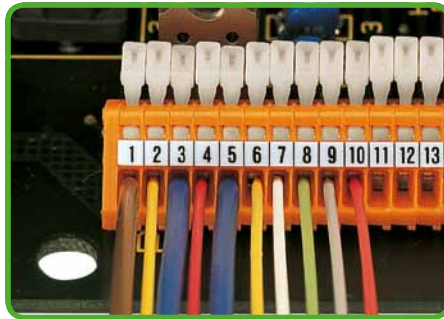
with ferrule

Strip length, see packaging or instructions.

233 Series



Inserting/removing conductor.

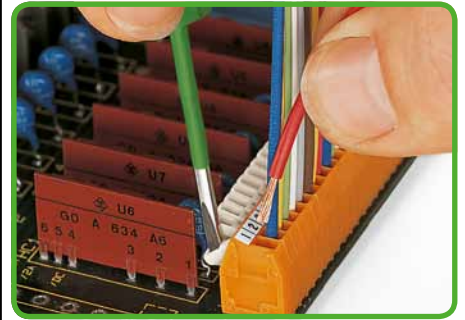


Nominal cross-section 0.5 mm²/AWG 20;
0.75 mm²/AWG 18 only in every other position.



Marking via self-adhesive marking strips (see figure) or factory direct printing.

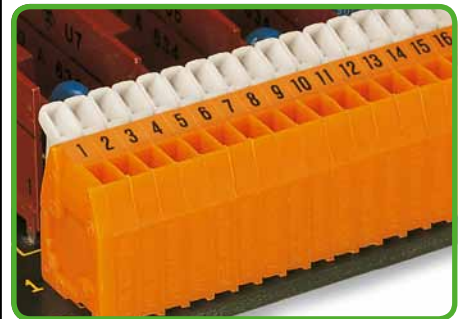
234 Series



Inserting/removing conductor.



Nominal cross-section 0.5 mm²/AWG 20;
0.75 mm²/AWG 18 only in every other position.





Marking via factory direct printing (see figure) or self-adhesive marking strips.

Terminal Strips with Locking Slides 0.5 mm² Pin Spacing 2.5 mm and 2.54 mm 218 Series

CAGE CLAMP®





2

115

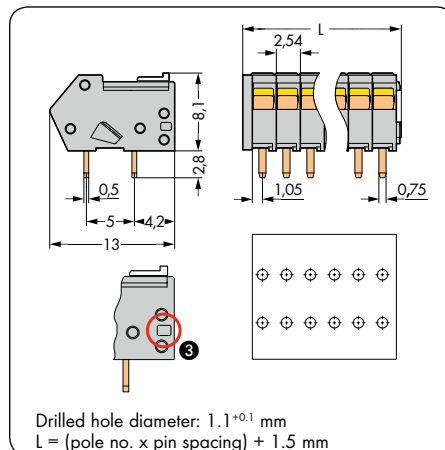
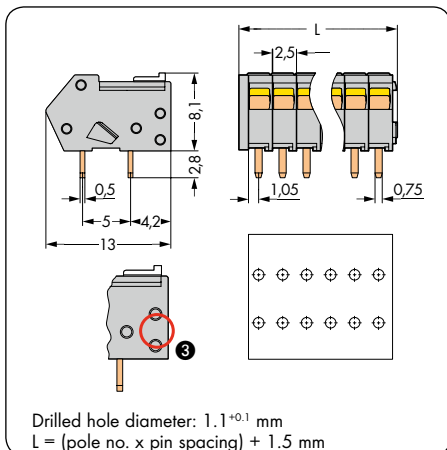
Pin spacing 2.5 mm / 0.098 in 0.08 - 0.5 mm ² ① AWG 28 - 20 ① 160 V/2.5 kV/2 150 V, 4 A I _N 6 A  5 - 6 mm / 0.22 in ② Approvals	Pin spacing 2.54 mm / 0.1 in 0.08 - 0.5 mm ² ① AWG 28 - 20 ① 160 V/2.5 kV/2 150 V, 4 A I _N 6 A  5 - 6 mm / 0.22 in ② Approvals	Accessories
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2

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Accessories, 218 Series	Item No.
1-conductor terminal strip with locking slides, 2 solder pins/pole in line, gray, locking slides, white			1-conductor terminal strip with locking slides, 2 solder pins/pole in line, gray, locking slides, white			Marker cards,	
● 2	218-102	1000 (10x100)	● 2	218-502	1000 (10x100)		100 self-adhesive strips per card
● 3	218-103	1000 (10x100)	● 3	218-503	1000 (10x100)		
● 4	218-104	500 (5x100)	● 4	218-504	500 (5x100)		
● 5	218-105	500 (5x100)	● 5	218-505	500 (5x100)		
● 6	218-106	280 (4x70)	● 6	218-506	280 (4x70)		
● 7	218-107	240 (4x60)	● 7	218-507	240 (4x60)		
● 8	218-108	220 (4x55)	● 8	218-508	220 (4x55)		
● 9	218-109	200 (4x50)	● 9	218-509	200 (4x50)		
● 10	218-110	180 (4x45)	● 10	218-510	180 (4x45)		
● 11	218-111	160 (4x40)	● 11	218-511	160 (4x40)		
● 12	218-112	140 (4x35)	● 12	218-512	140 (4x35)		
● 13	218-113	140 (4x35)	● 13	218-513	140 (4x35)		
● 14	218-114	120 (4x30)	● 14	218-514	120 (4x30)		
● 15	218-115	120 (4x30)	● 15	218-515	120 (4x30)		
● 16	218-116	100 (4x25)	● 16	218-516	100 (4x25)		
:	:	:	:	:	:		
● 21	218-121	80 (4x20)	● 21	218-521	80 (4x20)		
● 22	218-122	80 (4x20)	● 22	218-522	80 (4x20)		
● 23	218-123	80 (4x20)	● 23	218-523	80 (4x20)		
● 24	218-124	60 (4x15)	● 24	218-524	60 (4x15)		
Item no. suffix for terminal strips in			Ordering example:			Test pin, 1 mm Ø,	
● red	.../000-005		Terminal strip, 2.5 mm pin spacing, 8-pole, orange				with solder connection for test cable
● blue	.../000-006		2 solder pins in line 218-108/000-012				735-500 1
● orange	.../000-012						
● green	.../000-023						
Locking slides, white						Operating tool with partially insulated shaft,	
							type 1, (2.5 x 0.4) mm blade
							210-719 1
						Operating tool, partially insulated	
							insulated
							233-335 1
							233-332 25

Dimensions






- ① 0.75 mm²/AWG 18 only in every other position
- ③ A groove at the back of the terminal strip differentiates between the two pin spacings.

② Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

PCB Terminal Strips 0.5 mm² Pin Spacing 2.5 mm and 2.54 mm 233 and 234 Series






Pin spacing 2.5 mm / 0.098 in Pin spacing 2.54 mm / 0.1 in 0.08 - 0.5 mm ² ② AWG 28 - 20 ② 250 V/2.5 kV/2 150 V, 4 A ③ I _N 6 A  5 - 6 mm / 0.22 in ① Approvals	Pin spacing 2.5 mm / 0.098 in Pin spacing 2.54 mm / 0.1 in 0.08 - 0.5 mm ² ② AWG 28 - 20 ② 160 V/2.5 kV/2 150 V, 4 A ③ I _N 6 A  5 - 6 mm / 0.22 in ① Approvals	Pin spacing 2.5 mm / 0.098 in Pin spacing 2.54 mm / 0.1 in 0.08 - 0.5 mm ² ② AWG 28 - 20 ② 160 V/2.5 kV/2 150 V, 4 A ③ I _N 6 A  5 - 6 mm / 0.22 in ① Approvals
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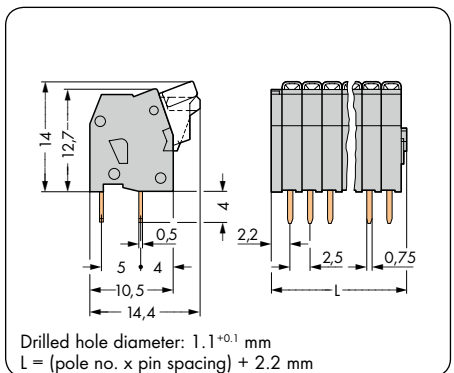
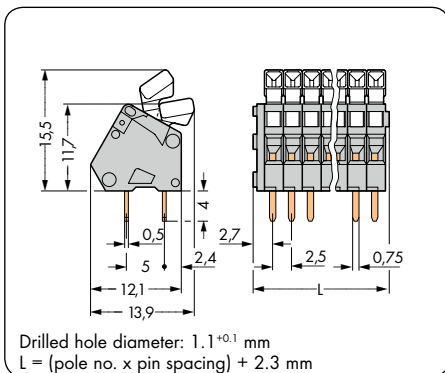
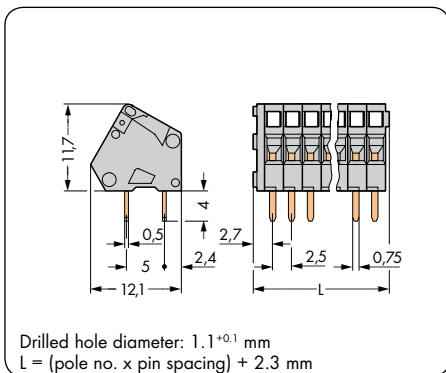


Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit
Terminal strip without push-buttons, standard lengths, other lengths upon request, 2 solder pins/pole				Terminal strip with push-buttons, standard lengths, other lengths upon request, 2 solder pins/pole				Terminal strip with push-buttons, standard lengths, other lengths upon request, 2 solder pins/pole			
Pin spacing 2.5 mm		2.54 mm		Pin spacing 2.5 mm		2.54 mm		Pin spacing 2.5 mm		2.54 mm	
	gray	orange			gray	orange			gray	orange	
2	233-102	233-402	600 (6x100)	2	233-202	233-502	600 (6x100)	2	234-202	234-502	600 (6x100)
3	233-103	233-403	500 (4x125)	3	233-203	233-503	500 (4x125)	3	234-203	234-503	520 (4x130)
4	233-104	233-404	400 (4x100)	4	233-204	233-504	400 (4x100)	4	234-204	234-504	400 (4x100)
5	233-105	233-405	340 (4x85)	5	233-205	233-505	340 (4x85)	5	234-205	234-505	340 (4x85)
6	233-106	233-406	280 (4x70)	6	233-206	233-506	280 (4x70)	6	234-206	234-506	280 (4x70)
7	233-107	233-407	240 (4x60)	7	233-207	233-507	240 (4x60)	7	234-207	234-507	240 (4x60)
8	233-108	233-408	220 (4x55)	8	233-208	233-508	220 (4x55)	8	234-208	234-508	220 (4x55)
9	233-109	233-409	200 (4x50)	9	233-209	233-509	200 (4x50)	9	234-209	234-509	200 (4x50)
10	233-110	233-410	180 (4x45)	10	233-210	233-510	180 (4x45)	10	234-210	234-510	180 (4x45)
12	233-112	233-412	140 (4x35)	12	233-212	233-512	140 (4x35)	12	234-212	234-512	140 (4x35)
16	233-116	233-416	100 (4x25)	16	233-216	233-516	100 (4x25)	16	234-216	234-516	100 (4x25)
24	233-124	233-424	80 (4x20)	24	233-224	233-524	80 (4x20)	24	234-224	234-524	80 (4x20)
Terminal strips without push-buttons cannot be retrofitted with push-buttons!				For other colors, please contact factory.				For other colors, please contact factory.			

Accessories, 233 and 234 Series

Marker cards, 100 self-adhesive strips per card  Marking Pin spacing 2.5 mm Pin spacing 2.54 mm 1 - 16 (400 x) 210-331/250-202 210-331/254-202 17 - 32 (400 x) 210-331/250-204 210-331/254-204 33 - 48 (400 x) 210-331/250-206 210-331/254-206 For direct printing, please contact factory.	Operating tool, for professional wiring of terminal strips  partially insulated 233-335 1 insulated 233-332 25 Operating tool with partially insulated shaft, type 1, (2.5 x 0.4)mm blade  210-719 1
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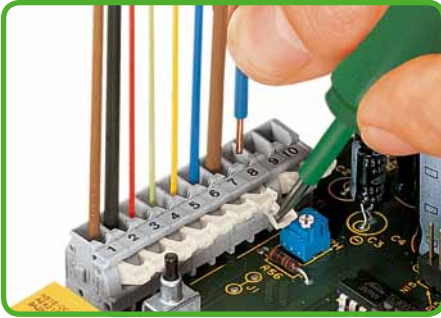
Dimensions



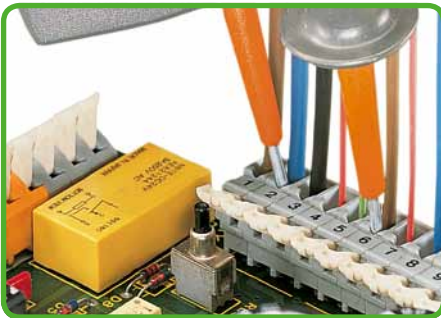
① Approvals are available online at: www.wago.com.
 ② 0.75 mm²/AWG 18 only in every other position.
 For technical explanations and abbreviations, see technical section.

PCB Terminal Strips, Description and Handling 255, 256 and 257 Series

255 Series



Inserting/removing conductor via push-button - 255 Series.

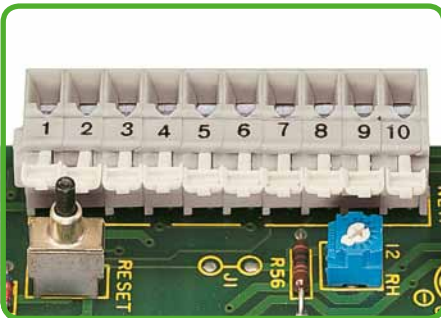


Testing with test probes.



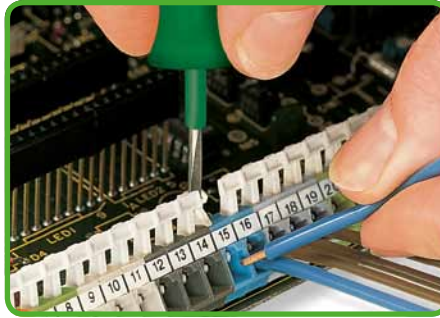
Inserting/removing conductor via finger-operated lever - 255 Series.

For terminal strips with finger-operated levers, see Full Line Catalog, Volume 2.

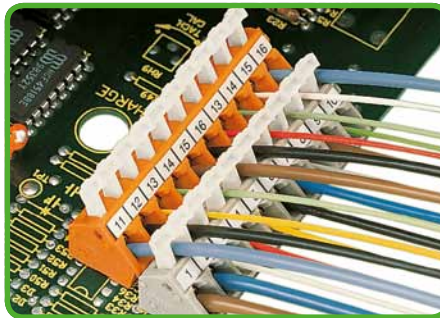


Factory direct printing.

256 Series



Inserting/removing conductor via push-button - 256 Series.

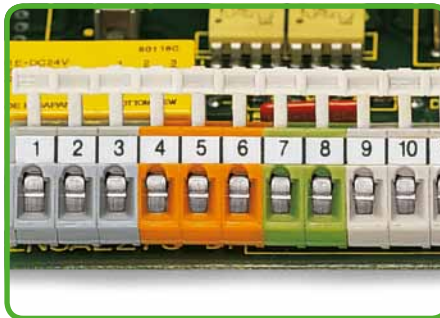


Possible conductor arrangement with terminal strips staggered (for 256 Series only).



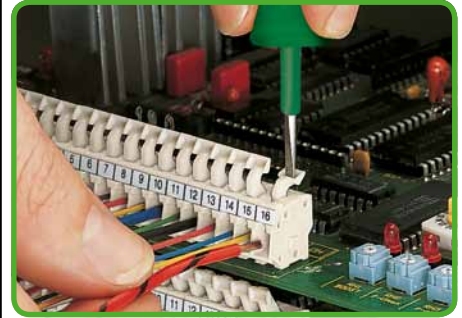
Inserting/removing conductor via finger-operated lever - 256 Series.

For terminal strips with finger-operated levers, see Full Line Catalog, Volume 2.



Marking with self-adhesive marking strips.

257 Series

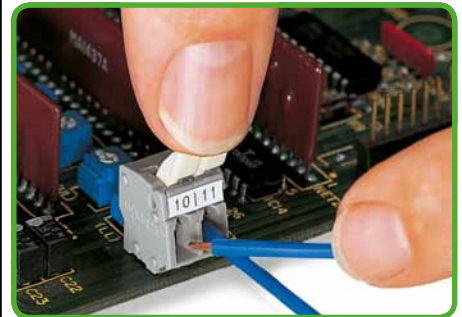


Inserting/removing conductor via push-button - 257 Series.

Angled push-button, side-entry.
Straight push-button, front-entry.

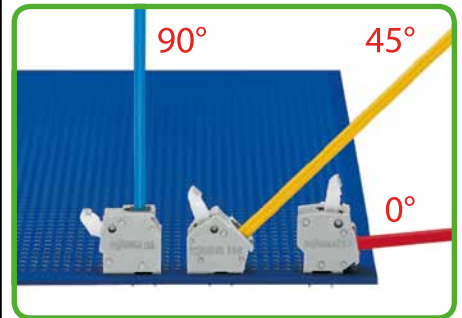


Testing with test plug adapter.



Inserting/removing conductor via finger-operated lever - 257 Series.

For terminal strips with finger-operated levers, see Full Line Catalog, Volume 2.



Series 255 256 257
Conductor entry angles.

CAGE CLAMP® clamps the following copper conductors:



solid



stranded



fine-stranded



tip-bonded



with ferrule



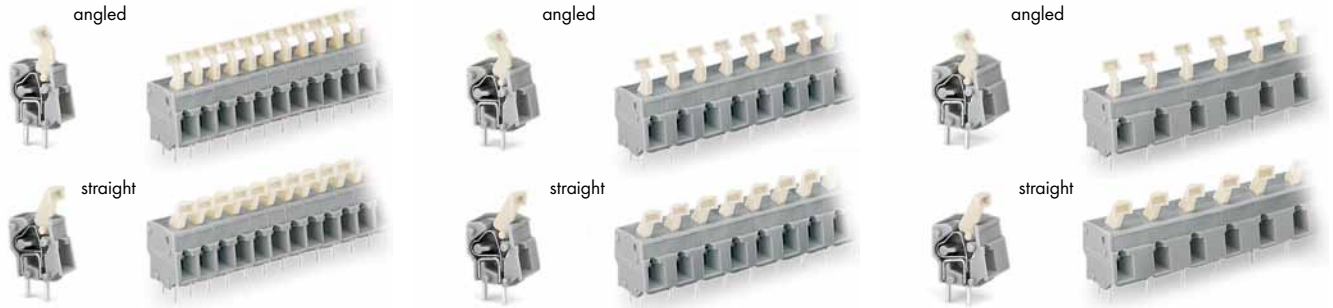
with pin terminal

Strip length, see packaging or instructions.

PCB Modular Terminal Blocks and Terminal Strips 2.5 mm² Pin Spacing 5/5.08 mm, 7.5/7.62 mm and 10/10.16 mm 257 Series

CAGE CLAMP®

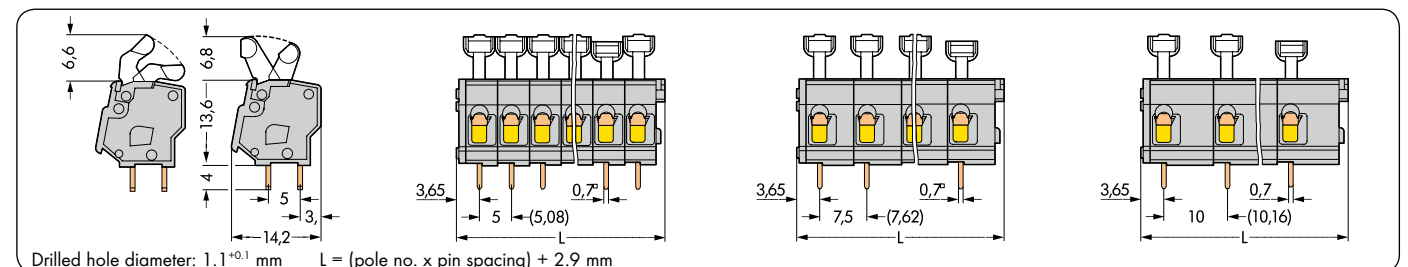
Pin spacing 5/5.08 mm / 0.2 in 0.08 - 2.5 mm ² AWG 28 - 12* 250 V/4 kV/3, 16 A 300 V, 15 A 500 V/4 kV/2, 16 A 300/600 V, 15/5 A 5 - 6 mm / 0.22 in Approvals	Pin spacing 7.5/7.62 mm / 0.3 in 0.08 - 2.5 mm ² AWG 28 - 12* 400 V/6 kV/3, 16 A 300 V, 15 A 800 V/6 kV/2, 16 A 300/600 V, 15/5 A 5 - 6 mm / 0.22 in Approvals	Pin spacing 10/10.16 mm / 0.4 in 0.08 - 2.5 mm ² AWG 28 - 12* 500 V/6 kV/3, 16 A 300 V, 15 A 1000 V/6 kV/2, 16 A 300/600 V, 15/5 A 5 - 6 mm / 0.22 in Approvals
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Color Pole No.	Item No.	Item No.	Pack. Unit	Color Pole No.	Item No.	Item No.	Pack. Unit	Color Pole No.	Item No.	Item No.	Pack. Unit
Modular terminal block, 2 solder pins/pole				Modular terminal block, 2 solder pins/pole				Modular terminal block, 2 solder pins/pole			
	Push-button	Push-button			Push-button	Push-button			Push-button	Push-button	
	angled	straight			angled	straight			angled	straight	
gray	257-451	257-401	500	gray	257-551	257-501	400	gray	257-651	257-601	300
red	257-840	257-740	500	red	257-850	257-750	400	red	257-860	257-760	300
dark gray	257-842	257-742	500	dark gray	257-852	257-752	400	dark gray	257-862	257-762	300
light gray	257-843	257-743	500	light gray	257-853	257-753	400	light gray	257-863	257-763	300
blue	257-844	257-744	500	blue	257-854	257-754	400	blue	257-864	257-764	300
orange	257-846	257-746	500	orange	257-856	257-756	400	orange	257-866	257-766	300
light green	257-847	257-747	500	light green	257-857	257-757	400	light green	257-867	257-767	300
Terminal strip, gray, standard lengths, 2 solder pins / pole				Terminal strip, gray, standard lengths, 2 solder pins / pole				Terminal strip, gray, standard lengths, 2 solder pins / pole			
2	257-452	257-402	400	2	257-552	257-502	280	2	257-652	257-602	200
3	257-453	257-403	280	3	257-553	257-503	200	3	257-653	257-603	140
:	:	:		:	:	:		:	:	:	
10	257-460	257-410	80	10	257-559	257-509	60	10	257-659	257-609	40
12	257-462	257-412	80	12	257-560	257-510	60	12	257-660	257-610	40
16	257-466	257-416	60	16	257-562	257-512	40	16	257-662	257-612	40
24	257-474	257-424	40	24	257-566	257-516	40	24	257-666	257-616	20
36	257-486	257-436	20	36	257-574	257-524	20	36	257-674	257-624	20
48	257-498	257-448	20								

Accessories, 257 Series (Marking strips, see Section 6)

Spacer, 5/5.08 mm thick, doubles pin spacing gray 257-801 100	Spacer, 7.5/7.62 mm thick, doubles pin spacing gray 257-811 100	Spacer, 10/10.16 mm thick, doubles pin spacing gray 257-821 100
End plates, snap-on type, 1 mm thick 257 Series gray 257-100 100 dark gray 257-200 100 light gray 257-300 100 blue 257-400 100 red 257-500 100 orange 257-600 100 light green 257-700 100		
Item no. suffix for terminal strips in: red ... /000-005 blue ... /000-006 dark gray ... /000-008 light gray ... /000-009 orange ... /000-012 light green ... /000-017		
Dimensions (in mm) (Adjust pin spacing by pulling on the end blocks so that they expand to satisfy the hole centers required.)		



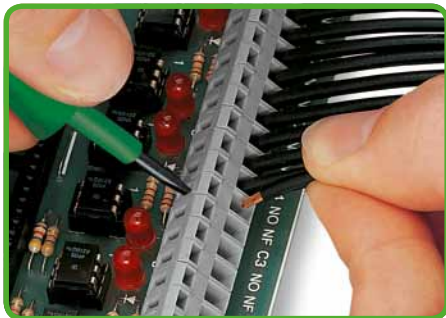
PCB Terminal Strips, Description and Handling

236, 736, 737, 738, 742 and 745 Series

236 Series



Inserting conductor via 3.5 mm screwdriver. Screwdriver actuation parallel to conductor entry.

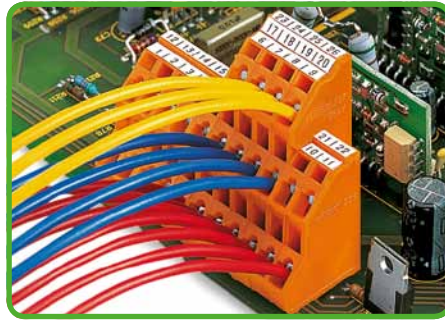


Inserting conductor via 3.5 mm screwdriver. Screwdriver actuation perpendicular to conductor entry.

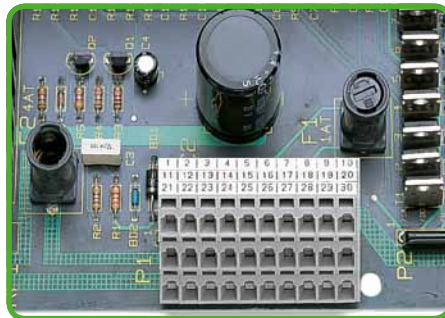


Mixed-color terminal strips with factory direct printing.

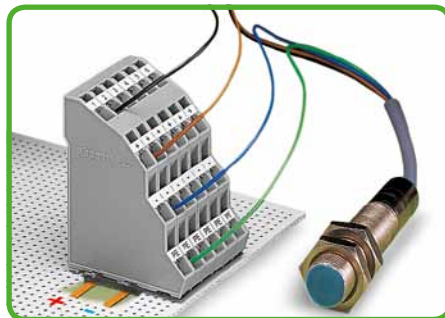
736, 737 and 738 Series



Combining double- and triple-deck terminal strips.

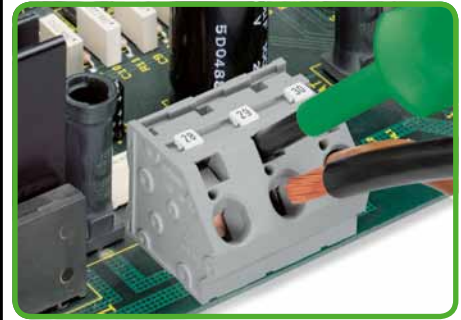


Space-saving triple-deck terminal strip.



Wiring 4-conductor sensors.

745 Series

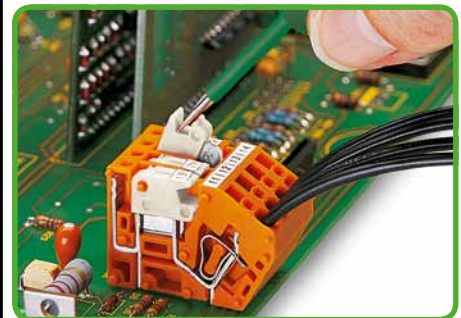


Inserting conductor via 5.5 mm screwdriver.



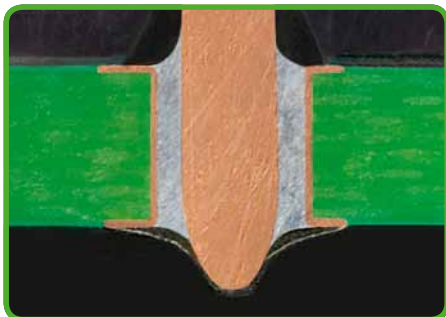
For terminal strips in other colors, please contact factory.

742 Series



Opening knife disconnect.

THR soldering



In electronic product manufacturing, **Surface Mount Technology** has led to a rapid rise in productivity.

The integration of classic electromechanical components such as connectors or PCB terminal blocks into the reflow soldering process offers even more potential for economy.

By using high-temperature resistant plastic and a streamlined pin design, the WAGO **Through Hole Reflow** connectors and PCB terminal blocks meet requirements for SMT process capability while maintaining necessary stability.

Press-in technology












Unique features of WAGO press-in technology:

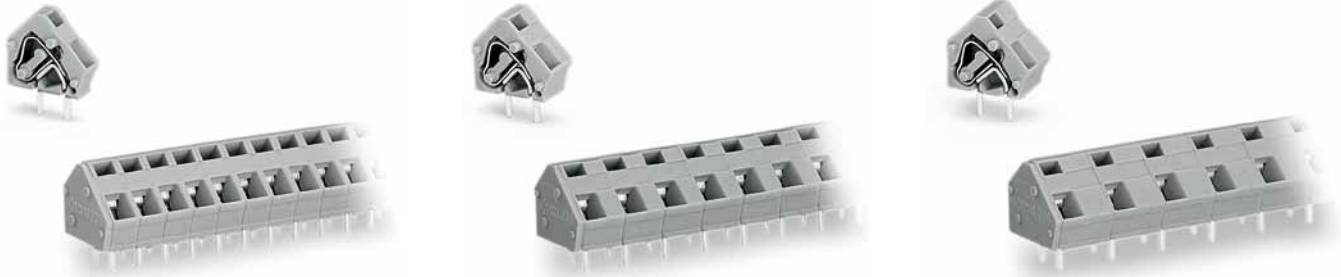
- Press-in pin features spring-loaded style expanding contact zone to provide greater retention and stability
- Suitable for all printed circuit boards with the correct tin plating for press-in connectors
- Mechanically stable pin dimensions
 - 0.6 x 0.6 mm or
 - 0.8 x 0.8 mm
- Metal-plated hole with optimum diameter
 - 1.0 or 1.45^{+0.09}_{-0.06} mm




- Press-in pin for PCB thickness from 1.4 to 3 mm
- Press-in length of approx. 3.2 mm
 - no unnecessary projection on underside of PCB
- Low press-in force required
 - reduces wear and tear on PCB and components
- High retention force within the PCB - doubles the values required by DIN IEC 60352-5
- Robust bonded connection
- Excellent elastic spring behavior
- No deformation of the metal-plated end hole
- Length of contact area ≥ 1.3 mm
- No deformation of multilayer PCBs
- Minimal tin removal in the contact hole
 - reduces wear and tear on PCB and contact points
- Application-specific press-in tool
 - please contact factory

PCB Modular Terminal Blocks and Terminal Strips 2.5 mm² Pin Spacing 5/5.08 mm, 7.5/7.62 mm and 10/10.16 mm 236 Series






CAGE CLAMP®

<p>Pin spacing 5/5.08 mm / 0.2 in 0.08 - 2.5 mm² 250 V/4 kV/3, 24 A 320 V/4 kV/2, 24 A</p> <p>AWG 28 - 12* 300 V, 15 A  300 V, 15 A </p> <p> 5 - 6 mm / 0.22 in</p> <p>① Approvals</p>	<p>Pin spacing 7.5/7.62 mm / 0.3 in 0.08 - 2.5 mm² 400 V/6 kV/3, 24 A 630 V/6 kV/2, 24 A</p> <p>AWG 28 - 12* 300 V, 15 A  300 V, 15 A </p> <p> 5 - 6 mm / 0.22 in</p> <p>① Approvals</p>	<p>Pin spacing 10/10.16 mm / 0.4 in 0.08 - 2.5 mm² 630 V/8 kV/3, 24 A 1000 V/8 kV/2, 24 A</p> <p>AWG 28 - 12* 300 V, 15 A  300 V, 15 A </p> <p> 5 - 6 mm / 0.22 in</p> <p>① Approvals</p>
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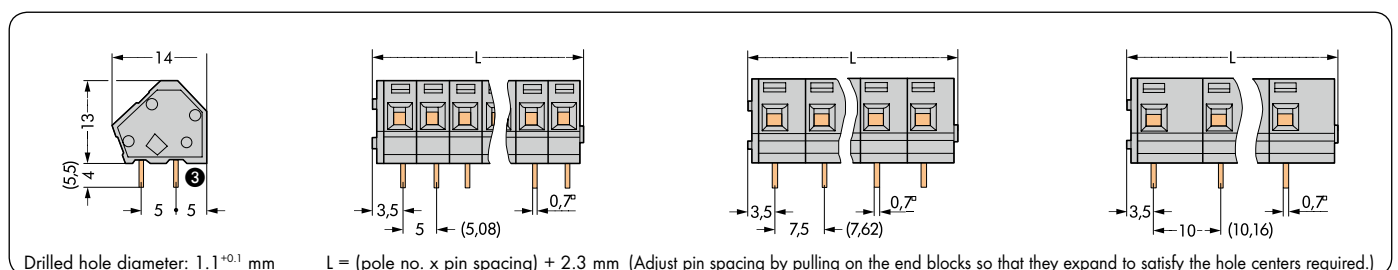


Color Pole No.	Item No.	Item No.	Pack. Unit	Color Pole No.	Item No.	Item No.	Pack. Unit	Color Pole No.	Item No.	Item No.	Pack. Unit
Modular terminal block,				Modular terminal block,				Modular terminal block,			
1 solder pin / pole, rear ③		2 solder pins/pole		1 solder pin / pole, rear ③		2 solder pins/pole		1 solder pin / pole, rear ③		2 solder pins/pole	
gray	236-101	236-401	600	gray	236-201	236-501	400	gray	236-301	236-601	300
dark gray	236-712	236-742	600	dark gray	236-722	236-752	400	dark gray	236-732	236-762	300
light gray 	236-713	236-743	600	light gray 	236-723	236-753	400	light gray 	236-733	236-763	300
blue	236-714	236-744	600	blue	236-724	236-754	400	blue	236-734	236-764	300
green	236-715	236-745	600	green	236-725	236-755	400	green	236-735	236-765	300
orange	236-716	236-746	600	orange	236-726	236-756	400	orange	236-736	236-766	300
light green	236-717	236-747	600	light green	236-727	236-757	400	light green	236-737	236-767	300
black	236-854	236-851	600	black	236-855	236-852	400	black	236-856	236-853	300
Terminal strip, gray, standard lengths,				Terminal strip, gray, standard lengths,				Terminal strip, gray, standard lengths,			
1 solder pin / pole, rear ③		2 solder pins/pole		1 solder pin / pole, rear ③		2 solder pins/pole		1 solder pin / pole, rear ③		2 solder pins/pole	
2	236-102	236-402	420	2	236-202	236-502	280	2	236-302	236-602	200
3	236-103	236-403	280	3	236-203	236-503	200	3	236-303	236-603	140
:	:	:	:	4	236-204	236-504	140	4	236-304	236-604	100
8	236-108	236-408	100	6	236-206	236-506	100	6	236-306	236-606	80
12	236-112	236-412	80	8	236-208	236-508	80	8	236-308	236-608	60
16	236-116	236-416	60	12	236-212	236-512	40	12	236-312	236-612	40
24	236-124	236-424	40	16	236-216	236-516	40	16	236-316	236-616	20
36	236-136	236-436	20	24	236-224	236-524	20	24	236-324	236-624	20
48	236-148	236-448	20								

Accessories, 236 Series (Marking strips, see Section 6)




<p> Operating tool ④,</p> <p>plastic 236-332 1</p> <p>metal 236-335 1</p>	<p> End plates, snap-on type, 1 mm thick</p> <p>gray 236-100 100</p> <p>dark gray 236-200 100</p> <p>light gray 236-300 100</p> <p>blue 236-400 100</p> <p>green 236-500 100</p> <p>orange 236-600 100</p> <p>light green 236-700 100</p> <p>black 236-850 100</p>	<p></p> <p> Terminal blocks for Ex e II applications see Full Line Catalog, Volume 2</p>	<p>Item no. suffix for terminal strips in:</p> <p>● black ... / ...-004</p> <p>● blue ... / ...-006</p> <p>● dark gray ... / ...-008</p> <p>○ light gray  ... / ...-009</p> <p>● orange ... / ...-012</p> <p>● light green ... / ...-017</p> <p>● green ... / ...-023</p> <p>● Terminal blocks with blue insulation are suitable for Ex i applications (only for pin spacing 7.5/7.62 mm and 10/10.16 mm)</p>
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Dimensions



① Approvals are available online at: www.wago.com. *AWG 12: THHN, THWN
③ solder pin, rear ④ for factory wiring For technical explanations and abbreviations, see technical section.


Double- and Triple-Deck PCB Terminal Strips 2.5 mm² Pin Spacing 5 mm and 5.08 mm 736 and 737 Series

Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 - 2.5 mm ² 250 V/4 kV/3 ①, 21 A AWG 28 - 12* 300 V, 10 A ② 320 V/4 kV/2 ①, 21 A 300 V, 10 A ③  5 - 6 mm / 0.22 in ② Approvals	Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 - 2.5 mm ² 250 V/4 kV/3 ①, 21 A AWG 28 - 12* 300 V, 10 A ② 320 V/4 kV/2 ①, 21 A 300 V, 10 A ③  5 - 6 mm / 0.22 in ② Approvals	Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 - 2.5 mm ² 250 V/4 kV/3 ①, 21 A AWG 28 - 12* 300 V, 10 A ② 320 V/4 kV/2 ①, 21 A 300 V, 10 A ③  5 - 6 mm / 0.22 in ② Approvals
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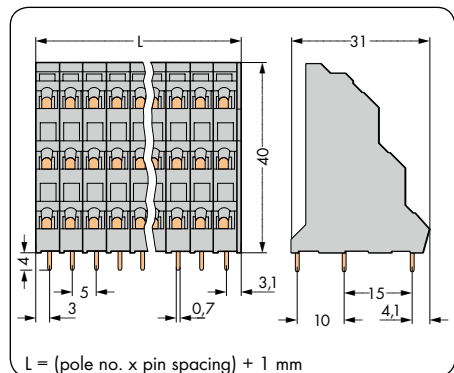
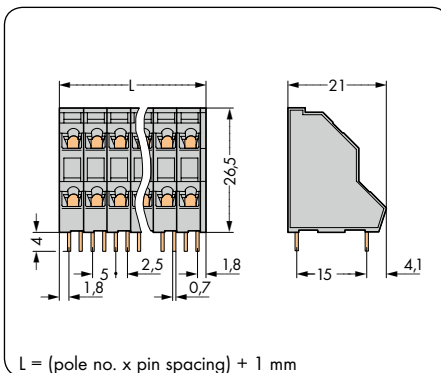
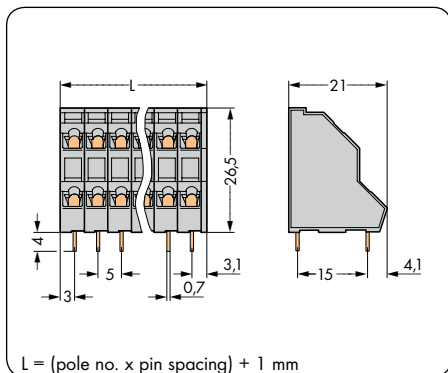
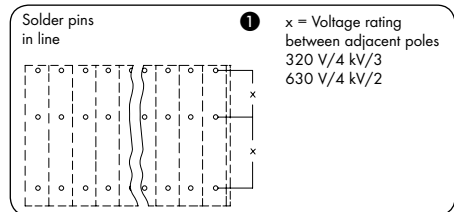
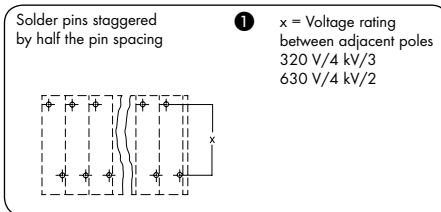
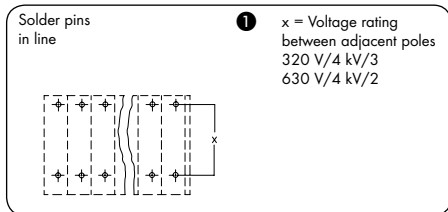


Pole No.	Item No.	Item No.	Pack.	Unit	Pole No.	Item No.	Item No.	Pack.	Unit	Pole No.	Item No.	Item No.	Pack.	Unit			
Double-deck terminal strip, 2 solder pins in line					Double-deck terminal strip, 2 solder pins staggered by half the pin spacing					Triple-deck terminal strip, 3 solder pins in line							
Pin spacing		5 mm	5.08 mm		Pin spacing		5 mm	5.08 mm		Pin spacing		5 mm	5.08 mm				
		gray	orange				gray	orange				gray	orange				
2 x 2	①	736-102	②	736-302	161	2 x 2	①	736-202	②	736-402	161	2 x 3	①	737-102	②	737-302	92
3 x 2	①	736-103	②	736-303	112	3 x 2	①	736-203	②	736-403	112	3 x 3	①	737-103	②	737-303	64
4 x 2	①	736-104	②	736-304	84	4 x 2	①	736-204	②	736-404	84	4 x 3	①	737-104	②	737-304	48
6 x 2	①	736-106	②	736-306	56	6 x 2	①	736-206	②	736-406	56	6 x 3	①	737-106	②	737-306	32
8 x 2	①	736-108	②	736-308	42	8 x 2	①	736-208	②	736-408	42	8 x 3	①	737-108	②	737-308	24
12 x 2	①	736-112	②	736-312	28	12 x 2	①	736-212	②	736-412	28	12 x 3	①	737-112	②	737-312	16
16 x 2	①	736-116	②	736-316	21	16 x 2	①	736-216	②	736-416	21	16 x 3	①	737-116	②	737-316	12
24 x 2	①	736-124	②	736-324	14	24 x 2	①	736-224	②	736-424	14	24 x 3	①	737-124	②	737-324	8
For other lengths, please contact factory.					For other lengths, please contact factory.					For other lengths, please contact factory.							

Accessories, 736 and 737 Series

Marker cards, 80 self-adhesive strips per card  <table border="1"> <thead> <tr> <th>Marking</th> <th>Pin spacing 5 mm</th> <th>Pin spacing 5.08 mm</th> </tr> </thead> <tbody> <tr> <td>1 - 16 (160x)</td> <td>210-332/500-202</td> <td>210-332/508-202</td> </tr> <tr> <td>17 - 32 (160x)</td> <td>210-332/500-204</td> <td>210-332/508-204</td> </tr> <tr> <td>33 - 48 (160x)</td> <td>210-332/500-206</td> <td>210-332/508-206</td> </tr> <tr> <td>1 - 32 (80x)</td> <td>210-332/500-205</td> <td>210-332/508-205</td> </tr> </tbody> </table> For direct printing, please contact factory.	Marking	Pin spacing 5 mm	Pin spacing 5.08 mm	1 - 16 (160x)	210-332/500-202	210-332/508-202	17 - 32 (160x)	210-332/500-204	210-332/508-204	33 - 48 (160x)	210-332/500-206	210-332/508-206	1 - 32 (80x)	210-332/500-205	210-332/508-205	Operating tool, for professional wiring of terminal strips <table border="1"> <tbody> <tr> <td>partially insulated</td> <td>233-335</td> <td>1</td> </tr> <tr> <td>insulated</td> <td>233-332</td> <td>25</td> </tr> </tbody> </table> Operating tool with partially insulated shaft, type 1, (2.5x0.4)mm blade <table border="1"> <tbody> <tr> <td></td> <td>210-719</td> <td>1</td> </tr> </tbody> </table>	partially insulated	233-335	1	insulated	233-332	25		210-719	1
Marking	Pin spacing 5 mm	Pin spacing 5.08 mm																							
1 - 16 (160x)	210-332/500-202	210-332/508-202																							
17 - 32 (160x)	210-332/500-204	210-332/508-204																							
33 - 48 (160x)	210-332/500-206	210-332/508-206																							
1 - 32 (80x)	210-332/500-205	210-332/508-205																							
partially insulated	233-335	1																							
insulated	233-332	25																							
	210-719	1																							

Dimensions Drilled hole diameter: 1.3^{+0.1}mm

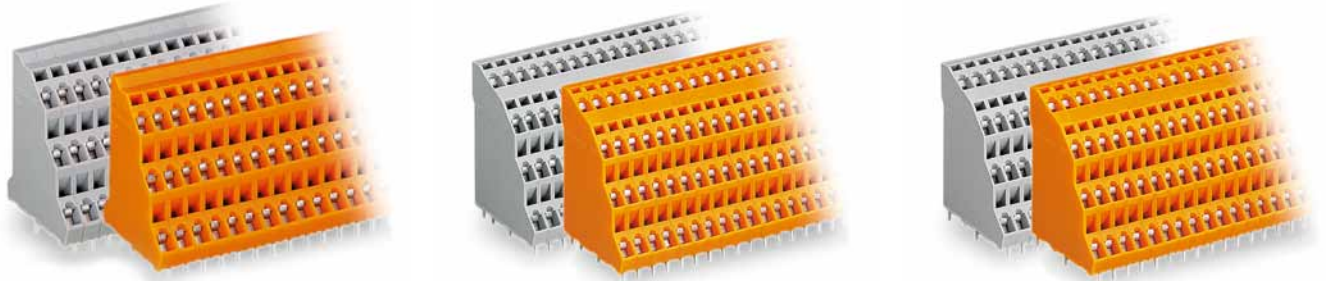


② Approvals are available online at: www.wago.com. * AWG 12: THHN, THWN
For technical explanations and abbreviations, see technical section.

Triple- and Quadruple-Deck PCB Terminal Strips 2.5 mm² Pin Spacing 5 mm and 5.08 mm 737 and 738 Series

CAGE CLAMP®

<p>Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 - 2.5 mm² 250 V/4 kV/3 ①, 21 A 300 V, 10 A ② 320 V/4 kV/2 ①, 21 A 300 V, 10 A ②</p> <p>5 - 6 mm / 0.22 in</p> <p>② Approvals</p>	<p>Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 - 2.5 mm² 250 V/4 kV/3 ①, 18 A 300 V, 10 A ② 320 V/4 kV/2 ①, 18 A 300 V, 10 A ②</p> <p>5 - 6 mm / 0.22 in</p> <p>② Approvals</p>	<p>Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 - 2.5 mm² 250 V/4 kV/3 ①, 18 A 300 V, 10 A ② 320 V/4 kV/2 ①, 18 A 300 V, 10 A ②</p> <p>5 - 6 mm / 0.22 in</p> <p>② Approvals</p>
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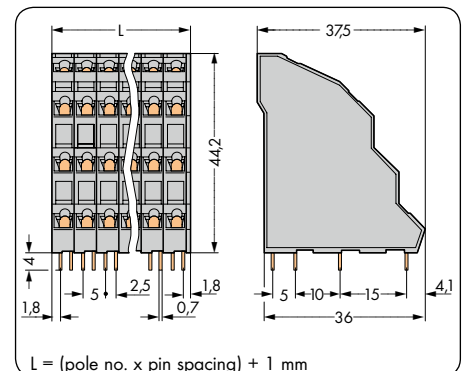
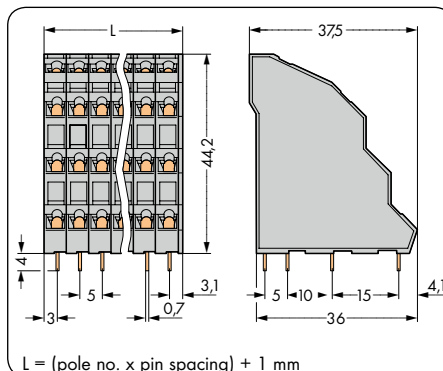
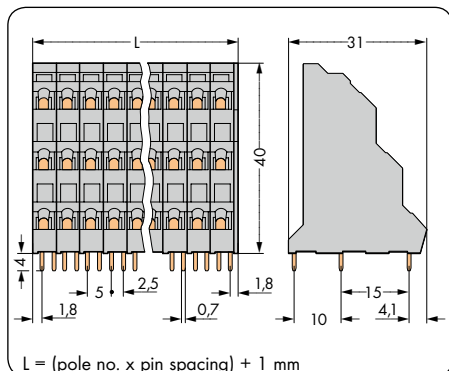
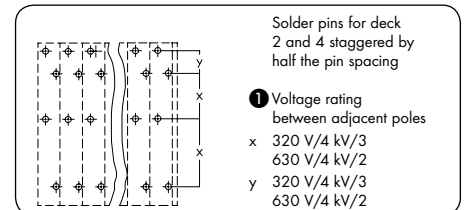
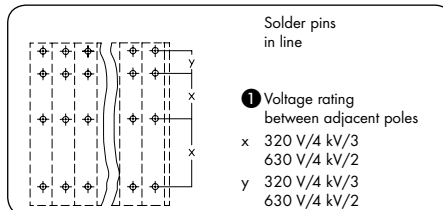
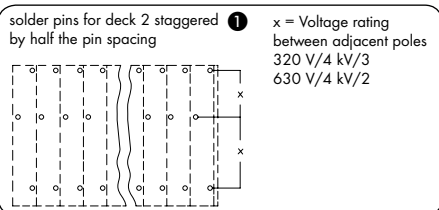
Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit
Triple-deck terminal strip, solder pins for deck 2 staggered by half the pin spacing				Quadruple-deck terminal strip, 4 solder pins in line				Quadruple-deck terminal strip, solder pins for deck 2 and 4 staggered by half the pin spacing			
Pin spacing		5 mm	5.08 mm	Pin spacing		5 mm	5.08 mm	Pin spacing		5 mm	5.08 mm
		gray	orange			gray	orange			gray	orange
2 x 3	737-202	737-402	92	2 x 4	738-102	738-302	72	2 x 4	738-202	738-402	72
3 x 3	737-203	737-403	64	3 x 4	738-103	738-303	48	3 x 4	738-203	738-403	48
4 x 3	737-204	737-404	48	4 x 4	738-104	738-304	36	4 x 4	738-204	738-404	36
6 x 3	737-206	737-406	32	6 x 4	738-106	738-306	24	6 x 4	738-206	738-406	24
8 x 3	737-208	737-408	24	8 x 4	738-108	738-308	18	8 x 4	738-208	738-408	18
12 x 3	737-212	737-412	16	12 x 4	738-112	738-312	12	12 x 4	738-212	738-412	12
16 x 3	737-216	737-416	12	16 x 4	738-116	738-316	9	16 x 4	738-216	738-416	9
24 x 3	737-224	737-424	8	24 x 4	738-124	738-324	6	24 x 4	738-224	738-424	6
For other lengths, please contact factory.				For other lengths, please contact factory.				For other lengths, please contact factory.			

Accessories, 737 and 738 Series

<p>Marker cards, 80 self-adhesive strips per card</p> <p>Marking</p> <table border="1"> <thead> <tr> <th></th> <th>Pin spacing 5 mm</th> <th>Pin spacing 5.08 mm</th> </tr> </thead> <tbody> <tr> <td>1 - 16 (160x)</td> <td>210-332/500-202</td> <td>210-332/508-202</td> </tr> <tr> <td>17 - 32 (160x)</td> <td>210-332/500-204</td> <td>210-332/508-204</td> </tr> <tr> <td>33 - 48 (160x)</td> <td>210-332/500-206</td> <td>210-332/508-206</td> </tr> <tr> <td>1 - 32 (80x)</td> <td>210-332/500-205</td> <td>210-332/508-205</td> </tr> </tbody> </table> <p>For direct printing, please contact factory.</p>		Pin spacing 5 mm	Pin spacing 5.08 mm	1 - 16 (160x)	210-332/500-202	210-332/508-202	17 - 32 (160x)	210-332/500-204	210-332/508-204	33 - 48 (160x)	210-332/500-206	210-332/508-206	1 - 32 (80x)	210-332/500-205	210-332/508-205	<p>Operating tool, for professional wiring of terminal strips</p> <table border="1"> <tbody> <tr> <td>partially insulated</td> <td>233-335</td> <td>1</td> </tr> <tr> <td>insulated</td> <td>233-332</td> <td>25</td> </tr> </tbody> </table> <p>Operating tool with partially insulated shaft, type 1, (2.5x0.4)mm blade</p> <table border="1"> <tbody> <tr> <td></td> <td>210-719</td> <td>1</td> </tr> </tbody> </table>	partially insulated	233-335	1	insulated	233-332	25		210-719	1
	Pin spacing 5 mm	Pin spacing 5.08 mm																							
1 - 16 (160x)	210-332/500-202	210-332/508-202																							
17 - 32 (160x)	210-332/500-204	210-332/508-204																							
33 - 48 (160x)	210-332/500-206	210-332/508-206																							
1 - 32 (80x)	210-332/500-205	210-332/508-205																							
partially insulated	233-335	1																							
insulated	233-332	25																							
	210-719	1																							

Dimensions

Drilled hole diameter: 1.3^{+0.1}mm



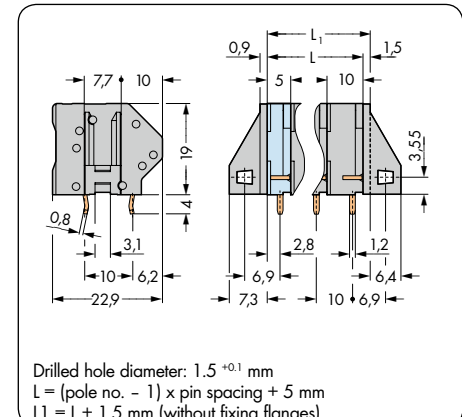
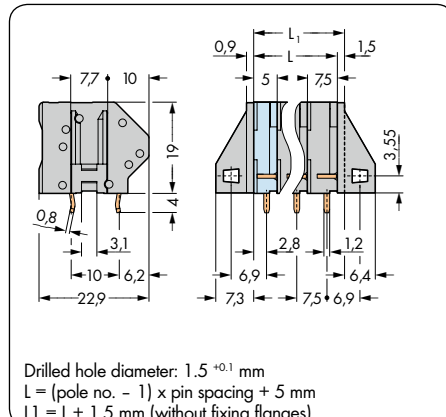
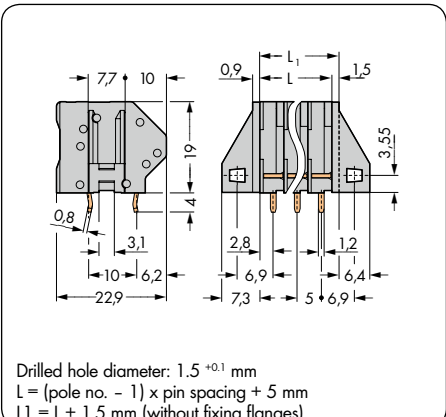
PCB Modular Terminal Blocks and Terminal Strips 4 mm² Pin Spacing 5 mm, 7.5 mm and 10 mm 745 Series

Pin spacing 5 mm / 0.197 in 0.08 - 4 mm ² AWG 28 - 12 320 V/4 kV/3 300 V, 20 A I _N 32 A 8 - 9 mm / 0.33 in ① Approvals	Pin spacing 7.5 mm / 0.295 in 0.08 - 4 mm ² AWG 28 - 12 500 V/6 kV/3 300 V, 20 A I _N 32 A 8 - 9 mm / 0.33 in ① Approvals	Pin spacing 10 mm / 0.394 in 0.08 - 4 mm ² AWG 28 - 12 630 V/8 kV/3 300 V, 20 A I _N 32 A 8 - 9 mm / 0.33 in ① Approvals
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Color	Item No.	Pack.	Unit	Color	Item No.	Pack.	Unit	Color	Item No.	Pack.	Unit
Modular terminal block,				Modular terminal block,				Modular terminal block,			
2 solder pins/pole				2 solder pins/pole				2 solder pins/pole			
	gray	745-801	200		gray	745-811	200		gray	745-821	200
	light gray	745-803	200		light gray	745-813	200		light gray	745-823	200
	blue	745-804	200		blue	745-814	200		blue	745-824	200
	green-yellow	745-807	200		green-yellow	745-817	200		green-yellow	745-827	200
	light green	745-808	200		light green	745-818	200		light green	745-828	200
Terminal strip without fixing flanges,				Terminal strip without fixing flanges,				Terminal strip without fixing flanges,			
2 solder pins/pole, gray				2 solder pins/pole, gray				2 solder pins/pole, gray			
	2	745-102	230		2	745-152	180		2	745-202	160
	3	745-103	160		3	745-153	120		3	745-203	100
	4	745-104	120		4	745-154	90		4	745-204	70
	5	745-105	100		5	745-155	70		5	745-205	50
	10	745-110	50		10	745-160	30		10	745-210	20
	12	745-112	40		12	745-162	30		12	745-212	20



Accessories, 745 Series			Appropriate marking systems: WMB/Mini-WSB					
	End plate, snap-on type, 1.5 mm thick gray	745-100 100		End plate, snap-on type, 1.5 mm thick gray	745-100 100		End plate, snap-on type, 1.5 mm thick gray	745-100 100
	End plate with fixing flange gray	745-140 100		End plate with fixing flange gray	745-140 100		End plate with fixing flange gray	745-140 100
	End plate with fixing flange gray	745-145 100		End plate with fixing flange gray	745-145 100		End plate with fixing flange gray	745-145 100
	Test plug, with 500 mm cable 2 mm Ø, red	210-136 50		Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade	210-720 1		Test plug, with 500 mm cable 2.3 mm Ø, yellow	210-137 50
	Comb-style jumper bar 1 to 3	745-181 50		Comb-style jumper bar 1 to 3	745-191 50		Comb-style jumper bar 1 to 3	745-281 50
	2-way	745-182 50		2-way	745-192 50		2-way	745-282 50
	3-way	745-183 50		3-way	745-193 50		3-way	745-283 50
	4-way	745-184 50		4-way	745-194 50		4-way	745-284 50
	5-way	745-185 50		5-way	745-195 50		5-way	745-285 50
	10-way	745-180 50		10-way	745-190 50		10-way	745-280 50



Dimensions

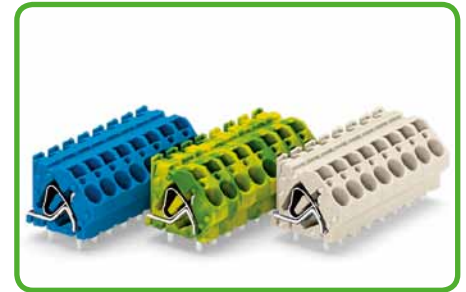




① Approvals are available online at: www.wago.com.
 For technical explanations and abbreviations, see technical section.

PCB Modular Terminal Blocks and Terminal Strips 6 mm² Pin Spacing 7.5 mm and 10 mm 745 Series





Pin spacing 7.5 mm / 0.295 in 0.2 - 6 mm ² 500 V/6 kV/3 I _N 41 A  11 - 12 mm / 0.45 in Approvals	Pin spacing 10 mm / 0.394 in 0.2 - 6 mm ² 630 V/8 kV/3 I _N 41 A  11 - 12 mm / 0.45 in Approvals
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Color	Item No.	Pack.	Unit	Color	Item No.	Pack.	Unit
Modular terminal block,				Modular terminal block,			
2 solder pins/pole				2 solder pins/pole			
	gray	745-831	100		gray	745-841	100
	light gray	745-833	100		light gray	745-843	100
	blue	745-834	100		blue	745-844	100
	green-yellow	745-837	100		green-yellow	745-847	100
	light green	745-838	100		light green	745-848	100



Pole No.	Item No.	Pack.	Unit	Pole No.	Item No.	Pack.	Unit
Terminal strip without fixing flanges,				Terminal strip without fixing flanges,			
2 solder pins/pole, gray				2 solder pins/pole, gray			
	2	745-302	128		2	745-352	104
	3	745-303	88		3	745-353	72
	4	745-304	64		4	745-354	48
	5	745-305	48		5	745-355	40
	:	:	:		:	:	:
	10	745-310	24		10	745-360	16
	12	745-312	16		12	745-362	16

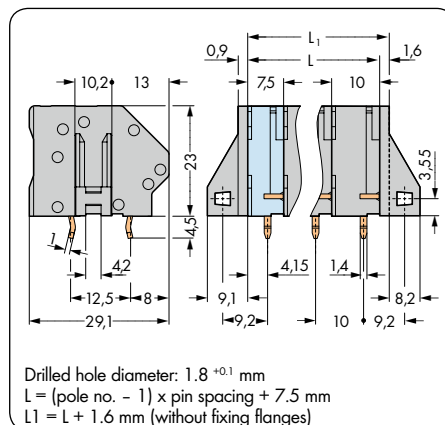
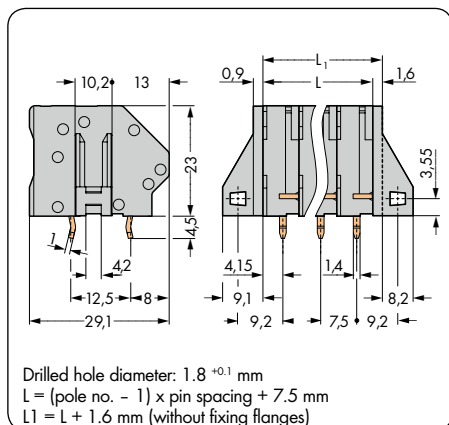
Item no. suffix for terminal strips, end plates in different colors:

	blue	.../...-006
	light gray	.../...-009
	green-yellow	.../...-016
	light green	.../...-017

Accessories, 745 Series		Appropriate marking systems: WMB/Mini-WSB	
	End plate, snap-on type, 1.6 mm thick gray 745-300 100		End plate, snap-on type, 1.6 mm thick gray 745-300 100
	End plate with fixing flange gray 745-340 50		End plate with fixing flange gray 745-340 50
	End plate with fixing flange gray 745-345 50		End plate with fixing flange gray 745-345 50
	Test plug, with 500 mm cable 2 mm Ø, red 210-136 50 2.3 mm Ø, yellow 210-137 50		Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade 210-721 1
	Comb-style jumper bar 1 to 3 745-381 50 2-way 745-382 50 3-way 745-383 50 4-way 745-384 50 5-way 745-385 50 10-way 745-380 50		Comb-style jumper bar 1 to 3 745-391 50 2-way 745-392 50 3-way 745-393 50 4-way 745-394 50 5-way 745-395 50 10-way 745-390 50

Terminal blocks with blue insulation are suitable for Ex i applications (only for pin spacing 7.5 mm and 10 mm).

Dimensions



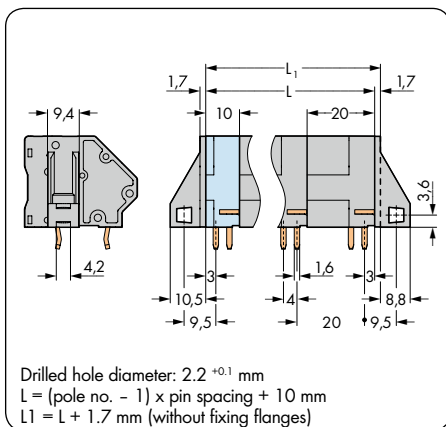
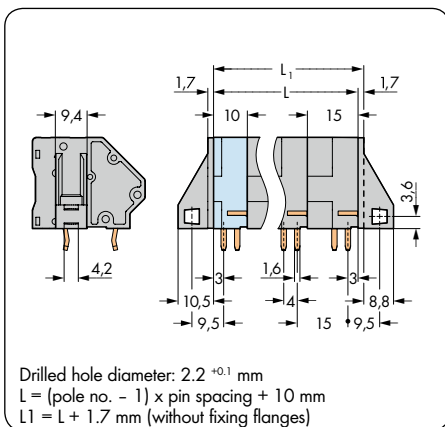
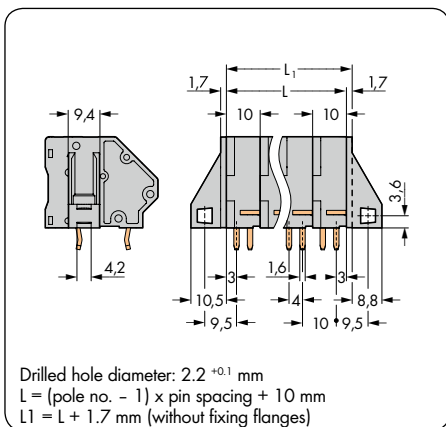
PCB Modular Terminal Blocks and Terminal Strips 16 mm² Pin Spacing 10mm, 15 mm and 20 mm 745 Series

<p>Pin spacing 10 mm / 0.394 in 0.2 - 16 mm² 320 V/4 kV/3 I_N 76 A ①</p> <p>12 - 13 mm / 0.49 in</p> <p>③ Approvals</p>	<p>Pin spacing 15 mm / 0.591 in 0.2 - 16 mm² 630 V/8 kV/3 I_N 76 A ①</p> <p>12 - 13 mm / 0.49 in</p> <p>③ Approvals</p>	<p>Pin spacing 20 mm / 0.787 in 0.2 - 16 mm² 1000 V/12 kV/3 I_N 76 A ①</p> <p>12 - 13 mm / 0.49 in</p> <p>③ Approvals</p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Modular terminal block, 2 solder pins/pole			Modular terminal block, 2 solder pins/pole			Modular terminal block, 2 solder pins/pole		
	gray	745-851/006-000 100		gray	745-871/006-000 100		gray	745-881/006-000 50
	light gray	745-853/006-000 100		light gray	745-873/006-000 100		light gray	745-883/006-000 50
	blue	745-854/006-000 100		blue	745-874/006-000 100		blue	745-884/006-000 50
	green-yellow	745-857/006-000 100		green-yellow	745-877/006-000 100		green-yellow	745-887/006-000 50
	light green	745-858/006-000 100		light green	745-878/006-000 100		light green	745-888/006-000 50
Terminal strip without fixing flanges, 4 solder pins/pole, gray			Terminal strip without fixing flanges, 4 solder pins/pole, gray			Terminal strip without fixing flanges, 4 solder pins/pole, gray		
	2	745-502/006-000 48		2	745-602/006-000 36		2	745-652/006-000 32
	3	745-503/006-000 32		3	745-603/006-000 24		3	745-653/006-000 20
	4	745-504/006-000 24		4	745-604/006-000 16		4	745-654/006-000 12
	5	745-505/006-000 20		5	745-605/006-000 12		5	745-655/006-000 8
Accessories, 745 Series			Appropriate marking systems: WMB/Mini-WSB					
	End plate, snap-on type, 1.7 mm/0.067 in thick	gray 745-500 50		End plate, snap-on type, 1.7 mm/0.067 in thick	gray 745-500 50		End plate, snap-on type, 1.7 mm/0.067 in thick	gray 745-500 50
	End plate with fixing flange	gray 745-540 50		End plate with fixing flange	gray 745-540 50		End plate with fixing flange	gray 745-540 50
	End plate with fixing flange	gray 745-545 50		End plate with fixing flange	gray 745-545 50		End plate with fixing flange	gray 745-545 50
	Test plug, with 500 mm cable	2 mm Ø, red 210-136 50 2.3 mm Ø, yellow 210-137 50		Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade	210-721 1		Test plug, with 500 mm cable	2 mm Ø, red 210-136 50 2.3 mm Ø, yellow 210-137 50
	Comb-style jumper bar	1 to 3 745-682 50 2-way 745-582 50 3-way 745-583 50 4-way 745-584 50 5-way 745-585 50		Comb-style jumper bar	1 to 3 745-631 50 2-way 745-632 50 3-way 745-633 50 4-way 745-634 50 5-way 745-635 50		Comb-style jumper bar	1 to 3 745-681 50 2-way 745-682 50 3-way 745-683 50 4-way 745-684 50 5-way 745-685 50



Terminal blocks with blue insulation are suitable for Ex i applications (only for pin spacing 15 mm and 20 mm).

Dimensions




① Currents require an adapted PCB track design

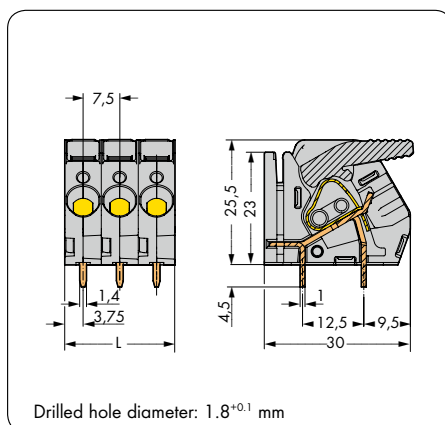
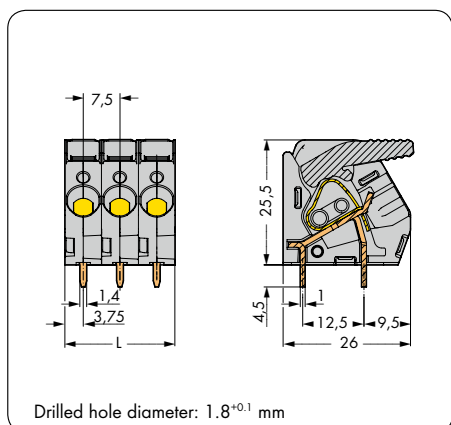
PCB Terminal Strips with Operating Levers 6 mm² Pin Spacing 7.5 mm, 10 mm and 12.5 mm 2706 Series

0.5 - 6 mm² 500 V/6 kV/3, 41 A 800 V/8 kV/3, 41 A 1000 V/8 kV/3, 41 A  11 - 12 mm / 0.45 in Approvals	AWG 20 - 10	0.5 - 6 mm² 500 V/6 kV/3, 41 A 630 V/8 kV/3, 41 A  11 - 12 mm / 0.45 in Approvals	AWG 20 - 10
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Pole No. Color	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit	Accessories, 2706 Series	
Terminal strip with operating levers, gray			Terminal strip with operating levers, with jumper slot, gray			Test plug, with 500 mm cable	
Pin spacing 7.5 mm	L = (pole no. x pin spacing)		Pin spacing 7.5 mm	L = (pole no. x pin spacing)		 2 mm Ø 210-136 red 2.3 mm Ø 210-137 yellow	
○ 2	2706-102	85	○ 2	2706-152	85	Comb-style jumper bar, for 7.5 mm pin spacing 1 to 3 745-381 250 (5x50) 2-way 745-382 250 (5x50) 3-way 745-383 250 (5x50) 4-way 745-384 200 (4x50) 5-way 745-385 200 (4x50) 10-way 745-380 200 (4x50)	
○ 3	2706-103	55	○ 3	2706-153	55		
○ 4	2706-104	40	○ 4	2706-154	40		
○ 5	2706-105	30	○ 5	2706-155	30		
○ :	:		○ :	:			
○ 10	2706-110	15	○ 10	2706-160	15		
○ 11	2706-111	15	○ 11	2706-161	15		
○ 12	2706-112	10	○ 12	2706-162	10		
Pin Spacing 10 mm	L = (pole no. x pin spacing) - 2.5 mm		Pin Spacing 10 mm	L = (pole no. x pin spacing) - 2.5 mm			Comb-style jumper bar, for 10 mm pin spacing 1 to 3 745-391 250 (5x50) 2-way 745-392 250 (5x50) 3-way 745-393 250 (5x50) 4-way 745-394 200 (4x50) 5-way 745-395 200 (4x50) 10-way 745-390 200 (4x50)
○ 2	2706-202	70	○ 2	2706-252	70		
○ 3	2706-203	45	○ 3	2706-253	45		
○ 4	2706-204	30	○ 4	2706-254	30		
○ 5	2706-205	25	○ 5	2706-255	25		
○ :	:		○ :	:			
○ 10	2706-210	10	○ 10	2706-260	10		
○ 11	2706-211	10	○ 11	2706-261	10		
○ 12	2706-212	10	○ 12	2706-262	10		
Pin spacing 12.5 mm	L = (pole no. x pin spacing) - 5 mm					For other lengths, please contact factory. Item no. suffix for terminal strips in: ● blue ... /000-006 ○ light gray ... /000-009 ● green-yellow ... /000-016 ● light green ... /000-017	
○ 2	2706-302	65					
○ 3	2706-303	40					
○ 4	2706-304	25					
○ 5	2706-305	20					
○ :	:						
○ 10	2706-310	10					
○ 11	2706-311	5					
○ 12	2706-312	5					

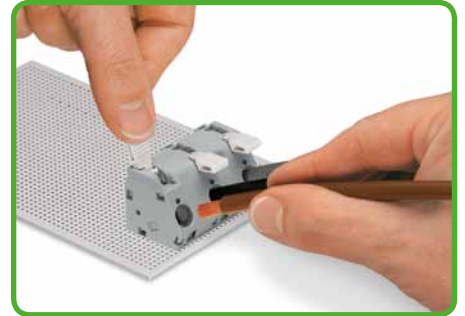
Dimensions




Commoning via comb-style jumper bar.

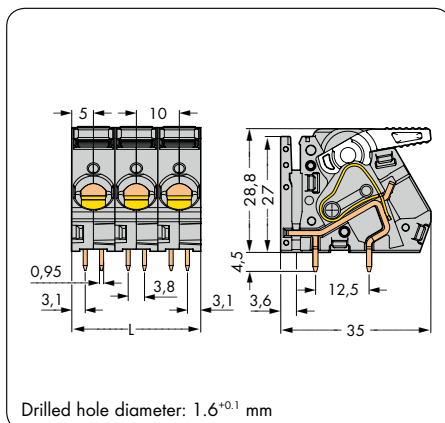
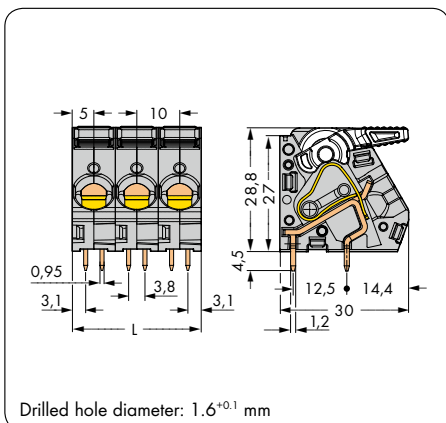
PCB Terminal Strips with Operating Levers 16 mm² Pin Spacing 10 mm and 15 mm 2716 Series

<p>1.5 - 16 mm² 320 V/4 kV/3, 76 A 800 V/8 kV/3, 76 A</p> <p>AWG 16 - 6</p> <p>12 - 13 mm / 0.49 in</p> <p>Approvals</p>	<p>1.5 - 16 mm² 320 V/4 kV/3, 76 A 800 V/8 kV/3, 76 A</p> <p>AWG 16 - 6</p> <p>12 - 13 mm / 0.49 in</p> <p>Approvals</p>
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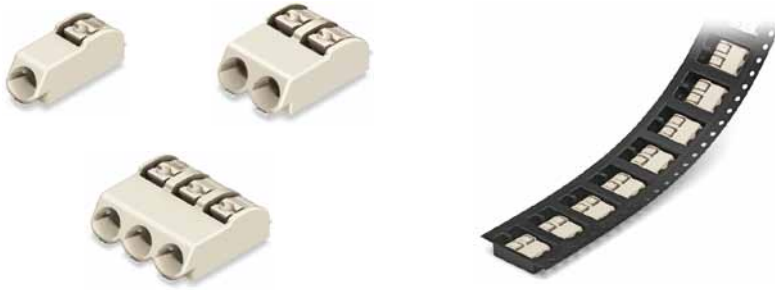
Pole No. Color	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit	Accessories, 2716 Series	
Terminal strip with operating levers, gray			Terminal strip with operating levers, with jumper slot, gray			Test plug, with 500 mm cable	
Pin Spacing 10 mm L = (pole no. x pin spacing)			Pin Spacing 10 mm L = (pole no. x pin spacing)			 2 mm Ø 210-136 red 2.3 mm Ø 210-137 yellow	
● 2	2716-102	65	● 2	2716-152	52	Comb-style jumper bar, for 7.5 mm pin spacing 1 to 3 745-682 400 (8x50)	
● 3	2716-103	40	● 3	2716-153	32		
● 4	2716-104	30	● 4	2716-154	24		
● 5	2716-105	25	● 5	2716-155	20		
● 6	2716-106	20	● 6	2716-156	16		
● 7	2716-107	15	● 7	2716-157	12	2-way 745-582 400 (8x50) 3-way 745-583 300 (6x50) 4-way 745-584 200 (4x50) 5-way 745-585 200 (4x50)	
● 8	2716-108	15	● 8	2716-158	12	Comb-style jumper bar, for 10 mm pin spacing 1 to 3 745-631 200 (4x50)	
Pin Spacing 15 mm L = (pole no. x pin spacing) - 5 mm			Pin Spacing 15 mm L = (pole no. x pin spacing) - 5 mm				
● 2	2716-202	50	● 2	2716-252	40		
● 3	2716-203	30	● 3	2716-253	24		
● 4	2716-204	20	● 4	2716-254	16		
● 5	2716-205	15	● 5	2716-255	12	2-way 745-632 200 (4x50) 3-way 745-633 200 (4x50) 4-way 745-634 200 (4x50) 5-way 745-635 200 (4x50)	
● 6	2716-206	15	● 6	2716-256	12	For other lengths, please contact factory. Item no. suffix for terminal strips in:	
● 7	2716-207	10	● 7	2716-257	8		
● 8	2716-208	10	● 8	2716-258	8		
							● blue .../000-006
							○ light gray .../000-009
						● green-yellow .../000-016	
						● light green .../000-017	

Dimensions



Testing with 2 mm Ø test plug.

Pin spacing 4 mm / 0.157 in 0.2 - 0.75 mm ² AWG 24 - 18 160 V/2.5 kV/3 I _N 9 A  6 - 7 mm / 0.26 in Approvals	Application notes
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Inserting solid conductors via push-in termination.

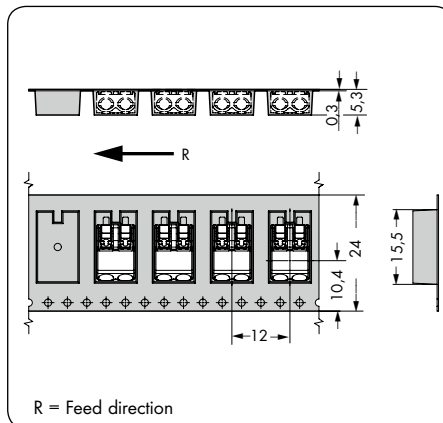
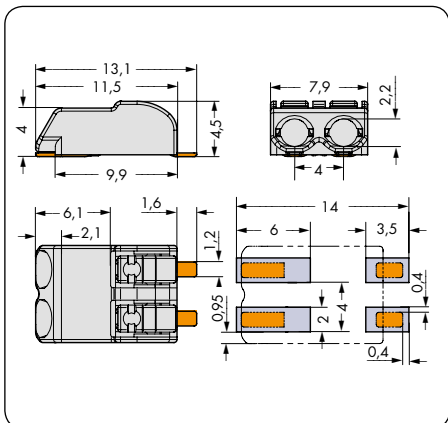


Inserting/removing fine-stranded conductors by lightly pressing on push-button (e.g., using a 233-335 operating pen).



Inserting/Removing conductors using a ball point pen.



Color Pole No.	Item No.	Pack. Unit/Reel
SMD terminal blocks with push-buttons in tape-and-reel packaging, light gray		
○ 1	2060-401/998-404	1500
○ 2	2060-402/998-404	1000
○ 3	2060-403/998-404	750
Reel diameter: 330 mm		
Dimensions		



1-Conductor PCB Terminal Strips

1.5 mm², Pin Spacing 3.5 mm, 805 Series

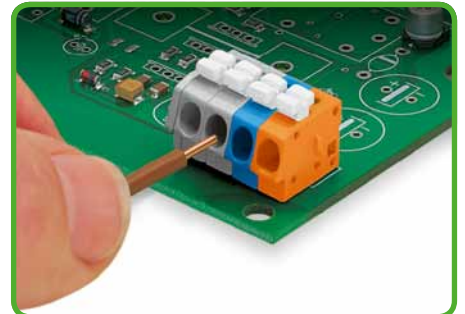
2.5 mm², Pin Spacing 5 mm and 7.5 mm, 804 Series

Pin spacing 3.5 mm / 0.138 in 0.2 - 1.5 mm ² 320 V/4 kV/3 I _N 17.5 A  9 - 10 mm / 0.37 in 1 Approvals	Pin spacing 5 mm / 0.197 in Pin spacing 7.5 mm / 0.295 in 0.5 - 2.5 mm ² "s+f-st" 250 V/4 kV/3, 24 A 320 V/4 kV/2, 24 A AWG 20 - 12 "s+f-st" 300 V, 10 A  10 - 11 mm / 0.41 in 1 Approvals	Application notes Accessories
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CAGE CLAMP® S

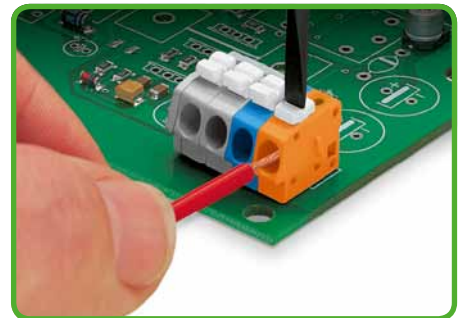


CAGE CLAMP®

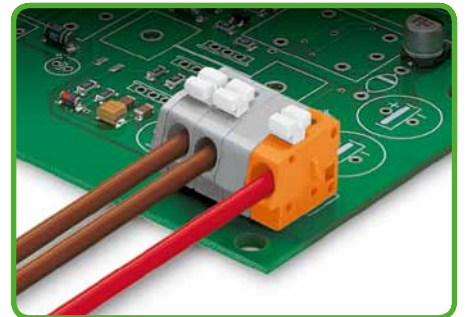


Terminating solid conductors: Simply push in stripped conductor until it hits backstop.

Pole No. Color	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit
1-conductor terminal strip with CAGE CLAMP® S, with push-buttons, 1 solder pin/pole, with test slots for 2 mm Ø test plug, gray			1-conductor terminal strip with CAGE CLAMP®, with push-buttons, 2 staggered solder pins/pole, with test slots for 1 mm Ø test plug, gray		
				Pin spacing 5 mm	
○ 2-pole	805-102	600 (4x150)	○ 2	804-102	420 (4x105)
○ 3-pole	805-103	420 (4x105)	○ 3	804-103	280 (4x70)
○ 4-pole	805-104	300 (4x75)	○ 4	804-104	220 (4x55)
○ 5-pole	805-105	260 (4x65)	○ 5	804-105	180 (4x45)
:	:		:	:	
○ 24-pole	805-124	40 (4x10)	○ 16	804-116	40 (4x10)
without test slot				Pin spacing 7.5 mm	
○ 2-pole	805-302	600 (4x150)	○ 2	804-302	320 (4x85)
○ 3-pole	805-303	420 (4x105)	○ 3	804-303	220 (4x55)
○ 4-pole	805-304	300 (4x75)	○ 4	804-304	160 (4x40)
○ 5-pole	805-305	260 (4x65)	○ 5	804-305	120 (4x30)
:	:		:	:	
○ 24-pole	805-324	40 (4x10)	○ 12	804-312	40 (4x10)
For direct printing, please contact factory.			Item no. suffix for terminal strips in:		
For other lengths, please contact factory.			● red	... /000-005	
Item no. suffix for terminal strips in:			● blue	... /000-006	
● blue	... /000-006		● orange	... /000-012	
● orange	... /000-012		● light green	... /000-017	
			● Terminal blocks with blue insulation are suitable for Ex i applications (only for pin spacing 7.5 mm and 10 mm).		

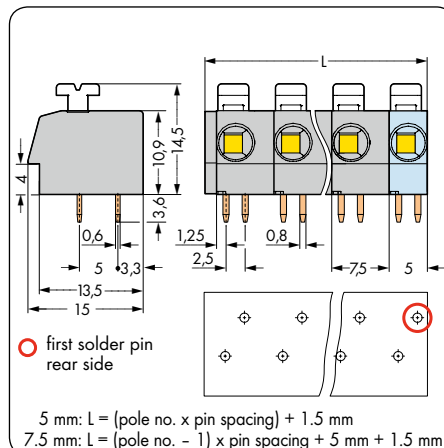
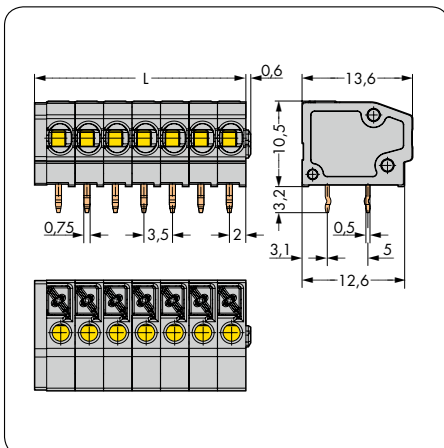


Inserting/removing fine-stranded conductors: Open clamping unit via push-button and insert stripped conductor until it hits backstop.



For terminal strips with and without spacers, please contact factory.

Dimensions Drilled hole diameter: 1.1^{+0.1} mm (805 Series), 1^{+0.1} mm (804 Series)



Accessories, 804/805 Series Item No.

Marker cards, 20 self-adhesive strips		
Spacing 5 mm		
1 - 12 (300x)	210-331/0500-0103	
13 - 24 (300x)	210-331/0500-0104	
Spacing 7.5 mm		
1 - 16 (100x)	210-331/0750-0202	
Test pin, 1 mm Ø,		
with solder connection for test cable	735-500	1
Test plug, with 500 mm cable,		
2 mm Ø, red	210-136	50
Operating tool with partially insulated shaft,		
type 2, (3.5 x 0.5) mm blade	210-720	1

2-Conductor PCB Terminal Strips

1.5 mm², Pin Spacing 5 mm, 816 Series

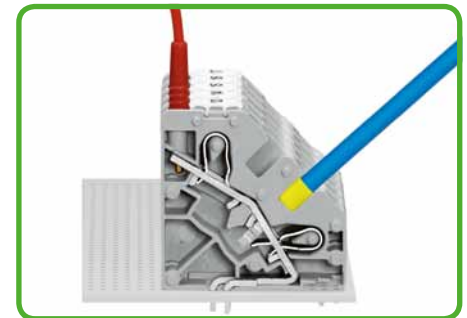
10 mm², Pin Spacing 7.5 mm, 746 Series

Pin spacing 5 mm / 0.197 in 2 x 0.2 - 1.5 mm ² 2 x AWG 24 - 16 320 V/4 kV/3 300 V, 10 A I _N 14 A 9 - 10 mm / 0.37 in Approvals	Pin spacing 7.5 mm / 0.295 in 2 x 0.5 - 10 mm ² 2 x AWG 20 - 8 800 V/8 kV/3 600 V, 50 A I _N 50 A 600 V, 44 A 13 - 15 mm / 0.55 in Approvals	Application notes
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② Conductor sizes: 0.5 - 10 mm² "s+f-st";
 Push-in conductor sizes: 1.5 - 10 mm² "s" and
 1.5 - 6 mm² "insulated ferrule, 12 mm"



Inserting fine-stranded conductors via 5.5 mm screwdriver.



Inserting solid and ferruled conductors by simply pushing them into unit.

Testing with 2 mm Ø test plug.

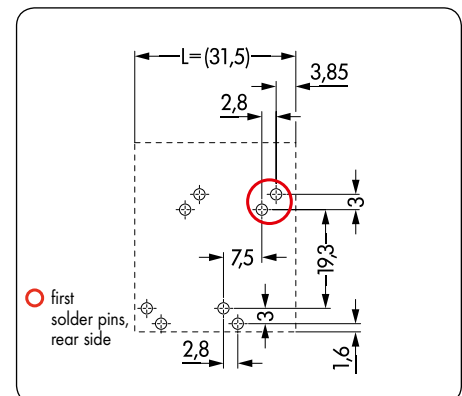
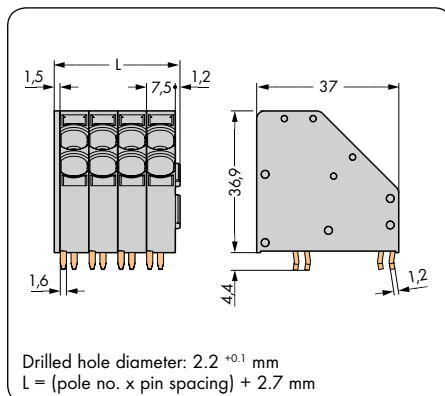
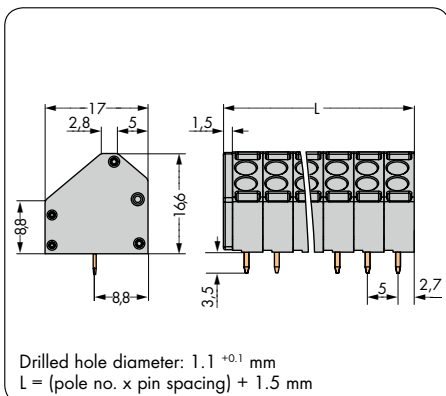


For mixed-color terminal strips, please contact factory.

Pole No. Color	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit
Terminal strip with CAGE CLAMP®S, gray			2-conductor terminal strip with CAGE CLAMP®S, 2 staggered solder pins/pole, gray		
2	816-102	400	2	746-2302	60
3	816-103	250	3	746-2303	40
4	816-104	200	4	746-2304	32
5	816-105	175	5	746-2305	24
6	816-106	150	6	746-2306	20
7	816-107	125	7	746-2307	16
8	816-108	100	8	746-2308	16
9	816-109	100	9	746-2309	12
10	816-110	80	10	746-2310	12
11	816-111	80	12	746-2312	8
12	816-112	60			
For other lengths, please contact factory			For other lengths, please contact factory		
Item no. suffix for terminal strips in:			Item no. suffix for terminal strips in:		
yellow	.../000-002		blue	.../000-006	
blue	.../000-006		light gray	.../000-009	
orange	.../000-012		green-yellow	.../000-016	
			light green	.../000-017	
Accessories, 806 Series			Accessories, 746 Series		
Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade			Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade		
	210-720	1		210-721	1
Marker card, 80 self-adhesive strips per card			Test plug, with 500 mm cable, 2 mm Ø, red		
	210-332/500-202	1 card		210-136	50
1 - 16 (160 x) For direct printing, please contact factory.					

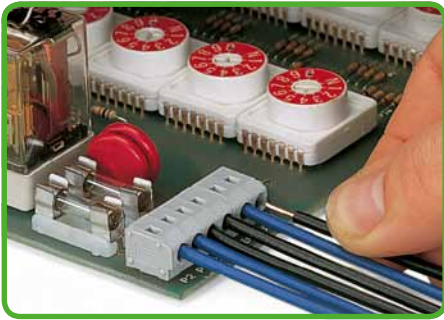
Dimensions

PCB hole pattern, 746 Series

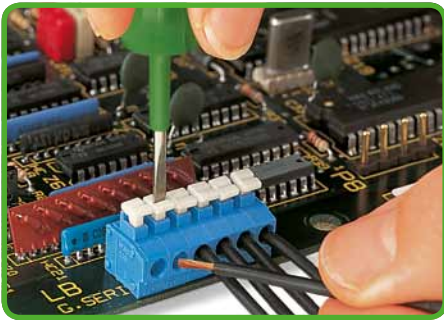


PCB Terminal Strips, Description and Handling 235, 250 and 253 Series

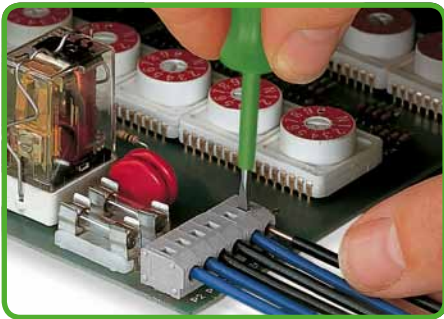
235 Series



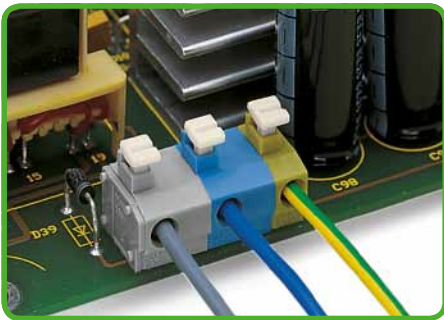
Inserting solid conductor via push-in termination. Terminal strip without push-buttons.



Inserting/removing fine-stranded conductor via push-button.

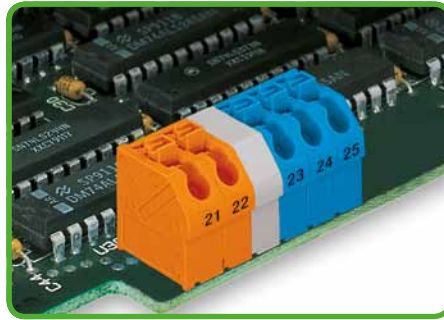


Removing conductor using a screwdriver. Terminal strip without push-buttons.

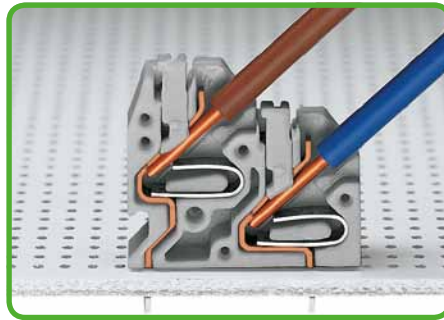


Application example: power supply terminal strip.

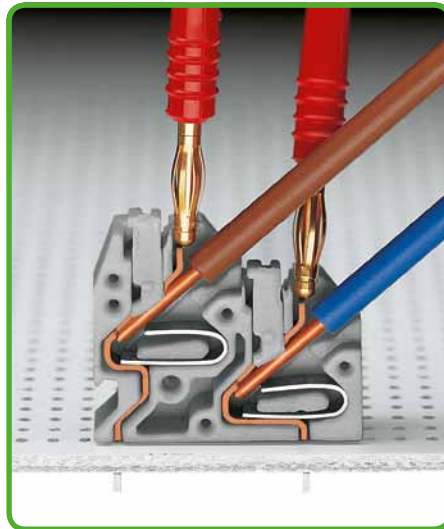
250 Series



Marking using self-adhesive strips or by direct printing. Mixed-color terminal strips (with/without spacer) available upon request.

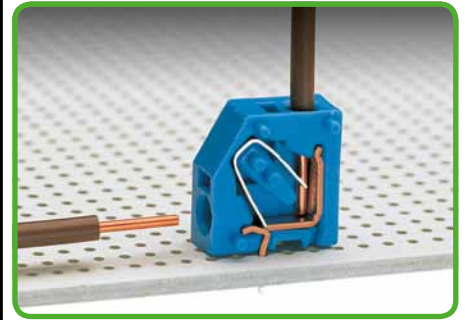


Space-saving wiring. Push-in termination of solid conductors.

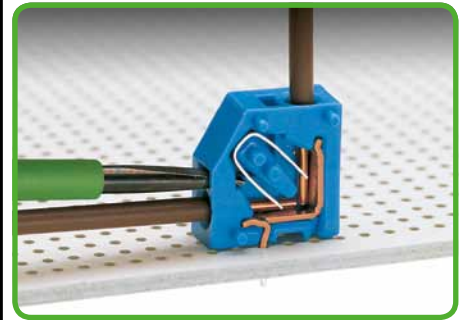


Testing with 2 mm Ø test plug.

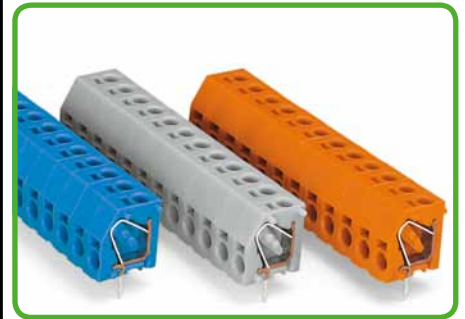
253 Series



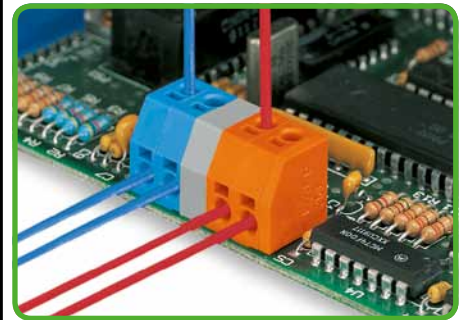
Inserting solid conductor via push-in termination. Front-entry/side-entry wiring.



Removing conductor via 2.5 mm screwdriver.



Terminal strips available in different colors.



Mixed-color terminal strips (with/without spacer) available upon request.

PUSH WIRE® clamps
the following copper conductors:



solid



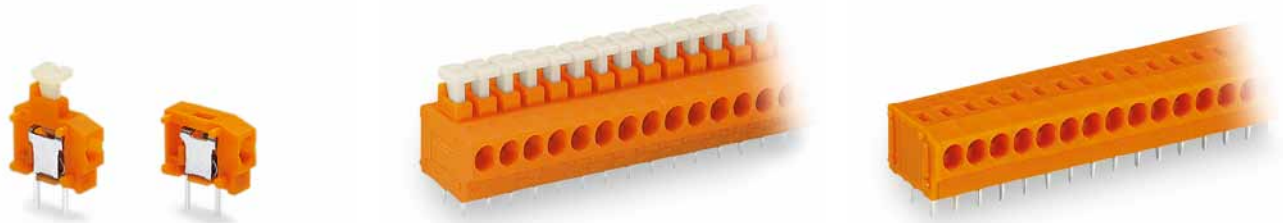
① fine-stranded,
see following pages

Strip length, see packaging or instructions.

PCB Modular Terminal Blocks and Terminal Strips 1.5 mm² Pin Spacing 3.81 mm 235 Series




PUSH WIRE®

<p>Pin spacing 3.81 mm / 0.15 in 0.5 - 1.5 mm² "sol." ① AWG 20 - 16 "sol." 200 V/4 kV/3, 17.5 A 300 V, 10 A ②</p> <p>500 V/4 kV/2, 17.5 A</p> <p>9 - 10 mm / 0.37 in</p> <p>② Approvals</p>	<p>Pin spacing 3.81 mm / 0.15 in 0.5 - 1.5 mm² "sol." ① AWG 20 - 16 "sol." 200 V/4 kV/3, 17.5 A 300 V, 10 A ②</p> <p>500 V/4 kV/2, 17.5 A</p> <p>9 - 10 mm / 0.37 in</p> <p>② Approvals</p>	<p>Pin spacing 3.81 mm / 0.15 in 0.5 - 1.5 mm² "sol." ① AWG 20 - 16 "sol." 200 V/4 kV/3, 10 A 300 V, 10 A ②</p> <p>400 V/4 kV/2, 10 A</p> <p>9 - 10 mm / 0.37 in</p> <p>② Approvals</p>
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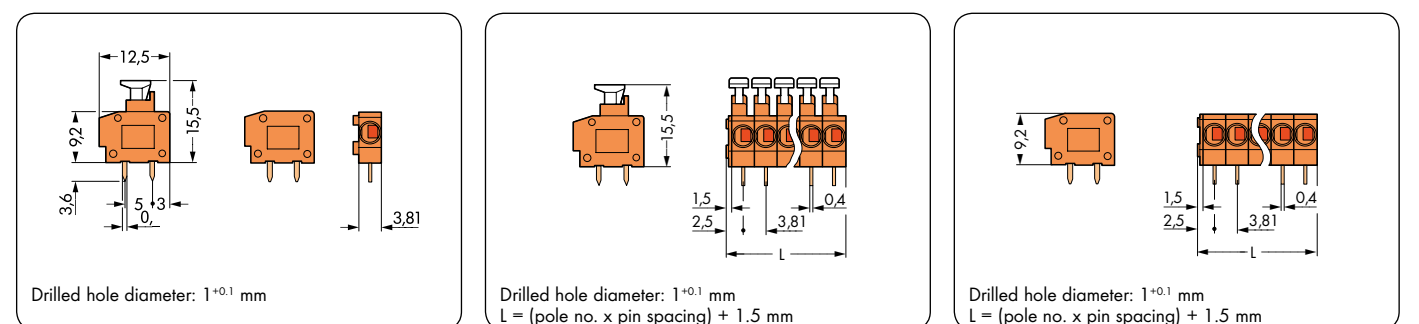


Color	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
1-conductor modular terminal block with push-button ①, 2 solder pins/pole			1-conductor terminal strip with push-buttons ①, 2 solder pins/pole, orange			1-conductor terminal strip without push-buttons, 2 solder pins/pole, orange		
orange	235-101	800 (8x100)	2	235-102	520 (4x130)	2	235-102/330-000	520 (4x130)
red	235-770	800 (8x100)	3	235-103	360 (4x90)	3	235-103/330-000	360 (4x90)
gray	235-771	800 (8x100)	4	235-104	280 (4x70)	4	235-104/330-000	280 (4x70)
dark gray	235-772	800 (8x100)	5	235-105	220 (4x55)	5	235-105/330-000	220 (4x55)
blue	235-774	800 (8x100)	6	235-106	180 (4x45)	6	235-106/330-000	180 (4x45)
white	235-775	800 (8x100)	7	235-107	160 (4x40)	7	235-107/330-000	160 (4x40)
yellow	235-776	800 (8x100)	8	235-108	140 (4x35)	8	235-108/330-000	140 (4x35)
light green	235-777	800 (8x100)	9	235-109	120 (4x30)	9	235-109/330-000	120 (4x30)
black	235-778	800 (8x100)	10	235-110	120 (4x30)	10	235-110/330-000	120 (4x30)
			12	235-112	100 (4x25)	12	235-112/330-000	100 (4x25)
			16	235-116	60 (4x15)	16	235-116/330-000	60 (4x15)
			24	235-124	40 (4x10)	24	235-124/330-000	40 (4x10)
			36	235-136	20 (4x5)	36	235-136/330-000	20 (4x5)
			48	235-148	20 (4x5)	48	235-148/330-000	20 (4x5)
1-conductor modular terminal block without push-button, 2 solder pins/pole			Item no. suffix for terminal strips in:					
orange	235-101/330-000	800 (8x100)	yellow	.../000-002				
			black	.../000-004				
			red	.../000-005				
			blue	.../000-006				
			gray	.../000-007				
			dark gray	.../000-008				
			light green	.../000-017				
			white	.../000-050				
			For other lengths, please contact factory.			For other lengths, please contact factory.		

Accessories, 235 Series (Marking strips, see Section 6)

	End plate , snap-on type, 1 mm thick orange 235-600 100	For more colored end plates, see page 134.		Operating tool with partially insulated shaft , type 1, (2.5x0.4) mm blade 210-719 1	① Fine-stranded conductor sizes: 0.75 mm ² - 1.5 mm ² , 4 A
	Spacer , doubles pin spacing orange 235-316 100				

Dimensions

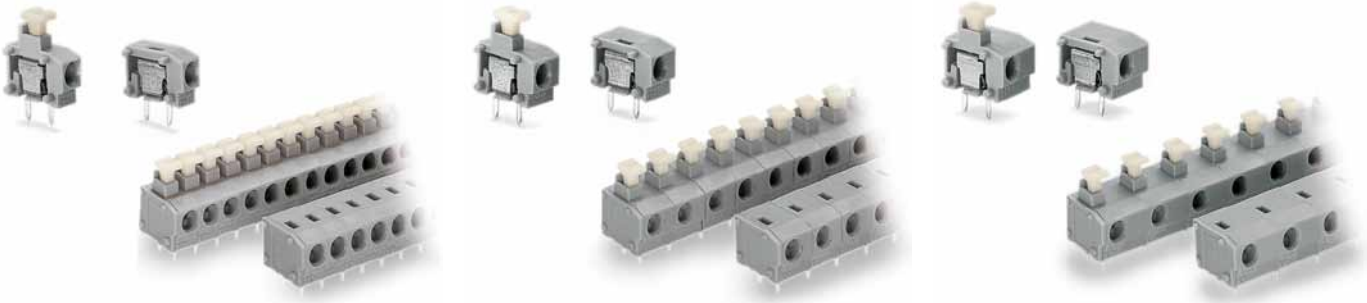


② Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

PCB Modular 1-Conductor Terminal Blocks and Terminal Strips 2.5 mm² Pin Spacing 5/5.08 mm, 7.5/7.62 mm and 10/10.16 mm 235 Series

Pin spacing 5/5.08 mm / 0.2 in 0.5 - 2.5 mm ² "sol." AWG 20 - 14 "sol." (1.5 mm ² "sol." with push-button) 250 V/4 kV/3, 24 A 300 V, 10 A 630 V/4 kV/2, 24 A 300 V, 15 A 9 - 10 mm / 0.37 in Approvals	Pin spacing 7.5/7.62 mm / 0.3 in 0.5 - 2.5 mm ² "sol." AWG 20 - 14 "sol." (1.5 mm ² "sol." with push-button) 400 V/6 kV/3, 24 A 300 V, 10 A 1000 V/6 kV/2, 24 A 300 V, 15 A 9 - 10 mm / 0.37 in Approvals	Pin spacing 10/10.16 mm / 0.4 in 0.5 - 2.5 mm ² "sol." AWG 20 - 14 "sol." (1.5 mm ² "sol." with push-button) 630 V/8 kV/3, 24 A 300 V, 10 A 1000 V/8 kV/2, 24 A 300 V, 15 A 9 - 10 mm / 0.37 in Approvals
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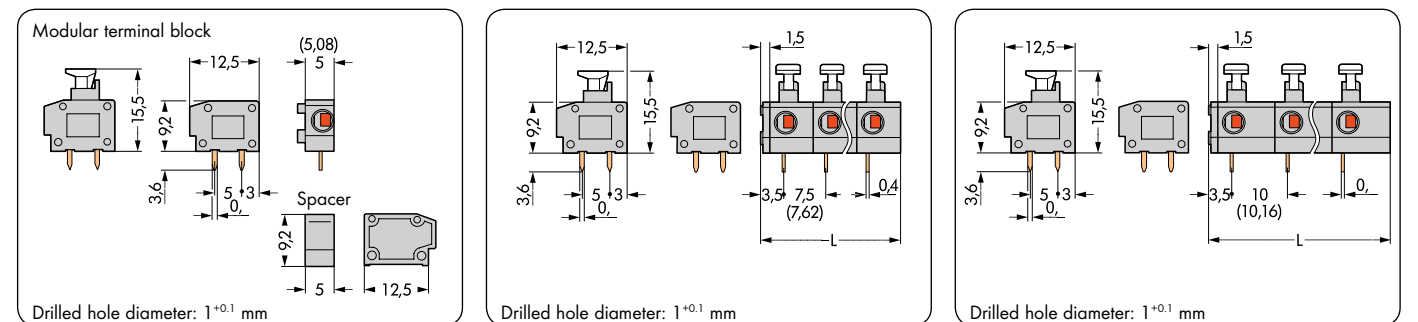


Color Pole No.	Item No.	Item No.	Pack.	Unit	Color Pole No.	Item No.	Item No.	Pack.	Unit	Color Pole No.	Item No.	Item No.	Pack.	Unit			
1-conductor modular terminal block, 2 solder pins/pole					1-conductor modular terminal block, 2 solder pins/pole					1-conductor modular terminal block, 2 solder pins/pole							
with push-button					with push-button					with push-button							
without					without					without							
gray	235-401/331-000	235-401	800		gray	235-501/331-000	235-501	600		gray	235-801/331-000	235-801	400				
red	235-740/331-000		800		dark gray	235-752/331-000	235-752	600		dark gray	235-762/331-000	235-762	400				
yellow	235-741/331-000		800		light gray	235-753/331-000	235-753	600		light gray	235-763/331-000	235-763	400				
dark gray	235-742/331-000	235-742	800		blue	235-754/331-000	235-754	600		blue	235-764/331-000	235-764	400				
light gray	235-743/331-000	235-743	800		white	235-755/331-000		600		white	235-765/331-000		400				
blue	235-744/331-000	235-744	800		orange	235-756/331-000	235-756	600		orange	235-766/331-000	235-766	400				
white	235-745/331-000		800		light green	235-757/331-000	235-757	600		light green	235-767/331-000	235-767	400				
orange	235-746/331-000	235-746	800		black	235-758/331-000		600		black	235-768/331-000		400				
light green	235-747/331-000	235-747	800		1-conductor terminal strip without push-buttons,					1-conductor terminal strip without push-buttons,							
black	235-748/331-000		800		2 solder pins/pole, standard lengths, gray					2 solder pins/pole, standard lengths, gray							
violet	235-749/331-000		800		2	235-502	280	8	235-508	60	2	235-802	220	8	235-808	40	
1-conductor terminal strip without push-buttons,					1-conductor terminal strip without push-buttons,					1-conductor terminal strip without push-buttons,							
2 solder pins/pole, standard lengths, gray					2 solder pins/pole, standard lengths, gray					2 solder pins/pole, standard lengths, gray							
3	235-403	420	16	235-412	60	3	235-503	200	9	235-509	60	3	235-803	140	9	235-809	40
4	:	:	24	235-424	40	4	235-504	140	10	235-510	60	4	235-804	120	10	235-810	40
5	235-409	100	36	235-436	20	5	235-505	120	12	235-512	40	5	235-805	80	12	235-812	40
6	:	:	:	:	:	6	235-506	100	16	235-516	40	6	235-806	80	16	235-816	20
7	235-410	80	48	235-448	20	7	235-507	80	24	235-524	20	7	235-807	60	24	235-824	20
					For custom terminal strips, please contact factory.					For custom terminal strips, please contact factory.							

Accessories, 235 Series Modular Terminal Blocks and Terminal Strips (Marking strips, see Section 6)

End plates, snap-on type, 1 mm thick gray 235-100 100 dark gray 235-200 100 light gray 235-300 100 blue 235-400 100 black 235-500 100 yellow 235-550 100	End plates, snap-on type, 1 mm thick orange 235-600 100 violet 235-650 100 light green 235-700 100 red 235-800 100 white 235-850 100	Item no. suffix for colored terminal strips with/without push-buttons <ul style="list-style-type: none"> blue .../...-006 dark gray .../...-008 light gray .../...-009 orange .../...-012 light green .../...-017
Spacer, doubles pin spacing gray 235-701 100	Operating tool with partially insulated shaft, type 2, (3.5x0.5) mm blade 210-720 1	<div style="border: 1px solid black; padding: 5px;"> Fine-stranded conductor sizes: 0.25 mm² - 0.5 mm², 2 A 0.75 mm² - 1.5 mm², 6 A </div>

Dimensions (Adjust pin spacing by pulling on the end blocks so that they expand to satisfy the hole centers required.) **L = (pole no. x pin spacing) + 1.5 mm**


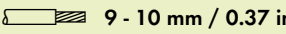

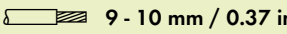

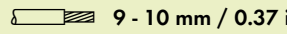


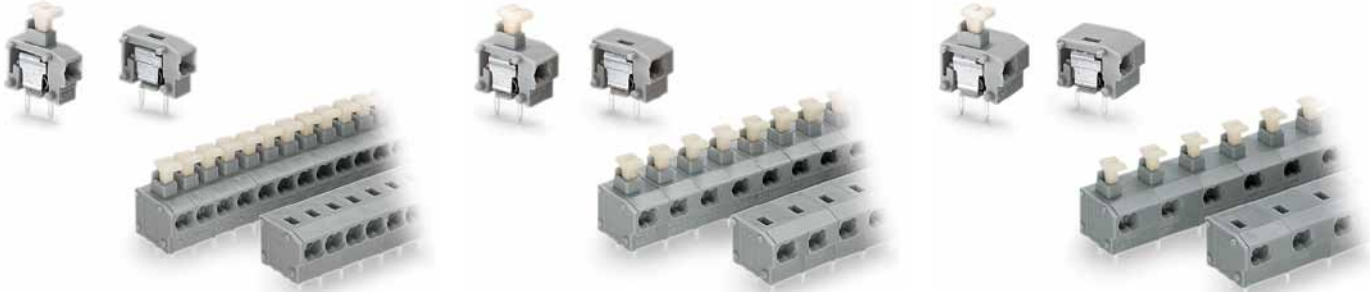
Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

PCB 2-Conductor Modular Terminal Blocks 0.75 mm² Pin Spacing 5/5.08 mm, 7.5/7.62 mm and 10/10.16 mm 235 Series

PUSH WIRE®

Pin spacing 5/5.08 mm / 0.2 in 2 x 0.25 - 0.75 mm ² "sol." 2 x AWG 24 - 18 "sol." 250 V/4 kV/3, 10 A 300 V, 10 A  630 V/4 kV/2, 10 A  9 - 10 mm / 0.37 in Approvals	Pin spacing 7.5/7.62 mm / 0.3 in 2 x 0.25 - 0.75 mm ² "sol." 2 x AWG 24 - 18 "sol." 400 V/6 kV/3, 10 A 300 V, 10 A  1000 V/6 kV/2, 10 A  9 - 10 mm / 0.37 in Approvals	Pin spacing 10/10.16 mm / 0.4 in 2 x 0.25 - 0.75 mm ² "sol." 2 x AWG 24 - 18 "sol." 630 V/8 kV/3, 10 A 300 V, 10 A  1000 V/8 kV/2, 10 A  9 - 10 mm / 0.37 in Approvals
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Color Pole No.	Item No.	Item No.	Pack.	Unit	Color Pole No.	Item No.	Item No.	Pack.	Unit	Color Pole No.	Item No.	Item No.	Pack.	Unit			
2-conductor modular terminal block, 2 solder pins/pole with push-button					2-conductor modular terminal block, 2 solder pins/pole without push-button					2-conductor modular terminal block, 2 solder pins/pole with push-button							
gray	235-711/331-000	235-711	800		gray	235-551/331-000	235-551	600		gray	235-851/331-000	235-851	400				
dark gray	235-712/331-000	235-712	800		dark gray	235-722/331-000	235-722	600		dark gray	235-732/331-000	235-732	400				
light gray	235-713/331-000	235-713	800		light gray	235-723/331-000	235-723	600		light gray	235-733/331-000	235-733	400				
blue	235-714/331-000	235-714	800		blue	235-724/331-000	235-724	600		blue	235-734/331-000	235-734	400				
orange	235-716/331-000	235-716	800		orange	235-726/331-000	235-726	600		orange	235-736/331-000	235-736	400				
light green	235-717/331-000	235-717	800		light green	235-727/331-000	235-727	600		light green	235-737/331-000	235-737	400				
2-conductor terminal strip without push-buttons, 2 solder pins/pole, standard lengths, gray					2-conductor terminal strip without push-buttons, 2 solder pins/pole, standard lengths, gray					2-conductor terminal strip without push-buttons, 2 solder pins/pole, standard lengths, gray							
2	235-452	420	9	235-459	100	2	235-552	280	8	235-558	60	2	235-852	220	8	235-858	40
3	235-453	280	10	235-460	80	3	235-553	140	9	235-559	60	3	235-853	140	9	235-859	40
4	235-454	220	12	235-462	60	4	235-554	120	10	235-560	60	4	235-854	120	10	235-860	40
5	235-455	180	16	235-466	60	5	235-555	80	12	235-562	40	5	235-855	80	12	235-862	40
6	235-456	140	24	235-474	40	6	235-556	80	16	235-566	40	6	235-856	80	16	235-866	20
7	235-457	120	36	235-486	20	7	235-557	60	24	235-574	20	7	235-857	60	24	235-874	20
8	235-458	100	48	235-498	20												

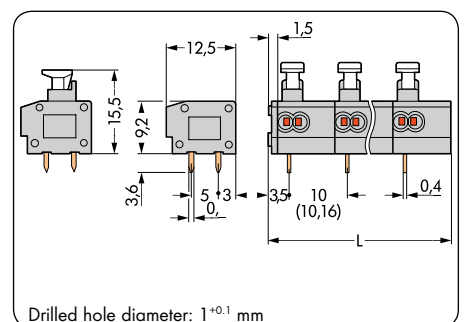
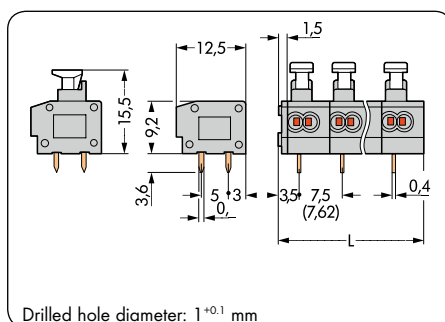
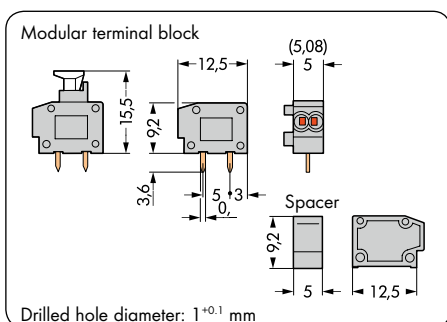
Accessories, 235 Series Modular Terminal Blocks and Terminal Strips (Marking strips, see Section 6)

 End plates, snap-on type, 1 mm thick gray 235-100 100 dark gray 235-200 100 light gray 235-300 100 blue 235-400 100 orange 235-600 100 light green 235-700 100	 Item no. suffix for 2-conductor terminal strips with push-buttons ... /331-000	Item no. suffix for terminal strips in: blue ... /...-006 dark gray ... /...-008 light gray ... /...-009 orange ... /...-012 light green ... /...-017
		Terminal blocks with blue insulation are suitable for Ex i applications (only for 7.5/7.62 mm and 10/10.16 mm pin spacing).
 Spacer, doubles pin spacing gray 235-701 100		

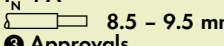
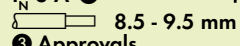
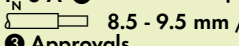
Dimensions

(Adjust pin spacing by pulling on the end blocks so that they expand to satisfy the hole centers required.)

$$L = (\text{pole no.} \times \text{pin spacing}) + 1.5 \text{ mm}$$





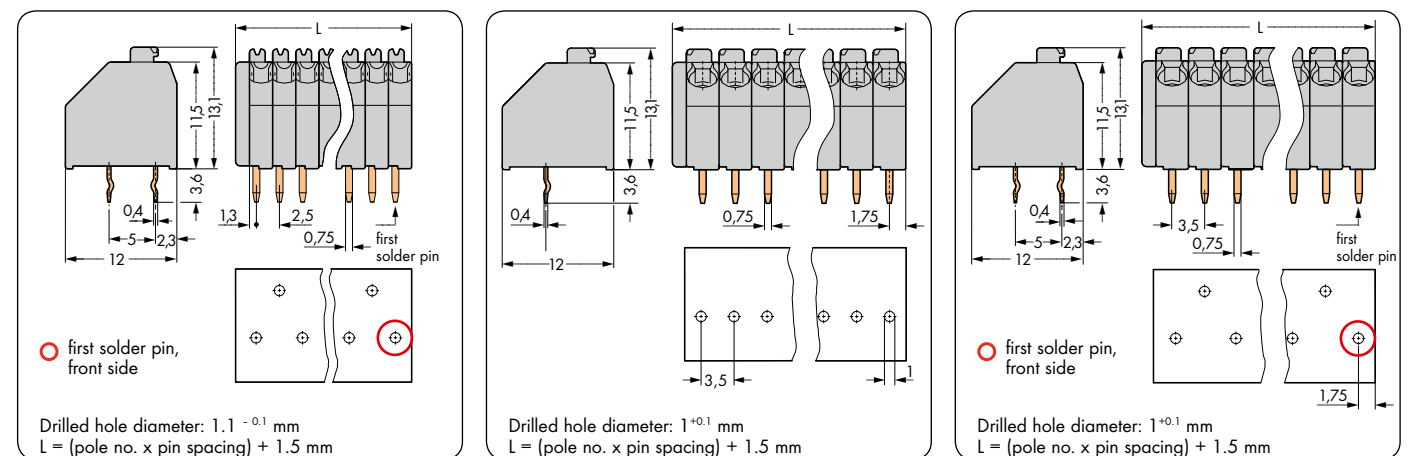
PCB Terminal Strips with Push-Buttons 0.8 mm Ø and 1.5 mm² Pin Spacing 2.5 mm; 2.54 mm and 3.5 mm 250 Series

<p>Pin spacing 2.5 mm / 0.098 in Pin spacing 2.54 mm / 0.1 in 0.4 - 0.8 mm Ø "sol." ① AWG 24 - 20 "sol." 160 V/2.5 kV/2 300 V, 5 A ② I_N 4 A 300 V, 2 A ③</p>  <p>8.5 - 9.5 mm / 0.34 in ③ Approvals</p>	<p>Pin spacing 3.5 mm / 0.138 in</p> <p>0.2 - 1.5 mm² "s+st" AWG 24 - 16 "sol." 160 V/2.5 kV/2 300 V, 5 A ② I_N 8 A ② 300 V, 10 A ③</p>  <p>8.5 - 9.5 mm / 0.34 in ③ Approvals</p>	<p>Pin spacing 3.5 mm / 0.138 in</p> <p>0.2 - 1.5 mm² "s+st" AWG 24 - 16 "sol." 320 V/4 kV/2 300 V, 5 A ② I_N 8 A ② 300 V, 10 A ③</p>  <p>8.5 - 9.5 mm / 0.34 in ③ Approvals</p>
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Pole No. Color	Item No.	Pack. Unit	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit				
1-conductor terminal strip with push-buttons, 1 staggered solder pin/pole, with test slot for test pin up to 1.3 mm Ø, gray			1-conductor terminal strip with push-buttons, 1 front solder pin/pole, with test slots for test pin up to 1.3 mm Ø, gray			1-conductor terminal strip with push-buttons, 1 staggered solder pin/pole, with test slot for test pin up to 1.3 mm Ø, gray								
Pin spacing	2.5 mm/0.098 in		2.54 mm/0.1 in		Pin spacing	2.5 mm/0.098 in		2.54 mm/0.1 in		Pin spacing	2.5 mm/0.098 in		2.54 mm/0.1 in	
○ 2	250-402	720	250-1402	720	○ 2	250-102	560 (4x140)	○ 2	250-202	560 (4x140)				
○ 3	250-403	520	250-1403	520	○ 3	250-103	400 (4x100)	○ 3	250-203	400 (4x100)				
○ 4	250-404	400	250-1404	400	○ 4	250-104	300 (4x75)	○ 4	250-204	300 (4x75)				
:	:	:	:	:	○ 5	250-105	240 (4x60)	○ 5	250-205	240 (4x60)				
○ 11	250-411	160	250-1411	160	○ 11	250-111	120 (4x30)	○ 11	250-211	120 (4x30)				
○ 12	250-412	140	250-1412	140	○ 12	250-112	100 (4x25)	○ 12	250-212	100 (4x25)				
:	:	:	:	:	:	:	:	:	:	:				
○ 19	250-419	80	250-1419	80	○ 17	250-117	80 (4x20)	○ 17	250-217	80 (4x20)				
○ 20	250-420	80	250-1420	80	○ 18	250-118	60 (4x15)	○ 18	250-218	60 (4x15)				
○ 21	250-421	80	250-1421	80	○ 19	250-119	60 (4x15)	○ 19	250-219	60 (4x15)				
○ 22	250-422	80	250-1422	80	○ 20	250-120	60 (4x15)	○ 20	250-220	60 (4x15)				
○ 23	250-423	80	250-1423	60	○ 21	250-121	60 (4x15)	○ 21	250-221	60 (4x15)				
○ 24	250-424	60	250-1424	60	○ 22	250-122	60 (4x15)	○ 22	250-222	60 (4x15)				
For 2.5 mm and 2.54 mm pin spacing				For 3.5 mm pin spacing				For other colors, please contact factory.						
Item no. suffix for terminal strips in:				Item no. suffix for terminal strips in:				Item no. suffix for terminal strips in:						
● black .../000-004				● black .../000-004				● brown .../000-014						
● red .../000-005				● red .../000-005				● light green .../000-017						
● blue .../000-006				● blue .../000-006				● violet .../000-024						
○ light gray .../000-009				○ light gray .../000-009				○ white .../000-050						
● orange .../000-012				● orange .../000-012										
● violet .../000-024														
○ white .../000-050														

<p>Accessories, 250 Series</p> <p>① Fine-stranded conductor sizes: 0.2 mm² - 0.5 mm²</p>	 <p>Test pin, 1 mm Ø, with solder connection for test cable 735-500 1</p>	 <p>Operating tool with partially insulated shaft, type 1, (2.5x0.4) mm blade 210-719 1</p>
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② Higher currents upon request ③ Approvals are available online at: www.wago.com.

PCB Terminal Strips with Push-Buttons 1.5 mm²; Pin Spacing 5 mm and 7.5 mm **PUSH WIRE®**

PCB Terminal Strips without Push-Buttons 1.5 mm², Pin Spacing 5 mm

250 and 253 Series

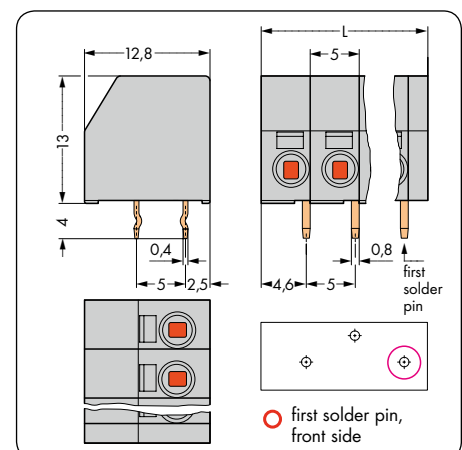
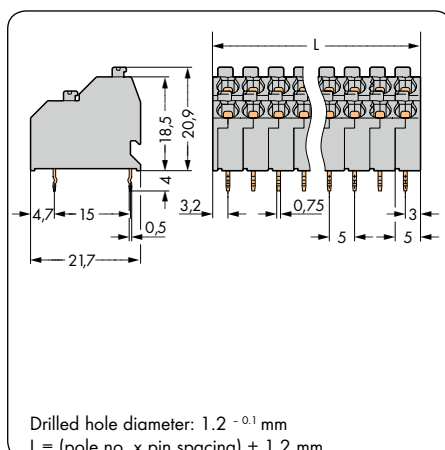
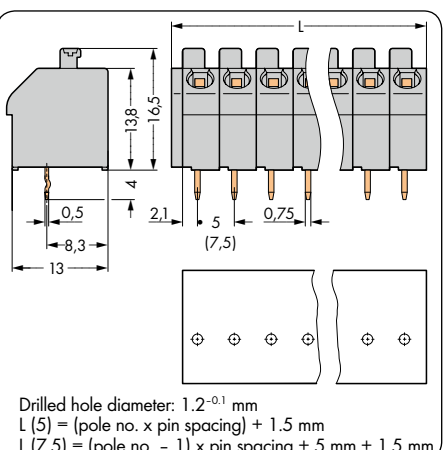
Pin spacing 5 mm / 0.197 in 400 V/4 kV/2 Pin spacing 7.5 mm / 0.295 in 0.5 - 1.5 mm ² "sol." ① AWG 22 - 14 "sol." 800 V/4 kV/2 300 V, 2 A I _N 10 A 300 V, 10 A 9 - 10 mm / 0.37 in	Pin spacing 5 mm / 0.197 in 0.5 - 1.5 mm ² "sol." ① AWG 22 - 14 "sol." 400 V/4 kV/2 300 V, 10 A I _N 10 A 9 mm / 0.35 in ③ Approvals	Pin spacing 5 mm / 0.197 in 2 x 0.5 - 1.5 mm ² "sol." AWG 20 - 16 "sol." 500 V/4 kV/2 300 V, 2 A I _N 10 A 8.5 - 9.5 mm / 0.34 in for wiring on both sides 7 - 8 mm / 0.3 in ③ Approvals
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③ Approvals

③ Approvals



Pole No. Color	Item No.	Item No.	Pole No. Color	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit
1-conductor terminal strip with push-buttons, 1 in-line solder pin/pole, with test slots for test plug up to 2 mm Ø, gray Pin spacing 5 mm/0.197 in 7.5 mm/0.295 in			Double-deck terminal strip with push-buttons, 2 in-line solder pins, with test slots for test plug up to 2.3 mm Ø, gray			2-conductor terminal strip without push-buttons, 1 staggered solder pin/pole, gray		
○ 2	250-502	400	○ 2 x 2	250-702	264 (4x66)	○ 2	253-102	400 (4x100)
○ 3	250-503	280	○ 3 x 2	250-703	180 (4x45)	○ 3	253-103	280 (4x70)
○ :	:	:	○ 4 x 2	250-704	132 (4x33)	○ 4	253-104	200 (4x50)
○ 8	250-508	100	○ 6 x 2	250-706	84 (4x21)	○ 5	253-105	160 (4x40)
○ 9	250-509	100	○ 8 x 2	250-708	72 (4x18)	○ 6	253-106	140 (4x35)
○ 10	250-510	80	○ 10 x 2	250-710	48 (4x12)	○ 7	253-107	120 (4x30)
○ 11	250-511	80	○ 12 x 2	250-712	36 (4x9)	○ 8	253-108	100 (4x25)
○ 12	250-512	60	○ 16 x 2	250-716	24 (4x6)	○ 9	253-109	100 (4x25)
○ 13	250-513	60	○ 24 x 2	250-724	12 (4x3)	○ 10	253-110	80 (4x20)
○ 14	250-514	60	For other lengths, please contact factory.			○ 11	253-111	80 (4x20)
○ 15	250-515	60				○ 12	253-112	60 (4x15)
○ 16	250-516	40				○ 13	253-113	60 (4x15)
For 5 mm and 7.5 mm pin spacing Item no. suffix for terminal strips in:			For 5 mm pin spacing Item no. suffix for terminal strips in:			Item no. suffix for terminal strips in:		
● yellow .../000-002			● blue .../000-006			● yellow .../000-002		
● red .../000-005			● orange .../000-012			● black .../000-004		
● blue .../000-006						● red .../000-005		
○ light gray .../000-009						● blue .../000-006		
● orange .../000-012						○ light gray .../000-009		
● brown .../000-014						● orange .../000-012		
● light green .../000-017						● light green .../000-017		
○ white .../000-050						● violet .../000-024		
For other colors, please contact factory.						○ white .../000-050		
Accessories, 250 Series (Marking strips, see Section 6)								
Test plug, with 500 mm cable, 2 mm Ø red 210-136 50 (5x10)			Test plug, with 500 mm cable 2 mm Ø, red 210-136 50 2.3 mm Ø, yellow 210-137 50			Dimensions (in mm), 253 Series Drilled hole diameter: 1.1 ^{+0.1} mm L = (pole no. x pin spacing) + 2 mm		



For technical explanations and abbreviations, see technical section.





PCB Terminal Strips with Push-Buttons 1.5 mm² Pin Spacing 3.5 mm 2081 Series

<p>Pin spacing 3.5 mm / 0.138 in 0.2 - 1.5 mm² AWG 24 - 16 160 V/2.5 kV/2 I_N 17.5 A 8 - 9 mm / 0.33 in</p> <p>📌 Approvals</p>	<p>Pin spacing 3.5 mm / 0.138 in 0.2 - 1.5 mm² AWG 24 - 16 160 V/2.5 kV/2 I_N 17.5 A 8 - 9 mm / 0.33 in</p> <p>📌 Approvals</p>	<p>Pin spacing 3.5 mm / 0.138 in 0.2 - 1.5 mm² AWG 24 - 16 160 V/2.5 kV/2 I_N 17.5 A 8 - 9 mm / 0.33 in</p> <p>📌 Approvals</p>
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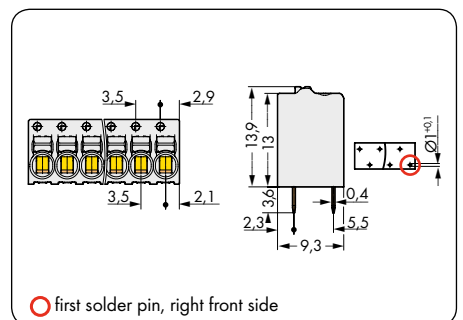
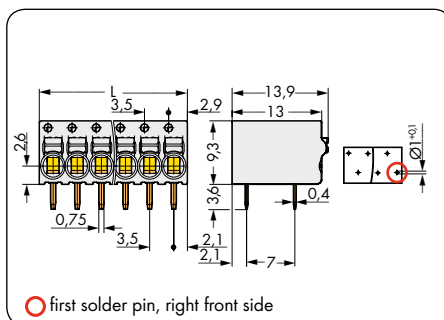
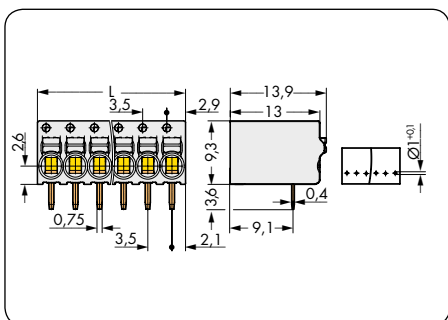


Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Terminal strip with push-buttons, with in-line angled solder pins, with test slots for 1 mm Ø test pin, gray			Terminal strip with push-buttons, with staggered, angled solder pins, with test slots for 1 mm Ø test pin, gray			Terminal strip with push-buttons, with staggered straight solder pins, with test slots for 1 mm Ø test pin, gray		
2	2081-1202	500	2	2081-1222	500	2	2081-1122	500
3	2081-1203	320	3	2081-1223	320	3	2081-1123	320
4	2081-1204	240	4	2081-1224	240	4	2081-1124	240
5	2081-1205	240	5	2081-1225	240	5	2081-1125	240
6	2081-1206	160	6	2081-1226	160	6	2081-1126	160
8	2081-1208	140	8	2081-1228	140	8	2081-1128	140
12	2081-1212	140	12	2081-1232	140	12	2081-1132	140
Direct printing upon request			Direct printing upon request					

Accessories, 2081 Series (Marking strips, see Section 6)

<p>Test pin, 1 mm Ø, with solder connection for test cable 735-500 1</p> 	<p>Operating tool with partially insulated shaft, type 1, (2.5 x 0.4) mm blade 210-719 1</p> 
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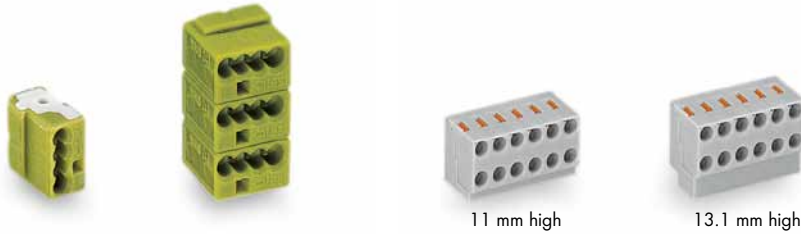
Dimensions Drilled hole diameter: 1^{+0.1} mm



4-Conductor Modular PCB Connectors, Pin Spacing 5.75 mm, 243 Series

2-Conductor Compact PCB Connectors, Pin Spacing 3.5 mm, 252 Series

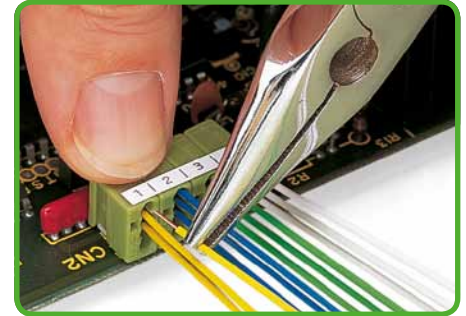
<p>Pin spacing 5.75 mm / 0.226 in 4 x 0.5 Ø / 4 x 0.6 Ø / 4 x 0.8 Ø / 4 x 1 mm Ø "sol." 4 x AWG 24/4 x AWG 22/4 x AWG 20/ 4 x AWG 18 "sol." 125 V 100 V/1.5 kV/2, 6 A 150 V </p> <p> 5 - 6 mm / 0.22 in</p> <p> Approvals</p>	<p>Pin spacing 3.5 mm / 0.138 in 2 x 0.4 - 0.8 mm Ø "sol." 2 x AWG 26 - 20 "sol."</p> <p>320 V/4 kV/2, 2 A 300 V, 2 A </p> <p> 6 - 7 mm / 0.26 in</p> <p> Approvals</p>	<p>Description and handling</p>
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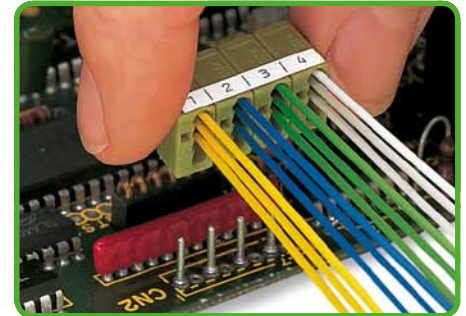
11 mm high

13.1 mm high

243 Series

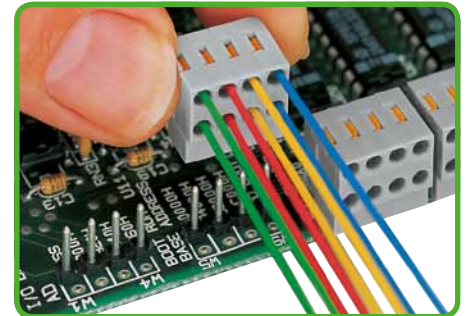


Inserting conductor using pliers until it hits backstop - directly on the PCB ...
 ... or wiring prior to mounting on PCB.



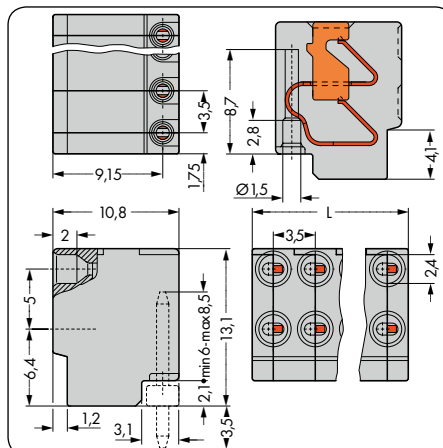
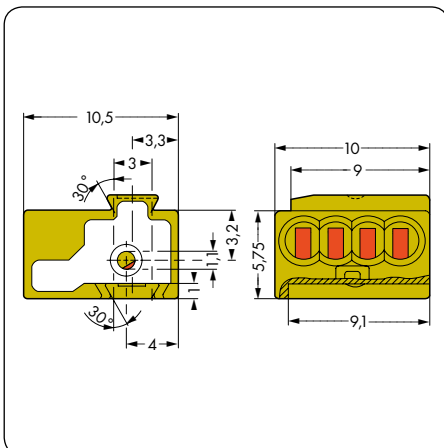
Removing modular PCB connector strip to replace the board.

252 Series



Removing modular PCB connector strip to replace the board.

Color Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Item No.	Pack. Unit
4-conductor modular PCB connector, can be assembled to connector strips using dovetail joints, with test slot, for solid conductors			2-conductor compact PCB connector, gray for individual solder pins for solder pin strip				
	243-721	400		252-102	600	252-152	600
	243-722	400		252-103	400	252-153	400
	243-723	400		252-104	300	252-154	300
	243-724	400		252-105	300	252-155	300
				252-106	200	252-156	200
				252-107	200	252-157	200
				252-108	200	252-158	200
				252-109	200	252-159	200
				252-110	150	252-160	150
Accessories, 252 Series							
			Solder pin,	1 x 8.5 mm Ø for PCBs up to 2 mm thick for 11 mm high version			
				243-131	1000		
			Solder pin strip,	2- to 10-pole, for 13.1 mm high version			
				252-902 to 252-910	500		
			Solder pin strip with strain relief,	4-pole, for 13.1 mm high version			
				252-954	1000		
For other colors, see Full Line Catalog, Volume 2.							
Accessories, 243 Series							
			Solder pin, for PCBs up to 2 mm thick	243-131		1000	
			Marker card, 80 self-adhesive strips per card	1 - 12 (160 x)			
				210-332/0575-0103	1 card		
			Marker cards, 80 self-adhesive strips per card	1 - 16 (240 x)		210-332/0350-0202	
				17 - 32 (240 x)		210-332/0350-0204	
Dimensions		Drilled hole diameter: 1.2 ±0.05 mm L = pole no. x pin spacing					



Removing conductor.

For technical explanations and abbreviations, see technical section.

3 The WAGO-I/O-SYSTEM 750, 753, 758

WAGO-I/O-SYSTEM 750, 753, 758 for Scalable Industrial ETHERNET Solutions

Fine modularity and fieldbus-independence are hallmarks of the WAGO-I/O-SYSTEM, which boasts worldwide approvals for a diverse range of applications. During development, great care was taken to ensure the system could account for all the requirements placed on decentralized fieldbus systems. Optimized for process-oriented communication with a scalable performance solution,

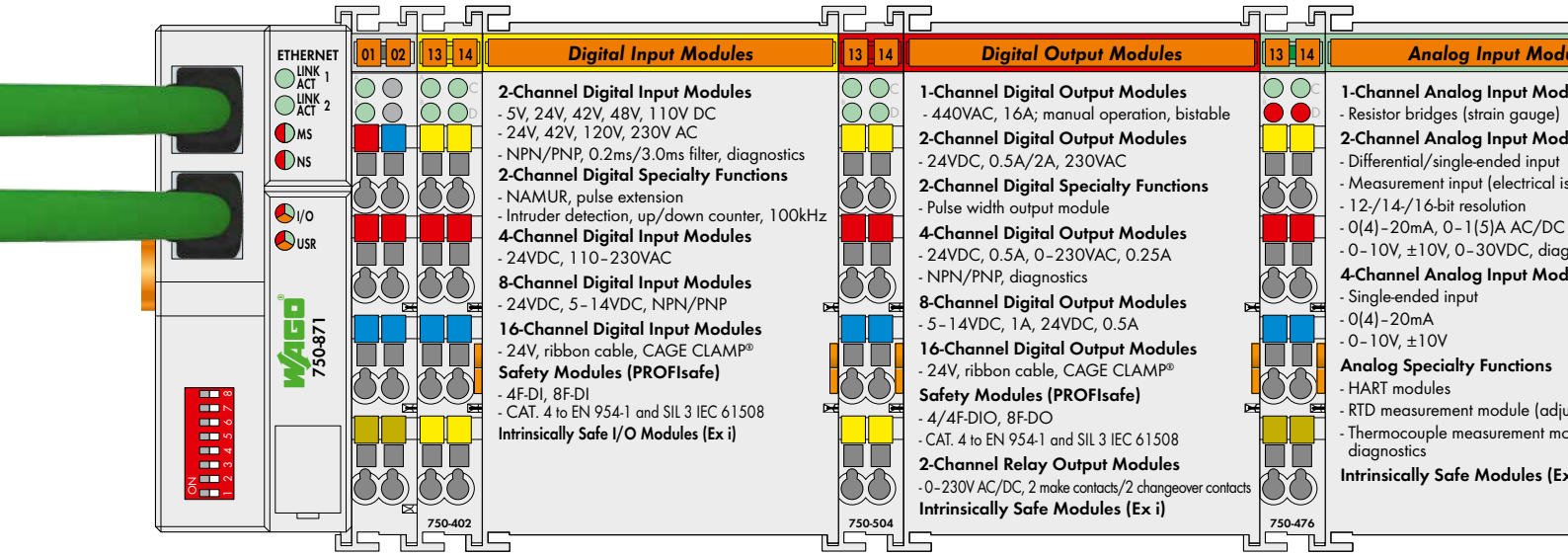
the WAGO-I/O-SYSTEM offers high integration density with an unbeatable price/performance ratio.

- Virtually unlimited application possibilities
- Minimal hardware and system costs
- Simple operation, maximum efficiency

The basic premise of the modular system is reflected in the support of numerous fieldbus systems. Depending on the application, it is possible to choose between fieldbus couplers and controllers for different protocols.



Compact IPC



Designed to Meet Practical Requirements

Fine granularity:

- I/O module accommodates 1, 2, 4 or 8 channels

Fieldbus-independent:

- Fieldbus couplers & fieldbus controllers for the most common fieldbus protocols & industrial ETHER-NET standards

A sound investment:

- Fieldbus-independent node design easily accommodates new bus standards while retaining the I/O modules

Clear identification:

- Color-coded group marker carriers and WAGO WSB markers for clamping units

Scalable performance:

- With economy and standard couplers as well as programmable controllers on through to comprehensive IPCs

High-performance:

- Fieldbus couplers with additional PLC functionality (controllers) for distributed control networks acc. to IEC 61131-3

Great flexibility:

- Configuration possibilities for digital and analog inputs and outputs and specialty modules with different potentials, capacity, and signals on one fieldbus node

Dependable:

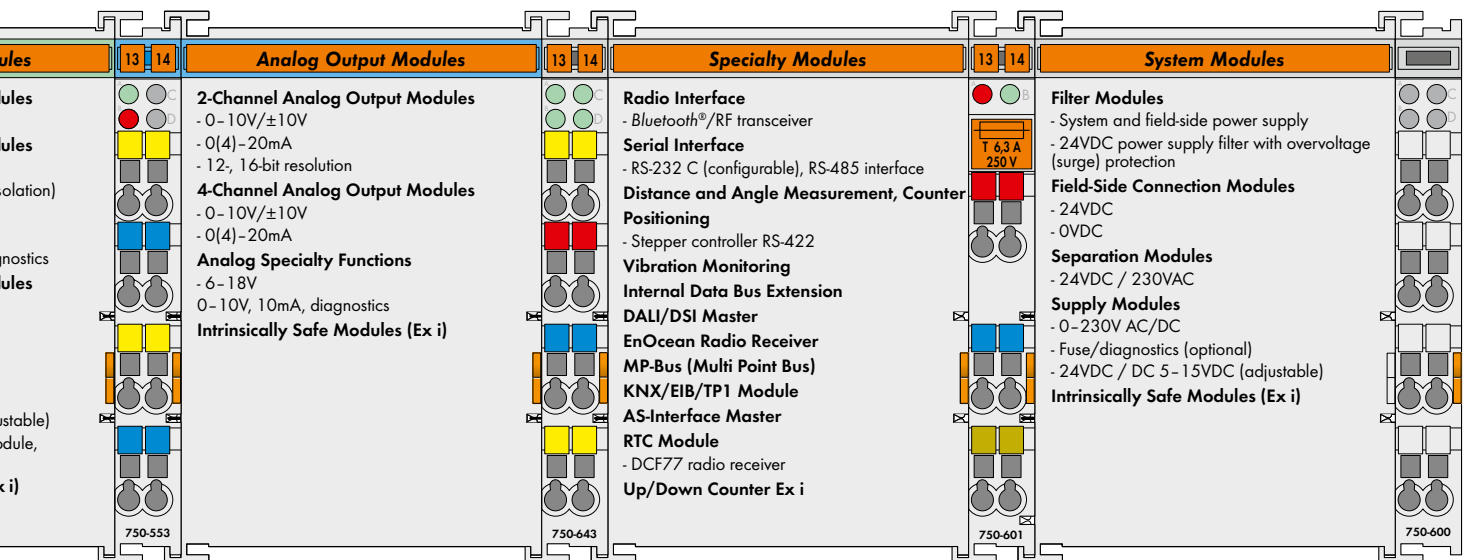
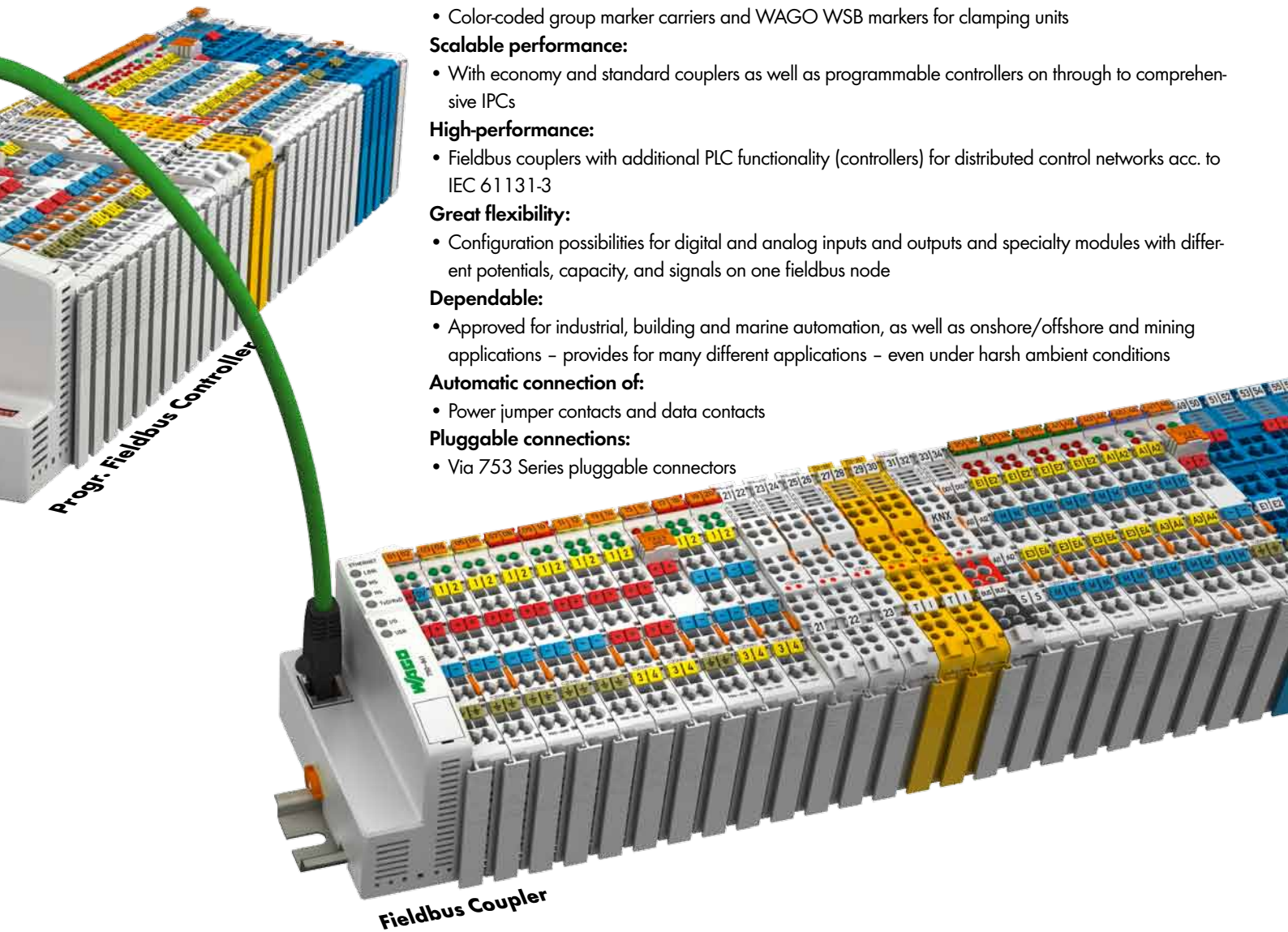
- Approved for industrial, building and marine automation, as well as onshore/offshore and mining applications – provides for many different applications – even under harsh ambient conditions

Automatic connection of:

- Power jumper contacts and data contacts

Pluggable connections:

- Via 753 Series pluggable connectors



3 WAGO-I/O-SYSTEM 750

142

I/O Module

Universal Basic Module

Assembly



Fine modularity for on-rail assembly

Power jumper contacts on the field side



Safe, automatic connection by tinned, self-cleaning slide contacts with high contact safety through make-first, break-last ground contact

Data contacts

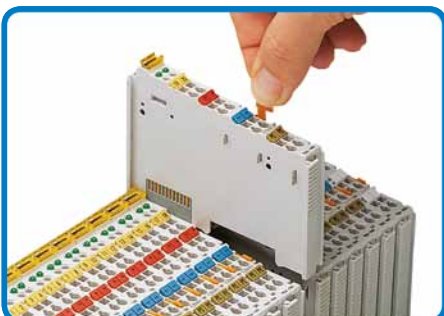


Safe, automatic connection by gold-plated, self-cleaning slide contacts with high contact safety

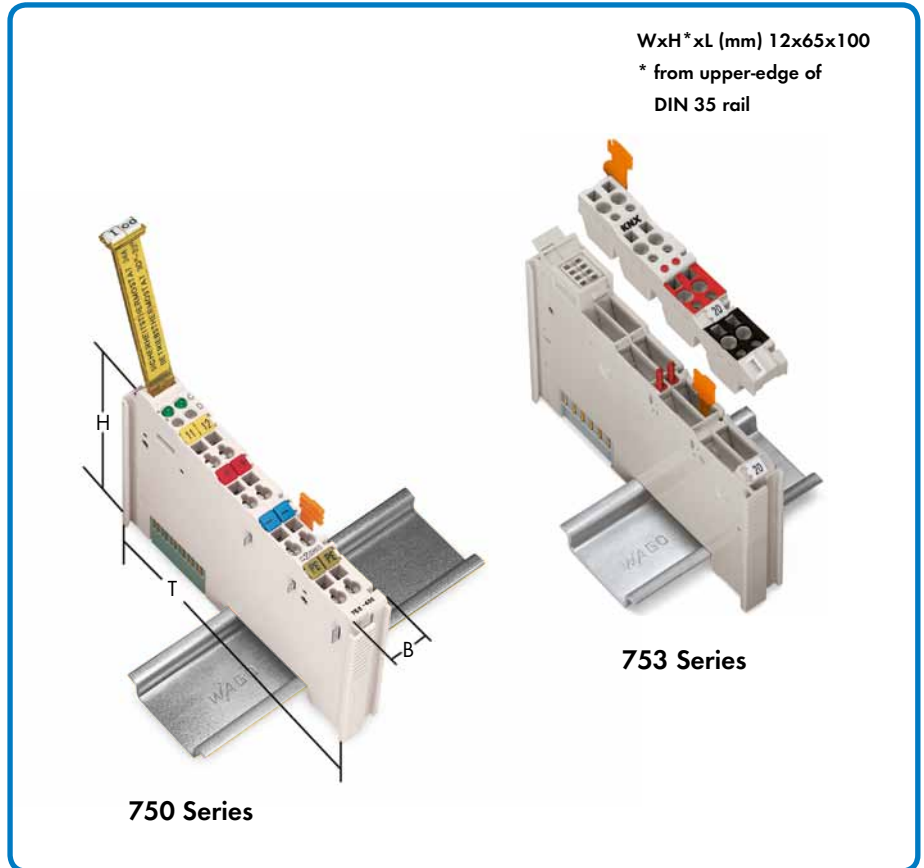


Secure connection with dovetails

Exchange within the assembly



Quick, tool-free exchange of I/O module with assembled node



Locking the fieldbus coupler



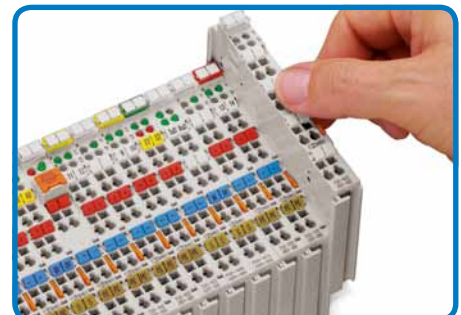
1 locking 2 releasing

Accessing programming interface



Accessing the programming interface. Programming a fieldbus controller via WAGO-I/O-CHECK or WAGO-I/O-PRO CAA.

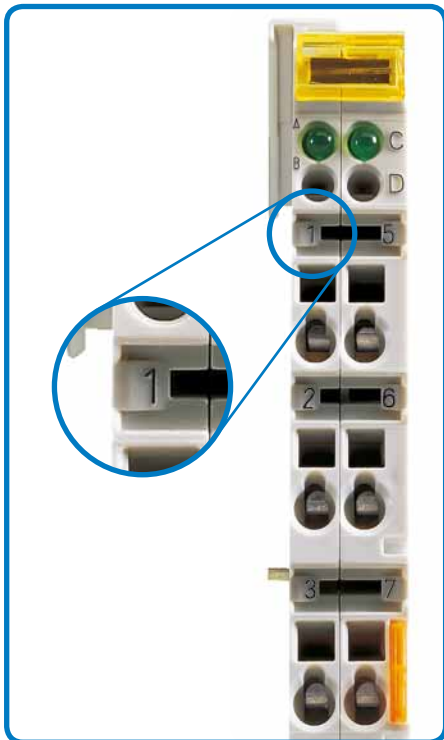
End module required



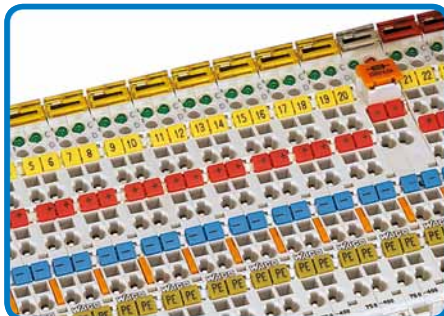
The end module physically terminates the fieldbus node and guarantees safe data transmission.

Strip length, see packaging or instructions.

Color-coded for simplicity



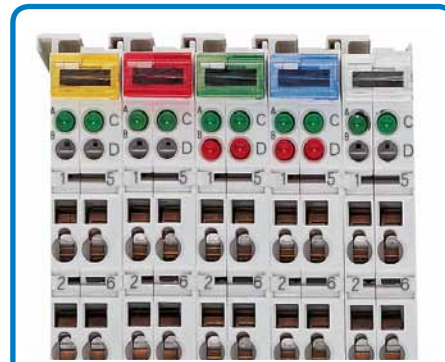
Printed clamping unit marking



Marking clamping units via colored miniature WSB markers.



Pullout group marker carrier with large area for self-marking



- yellow – Digital Inputs (DI)
- red – Digital Outputs (DO)
- Green – Analog Inputs (AI)
- blue – Analog Outputs (AO)
- Clear – Supply and
Specialty Modules

Transparent group marker carriers for color indication of module type

CAGE CLAMP® connection



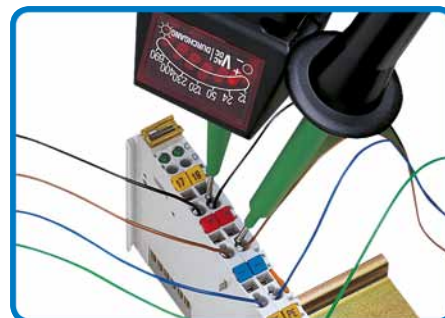
Vibration-proof, fast and maintenance-free connection for conductors rated 0.08 mm² to 2.5 mm² (AWG 28-14)

Status indication



LED diagnostic and status indications for safe startup and system control.

Testing



Signal tracing with wired conductors

Fuse holder



Function at locked position 1: Power output to I/O group is off.



Function at locked position 2: Easy fuse replacement via hinged cover. Use UL-recognized fuses only!

Pluggable connections



753 Series
See Full Line Catalog, Volume 3, AUTOMATION or go to: www.wago.com.

ECO Couplers, Fieldbus Couplers, PLC – Programmable Fieldbus Controllers 750 Series

<p>ECO Fieldbus Couplers* for digital and analog signals 0.08 - 1.5 mm² / AWG 28 - 16 Voltage supply: 24 V (-15 % ... +20 %) Width: 50 mm 5 - 6 mm / 0.24 in</p>	<p>Fieldbus Couplers* for digital and analog signals 0.08 - 2.5 mm² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 51 mm 8 - 9 mm / 0.33 in</p>	<p>PLC – Programmable Fieldbus Controllers* for digital and analog signals 0.08 - 2.5 mm² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 51 mm 62 mm 1 8 - 9 mm / 0.33 in</p>
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Designation	Baud Rate	Item No.	Designation	Baud Rate	Item No.	Designation	Baud Rate	Item No.
PROFIBUS DP ECO	12 Mbaud	750-343	PROFINET IO	100 Mbit/s	750-340	PROFIBUS DP/V1	12 Mbaud	750-833
INTERBUS ECO	500 kbaud	750-344	PROFINET IO	100 Mbit/s	750-370	ETHERNET TCP/IP	10/100 Mbit/s	750-871
INTERBUS ECO	2 Mbaud	750-345	2 ports			ETHERNET TCP/IP	10/100 Mbit/s	750-873
DeviceNet ECO	500 kbaud	750-346	PROFIBUS DP/FMS	12 Mbaud	750-303	RS-232		
CANopen ECO MCS	10 kBd - 1 MBd	750-347	PROFIBUS DP/V1	12 Mbaud	750-333	ETHERNET TCP/IP	10/100 Mbit/s	750-841
CANopen ECO	10 kBd - 1 MBd	750-348	PROFIBUS	1.5 Mbaud	750-331	ETHERNET TCP/IP	10 Mbit/s	750-842
ETHERNET TCP/IP ECO			with fiber-optic connection			ETHERNET TCP/IP	10 Mbit/s	750-843
100 MBit/s	750-352/020-000		ETHERNET TCP/IP	100 Mbit/s	750-341	ETHERNET	10/100 Mbit/s	750-880 1
			ETHERNET TCP/IP	10 Mbit/s	750-342	2 ports		
			ETHERNET TCP/IP	10/100 Mbit/s	750-352	ETHERNET	10/100 Mbit/s	750-881 1
			EtherCAT®	100 Mbit/s	750-354	2 ports		
			SERCOS III	100 Mbit/s	750-351	ETHERNET MR	10/100 Mbit/s	750-882
			2 ports			DeviceNet	500 kbaud	750-806
			DeviceNet	500 kbaud	750-306	CANopen	10 kBd - 1 MBd	750-837
			CANopen	10 kBd - 1 MBd	750-307	MCS		
			CANopen	10 kBd - 1 MBd	750-337	CANopen	10 kBd - 1 MBd	750-838
			CANopen	10 kBd - 1 MBd	750-338	D-Sub		
			CAN CAL	10 kBd - 1 MBd	750-305	MODBUS RS-485	150-19200 Bd	750-812
			MODBUS RS-485	150-19200 Bd	750-312	MODBUS RS-232	150-19200 Bd	750-814
			MODBUS RS-232	150-19200 Bd	750-314	MODBUS RS-485	1.2-115.2 kBd	750-815
			MODBUS RS-485	1.2-115.2 kBd	750-315	MODBUS RS-232	1.2-115.2 kBd	750-816
			MODBUS RS-232	1.2-115.2 kBd	750-316	INTERBUS	500 kbaud	750-804
			INTERBUS	500 kbaud	750-304	IEC 60870-5	10/100 Mbit/s	750-872
			INTERBUS	500 kbaud	750-334	for telecontrol technology		
			with fiber-optic connection			KNX	10/100 Mbit/s	750-849
			CC-Link	156 kBd - 10 MBd	750-310	BACnet	10/100 Mbit/s	750-830
			II/O-LIGHTBUS	2.5 Mbaud	750-300	LonWorks®	78 kbps	750-819
			Digital and analog signals			Linux®	10/100 Mbit/s	750-860
			II/O-LIGHTBUS	2.5 Mbaud	750-320	Linux®	10/100 Mbit/s	750-863
			Digital signals			RS-232		
			LonWorks®	78 kbps	750-319			
			LON Data Exchange Coupler	78 kbps	750-319/004-000			
			(Peer-to-Peer)					
				ATEX/IEC Ex approval				

*You can find approvals and technical data in our Full Line Catalog, Volume 3, AUTOMATION, or at www.wago.com.




Industrial PC 758 Series

Industrial PC*	Industrial PC*	Accessories
0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Dimensions: 172 x 65 x 100 mm	0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Dimensions: 236 x 70 x 100 mm	



















































Designation	Item No.	Designation	Item No.	Designation	Item No.
Industrial PC		Industrial PC		Fieldbus connector,	
Interfaces:	RS-232, 2 x LAN, 2 x USB, DVI	Interfaces:	RS-232, 2 x LAN, 2 x USB, DVI	fast and maintenance-free CAGE CLAMP® connection	
CPU:	Geode® SC1200, 266 MHz	CPU:	Celeron®M, 600 MHz		
PLC-I/O-IPC-G2 Linux® 2.6	758-870/000-110	PLC-I/O-IPC-C6 Linux® 2.6	758-874/000-110	PROFIBUS	750-960
CoDeSys Visu		CoDeSys Visu		with D-sub male connector, 9-pole	
PLC-I/O-IPC-G2 Linux® 2.6	758-870/000-111	PLC-I/O-IPC-C6 Linux® 2.6	758-874/000-111	PROFIBUS	750-971
CoDeSys Visu, PROFIBUS DP Master		CoDeSys Visu, PROFIBUS DP Master		with D-sub male connector, 9-pole, suitable for S7-PLC	
PLC-I/O-IPC-G2 Linux® 2.6	758-870/000-112	PLC-I/O-IPC-C6 Linux® 2.6	758-874/000-112	PROFIBUS	750-972
CoDeSys Visu, CANopen Master		CoDeSys Visu, CANopen Master		with D-sub male and female connectors, 9-pole	
		PLC-I/O-IPC-C6 Linux® 2.6	758-874/000-130	ETHERNET	750-975
		CoDeSys Visu, telecontrol technology		RJ-45 IP20 connector	
		PLC-I/O-IPC-C6 Linux® 2.6	758-874/000-131	PROFINET	750-976
		CoDeSys Visu, telecontrol technology, PROFIBUS DP		RJ-45 IP20 connector	
		Master		CANopen	750-963
				with D-sub female connector, 9-pole	
				INTERBUS (IN)	750-961
				with D-sub female connector, 9-pole	
		CPU:	Celeron®M, 1 GHz	INTERBUS (OUT)	750-962
		PLC-I/O-IPC-C10 E Linux® 2.6	758-875/000-110	with D-sub male connector, 9-pole	
		CoDeSys Visu		CC-Link	750-965
		PLC-I/O-IPC-C10 E Linux® 2.6	758-875/000-111	with D-sub male connector, 9-pole	
		CoDeSys Visu, PROFIBUS DP Master			
		PLC-I/O-IPC-C10 E Linux® 2.6	758-875/000-112		
		CoDeSys Visu, CANopen Master		Software	
		PLC-I/O-IPC-C10 E Linux® 2.6	758-875/000-130	WAGO-I/O-CHECK	759-302
		CoDeSys Visu, telecontrol technology		Commissioning tool for the WAGO-I/O-SYSTEM 750	
		PLC-I/O-IPC-C10 E Linux® 2.6	758-875/000-131	WAGO-I/O-PRO	759-333
		CoDeSys Visu, telecontrol technology, PROFIBUS DP		IEC 61131-3 programming tool	
		Master		WAGO-OPC-Server	759-311
				MODBUS/TCP	
				WAGO-DLL	759-312
		CPU:	Pentium®M, 1.4 GHz	MODBUS/TCP	
		PLC-I/O-IPC-P14 Linux® 2.6	758-876/000-110		
		CoDeSys Visu			
		PLC-I/O-IPC-P14 Linux® 2.6	758-876/000-111	Accessories	
		CoDeSys Visu, PROFIBUS DP Master		WAGO RS-232 Communication Cable	750-920
		PLC-I/O-IPC-P14 Linux® 2.6	758-876/000-112	Connection between PC and coupler/controller	
		CoDeSys Visu, CANopen Master		WAGO Radio Adapter	750-921
				Radio connection between PC and coupler/controller	
				WAGO USB Communication Cable	750-923
				Connection between PC and coupler/controller	
				Bluetooth® ETHERNET Gateway	758-915
				More accessories in the Full Line Catalog, Volume 3,	
				AUTOMATION	

Digital Inputs and Digital Outputs 750 and 753 Series

Digital Input Modules (DI)* 0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 12 mm 24 mm  8 - 9 mm / 0.33 in	Digital Input Modules (DI)* 0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 12 mm 24 mm  8 - 9 mm / 0.33 in	Digital Output Modules (DO)* 0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 12 mm 24 mm  8 - 9 mm / 0.33 in
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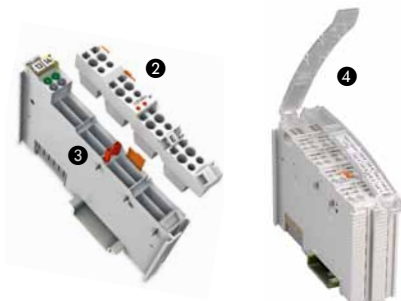


Designation	Baud Rate	Item No.	Designation	Baud Rate	Item No.	Designation	Baud Rate	Item No.
2-Channel DI	24VDC, HS switch., 3ms	750-400 	4-Channel DI	24V AC/DC, 20ms	750-415 	1-Channel DO	230VAC, 16A	750-523
	24VDC, HS switch., 0.2ms	750-401 		24V AC/DC, 50ms	750-423 	2-Channel DO	24VDC, HS switch., 0.5A	750-501 
	24VDC, HS switch., 3ms	750-410 		Power jumper contacts			24VDC, HS switch., 2A	750-502 
	Proximity switch			42V AC/DC	750-428 		24VDC, HS switch., 0.5A	750-506 
	24VDC, HS switch., 0.2ms	750-411 		120(230)VAC, HS switching	753-440 		Diagnostics	
	Proximity switch			10ms			24VDC, HS switch., 2A	750-508 
	24VDC, HS switch., 3ms	750-418 	8-Channel DI	5-14VDC, HS switching	753-434 		Diagnostics	
	Diagnostics/acknowledgment			0.2ms			230V AC/DC	750-509 
	24VDC, HS switch., 3ms	750-421 		24VDC, HS switch., 3ms	750-430 		SSR 0.3A	
	Diagnostics			24VDC, HS switch., 0.2ms	750-431 		230V AC/DC	750-522 
	24VDC, NAMUR	750-425 		24VDC, HS switch., 3ms	750-436 		SSR 3.0A (< 30s)	
	Proximity switch to DIN EN 50227			24VDC, HS switch., 0.2ms	750-437 		125VAC, 0.5A	750-514 
	24VDC	750-424 		24VDC, HS switch., 3ms	750-437 		2 changeover contacts, isolated outputs	
	Intruder detection			24VDC, HS switch., 0.2ms	750-437 		250VAC, 1.0A	750-517 
	48VDC, HS switch., 3ms	750-412 		24VDC, HS switch., 3ms	750-1415		2 changeover contacts, isolated outputs	
	60VDC, HS switch., 3ms	753-429		24VDC, HS switch., 0.2ms	750-1416		2 make contacts, non-floating	
	110VDC	750-427 		24VDC, HS switch., 3ms	750-1417		250VAC, 2.0A	750-512 
	HS or LS switching			24VDC, HS switch., 0.2ms	750-1418		250VAC, 2.0A	750-513 
	120VAC, HS switching	750-406 					2 make contacts, isolated outputs	
	2- to 4-conductor connection						2 make contacts, isolated outputs	
	230VAC, HS switching	750-405 					250VAC, 2.0A	750-513 
							2 make contacts, isolated outputs	
4-Channel DI	5VDC, HS switch., 0.2ms	750-414 	8-Channel DI/DO	24VDC, HS switch., 3ms	750-1502	8-Channel DO	5VDC, HS switch., 20mA	750-519 
	24VDC, HS switch., 3ms	750-402 		Ribbon cable			24VDC, HS switch., 0.5A	750-504 
	24VDC, HS switch., 0.2ms	750-403 		24VDC, HS switch., 3ms	750-1506		24VDC, HS switch., 0.5A	750-531 
	24VDC, HS switch., 3ms	750-432 	16-Channel DI	24VDC, HS switch., 3ms	750-1400		24VDC, LS switch., 0.5A	750-516 
	2-conductor			Ribbon cable			24VDC, HS switch., 0.5A	750-532 
	24VDC, HS switch., 0.2ms	750-433 		24VDC, HS switch., 3ms	750-1405		Diagnostics	
	2-conductor			24VDC, HS switch., 3ms	750-1402		24VDC, HS switch., 0.5A	753-1515
	24VDC, HS switching	750-422 		Ribbon cable			24VDC, LS switch., 0.5A	753-1516
	Pulse extension			24VDC, HS switch., 3ms	750-1407		120/230VAC, HS switch.	753-540 
	24VDC, 3ms, HS switch.	750-408 		24VDC, HS switch., 0.2ms	750-1406		0.25A, 120-230VAC	
	24VDC, HS switch., 0.2ms	750-409 					24VDC, HS switch., 3ms	750-1502
	24VDC, HS switch., 3ms	750-1420					Ribbon cable	
	24VDC, HS switch., 0.2ms	750-1421					24VDC, HS switch., 3ms	750-1506
	24VDC, HS switch., 3ms	750-1422					16-Channel DO	24VDC, HS switch., 0.5A
	24VDC, HS switch., 0.2ms	750-1423					Ribbon cable	750-1500
							24VDC, HS switch., 0.5A	750-1504
							24VDC, LS switch., 0.5A	750-1501
							Ribbon cable	
							24VDC, LS switch., 0.5A	750-1505

*You can find approvals and technical data in our Full Line Catalog, Volume 3, AUTOMATION, or at www.wago.com.
 HS switch. = high-side switching LS switch. = low-side switching

Analogue Inputs and Analogue Outputs 750 and 753 Series

Analogue Input Modules (AI)*	Analogue Output Modules (AO)*	Accessories
0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15% ... +20%) Width: 12 mm 24 mm 8 - 9 mm / 0.33 in	0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15% ... +20%) Width: 12 mm 8 - 9 mm / 0.33 in	



Designation	Item No.	Designation	Item No.	Designation	Item No.	
1-Channel AI	DMS** 750-491	2-Channel AO	0-20mA 750-552 ① 4-20mA 750-554 ① 0-10V 750-550 ① 0-10V 750-560 10 bits, 100mW, 24V ± 10V 750-556 ① 10 bits, 100mW, 24V 0/4-20mA, 6-18VDC, 16 bits 750-563 0-10V, -10 ... +10VDC, 16 bits 750-562	753 Series pluggable connector ②		
2-channel AI	Differential inputs 0-20mA 750-452 ① 4-20mA 750-454 ① 0-1A AC/DC 750-475 ① 0-10V AC/DC 750-477 ① ±10VDC 750-456 ①	4-Channel AO	0-20mA 750-553 ① 4-20mA 750-555 ① 0-10V 750-559 ① ± 10V 750-557 ①	light gray 753-110		
2-channel AI	Single-ended 0-20mA 750-465 ① 0-20mA, short-circuit protected 750-470 ① 0-20mA, 16 bits 750-472 ① 4-20mA 750-466 ① 4-20mA, short-circuit protected 750-473 ① 4-20mA, 16 bits 750-474 ① 4-20mA, 16 bits, HART 750-482 ① 0-10VDC 750-467 ① 0-10VDC, 16 bits 750-478 ① ±10VDC, 16 bits 750-476 ①			753 Series pluggable connector ②		
2-channel AI	Differential measurement input 0-20mA 750-480 ① 4-20mA 750-492 ① ±10VDC 750-479 ① 0-30VDC 750-483 ①			yellow 753-120		
2-channel AI	Pt100/RTD 750-461 ①			753 Series coding elements ③		
2-channel AI	Thermocouple K/Diagnostics 750-469 ①			red 753-150		
2/4-Channel AI	RTD 750-464			750/753 Series marker carrier ④		
4-Channel AI	Single-ended 0-20mA, 750-453 ① 4-20mA 750-455 ① 0-10VDC 750-468 ① 0-10VDC 750-459 ① ±10VDC 750-457 ①			transparent 750-103		
4-Channel AI	Pt100/RTD 750-460			Markers, for group marker carrier		
3-Phase Power Measurement Module	750-493			white 750-100		
				Miniature WSB Quick marking system, plain		
				white 248-501		
				yellow 248-501/000-002		
				red 248-501/000-005		
				blue 248-501/000-006		
				gray 248-501/000-007		
				orange 248-501/000-012		
				light green 248-501/000-017		
				Green 248-501/000-023		
				violet 248-501/000-024		
				Interface module for system wiring, relay output module with miniature switching relay, flat cable connector to DIN 41651		
				16 channels/20-pole 704-5024		
				16 channels/20-pole 704-5044		
				16 channels/20-pole 704-5004		
				16 channels/20-pole 704-5014		
				16 channels/20-pole 704-5034		
				16 channels/20-pole 704-5054		
				16 channels/20-pole 704-5074		
				16 channels/20-pole 704-5064		
				8 channels/10-pole 704-5003		
				8 channels/10-pole 704-5013		
				WAGO ribbon cable, connects I/O modules to interface modules		
				20/20 706-3057/300-100		
				20/2x10 706-7753/302-000		




① also available with 753 Series pluggable connector.
**DMS = strain gauges

HS switch. = high-side switching





LS switch. = low-side switching



Specialty Modules and System Modules 750 and 753 Series



Specialty Modules*	Specialty Modules*	System Modules*
0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 12 mm 24 mm 48 mm  8 - 9 mm / 0.33 in	0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 12 mm 24 mm 48 mm  8 - 9 mm / 0.33 in	0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 12 mm 24 mm  8 - 9 mm / 0.33 in



Designation	Item No.	Designation	Item No.	Designation	Item No.
Up/Down Counter 24VDC, 100kHz	750-404  ①	Stepper Controller RS-422, 24V, 20mA	750-670 	End Module for internal data bus extension	750-627
2-Channel Up/Down Counter 24VDC, 500Hz	750-638  ①	Stepper Controller 24VDC/1.5A	750-671 	Coupler Module for internal data bus extension	750-628
2-Channel Pulse Width Output Module 24VDC, 0.1A	750-511 	Stepper Controller 70V/7.5A, 6 IN, 2 OUT	750-672	Supply Modules 24VDC, without fuse	750-602
SSI Transmitter Interface 24 bits, 125kHz, gray	750-630 	Servo Stepper Controller 70V/7.5A, 6 IN, 2 OUT	750-673	Supply Modules 24VDC, with fuse carrier	750-601
Incremental Encoder Interface 16-bit counter	750-631/000-004 			Supply Modules 24VDC, with fuse carrier, diagnostics	750-610
Incremental Encoder Interface 32-bit counter, RS-422 interface	750-637 	DC Drive Controller 24VDC/5A	750-636	Supply Modules 24V, 5-15V DC	750-623
				Supply Modules 24VDC, passive	750-613
Digital Impulse Interface for magnetostrictive distance measurement sensors	750-635  ①			Supply Modules 120VAC, with fuse carrier	750-615
				Supply Modules 0-230V AC/DC, without fuse	750-612
RS-232 C Serial Interface 1200-19200 baud	750-650  ①			Supply Modules 230VAC, with fuse carrier	750-609
RS-485 Serial Interface 1200-19200 baud	750-653  ①			Supply Modules 230VAC, with fuse carrier, diagnostics	750-611
RS-232/RS-485 Serial Interface 300-115200 baud, configurable	750-652			Filter Module for field-side power supply	750-624
TTY Interface 20mA Current loop	750-651 			Filter Module for system and field-side power supply	750-626
				Field Side Connection Module	750-604 ①
Data Exchange Module 62500 baud	750-654			Field Side Connection Module	750-603 ①
DALI/DSI Master Module	750-641 			Field Side Connection Module	750-1605 ①
Radio Receiver Module EnOcean	750-642 			Field Side Connection Module	750-1606 ①
Bluetooth®/RF Transceiver	750-644			Field Side Connection Module	750-1607 ①
MP-Bus Master Module	750-643 			Field Side Connection Module	750-614 ①
KNX/EIB/TP1 Module	750-646			Separation Module	750-616
RTC Module Real-time clock	750-640 			Separation Module with power jumper contacts	750-621
AS-Interface Master Module	750-655  ①			Binary Spacer Module with supply module	750-622
4-Channel IO-Link Master	750-657			End module	750-600
Vibration Monitoring 2-channel vibration velocity/bearing condition monitoring Tandem-Piezo acceleration sensor	750-645 750-925	 ATEX/IEC Ex approval			

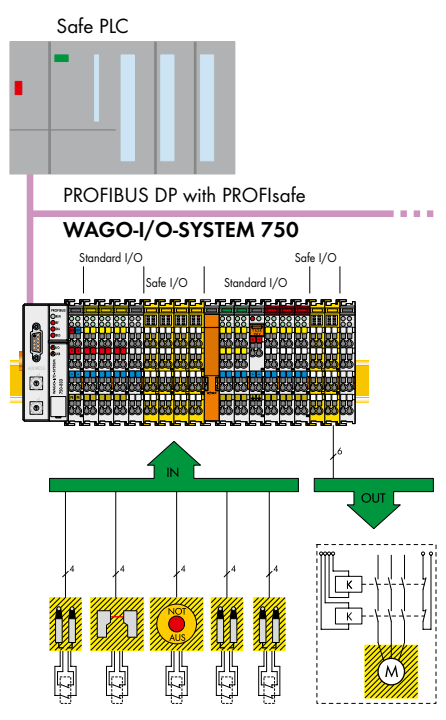
① also available with 753 Series pluggable connector. For accessories, see page 147. For technical explanations and abbreviations, see technical section.

PROFIsafe Modules and Ex i Intrinsically Safe Modules 750 and 753 Series

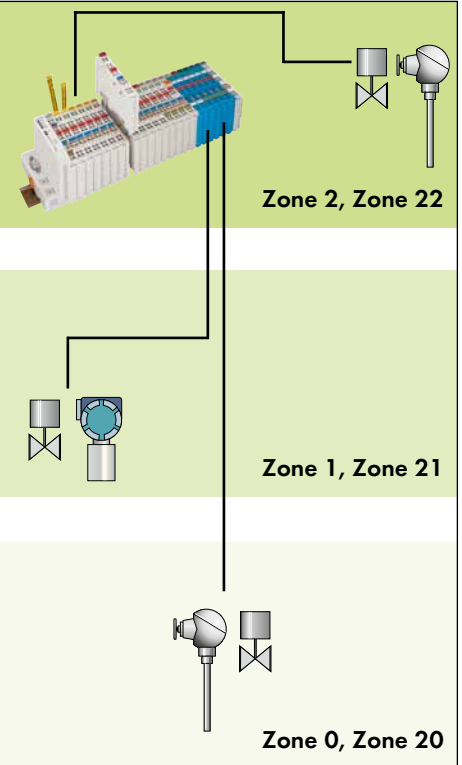
PROFIsafe Modules* 0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 12 mm 24 mm  8 - 9 mm / 0.33 in	Ex i Intrinsically Safe Modules* 0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 12 mm 24 mm  8 - 9 mm / 0.33 in
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Designation	Item No.	Designation	Item No.
4-Channel Input Module	750-661/000-003 ①	1-Channel Digital Input	750-435
4 inputs, PROFIsafe V2 iPar		NAMUR Ex i	
8-Channel Input Module	750-662/000-003 ①	2-Channel Digital Input	750-438
8 inputs, PROFIsafe V2 iPar		NAMUR Ex i	
4/4-Channel Input/Output Module	750-667/000-002	2-Channel Digital Output	750-535
①		24VDC, Ex i	
4 inputs and 4 outputs, cat. 4/SIL 3, PROFIsafe 2.0		2-Channel Analog Input	750-485
8-Channel Input Module	750-660/000-001	Single-ended, 4-20mA, Ex i	
8 inputs, cat. 4/SIL 3, PROFIsafe 1.3		2-Channel Analog Input	750-484
4-Channel Input/Output Module	750-665/000-001	Single-ended, 4-20mA, HART, Ex i	
4 inputs and 4 outputs, cat. 4/SIL 3, PROFIsafe 1.3		2-Channel Analog Input	750-481/003-000
4/2-Channel Input/Output Module	750-666/000-003	RTD Ex i	
①		2-Channel Analog Input	750-487/003-000
4 inputs and 2 outputs (10A), PROFIsafe V2 iPar		for thermocouples, Ex i	
		2-Channel Analog Output	750-585
		0-20mA, Ex i	
		Supply Modules	750-625/000-001
		24VDC, 1A, without diagnostics, Ex i	
		Supply Modules	750-606
		24VDC, 1A, Ex i	
		Up/Down Counter	750-633



WAGO PROFIsafe modules can be used in safety applications up to CAT. 4 in accordance with EN 954-1 or SIL 3 according to base standard IEC 61508 and AK 6 (DIN V 19250). Status, configuration and diagnostics are available in every module.



The WAGO-I/O-SYSTEM 750 is approved for use in Zone 2 hazardous areas. The system also provides direct connection to the sensors/actuators of Zones 0 and 1.

* All technical data and approvals are available in our Full Line Catalog, Volume 3, AUTOMATION, or online at www.wago.com.



WAGO SPEEDWAY 767

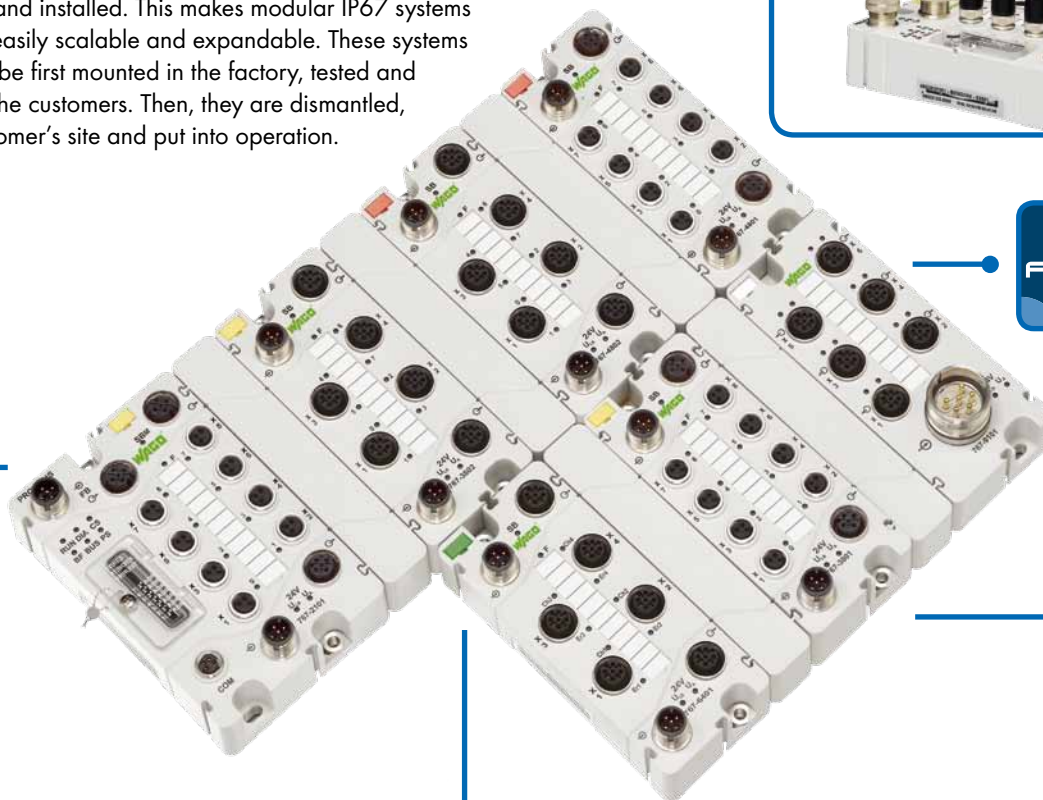
The New Performance Standard for Cabinet-Free Automation

The move from parallel wiring toward fieldbus technology has revolutionized control and installation technology over the past decade. In the following years, even greater efficiency has been achieved for project engineering, assembly, commissioning and system operation through decentralized, IP67-protected and robust fieldbus components. Now, cabinet-free automation has established itself as an industrial standard.

In addition to requiring a high degree of protection, a robust design and standardized connection technology, there is an increasing demand for highly functional IP67 features that were once only reserved for IP20 systems:

- Speed, synchrony
- Configurable via FDT/DTM
- Programmable to IEC 61131-3
- Diagnostic capable

Typically, machines and systems must be tailored to suit individual requirements while meeting tight customer deadlines. Customer requirements must be incorporated easily and rapidly and then the system must be designed and installed. This makes modular IP67 systems ideal, as they are easily scalable and expandable. These systems allow machines to be first mounted in the factory, tested and then accepted by the customers. Then, they are dismantled, re-installed on customer's site and put into operation.



- Modular design
- High-performance data transfer
- Programmable via CoDeSys 3 (IEC 61131-3)
- FDT/DTM configuration
- Asynchronous and synchronous diagnostics
- Fieldbus-independent
- USB interface
- Comprehensive safety features
- Excellent EMC protection
- Efficient power supply solution
- Temp. from -25°C to +60°C
- IP67 degree of protection, fully encapsulated
- Screw and DIN-rail mount options
- Ergonomic design

CoDeSys Automation Alliance

Couplers, Programmable Couplers





CANopen

- I/O Modules**
- Digital Input Modules**
8 inputs 24 VDC
- Digital Output Modules**
8 outputs 24 VDC, 0.5 A
8 outputs 24 VDC, 2.0 A
- Analog Input Modules**
4 inputs U/I, RTD, TC
- Analog Output Modules**
4 inputs U/I
- Specialty Modules**
Power divider

Fieldbus Couplers, Programmable Fieldbus Couplers Input and Output Modules, 767 Series Sensor/Actuator Boxes, 757 Series

767 Series Fieldbus Couplers* IP67 protection class Operating voltage: 24 VDC (-25% to +30%) Dimensions (W x H x L) 75 x 35.7 x 117 mm	767 Series I/O Modules* IP67 protection class Operating voltage: 24 VDC (-25% to +30%) Dimensions (W x H x L) 50 x 35.7 x 117 mm	767 Series Modules* IP67 protection class Operating voltage: 10 - 30 VDC Dimensions (W x H x L) M12: 60 x 117/123/152 x 26 mm M 8: 30 x 117/123/152/175 x 20 mm
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Designation	Item No.	Designation	Item No.	Designation	Item No.
Fieldbus Coupler		Digital Input Module, 24 VDC		M12 Sensor/Actuator Box with M23 Connector	
PROFINET IO	767-1201	8 inputs (8 x M8)	767-3801	4-pole, 4-port	757-144
PROFIBUS DP/ V1	767-1101	8 inputs (4 x M12, two inputs per connector)	767-3802	4-pole, 6-port	757-164
ETHERNET	767-1301	8 Inputs (8 x M8, LS*)	767-3803	4-pole, 8-port	757-184
DeviceNet	767-1401	8 Inputs (4 x M12, two inputs per connector, LS*)	767-3804	5-pole, 4-port	757-145
CANopen	767-1501	8 inputs (8 x M12)	767-3805	5-pole, 6-port	757-165
		Digital Output Module, 24 VDC, 0.5 A		5-pole, 8-port	757-185
		8 outputs (8 x M8)	767-4801	5-pole, 8-port, without LED	757-185/100-000
		8 outputs (4 x M12, two outputs per connector)	767-4802		
Programmable Fieldbus Coupler		8 outputs (8 x M8, LS*)	767-4805	M12 Sensor/Actuator Box with 5m Connecting Cable	
PROFIBUS DP/ V1	767-2101	8 outputs (4 x M12, two outputs per connector, LS*)	767-4806	4-pole, 4-port	757-244/000-005
ETHERNET	767-2301	8 outputs (8 x M12)	767-4807	4-pole, 6-port	757-264/000-005
CANopen	767-2501			4-pole, 8-port	757-284/000-005
		Digital Output Module, 24 VDC, 2 A		5-pole, 4-port	757-245/000-005
		8 outputs (8 x M8)	767-4803	5-pole, 6-port	757-265/000-005
		8 outputs (4 x M12, two outputs per connector)	767-4804	5-pole, 8-port	757-285/000-005
		Digital Input/Output Module, 24 VDC, 0.5 A			
		8 inputs/outputs (8 x M8)	767-5801	M8 Sensor/Actuator Box with M16 Connector	
		8 inputs/outputs (4 x M12, two outputs per conn.)	767-5802	3-pole, 4-port	757-343
		8 inputs/outputs (8 x M12)	767-5803	3-pole, 6-port	757-363
		Analog Input Module		3-pole, 8-port	757-383
		Voltage/current (4 x M12)	767-6401	3-pole, 10-port	757-303
		Resistance temperature device (4 x M12)	767-6402		
		Thermocouple (TC) (4 x M12)	767-6403	M8 Sensor/Actuator Box with 5m Connecting Cable	
		Analog Output Module		3-pole, 4-port	757-443/000-005
		Voltage/current (4 x M12)	767-7401	3-pole, 6-port	757-463/000-005
		Power Divider, 24 VDC		3-pole, 8-port	757-483/000-005
		6 outputs (6 x M12)	767-9101	3-pole, 10-port	757-403/000-005
		Serial interface (RS-232, RS-422/-485)	767-5203		
Accessories, 767 Series		LS* = low-side switching		Accessories, 757 Series	
Spacer module, with fixing lugs for cable ties		System bus cable, fitted on both ends, straight,		Spacer module for sensor/actuator box	
	767-111	suitable for drag chains		4-port	757-040
		0.3 m	756-1505/060-003	6-port	757-060
		0.5 m	756-1505/060-005	8-port	757-080
		1 m	756-1505/060-010	10-port	757-000
		2 m	756-1505/060-020		
Protective caps, for unused sockets		Supply cable, fitted on both ends, straight		Marker strips for M8 sensor/actuator box	
	M8 756-8101	0.2 m	756-3105/040-002	4-port	757-041
	M12 756-8102	0.3 m	756-3105/040-003	6-port	757-061
	1 piece per packing unit	0.5 m	756-3105/040-005	8-port	757-081
		1 m	756-3105/040-010	10-port	757-001
		2 m	756-3105/040-020		
Protective caps, for unused plugs		USB communication cable			
	M12 755-809	3 m	756-4101/042-030		
	M23 755-837				
	1 piece per packing unit				
Carrier rail adapter		Profile adapter			
	for couplers 767-121	for couplers	767-123		
	for I/O modules 767-122	for I/O modules	767-124		
					For more accessories, see Full Line Catalog, Volume 3, AUTOMATION.

* All technical data and approvals are available in our Full Line Catalog, Volume 3, AUTOMATION, or online at www.wago.com.

3 **PERSPECTO® – Monitors and Panels**

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Perfect Integration into the WAGO-I/O-SYSTEM

PERSPECTO® is WAGO's comprehensive monitor and panel system for operating and monitoring process data for machines, systems and control technology.

PERSPECTO® is optimized

The WAGO-I/O-SYSTEM and **PERSPECTO®** are ideally suited to one another. Both system components guarantee smooth, trouble-free communication with a controller or the system's IPC.

PERSPECTO® is fast

Enhanced runtime systems and programs provide consistently high performance.

PERSPECTO® is flexible

Available for a variety of sizes as a Web, visualization or automation panel model, **PERSPECTO®**

provides solutions to suit any customer need.

PERSPECTO® is adaptable

Customer-driven designs, complete with reconfigurable displays, enable **PERSPECTO®** units to be seamlessly integrated into virtually any application.

PERSPECTO® TM, Touch Monitor

The Touch Monitors directly connect to DVI-D and USB interfaces. They are an ideal addition to the WAGO I/O-IPC. The content shown is processed and saved on the connected IPC.

PERSPECTO® WP, Web Panel

Specifically configured as a Web browser, the Web Panel directly connects to controllers with their own Web servers. The CoDeSys 2.3 Web visualization has been specially optimized for the Web Panel.

PLC – PERSPECTO® CP TV, Control Panel

The control panel features CoDeSys runtime with target visualization, making it a full-fledged automation device. It provides configurable functions for operation and monitoring, and can independently process control tasks.

Clearly in View & Clearly in Control

Clear Benefits:

- Compatible with the WAGO-I/O-SYSTEM
- Expert support
- Short boot time
- High computing power
- Outstanding energy efficiency
- Monitor sizes from 3.5" to 15"
- Flat design
- Multiple interfaces
- Optional IEC-61131-compatible control functionality

The WAGO software package for creating visualization and control applications



PERSPECTO® Monitors and Panels 762 Series

PERSPECTO® TM Touch Monitor Touch screen: analog, resistive Power supply: 24 VDC (18 – 30 V) Protection class: IP65 (front side), IP20 (rear side)	PERSPECTO® WP Web Panel Touch screen: analog, resistive Operating system: Windows CE Power supply: 24 VDC (18 – 30 V) Protection class: IP65 (front side), IP20 (rear side)	PLC – PERSPECTO® CP with Target Visu (TV) Control Panel Touch screen: analog, resistive Operating system: Windows CE Power supply: 24 VDC (18 – 30 V) Protection class: IP65 (front side), IP20 (rear side)
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Description	Item No.	Pack. Unit	Description	Item No.	Pack. Unit	Description	Item No.	Pack. Unit
			WP 35 QVGA	762-1035	1	CP 35 QVGA TV	762-3035/000-001	1
			Screen size (diagonal)	8.9 cm (3.5")		Screen size (diagonal)	8.9 cm (3.5")	
			Resolution/Color	320 x 240 / 32k		RAM / Flash / SRAM	64 MB / 64 MB / 1 MB	
			RAM / Flash / SRAM	64 MB / 64 MB / 1 MB		Memory expansion	MicroSD (max. 2 GB)	
			Memory expansion	MicroSD card		Interfaces	USB 2.0, ETHERNET, CAN, RS-485	
			Interfaces	USB 2.0, ETHERNET		Panel cutout (W x H)	91 x 91 mm	
			Panel cutout (W x H)	91 x 91 mm				
			WP 57 QVGA	762-1057	1	CP 57 QVGA TV	762-3057/000-001	1
			Screen size (diagonal)	14.5 cm (5.7")		Screen size (diagonal)	14.5 cm (5.7")	
			Resolution/Color	320 x 240 / 4k		RAM / Flash / SRAM	64 MB / 64 MB / 1 MB	
			RAM / Flash / SRAM	64 MB / 64 MB / 1 MB		Memory expansion	SD card (max. 2 GB)	
			Memory expansion	SD card		Interfaces	2 x USB 2.0, ETHERNET, CAN, RS-232, RS-485	
			Interfaces	2 x USB 2.0, ETHERNET		Panel cutout (W x H)	198 x 140 mm	
			Panel cutout (W x H)	198 x 140 mm				
TM 104 VGA	762-104	1	WP 104 VGA	762-1104	1	CP 104 VGA TV	762-3104/000-001	1
Screen size (diagonal)	26.4 cm (10.4")		Screen size (diagonal)	26.4 cm (10.4")		Screen size (diagonal)	26.4 cm (10.4")	
Display colors	65536 colors		Resolution/Color	640 x 480 / 65k		RAM / Flash / SRAM	64 MB / 32 MB / 1 MB	
Graphics resolution	640 x 480 pixels		RAM / Flash / SRAM	64 MB / 32 MB / 1 MB		Memory expansion	CF card (max. 2 GB)	
Interfaces	2 x USB 2.0, USB Device, DVI-D		Memory expansion	CF Card		Interfaces	2 x USB 2.0, ETHERNET, 2 x CAN, RS-232, RS-485	
Panel cutout (W x H)	268 x 206 mm		Interfaces	2 x USB 2.0, ETHERNET		Panel cutout (W x H)	268 x 206 mm	
			Panel cutout (W x H)	268 x 206 mm				
TM 121 SVGA	762-121	1	WP 121 SVGA	762-1121	1	CP 121 SVGA TV	762-3121/000-001	1
Screen size (diagonal)	30.7 cm (12.1")		Screen size (diagonal)	30.7 cm (12.1")		Screen size (diagonal)	30.7 cm (12.1")	
Display colors	65536 colors		Resolution/Color	800 x 600 / 65k		RAM / Flash / SRAM	64 MB / 32 MB / 1 MB	
Graphics resolution	800 x 600 pixels		RAM / Flash / SRAM	64 MB / 32 MB / 1 MB		Memory expansion	CF card (max. 2 GB)	
Interfaces	2 x USB 2.0, USB Device, DVI-D		Memory expansion	CF Card		Interfaces	2 x USB 2.0, ETHERNET, 2 x CAN, RS-232, RS-485	
Panel cutout (W x H)	312 x 250 mm		Interfaces	2 x USB 2.0, ETHERNET		Panel cutout (W x H)	312 x 250 mm	
			Panel cutout (W x H)	312 x 250 mm				
TM 150 XGA	762-150	1				CP 150 XGA TV	762-3150/000-001	1
Screen size (diagonal)	38.1 cm (15")					Screen size (diagonal)	38.1 cm (15")	
Display colors	16 million colors					RAM / Flash / SRAM	256 MB / 128 MB / -	
Graphics resolution	1024 x 768 pixels					Memory expansion	CF card (max. 2 GB)	
Interfaces	2 x USB 2.0, USB Device, DVI-D					Interfaces	4 x USB 2.0, ETHERNET, RS-232, RS-485	
Panel cutout (W x H)	383 x 291 mm					Panel cutout (W x H)	383 x 291 mm	
						CP 150 XGA CAN TV	762-3150/000-003	1
						Screen size (diagonal)	38.1 cm (15")	
						RAM / Flash / SRAM	256 MB / 128 MB / -	
						Memory expansion	CF card (max. 2 GB)	
						Interfaces	4 x USB 2.0, ETHERNET, CAN, RS-232, RS-485	
						Panel cutout (W x H)	383 x 291 mm	

TO-PASS® Scalable Telecontrol Solutions from Fault Detector to Intelligent Telecontrol PLC 761 Series

TO-PASS® Mobile Compact GSM mobile radio network SMS, CSD, GPRS (Web) 4 x DI, 4 x DO, 2 x AI Operating voltage: 10 – 30 VDC Closed current: 35 mA Dimensions (W x H x L): 109 x 105 x 78 mm	TO-PASS® Compact GSM mobile radio network SMS, CSD, GPRS (Web) 8 x DI, 4 x DO, 8 x AI, 2 x AO Operating voltage: 8 – 36 VDC Closed current: 35 mA Dimensions (W x H x L): 109 x 105 x 78 mm	TO-PASS® GPRS Modem, RS-232 TO-PASS® GPRS Modem, VPN Router Supply voltage: 12 – 30 VDC (24 VDC nominal) Dimensions (W x H x L): 22.5 x 99 x 114.5 mm (761-510) 45 x 99 x 114.5 mm (761-520)
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Designation	Item No.	Designation	Item No.	Designation	Item No.
TO-PASS® Compact	761-110	TO-PASS® Compact	761-210	GPRS Modem, RS-232	761-510
TO-PASS® Compact, 2 AI	761-111	TO-PASS® Compact, 8 AI, ESP, DSP	761-214	GPRS Modem, VPN Router	761-520
TO-PASS® Compact, Web	761-112	TO-PASS® Compact, 8 AI, Web, MODBUS	761-216		
TO-PASS® Compact, 2 AI, Web	761-113				
TO-PASS® Mobile, 4 AI	761-314				
TO-PASS® Mobile, 4 AI, Web, MODBUS	761-316				

Accessories, 761 Series

Self-adhesive antenna, with 2.5m cable, SMA straight plug  758-961	USB adapter, with 1m connection cable  761-9005
Magnetic foot antenna, with 2.5m cable, SMA straight plug  758-965	Power supply/charge regulator, 115 – 230 VAC to 24 VDC, 1 A, also for battery mode  761-9007
Rod antenna, with 1m connection cable, SMA straight plug  758-963	Battery, 12 VDC, 1.2 Ah lead-gel  761-9008
Theft-proof antenna, with 1m connection cable, SMA straight plug  758-962	Outdoor housing  761-9009
Theft-proof combination antenna, with 2.5m cable, SMA straight plug  758-966	TO-PASS® configuration software, for 761-1xx and 761-2xx telecontrol modules  761-930





ETHERNET Industrial Switches 852 Series

Industrial Switch, 5 Ports* Supply voltage: 9 - 48 VDC Ports: 5 x 10/100Base-TX (RJ-45) Dimensions (W x H x L): 50 x 120 x 105 mm	Industrial Switch, 8 Ports* Supply voltage: 9 - 48 VDC Ports: 8 x 10/100Base-TX (RJ-45) 2 x SFP 100Base-FX Fiber Dimensions (W x H x L): 50 x 162 x 120 mm	Industrial Switch, 7 Ports* Supply voltage: 9 - 48 VDC Ports: 7 x 10/100Base-TX (RJ-45) 2 x SFP 100Base-FX Fiber 1 x RS-232 (RJ-45) Dimensions (W x H x L): 50 x 162 x 120 mm
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Designation	Item No.	Designation	Item No.	Designation	Item No.
5-Port 100Base-TX Industrial Switch	852-101	8-Port 100Base-TX Industrial Switch	852-102	7-Port 100Base-TX	
		8-Port 100Base-TX		+ 2-Slot 100Base-FX	
		+ 2-Slot 100Base-FX Industrial Switch	852-103	Industrial Managed Switch	852-104

Accessories, 852 Series

Accessories, 852 Series	SFP Module 2,	SFP Module 30,
	 1310 nm, 100Base-FX Multi-Mode LC, 2 km 852-201/107-002	 1310 nm, 100Base-FX Single-mode LC, 30 km 852-201/107-030

Industrial ECO Switch, 5 Ports* Supply voltage: 18 - 30 VDC Ports: 5 x 10/100Base-TX (RJ-45) Dimensions (W x H x L): 23.4 x 73.8 x 109.2 mm	Industrial ECO Switch, 8 Ports* Supply voltage: 18 - 30 VDC Ports: 8 x 10/100Base-TX (RJ-45) Dimensions (W x H x L): 109.2 x 23.4 x 73.8 mm	
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Designation	Item No.	Designation	Item No.
5-Port 100Base-TX Industrial ECO Switch	852-111	8-Port 100Base-TX Industrial ECO Switch	852-112

* All technical data and approvals are available in our Full Line Catalog, Volume 3, AUTOMATION, or online at www.wago.com.

EPSITRON® Primary Switch Mode Power Supplies 787 Series

EPSITRON® COMPACT Power Open/short circuit protected, adjustable output voltage, LED status indication, for DIN 35 rail 0.08 - 2.5 mm² / AWG 28 - 14	EPSITRON® ECO Power Open/short circuit protected, adjustable output voltage, LED status indication, for DIN 35 rail 0.08 - 4 mm² / AWG 28 - 12	EPSITRON® CLASSIC Power Open/short circuit protected, adjustable output voltage, LED status indication, for DIN 35 rail 0.08 - 2.5 mm² / AWG 28 - 14
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Output current	Item No.	Pack. Unit	Output current	Item No.	Pack. Unit	Output current	Item No.	Pack. Unit
Primary Switch Mode Power Supply, 1-Phase			Primary Switch Mode Power Supply, 1-Phase			Primary Switch Mode Power Supply, 1-Phase		
Input voltage: 85 - 264 VAC 120 - 373 VDC			Input voltage: 85 - 264 VAC Nominal voltage: 230 VAC			Input voltage: 110 - 230 VAC Nominal voltage: 90 - 264 VAC, 130 - 300 VDC		
Nominal voltage: 100 - 240 VAC			24VDC / 2.5A 787-712 1			12 VDC / 2 A 787-601 1		
12 VDC / 2 A 787-1001 1			Dimensions (mm) W x H x L: 50 x 92 x 136			Dimensions (mm) W x H x L: 40 x 95 x 90 parallel operation, thermal overload protection		
Dimensions (mm) W x H x L: 54 x 59 x 89			Input voltage: 85 - 264 VAC Nominal voltage: 230 VAC			12 VDC / 4 A 787-611 1		
Input voltage: 85 - 264 VAC 120 - 373 VDC			24 VDC / 0.5 A 787-722 1			Dimensions (mm) W x H x L: 51 x 133 x 120		
Nominal voltage: 100 - 240 VAC			Dimensions (mm) W x H x L: 75 x 92 x 136			12 VDC / 8 A 787-621 1		
12 VDC / 4 A 787-1011 1			Input voltage: 85 - 264 VAC Nominal voltage: 230 VAC			Dimensions (mm) W x H x L: 67 x 133 x 120		
Dimensions (mm) W x H x L: 72 x 59 x 89			Input voltage: 85 - 264 VAC Nominal voltage: 230 VAC			24 VDC / 1.3 A 787-602 1		
Input voltage: 85 - 264 VAC 120 - 373 VDC			24 VDC / 10 A 787-732 1			Dimensions (mm) W x H x L: 40 x 95 x 90 parallel operation, thermal overload protection		
Nominal voltage: 100 - 240 VAC			Dimensions (mm) W x H x L: 110 x 92 x 136			24VDC / 2.5A 787-612 1		
24 VDC / 1.3 A 787-1002 1						Dimensions (mm) W x H x L: 51 x 133 x 120		
Dimensions (mm) W x H x L: 54 x 59 x 89						24 VDC / 0.5 A 787-622 1		
Input voltage: 85 - 264 VAC 120 - 373 VDC						Dimensions (mm) W x H x L: 67 x 133 x 120		
Nominal voltage: 100 - 240 VAC						Input voltage: 85 - 264 VAC / 90 - 350 VAC Nominal voltage: 110 - 230 VAC		
24VDC / 2.5A 787-1012 1						24 VDC / 10 A 787-632 1		
Dimensions (mm) W x H x L: 72 x 59 x 89						Dimensions (mm) W x H x L: 115 x 87 x 140		
Input voltage: 85 - 264 VAC 120 - 373 VDC						Input voltage: 90 - 264 VAC, 130 - 300 VDC Nominal voltage: 110 - 230 VAC, parallel operation		
Nominal voltage: 100 - 240 VAC						48 VDC / 1 A 787-613 1		
24 VDC / 4 A 787-1022 1						Dimensions (mm) W x H x L: 51 x 133 x 120		
Dimensions (mm) W x H x L: 90 x 59 x 89						48 VDC / 2 A 787-623 1		
						Dimensions (mm) W x H x L: 67 x 133 x 120		
						Input voltage: 176 - 264 VAC / 90 - 132 VAC Nominal voltage: 110 - 230 VAC		
						48 VDC / 5 A 787-633 1		
						Dimensions (mm) W x H x L: 115 x 87 x 140		

EPSITRON® Primary Switch Mode Power Supplies 787 Series

EPSITRON® PRO Power Open/short circuit protected, adjustable output voltage, LED status indication, for DIN 35 rail 0.08 - 2.5 mm ² / AWG 28 - 14	EPSITRON® PRO Power Open/short circuit protected, adjustable output voltage, LED status indication, for DIN 35 rail 0.08 - 2.5 mm ² / AWG 28 - 14	EPSITRON® 0.08 - 2.5 mm ² / AWG 28 - 14
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Output current	Item No.	Pack. Unit	Output current	Item No.	Pack. Unit	Output current	Item No.	Pack. Unit
Primary Switch Mode Power Supply, 1-Phase			Primary Switch Mode Power Supply, 3-Phase			Electronic Circuit Breaker		
Input voltage: 85 - 264 VAC			Input voltage: 340 - 550 VAC			Input voltage: 24 VDC		
120 - 350 VDC			480 - 780 VDC			Output voltage: 4 x 24 VDC		
Nominal voltage: 1/2 x 100 - 240 VAC			Nominal voltage: 3x (2x) 400 - 500 VAC			4 x 1 - 6 ADC 787-860 1		
12 VDC / 6 A 787-819 1			24 VDC / 10 A 787-840 1			Dimensions (mm) W x H x L: 40 x 171 x 163		
Dimensions (mm) W x H x L: 40 x 163 x 127			Dimensions (mm) W x H x L: 57 x 163 x 179			Electronic Circuit Breaker		
Input voltage: 85 - 264 VAC			Input voltage: 340 - 550 VAC			Input voltage: 24 VDC		
120 - 350 VDC			480 - 780 VDC			Output voltage: 4 x 24 VDC		
Nominal voltage: 1/2 x 100 - 240 VAC			Nominal voltage: 3x (2x) 400 - 500 VAC			4 x 1 - 8 ADC 787-861 1		
12 VDC / 10 A 787-821 1			24 VDC / 20 A 787-842 1			Dimensions (mm) W x H x L: 40 x 171 x 163		
Dimensions (mm) W x H x L: 57 x 163 x 127			Dimensions (mm) W x H x L: 77 x 171 x 179			Electronic Circuit Breaker		
Input voltage: 85 - 264 VAC			Input voltage: 340 - 550 VAC			Input voltage: 24 VDC		
120 - 350 VDC			480 - 780 VDC			Output voltage: 4 x 24 VDC		
Nominal voltage 1/2 x 110 - 240 VAC			Nominal voltage: 3x (2x) 400 - 500 VAC			4 x 1 - 10 ADC 787-862 1		
12 VDC / 15 A 787-831 1			24 VDC / 40 A 787-844 1			Dimensions (mm) W x H x L: 40 x 171 x 163		
Dimensions (mm) W x H x L: 57 x 179 x 127			Dimensions (mm) W x H x L: 128 x 171 x 205			UPS Charger and Controller		
Input voltage: 85 - 264 VAC			Input voltage: 340 - 550 VAC			Input voltage: 24 VDC		
120 - 350 VDC			480 - 780 VDC			Output voltage: 24 VDC		
Nominal voltage: 1/2 x 100 - 240 VAC			Nominal voltage: 3x (2x) 400 - 500 VAC			10 A 787-870 1		
24 VDC / 3 A 787-818 1			48 VDC / 10 A 787-845 1			Dimensions (mm) W x H x L: 40 x 163 x 163		
Dimensions (mm) W x H x L: 40 x 163 x 127			Dimensions (mm) W x H x L: 77 x 179 x 127			UPS Charger and Controller		
Input voltage: 85 - 264 VAC			Input voltage: 340 - 550 VAC			Input voltage: 24 VDC		
120 - 373 VDC			480 - 780 VDC			Output voltage: 24 VDC		
Nominal voltage: 100 - 240 VAC			Nominal voltage: 3x (2x) 400 - 500 VAC			20 A 787-875 1		
24 VDC / 0.5 A 787-822 1			48 VDC / 20 A 787-847 1			Dimensions (mm) W x H x L: 57 x 163 x 171		
Dimensions (mm) W x H x L: 57 x 163 x 163			Dimensions (mm) W x H x L: 128 x 205 x 127			Redundancy Module		
Input voltage: 85 - 264 VAC			Primary Switch Mode Power Supply, 3-Phase, with Display			Input voltage: 2 x 24 VDC		
120 - 373 VDC			Input voltage: 340 - 550 VAC			Output voltage: 24 VDC		
Nominal voltage: 100 - 240 VAC			480 - 780 VDC			2 x 20 A/1 x 40 A 787-885 1		
24 VDC / 10 A 787-832 1			Nominal voltage: 3x (2x) 400 - 500 VAC			Dimensions (mm) W x H x L: 40 x 163 x 181		
Dimensions (mm) W x H x L: 57 x 163 x 179			Dimensions (mm) W x H x L: 57 x 163 x 179			Redundancy Module		
Input voltage: 85 - 264 VAC			Input voltage: 340 - 550 VAC			Input voltage: 2 x 48 VDC		
120 - 350 VDC			480 - 780 VDC			Output voltage: 48 VDC		
Nominal voltage 1/2 x 110 - 240 VAC			Nominal voltage: 3x (2x) 400 - 500 VAC			2 x 20 A/1 x 40 A 787-886 1		
24 VDC / 20 A 787-834 1			24 VDC / 20 A 787-852 1			Dimensions (mm) W x H x L: 40 x 163 x 181		
Dimensions (mm) W x H x L: 97 x 187 x 163			Dimensions (mm) W x H x L: 77 x 171 x 179			Capacitive Buffer Module		
Input voltage: 85 - 264 VAC			Input voltage: 340 - 550 VAC			Input voltage: 24 VDC		
120 - 350 VDC			480 - 780 VDC			Output voltage: 24 VDC		
Nominal voltage: 110 - 240 VAC			Nominal voltage: 3x (2x) 400 - 500 VAC			10 A 787-880 1		
48 VDC / 5 A 787-833 1			24 VDC / 40 A 787-854 1			Dimensions (mm) W x H x L: 57 x 179 x 163		
Dimensions (mm) W x H x L: 57 x 179 x 127			Dimensions (mm) W x H x L: 128 x 171 x 205			20 A 787-881 1		
48 VDC / 10 A 787-835 1						Dimensions (mm) W x H x L: 57 x 179 x 181		
Dimensions (mm) W x H x L: 97 x 187 x 127								

Shield Connecting System 790 and 791 Series



Snap into any metal plate up to max. thickness 3 mm.



790 Series



791 Series



791 Series



Installation on a specialty slotted carrier rail



Installation on busbar with insulated mounting feet



Installation on U-shaped copper busbar

Shield Clamping Saddle

Saddle Width	Cable Diameter	Item No.	Saddle Width	Cable Diameter	Item No.
11 mm	8	790-108	10 mm	1,5 - 6,5	791-107
19 mm	7 - 16	790-116	17 mm	5 - 11	791-111
27 mm	6 - 24	790-124	23 mm	10 - 17	791-117
43 mm	22 - 40	790-140	30 mm	16 - 24	791-124

Accessories, 790 Series

	Carrier with grounding foot , 45 mm bar 90° to the rail, copper, (10 x 3) mm	790-113	25
	Carrier with grounding foot , bar parallel to the rail, copper, (10 x 3) mm, 25 mm long	790-112	25
	Carrier with grounding foot , bar parallel to the rail, copper, (10 x 3) mm, 45 mm long	790-114	25
	Carrier with 2 grounding feet , 125 mm bar parallel to the rail, copper, (10 x 3) mm	790-115	25
	Carrier rail , specialty slotted, 1000 mm long, tin-plated (special lengths upon request)	790-145	1
	Spacer sleeve , for specialty slotted carrier rail, for M5-size screw	790-144	200 (2x100)
	Straight busbar , tin-plated, 1000 mm copper, (10 x 3) mm	210-133	20 (20x1)
		30 mm 790-133	20 (20x1)
		50 mm 790-134	20 (20x1)
	Insulated mounting foot , for busbar with M4 x 8 mm screw gray	790-100	50 (2x25)
	with (3.5 x 9) mm sheet metal screw gray	790-101	50 (2x25)
	U-shaped busbar , for I/O modules, 750 Series copper, (10 x 3) mm for 5 I/O	790-190	25 (5x5)
	for 8 I/O	790-191	25 (1x25)
	Busbar carrier , for (10 x 3) mm copper busbars, straight	790-300	10
	angled	790-301	10
	Shield termination , incl. cable tie for 5 - 10 mm Ø, 55 mm long	709-350	100 (4x25)
	150 mm long	709-352	100 (4x25)

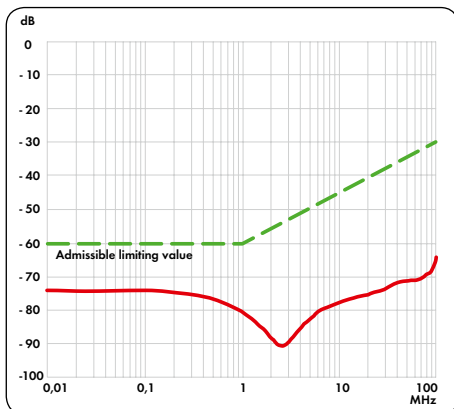


Removing the busbar carrier.



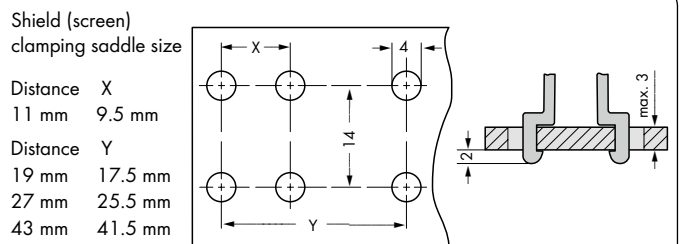
Shield termination

Negative Shield Attenuation



The WAGO shield connecting system is highly effective because the clamping unit can be brought very close to the unshielded part of the cable. Additionally, the spring material is part of the clamping saddle, providing a good electrical connection (the system also acts as a partial strain relief). The spring element integrated in the shield clamping saddle compensates deformation and settling that results from a connected shield.

Hole Dimensions for Panel Mounting (790 Series)



JUMPFLEX®

A Complete Product Line is Available, Bringing Each Signal into Shape 857 Series

Perfectly pairing a housing with electronics is key to a highly successful device. This goal has been achieved by WAGO with the new family of 857 Series Transducers and Relay Modules.

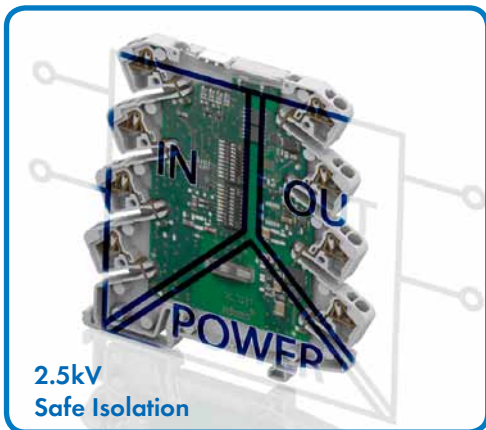
Clear Identification

Clear marking via WMB Multi markers.



Flexibility At Its Finest

Configuration via DIP switch.
Temperature transducers can also be configured via software.



Simple Handling

Removing relay via 3.5mm screwdriver.



CAGE CLAMP®

Maximum Safety

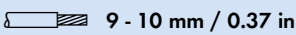
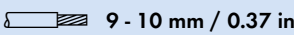
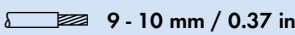
All devices provide "safe isolation" with 2.5kV test voltage to EN 61140.

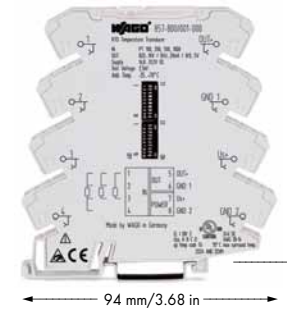
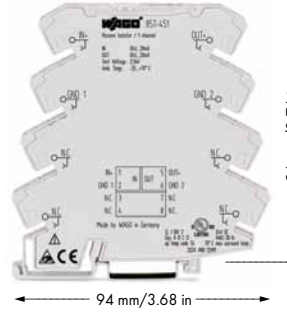
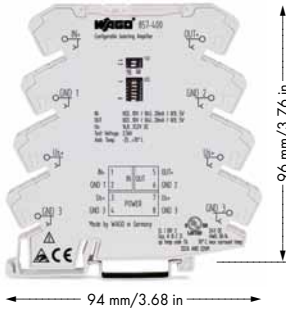


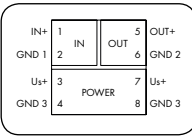
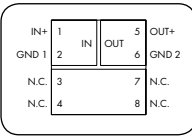
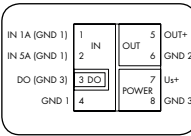
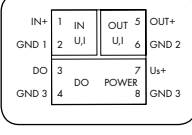
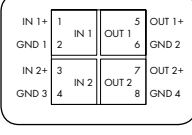
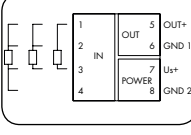
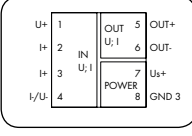
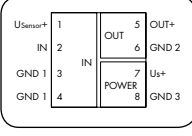
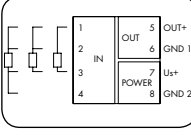
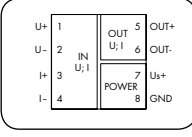
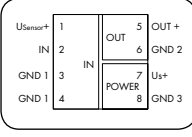
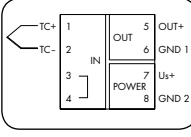
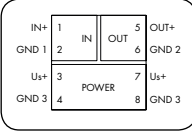
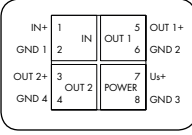
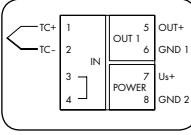
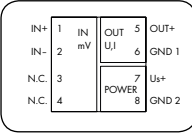
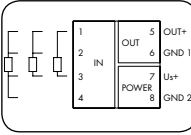
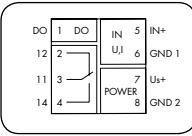
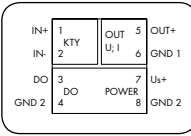
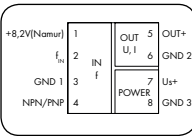
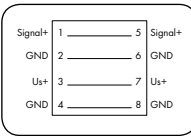
Commoning, Not Discrete Wiring

Same outline allows use of a single in-line, push-in jumper.

JUMPFLEX® Transducers 857 Series

Transducers 0.08 - 0.2 mm ² "sol." / 0.34 - 2.5 mm ² "f-st" Voltage supply: 16.8 - 31.2 V Temperature range: -25 °C to +70 °C Width: 6 mm  9 - 10 mm / 0.37 in	Transducers 0.08 - 0.2 mm ² "sol." / 0.34 - 2.5 mm ² "f-st" Voltage supply: 16.8 - 31.2 V Temperature range: -25 °C to +70 °C Width: 6 mm  9 - 10 mm / 0.37 in	Transducers 0.08 - 0.2 mm ² "sol." / 0.34 - 2.5 mm ² "f-st" Voltage supply: 16.8 - 31.2 V Temperature range: -25 °C to +60 °C Width: 6 mm  9 - 10 mm / 0.37 in
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




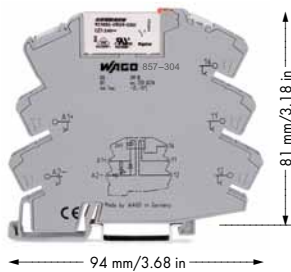
Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
 Isolation amplifier, configurable, with zero/span adjustment 857-400 1	 Passive isolator, 1-channel 857-451 1	 Current transducer 0 - 1 A, 0 - 5 A AC/DC 857-550 1			
 Isolation amplifier, configurable, with digital output 857-401 1	 Passive isolator, 2-channel 857-452 1	 Temperature transducer for RTD 857-800 1			
 Universal isolation amplifier, configurable 857-402 1	 Repeater power supply 857-420 1	 Temperature transducer for RTD 857-801 1			
 Bipolar isolation amplifier 857-409 1	 Repeater power supply, HART 857-421 1	 Temperature transducer for thermocouples 857-810 1			
 Isolation amplifier, fixed setting Input: 0(4) - 20 mA Output: 0(4) - 20 mA 857-411 1	 Signal splitter 857-423 1	 Temperature transducer for thermocouples 857-811 1			
Input: 0(2) - 10 V Output: 0(2) - 10 V 857-412 1	 Millivolt transducer 857-819 1	 Temperature transducer for Ni sensors 857-818 1			
Input: 0 - 10 V Output: 0 - 20 mA 857-413 1	 Threshold value switch 857-531 1	 Temperature transducer for KTY sensors 857-820 1			
Input: 0 - 10 V Output: 4 - 20 mA 857-414 1	 Frequency transducer 0.1 - 120 KHz 857-500 1	 Supply and through module 857-979 1			
Input: 0 - 20 mA Output: 0 - 10 V 857-415 1					
Input: 4 - 20 mA Output: 0 - 10 V 857-416 1					

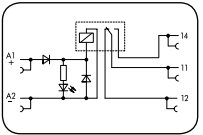
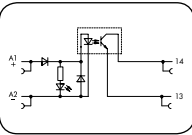
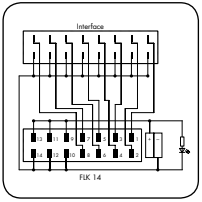
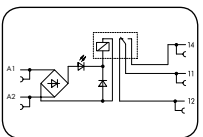
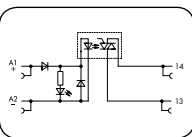
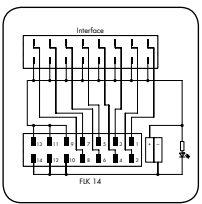
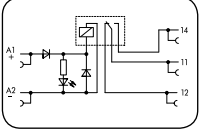
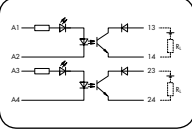
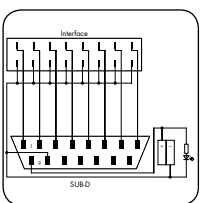
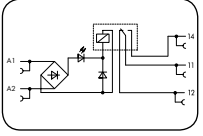
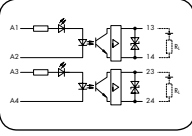
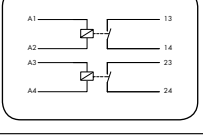
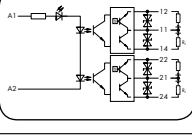
JUMPFLEX®



Relays, Optocouplers and Adapters

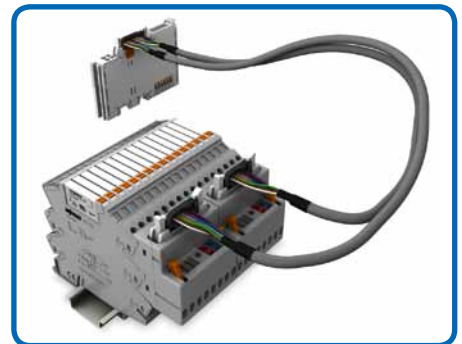
857 Series

Relays 0.08 - 0.2 mm ² "sol." / 0.34 - 2.5 mm ² "f-st" Voltage supply: 16.8 - 31.2 V Temperature range: -25°C to +60°C Width: 6 mm  9 - 10 mm / 0.37 in	Optocouplers 0.08 - 0.2 mm ² "sol." / 0.34 - 2.5 mm ² "f-st" Voltage supply: 16.8 - 31.2 V Temperature range: -25°C to +60°C Width: 6 mm  9 - 10 mm / 0.37 in	8-Channel Adapter 0.08 - 2.5 mm ² / AWG 28 - 14  5 - 6 mm / 0.22 in
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
 <p>Socket with miniature switching relay</p> <p>857-303 12 VDC 1</p> <p>857-304 24 VDC 1</p> <p>857-305 48 VDC 1</p> <p>857-306 60 VDC 1</p> <p>857-307 110 VDC 1</p> <p>857-308 220 VDC 1</p>		 <p>Optocoupler, with plugged solid-state relay Switching voltage ①</p> <p>857-724 24 VDC 1</p> <p>857-727 115 V AC/DC 1</p> <p>857-728 230 V AC/DC 1</p>		 <p>8-channel adapter for system wiring, with 14-pole ribbon cable connector to DIN 41651, high-side switching input Supply voltage: 24 VDC Current carrying capacity: 1 A</p> <p>857-981 1</p>	
 <p>Socket with miniature switching relay</p> <p>857-354 24 V AC/DC 1</p> <p>857-357 115 V AC/DC 1</p> <p>857-358 230 V AC/DC 1</p>		 <p>Optocoupler, with plugged solid-state relay Switching voltage ③</p> <p>857-714 24 VDC 1</p> <p>857-717 115 V AC/DC 1</p> <p>857-718 230 V AC/DC 1</p>		 <p>8-channel adapter for system wiring, with 14-pole ribbon cable connector to DIN 41651, high-side switching output Supply voltage: 24 VDC Current carrying capacity: 1 A</p> <p>857-982 1</p>	
 <p>Socket with miniature switching relay, with gold contacts</p> <p>857-314 24 VDC 1</p> <p>857-317 110 VDC 1</p> <p>857-318 220 VDC 1</p>		 <p>Optocouplers Input: 2 x 24 VDC Output: 2 x 9 - 60 VDC Max. switching current: 2 x 0.1 A</p> <p>857-1494 1</p>		 <p>8-channel adapter for system wiring, with D-sub male connector Supply voltage: 24 VDC Current carrying capacity: 1 A</p> <p>857-986 1</p>	
 <p>Socket with miniature switching relay, with gold contacts</p> <p>857-364 24 V AC/DC 1</p> <p>857-367 115 V AC/DC 1</p> <p>857-368 230 V AC/DC 1</p>		 <p>Optocouplers Input: 2 x 24 VDC Output: 2 x 3 - 30 VDC Max. switching current: 2 x 3 A</p> <p>857-1430 1</p>			
 <p>Socket with miniature switching relay</p> <p>857-1330 24 V AC/DC 1</p>		 <p>Optocouplers Input: 24 VDC Output: 2 changeover contacts, 2 x 9 - 60 VDC Max. switching current: 2 x 0.5 A</p> <p>857-1432 1</p>			

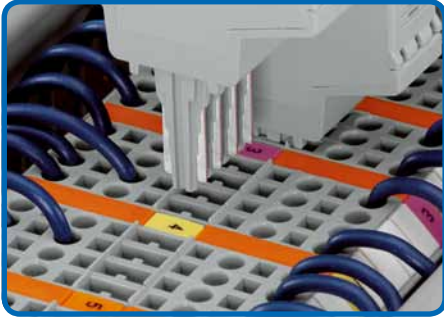
Accessories, 857 Series		Appropriate marking system: WMB	
 <p>Push-in type jumper bars, light gray, insulated, I_N 18 A</p> <p>2-way 859-402 200 (8x25)</p> <p>3-way 859-403 200 (8x25)</p> <p>4-port 859-404 200 (8x25)</p> <p>⋮</p> <p>10-port 859-410 100 (4x25)</p>	 <p>WAGO USB communication cable, connects a PC (notebook) to the 857 Series transducer interface</p> <p>750-923 1</p>		



① 0 - 24 VDC / 2 A ② 0 - 48 VDC / 0.1 A ③ 24 - 230 VAC / 1 A

4 INTERFACE ELECTRONIC . . .

Plugging



Coding ensures correct polarity.

Testing



Function testing via touch-proof test slots

Function modules on carrier terminal blocks



Pluggable electronic modules on 2- or 4-conductor carrier terminal blocks

Clamping units



4-conductor carrier terminal blocks – Two clamping units per side enable parallel feeding of voltage supply to multiple units.

Pluggable function modules on carrier terminal blocks

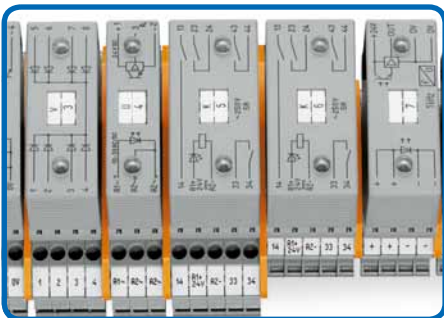


Marking



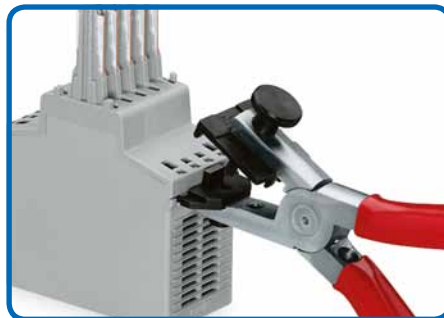
Marking plate, for group or block marking

System circuits

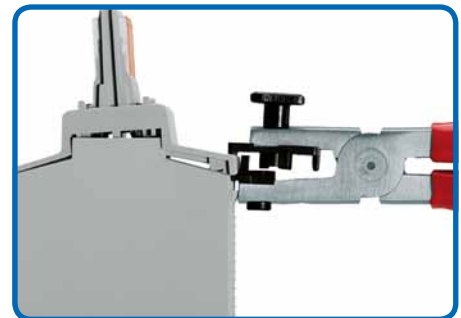


Printed system circuits for quick function recognition

Service



Pliers for removing function module housing covers (see page 171)



CAGE CLAMP® clamps the following copper conductors:

solid

Strip length, see packaging or instructions.



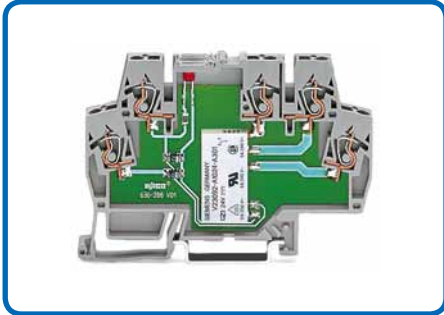
stranded



fine-stranded, also with tinned single strands

... Description and Handling

859 Series



Relay and optocoupler modules

Overvoltage protection

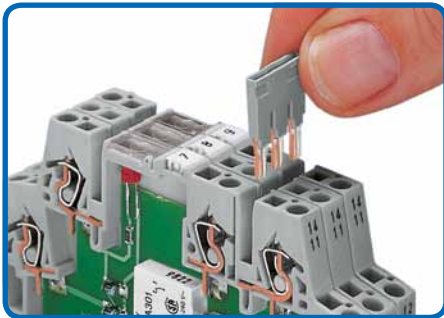


Rail-mounted terminal blocks with overvoltage protection

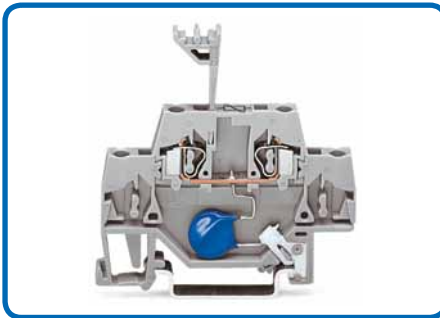
Interface Modules



Commoning

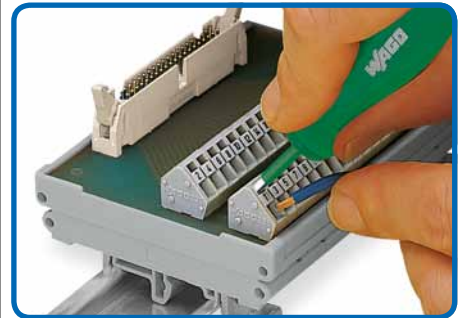


Commoning using a 3-way push-in type jumper bar. 2-way to 10-way jumper bars are also available.



Rail-Mounted Terminal Blocks with Overvoltage Protection

CAGE CLAMP® connection



"Front-entry" conductor termination

Marking

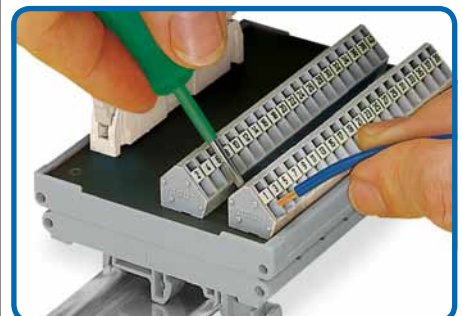


Each clamping unit is marked individually.



Pluggable surge suppression modules

CAGE CLAMP® connection



"Side-entry" conductor termination

Testing

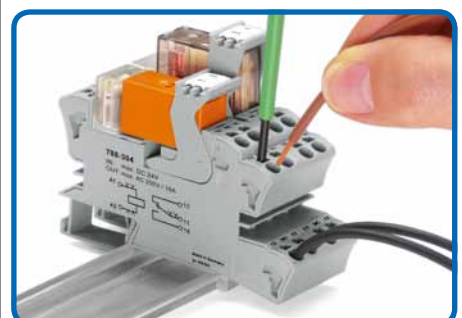


Testing with test pin.



For mounting carriers and empty component plug housings, see page 170.

CAGE CLAMP®S connection



Push-in termination of solid conductors or fine-stranded conductors with ultrasonically bonded conductor ends or ferrules.



fine-stranded, tip-bonded






fine-stranded with ferrule ❶ (gastight crimped)

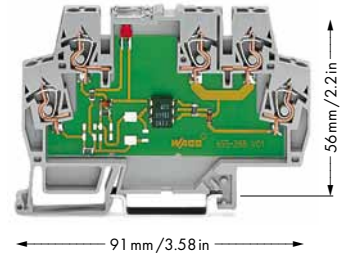
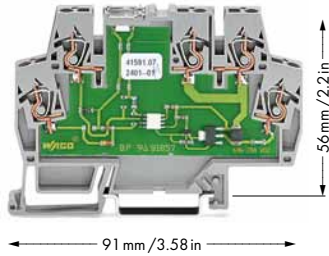
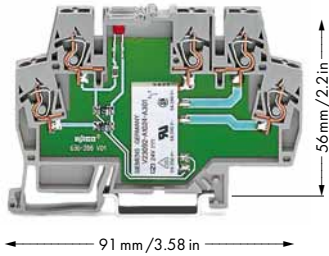


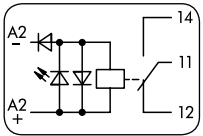
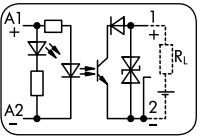
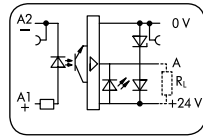



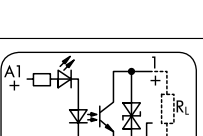
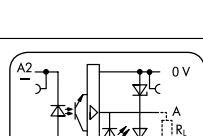
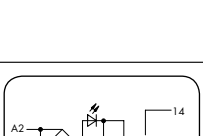
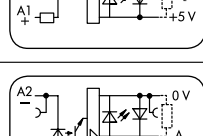
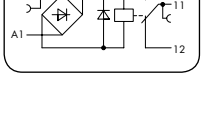
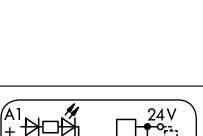
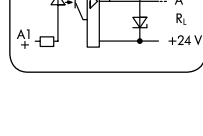

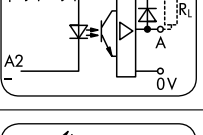

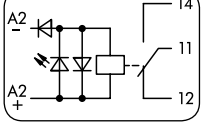
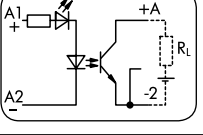
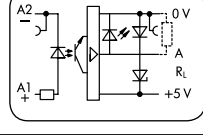

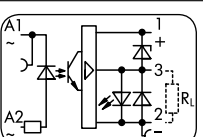
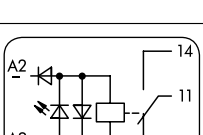
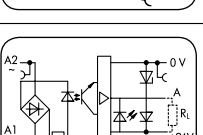
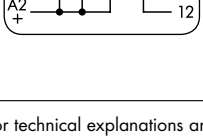

fine-stranded, with pin terminal (gastight crimped)

❶ When using ferrules, the max. conductor cross section which can be accommodated is one size smaller than max. rating of terminal block.

Rail-Mounted Terminal Blocks with Miniature Switching Relay and Optocoupler 859 Series


Relays with 1 changeover contact (1 u) 0.08 - 2.5 mm² AWG 28 - 14 Terminal block width: 6 mm  5 - 6 mm / 0.22 in	Optocouplers 0.08 - 2.5 mm² AWG 28 - 14 Terminal block width: 6 mm  5 - 6 mm / 0.22 in	Optocouplers 0.08 - 2.5 mm² AWG 28 - 14 Terminal block width: 6 mm  5 - 6 mm / 0.22 in
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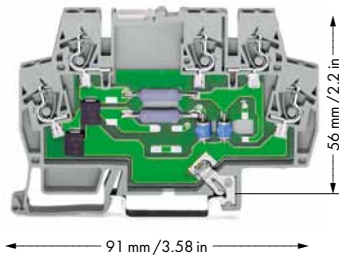


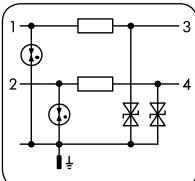


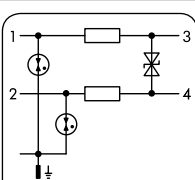


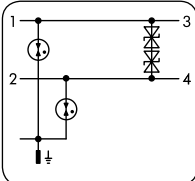
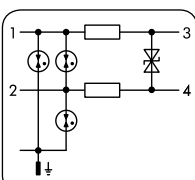


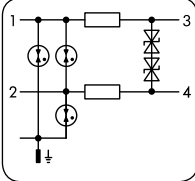

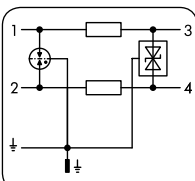

Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
	859-302 1 5 VDC		859-795 1 Input: 5 VDC Output: 24 VDC/100 mA		859-702 1 Input: 5 VDC Output: 24 VDC/0.5 A 25 kHz negative switching
	859-303 1 12 VDC	Optocoupler with an extended output voltage and operating temperature range for use in railway traffic	859-793 1 Input: 5 VDC Output: 60 VDC/100 mA		859-708 1 Input: 24 VDC Output: 24 VDC/0.5 A 25 kHz negative switching
	859-304 1 24 VDC		859-796 1 Input: 24 VDC Output: 24 VDC/100 mA		859-706 1 Input: 24 VDC Output: 5 VDC/0.5 A 25 kHz negative switching
	859-305 1 48 VDC	Optocoupler with an extended output voltage and operating temperature range for use in railway traffic	859-791 1 Input: 24 VDC Output: 60 VDC/100 mA		859-752 1 Input: 5 VDC Output: 24 VDC/0.5 A 10 kHz positive switching
	859-306 1 60 VDC		859-720 1 Input: 24 VDC Output: 24 VDC/3 A negative switching		859-758 1 Input: 24 VDC Output: 24 VDC/0.5 A 10 kHz positive switching
	859-307 1 110 VDC		859-730 1 Input: 24 VDC Output: 24 VDC/3 A		859-756 1 Input: 24 VDC Output: 5 VDC/0.5 A 10 kHz positive switching
	859-308 1 220 VDC		859-740 1 Input: 24 VDC Output: 3 - 30 VDC/3 A		859-902 1 Input: 5 VDC Output: 230 VAC/0.5 A
	859-353 1 12 V AC/DC		859-772 1 Input: 230 VAC Output: 24 VDC/0.5 A positive switching		
	859-354 1 24 V AC/DC		859-712 1 Input: 230 VAC Output: 24 VDC/0.5 A negative switching		
	859-355 1 48 V AC/DC				
	859-357 1 115 VAC				
	859-358 1 230 VAC				
Contacts 5 μm Au gold plated	859-314 1 24 VDC				
	859-317 1 115 VDC				
	859-360 1 115 VAC				
	859-359 1 230 VAC				
Defined turn-on/turn-off threshold	859-367 1 115 VAC				
	859-368 1 230 VAC				

For technical explanations and abbreviations, see technical section.

Rail-mounted terminal blocks with overvoltage protection 792 Series




<p>Overvoltage protection for information technology systems</p> <p>0.08 – 2.5 mm² AWG 28 – 14</p> <p>Terminal block width: 6 mm</p>  5 – 6 mm / 0.22 in	<p>Accessories for:</p> <ul style="list-style-type: none"> – Relay and optocoupler modules – Rail-mounted terminal blocks with overvoltage protection 	<p>Accessories for:</p> <ul style="list-style-type: none"> – Relay and optocoupler modules – Rail-mounted terminal blocks with overvoltage protection
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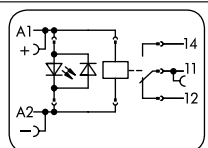
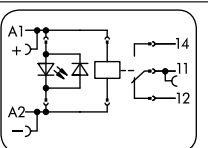
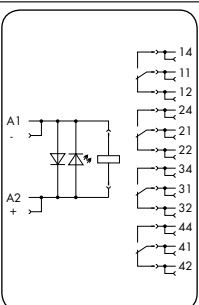
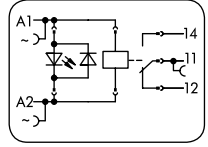
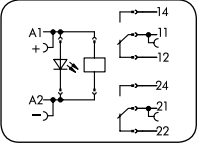
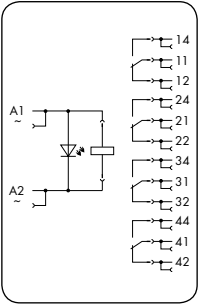
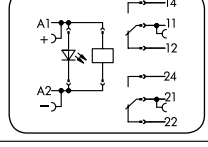
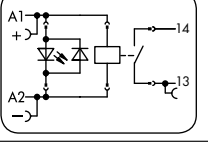
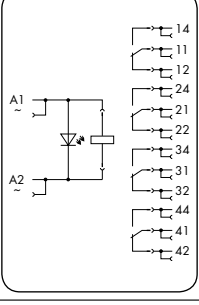
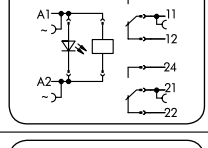
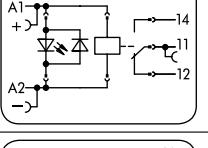

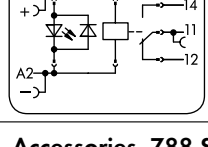
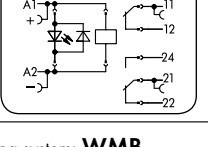









Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit																																						
 <p>792-800 1 24 VDC, ME24, for 2 single lines (line/protected ground), unbalanced interfaces as well as RS-485 and RS-422 interfaces</p>		 <p>End and intermediate plate, 1 mm thick gray 859-525 100 (4x25)</p>		 <p>Screwless end stop, 6 mm wide 249-116 100 (4x25) 10 mm wide 249-117 50 (2x25)</p>																																							
 <p>792-801 1 24 VDC, MD24, for balanced interfaces (line/line) with electrical isolation (telecommunications)</p>		 <p>Push-in type jumper bars, light gray, insulated, I_N 18 A 2-way 859-402 200 (8x25) 3-way 859-403 200 (8x25) 4-way 859-404 200 (8x25) 5-way 859-405 200 (8x25) : : 10-way 859-410 100 (4x25)</p>		 <p>Adjustable height group marker carriers, for 249-116 and 249-117 end stops for 1 marker card 1 249-119 50 (2x25) for 2 WSB Quick markers or 1 x continuous marking strip 2 249-118 100 (4x25)</p>																																							
 <p>792-802 1 24 VDC, SD24, for supply lines (power supply units)</p>		<p>Item no. suffix for colored push-in type jumper bars: yellow .../000-029 blue .../000-006</p>																																									
 <p>792-803 1 24 VDC, MDEX24, for intrinsically safe circuits, blue terminal block</p>		 <p>Test pin, 1 mm Ø, with solder connection for test cable 859-500 1</p>		 <p>Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade 210-720 1</p>																																							
 <p>792-804 1 48 VDC, MD48LON, for network applications</p>		 <p>Marking pen, for permanent marking 210-110 1</p>																																									
 <p>792-805 1 5 VDC, MDHF5, for network applications</p>		 <p>Miniature WSB Quick marking cards, 10 strips with 10 markers each, white with black printing</p>		<p>Marking:</p> <table border="1"> <tr><td>plain</td><td>248-501</td><td>5</td></tr> <tr><td>1 ... 10 (10x)</td><td>248-502</td><td>5</td></tr> <tr><td>11 ... 20 (10x)</td><td>248-503</td><td>5</td></tr> <tr><td>21 ... 30 (10x)</td><td>248-504</td><td>5</td></tr> <tr><td>31 ... 40 (10x)</td><td>248-505</td><td>5</td></tr> <tr><td>41 ... 50 (10x)</td><td>248-506</td><td>5</td></tr> <tr><td>1 ... 50 (2x)</td><td>248-566</td><td>5</td></tr> <tr><td>K 1 ... K 10 (10x)</td><td>248-450</td><td>5</td></tr> <tr><td>K 11 ... K 20 (10x)</td><td>248-451</td><td>5</td></tr> <tr><td>K 100 (10x)</td><td>248-452</td><td>5</td></tr> <tr><td>U 1 ... U 10 (10x)</td><td>248-453</td><td>5</td></tr> <tr><td>U 11 ... U 20 (10x)</td><td>248-454</td><td>5</td></tr> <tr><td>U 100 (10x)</td><td>248-455</td><td>5</td></tr> </table>	plain	248-501	5	1 ... 10 (10x)	248-502	5	11 ... 20 (10x)	248-503	5	21 ... 30 (10x)	248-504	5	31 ... 40 (10x)	248-505	5	41 ... 50 (10x)	248-506	5	1 ... 50 (2x)	248-566	5	K 1 ... K 10 (10x)	248-450	5	K 11 ... K 20 (10x)	248-451	5	K 100 (10x)	248-452	5	U 1 ... U 10 (10x)	248-453	5	U 11 ... U 20 (10x)	248-454	5	U 100 (10x)	248-455	5
plain	248-501	5																																									
1 ... 10 (10x)	248-502	5																																									
11 ... 20 (10x)	248-503	5																																									
21 ... 30 (10x)	248-504	5																																									
31 ... 40 (10x)	248-505	5																																									
41 ... 50 (10x)	248-506	5																																									
1 ... 50 (2x)	248-566	5																																									
K 1 ... K 10 (10x)	248-450	5																																									
K 11 ... K 20 (10x)	248-451	5																																									
K 100 (10x)	248-452	5																																									
U 1 ... U 10 (10x)	248-453	5																																									
U 11 ... U 20 (10x)	248-454	5																																									
U 100 (10x)	248-455	5																																									

Sockets with Miniature Switching Relay, 788 Series

Relay Sockets with Industrial Relay, 858 Series

<p>Sockets with relay and status indication 1 changeover contact / 16 A, gold-plated 50 mA 2 changeover contacts / 2 x 8 A, gold-plated 50 mA 0.34 - 2.5 mm² AWG 22 - 14 Socket width: 15 mm / Relay height: 15 mm  9 - 10 mm / 0.37 in</p>	<p>Sockets with relay and status indication 1 changeover contact / 16 A, gold-plated 50 mA 2 changeover contacts / 2 x 8 A, gold-plated 50 mA 0.34 - 2.5 mm² AWG 22 - 14 Socket width: 15 mm / Relay height: 25 mm  9 - 10 mm / 0.37 in</p>	<p>Sockets with relay and integrated status indication, free-wheeling diode and manual operation 4 changeover contacts / 5 A, gold-plated 50 mA 2 x 0.34 - 2 x 2.5 mm² AWG 22 - 14 Socket width: 31 mm / Relay height: 35 mm  9 - 10 mm / 0.37 in</p>
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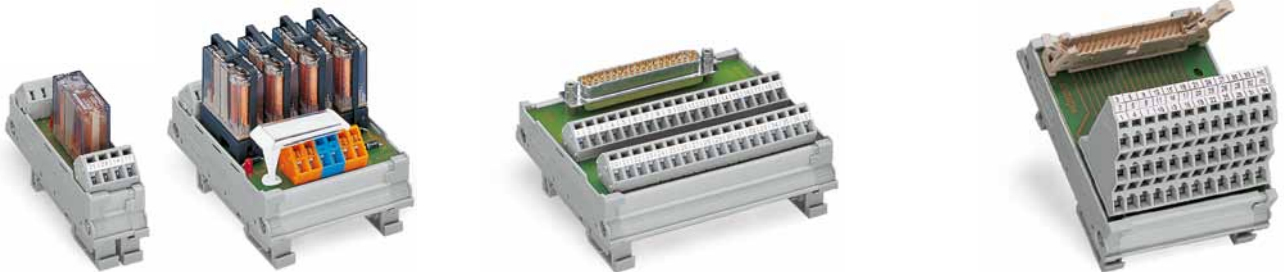


Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
	1 changeover contact 788-303 12 VDC 20 788-304 24 VDC 20 788-305 48 VDC 20 788-306 60 VDC 20 788-307 110 VDC 20		1 changeover contact 788-324 24 VDC 20 788-528 230 VAC 20 (no illustration)		4 changeover contacts 858-304 1 24 VDC
	1 changeover contact 788-506 24 VAC 20 788-507 115 VAC 20 788-508 230 VAC 20		2 changeover contacts 788-334 24 VDC 20 788-538 230 VAC 20 (no illustration)		4 changeover contacts, gold-plated 858-314 1 24 VDC
	2 changeover contacts 788-311 12 VDC 20 788-312 24 VDC 20 788-313 48 VDC 20 788-314 60 VDC 20 788-315 110 VDC 20		1 make contact 788-355 24 VDC 20		4 changeover contacts 858-508 1 230 VAC
	2 changeover contacts 788-512 24 VAC 20 788-515 115 VAC 20 788-516 230 VAC 20		1 changeover contact, manual operation 788-374 24 VDC 20		4 changeover contacts, gold-plated 858-518 1 230 VAC
	1 changeover contact, with gold contacts 788-404 24 VDC 20 2 changeover contacts, with gold contacts 788-412 24 VDC 20		2 changeover contacts, manual operation 788-375 24 VDC 20		
Accessories, 788 Series Appropriate marking system: WMB			Accessories, 858 Series Appropriate marking systems: WMB/Marking Strips		
	Comb-style jumper bar, 2-way 788-113 ① 200 859-402 ② 200		Status indicator, with recovery diode 788-120 24 VDC 1 788-121 48 VDC 1 788-122 110 VDC 1		Holding bracket, for industrial relays 858-110 8
	WMB Multi marking system plain 793-501 5 cards 1 ... 10 (10x) 793-502 5 cards		Status indicator, with recovery diode 788-123 24 VAC 1 788-124 115 VAC 1 788-125 230 VAC 1		Push-in type jumper bar, for the coil side 858-402 200
	Socket, for relay (15 mm high) 788-100 1 RT 15, 1 changeover contact 788-102 1 RT 15, 2 changeover contacts		Socket, for relay (25 mm high) 788-101 1 RT 25, 1 changeover contact 788-103 1 RT 25, 2 changeover contacts		Socket, for relay (35 mm high) 858-100 1 RT 25, 4 changeover contacts

For technical explanations and abbreviations, see technical section.

Rail-Mounted Relay Modules, 287 and 288 Series Interface Modules, 289 Series

<p>Relay soldered/plugged</p> <p>0.08 - 2.5 mm² AWG 28 - 14</p> <p>5 - 6 mm / 0.22 in</p>	<p>Interface module Terminal strips with CAGE CLAMP® (236 Series) Mounting carrier for DIN rail 35</p> <p>0.08 - 2.5 mm² AWG 28 - 12</p> <p>5 - 6 mm / 0.22 in</p>	<p>Interface module Terminal strips with CAGE CLAMP® (736 and 737 Series) Mounting carrier for DIN rail 35</p> <p>0.08 - 2.5 mm² AWG 28 - 12</p> <p>5 - 6 mm / 0.22 in</p>
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
<p>2 changeover contacts Relay, soldered</p> <p>288-512 1 24 VUC / 6 A</p> <p>288-312 1 24 VDC / 6 A (no illustration)</p>		<p>Interface module with male header to DIN 41 651</p> <p>289-501 10-pole 1 289-502 14-pole 1 289-503 16-pole 1 289-504 20-pole 1 289-505 26-pole 1 289-506 34-pole 1 289-507 40-pole 1 289-508 50-pole 1 289-509 64-pole 1</p>		<p>Interface module for ribbon cable connector</p> <p>289-611 10-pole 1 289-612 14-pole 1 289-613 16-pole 1 289-614 20-pole 1 289-615 26-pole 1 289-616 34-pole 1 289-617 40-pole 1 289-618 50-pole 1 289-619 64-pole 1</p>	
<p>2 relays, 1 changeover contact each, Relay, soldered</p> <p>288-758 1 24 VUC / 6 A</p> <p>288-761 1 115 VUC / 6 A</p> <p>288-762 1 230 VAC / 6 A</p>		<p>Interface module with D-subminiature male connector for mating connectors with solder connection</p> <p>289-545 9-pole 1 289-546 15-pole 1 289-547 25-pole 1 289-548 37-pole 1 289-549 50-pole 1</p>	<p>Interface module with D-subminiature male connector</p> <p>289-720 9-pole 1 289-721 15-pole 1 289-722 25-pole 1 289-723 37-pole 1</p>		
<p>4 relays, 1 make contact each, Relay, soldered</p> <p>287-474 1 24 VDC / 16 A</p>		<p>Interface module with D-subminiature female connector for mating connectors with IDC</p> <p>289-540 9-pole 1 289-541 15-pole 1 289-542 25-pole 1 289-543 37-pole 1 289-544 50-pole 1</p>	<p>Interface module with D-subminiature female connector</p> <p>289-725 9-pole 1 289-726 15-pole 1 289-727 25-pole 1 289-728 37-pole 1</p>		
<p>4 relays, 1 changeover contact each Relay, plugged</p> <p>287-774 1 24 VDC / 6 A</p>		<p>Interface module with D-subminiature female connector for mating connectors with solder connection</p> <p>289-555 9-pole 1 289-556 15-pole 1 289-557 25-pole 1 289-558 37-pole 1 289-559 50-pole 1</p>			
<p>8 relays, 1 changeover contact each Relay, plugged</p> <p>287-834 1 24 VUC / 6 A</p> <p>287-824 1 24 VDC / 6 A (no illustration)</p>		<p>Interface module with D-subminiature female connector for mating connectors with IDC</p> <p>289-550 9-pole 1 289-551 15-pole 1 289-552 25-pole 1 289-553 37-pole 1 289-554 50-pole 1</p>			
<p>16 relays, 1 changeover contact each Relay, plugged</p> <p>287-853 1 12 VDC / 6 A</p> <p>287-854 1 24 VDC / 6 A</p> <p>(no illustration)</p>			<p>Also available for connectors complying with:</p> <p>DIN 41612 Type E, F DIN 41651</p>		

Pluggable Modules for Carrier Terminal Blocks 286 Series

<p>Relays</p> <p>① Module width: 10 mm / 0.394 in ② Module width: 15 mm / 0.591 in</p>	<p>Relays</p> <p>② Module width: 15 mm / 0.591 in ③ Module width: 20 mm / 0.787 in ④ Module width: 35 mm / 1.378 in</p>	<p>Optocouplers</p> <p>② Module width: 15 mm / 0.591 in</p>
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
	<p>① Relay with 1 make contact</p> <p>286-364 1 24 VDC / 5 A</p> <p>286-365 1 48 VDC / 5 A</p> <p>286-366 1 60 VDC / 5 A</p>		<p>② Relay with 1 change-over contact</p> <p>286-502 1 5 V AC/DC / 7 A</p> <p>286-504 1 24 V AC/DC / 7 A</p> <p>286-508 1 230 V AC/DC / 7 A</p>		<p>② 24 VDC input negative switching</p> <p>286-700 1 5 VDC / 500 mA</p> <p>286-701 1 15 VDC / 500 mA</p> <p>286-702 1 24 VDC / 500 mA</p>
	<p>① Relay with 1 make contact</p> <p>286-564 1 24 VAC / 5 A</p> <p>286-566 1 115 VAC / 5 A</p> <p>286-567 1 230 VAC / 5 A</p>		<p>③ Relay with 2 change-over contacts</p> <p>286-310 1 5 VDC / 7 A</p> <p>286-312 1 24 VDC / 7 A</p> <p>286-316 1 24 VDC / 7 A</p>		<p>② 24 VDC input positive switching</p> <p>286-750 1 5 VDC / 500 mA</p> <p>286-751 1 15 VDC / 500 mA</p> <p>286-752 1 24 VDC / 500 mA</p>
	<p>① Relay with 1 break contact</p> <p>286-368 1 24 VDC / 5 A</p> <p>286-369 1 48 VDC / 5 A</p> <p>286-370 1 60 VDC / 5 A</p>		<p>③ Relay with 2 change-over contacts</p> <p>286-510 1 5 VAC / 7 A</p> <p>286-512 1 24 VAC / 7 A</p> <p>286-516 1 230 VAC / 7 A</p>		<p>② 230 VAC input negative switching</p> <p>286-704 1 5 VDC / 500 mA</p> <p>286-706 1 15 VDC / 500 mA</p> <p>286-708 1 24 VDC / 500 mA</p>
	<p>① Relay with 1 break contact</p> <p>286-568 1 24 VAC / 5 A</p>		<p>④ Relay with 4 change-over contacts</p> <p>286-375 1 24 VDC / 4 A</p>		<p>② 230 VAC input positive switching</p> <p>286-754 1 5 VDC / 500 mA</p> <p>286-756 1 15 VDC / 500 mA</p> <p>286-758 1 24 VDC / 500 mA</p>
	<p>② Relay with 1 changeover contact</p> <p>286-302 1 5 VDC / 7 A</p> <p>286-304 1 24 VDC / 7 A</p> <p>286-308 1 24 VDC / 7 A</p>		<p>④ Relay with 4 change-over contacts</p> <p>286-578 1 110/120 VAC / 4 A</p> <p>286-579 1 230 VAC / 4 A</p>		<p>② 24 VDC input</p> <p>286-720 1 24 VDC / 2 A</p> <p>286-721 1 24 VDC / 5 A</p>

Accessories, 286 Series

Appropriate marking system: **WMB**



Terminal block for pluggable modules	with 2-conductor terminal blocks, orange separator	with 4-conductor terminal blocks, orange separator
0.08 - 2.5 mm ² / AWG 28 - 14	12 mm wide ① 280-618 1	12 mm wide ① 280-608 1
	17 mm wide ② 280-619 1	17 mm wide ② 280-609 1
	22 mm wide ③ 280-638 1	22 mm wide ③ 280-628 1
Strip length: 8 - 9 mm / 0.33 in		37 mm wide ④ 280-636 1

<p>Optocouplers</p> <p>② Module width: 15 mm / 0.591 in ③ Module width: 20 mm / 0.787 in</p>	<p>Temperature transducers Bridge rectifiers</p> <p>② Module width: 15 mm / 0.591 in ③ Module width: 20 mm / 0.787 in</p>	<p>Overvoltage protection Latching relays Switching modules</p> <p>② Module width: 15 mm / 0.591 in ③ Module width: 20 mm / 0.787 in</p>
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Item No.	Pack. Unit	Diagram	Item No.	Pack. Unit	Diagram	Item No.	Pack. Unit
② 24 VDC input positive switching 286-723	1		③ Temperature transducer 2 conductors 286-860 0 - 10 V 286-861 0 - 20 mA 286-862 4 - 20 mA	1		③ AC current flow monitoring module 80 mA - 6 A AC 286-661	1
② 110 VDC output negative switching 286-726 286-728 286-730	1 1 1		③ Temperature transducer 3 conductors 286-870 0 - 10 V 286-871 0 - 20 mA 286-872 4 - 20 mA	1 1 1		② Surge suppression device Single-stage suppression 286-836 24 V AC/DC 286-835 230 VAC 286-835/115-000 115 VAC	1 1 1
② 230 VAC output 286-732 286-733 286-734	1 1 1		③ Temperature transducer Thermocouple J: 0-750°C 286-863 0 - 10 V 286-865 0 - 20 mA 286-867 4 - 20 mA	1 1 1		③ Surge suppression device Two-stage suppression 286-843 110/120 VAC 286-841 230 VDC 286-842 230 VAC	1 1 1
③ 2 inputs 2 x 24 VDC 286-792	1		Thermocouple K: 0-1000°C 286-864 0 - 10 V 286-866 0 - 20 mA 286-868 4 - 20 mA	1 1 1		③ Latching relay 1 break and 1 make contact 286-571 24 VDC 286-570 230 VAC (no illustration)	1 1
③ 24 VDC input 2 inverted outputs 286-790	1		② Bridge rectifier with varistor 286-830 24 VAC / 1 A 286-840 250 VAC / 1 A	1 1		② Switching module with changeover rocker switch 286-895 with momentary switch 286-896	1 1

Accessories, 286 Series

Appropriate marking system: **WMB**

Dimensions

	Terminal block for pluggable modules	with 4-conductor terminal blocks, marking plate	Entire height from upper-edge of carrier rail	
	0.08 - 2.5 mm ² / AWG 28 - 14	15 mm wide ①	280-762 1	
	Strip length: 8 - 9 mm / 0.33 in	20 mm wide ②	280-763 1	X = 2-conductor, 50 mm / 1.97 in
		25 mm wide ③	280-764 1	4-conductor, 73 mm / 2.87 in

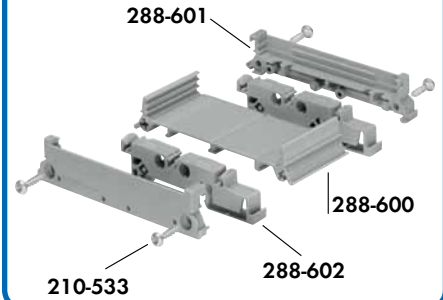
Mounting Carriers for DIN-Rail Mounting PCBs 288 Series

Mounting carrier, type 1, 85 mm wide, for DIN-rail mounting of 71.2 mm wide PCBs

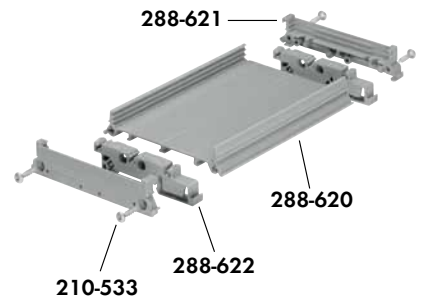
Mounting carrier, type 2, 106 mm wide, for DIN-rail mounting of 100 mm wide PCBs



Mounting carrier, type 1



Mounting carrier, type 2



Item No.	Pack. Unit	Item No.	Pack. Unit
Lateral cover, type 1,		Lateral cover, type 2,	
small, 6.35 mm thick	288-601 1	small, 8.75 mm thick	288-621 1
Fixing foot for DIN 35 rail	288-602 1	Fixing foot for DIN 35 rail	288-622 1
Rail-mount profile, type 2, 1 m long	288-600 1	Rail-mount profile, type 2, 1 m long	288-620 1
		Lateral cover, type 2,	
		large, 8.75 mm thick	288-626 1
		Cover, type 2, 1 mm long	288-627 1
Phillips screw, 2.9 x 13		Phillips screw, 2.9 x 13	
	210-533 25		210-533 25
2 pcs per lateral cover. Can be used with a module length of 39 mm or higher. Side covers must be riveted for smaller modules.		2 pcs per lateral cover. Can be used with a module length of 39 mm or higher. Side covers must be riveted for smaller modules.	
Rivet length depends on module length. Rivets are not part of our product line.		Rivet length depends on module length. Rivets are not part of our product line.	
Accessories, 288 Series			

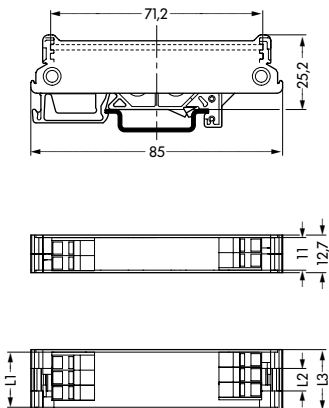
Mounting carrier, type 2, high, with cover



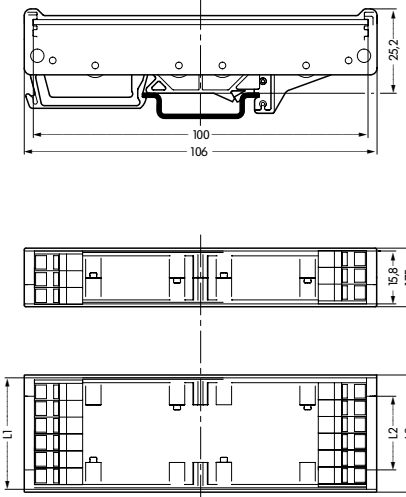
PCB length: L1
 Rail-mount profile length: L2 = L1 - 11 mm
 Mounting carrier length: L3 = L1 + 2 mm
 Lateral cover, type 1: 6.35 mm thick
 Free space between profile and PCB: 5 mm (when using upper groove)

PCB length: L1
 Rail-mount profile length: L2 = L1 - 15.8 mm
 Mounting carrier length: L3 = L1 + 2 mm
 Cover length: L4 = L1
 Lateral cover, type 2: 8.75 mm thick
 Free space between profile and PCB: 5 mm

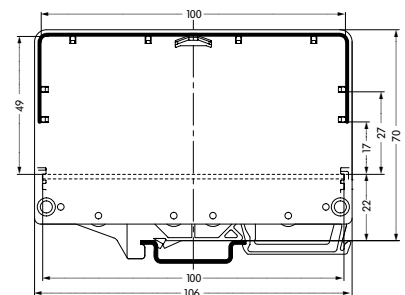
Mounting carrier, type 1



Mounting carrier, type 2, low



Mounting carrier, type 2, high







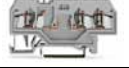

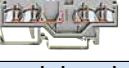









Empty Component Plug Housings for Building Custom Circuits 280, 286 and 2002 Series

Plug width: 5.2 mm / 0.205 in 10.4 mm / 0.409 in	Plug width: 5 mm / 0.197 in 10 mm / 0.394 in 250 V/4 kV/3 6 A max.	Plug width: 10 mm / 0.394 in 15 mm / 0.591 in 20 mm / 0.787 in 25 mm / 0.984 in 250 V/4 kV/3 6 A max.
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Type	Item No.	Pack. Unit	Type	Item No.	Pack. Unit	Type	Item No.	Pack. Unit
Empty component plug for carrier terminal blocks, 2002 Series			Empty component plug for carrier terminal blocks			Empty component plug for carrier terminal blocks		
Type 1	2002-800	100	Type 1	280-801	100	Type 9	286-110	1
2-pole, 5.2 mm/0.205 in wide			2-pole, 5 mm / 0.197 in wide Plug inside dimensions: W/H/L (3.2/15/15) mm			4-pole, 10 mm / 0.394 in wide		
Type 2	2002-810	50	Type 2	280-802	50	Type 10	286-111	1
2-pole, 10.4 mm/0.409 in wide			2-pole, 10 mm / 0.394 in wide Plug inside dimensions: W/H/L (8.2/15/15) mm			6-pole, 15 mm / 0.591 in wide		
Type 3	2002-820	50	Type 3	280-804	50	Type 11	286-112	1
4-pole, 10.4 mm/0.409 in wide			4-pole, 10 mm / 0.394 in wide Plug inside dimensions: W/H/L (8.2/15/15) mm			8-pole, 20 mm / 0.787 in wide		
Empty component plug for through terminal blocks, 2002, 2004 and 2006 Series			Empty component plug for through terminal blocks			Type 12		
Type 4	2002-880	50	Type 4	280-803	50	286-113		
2-pole, 10.4 mm/0.409 in wide			2-pole, 10 mm / 0.394 in wide Plug inside dimensions: W/H/L (8.2/15/15) mm			10-pole, 25 mm / 0.984 in wide		
For PCB dimensions and component height, see drawing and table.								

Accessories, 280, 286 and 2002 Series

2-cond. carrier terminal block, 5.2 mm wide  0.25 - 2.5 (4)mm ² /AWG 22 - 12 10 - 12 mm / 0.43 in gray 2002-1661 50	2-cond. carrier terminal block, 5 mm wide  0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-916 100	Terminal block for pluggable modules, 2-cond., polarized, with orange separator  0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in
4-cond. carrier terminal block, 5.2 mm wide  0.25 - 2.5 (4)mm ² /AWG 22 - 12 10 - 12 mm / 0.43 in gray 2002-1861 50	3-cond. carrier terminal block, 5 mm wide  0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-610 100	4-pole, 12 mm wide 280-618 1 6-pole, 17 mm wide 280-619 1 8-pole, 22 mm wide 280-638 1 10-pole, 27 mm wide 280-639 1
2-cond. through terminal block, 5.2 mm wide  0.25 - 2.5 (4)mm ² /AWG 22 - 12 10 - 12 mm / 0.43 in gray 2002-1201 100	4-cond. carrier terminal block, 5 mm wide  0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-686 100	Terminal block for pluggable modules, 4-cond., polarized, with orange separator  0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in
3-cond. through terminal block, 5.2 mm wide  0.25 - 2.5 (4)mm ² /AWG 22 - 12 10 - 12 mm / 0.43 in gray 2002-1301 100	2-cond. through terminal block, 5 mm wide  0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-901 100	4-pole, 12 mm wide 280-608 1 6-pole, 17 mm wide 280-609 1 8-pole, 22 mm wide 280-628 1 10-pole, 27 mm wide 280-629 1
4-cond. through terminal block, 5.2 mm wide  0.25 - 2.5 (4)mm ² /AWG 22 - 12 10 - 12 mm / 0.43 in gray 2002-1401 100	3-cond. through terminal block, 5 mm wide  0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-681 100	1-cond./1-cond. block for pluggable modules, with orange separator  0.08 - 4 mm ² /AWG 28 - 12 8 - 9 mm / 0.33 in
	4-cond. through terminal block, 5 mm wide  0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-833 100	4-pole, 11.1 mm wide 769-192/769-319 10 6-pole, 16.1 mm wide 769-193/769-319 5 8-pole, 21.1 mm wide 769-194/769-319 5 10-pole, 26.1 mm wide 769-195/769-319 5
	2-cond. terminal block, side-entry, 5 mm wide  0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-101 100	Pliers, for removing electronic housing cover  210-492 1

WINSTA® – The Connection System

WINSTA® MINI

For space-limited applications

- Sensors (switches, push-buttons, window contacts, pressure switches, temperature sensors, etc.)
- Actuators (control valves, magnetic valves, servo motors, blinds/sun protection, etc.)
- Protection class II for halogen lamps and luminaires
- Control signals
- 1.5 mm²/AWG 16, 250 V, 16 A



WINSTA® MIDI

For the majority of applications

- General building installation, ideal for modern buildings
- Standard lighting fixtures and safety lights
- Tradeshow and shop installation
- Motor homes
- Lab work stations
- Rolling stock
- Shipbuilding
- 4 mm²/AWG 12, 250/400 V, 25 A



WINSTA® MAXI

For high power

- Power supply via 6 mm²/AWG 10 cable for extended cable runs
- 32 A power supply in distribution boxes for high energy requirements
- 6 mm²/AWG 10, 250/400 V, 35 A



WINSTA® KNX

For the standardized bus

- KNX/EIB
- Control signals
- 0.8 mm Ø, 50 V, 3 A



WINSTA® IDC

For a high degree of flexibility

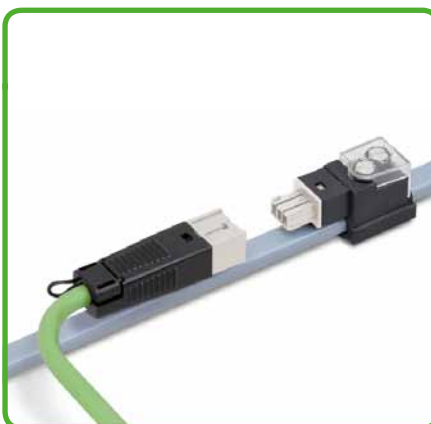
- Supply and tap off is possible at any time and at any location along the flat cable. No cutting, no stripping, no dismantling → very user-friendly
- A 120° rotation is all that is required to connect the flat cable
- Space-efficient across the flat cable through longitudinal tap off
- 2.5/4 mm² (AWG 14/12), 400 V, 25 A
- 10 mm²/AWG 8, 690 V, 57 A
- 16 mm²/AWG 6, 690 V, 76 A



WINSTA® RD

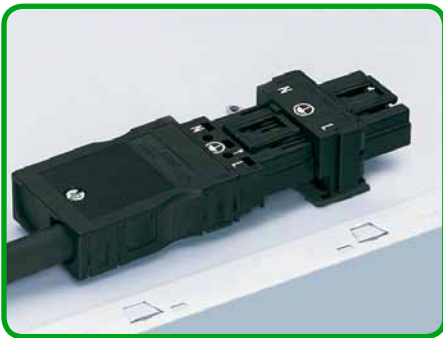
For round conduits and ducts

- Outside diameter of 17.5 mm for applications in electrical conduits with an internal diameter > 18 mm
- Prefabricated houses
- Recessed luminaires
- Wall and ceiling cutouts



WINSTA® – The Connection System Benefits for All Applications

Building automation



Lighting fixtures



Cable ducts



Under-floor distribution boxes



Conduits



Distribution boxes



Sub-distribution

Shipbuilding



Lighting connection



Cabin distribution

Rolling stock



Heating



Passenger information systems



Loudspeakers

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System Partners – A Strong Alliance**



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Office buildings



Lab work stations



Rolling stock



Prefabricated houses



Shipbuilding



Trade show design



Airports



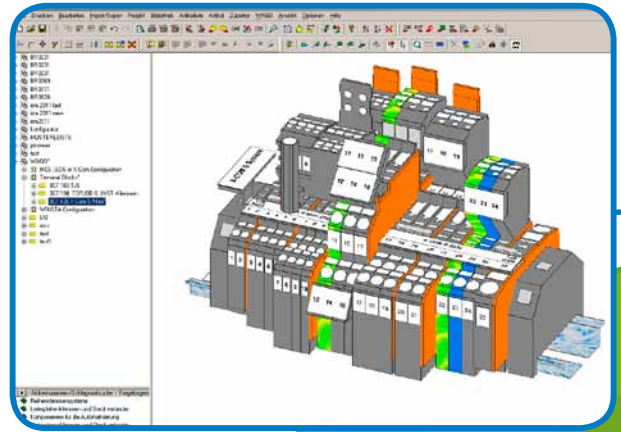
Motor homes



Benefits:

- Quick design
- Quick ordering
- User-friendly
- Extensive and user-specific documentation
- Network compatibility
- Different software products on a single CD (smartDESIGNER, productLOCATOR, smartSCRIPT)
- A price list is included

...all for free!



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electronic GmbH

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smartDESIGNER and productLOCATOR

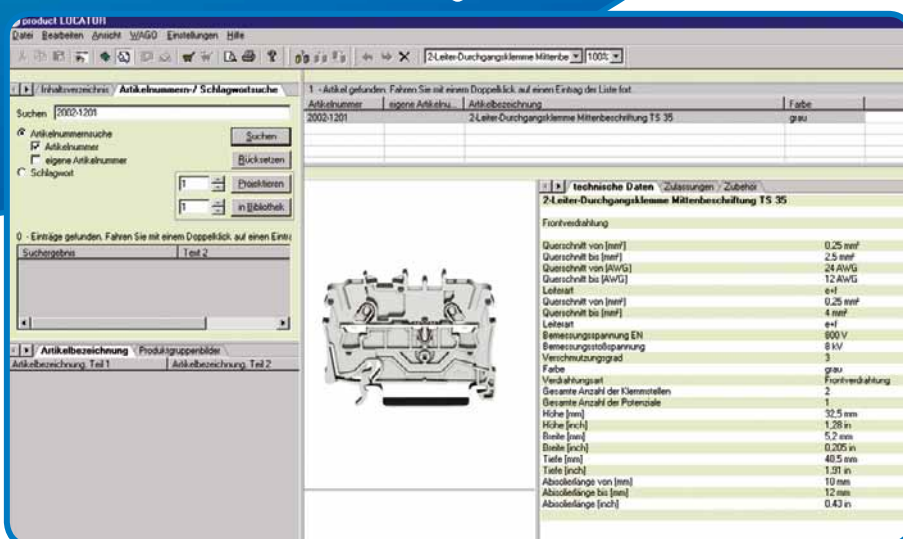
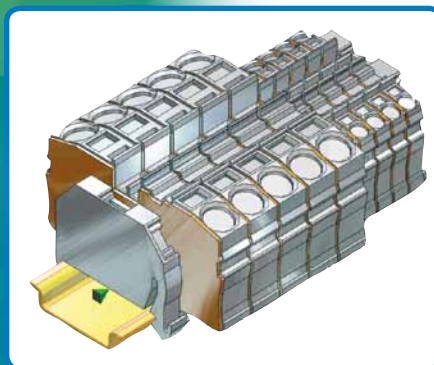
- Interfaces to CAE and M-CAD programs
- Output in PDF and HTML format
- Different search functions provide quick item selection
- Creation of part lists including product pictures and custom part numbers
- Complex rail assemblies can be easily designed in 3D
- Easy creation of custom part numbers
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- Default parts (favorites) can be defined individually, streamlining design time
- Intelligent, user-optimized accuracy check features
- 18 languages available
- 25,000 sales items

Marking:

- Direct creation and output of marking data to plotter or thermal transfer printer

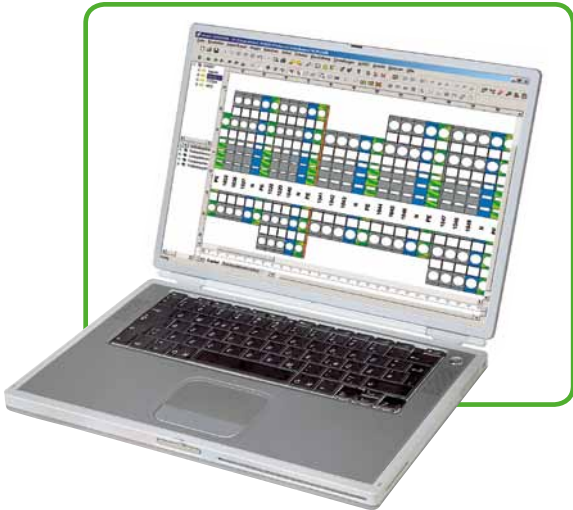


STEP – IGES – DXF – DWG



ProServe® Marking – Now Easier Than Ever

Configuration and marking of rail assemblies, stand-alone or in combination with CAE systems.



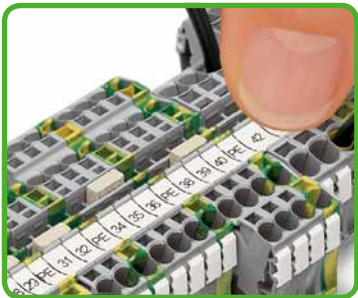
Designing:

Custom rail assemblies and markings can be designed easily via WAGO ProServe® Software.



Snapping:

Marker strip is snapped into center marker slot.



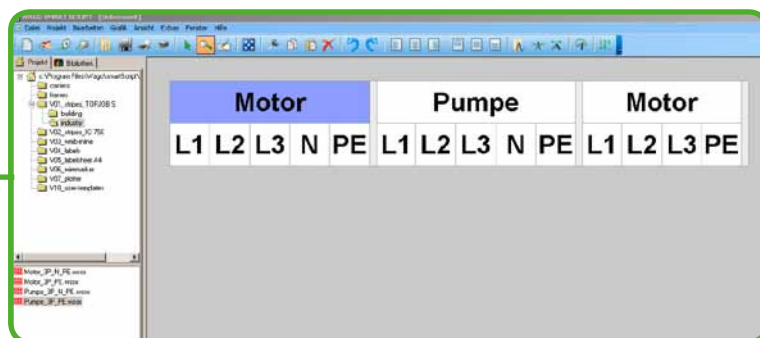
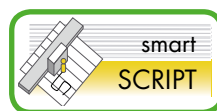
Combining marker strips with single WMB markers.



Alternative: Miniature WSB markers can be printed on a plotter.

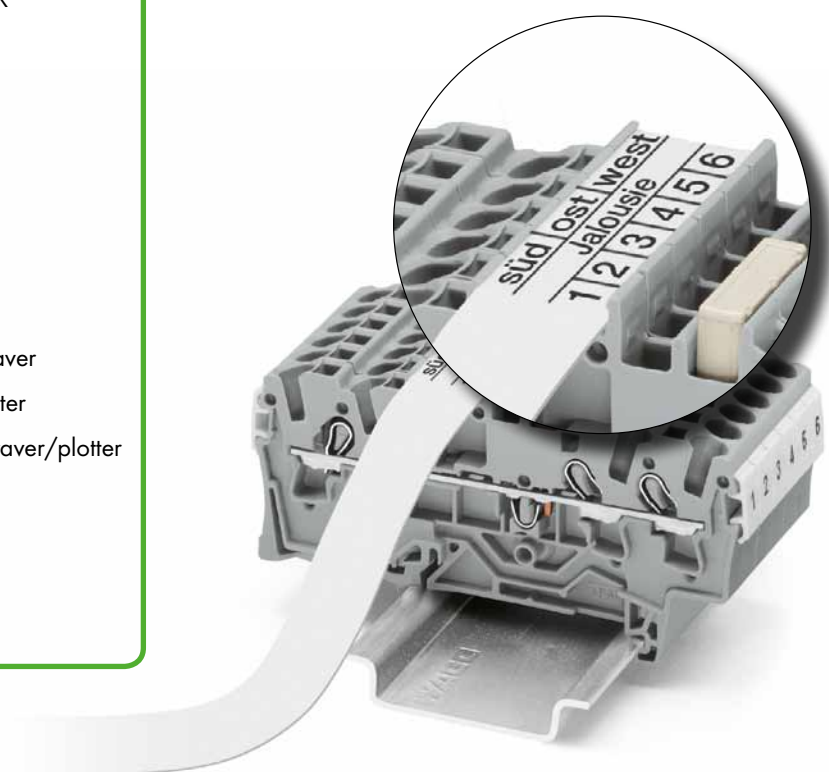


WMB Inline markers on continuous reel can be used in three positions: in the center and on each side.



smartSCRIPT

- Extensive import functions from CAE systems, MS Office and WAGO smartDESIGNER
- WYSIWYG marking
- Automatic plotter calibration
- Extensive library including markers
- Symbol library
- Text length checking
- Several languages available
- Output of East European characters
- Fully compatible with EG 450 Engraver
- Direct output to thermal transfer printer
- Creation of custom markers for engraver/plotter



Printing:

Marking strips (2009 Series) or WMB Inline markers on continuous reel are printed on a thermal transfer printer.

Three-Line Printing:

...for clear marking.
This makes it immediately clear which function corresponds with each terminal block.

Marking Accessories

WAGO Multi marking system WMB fits in miniature WSB and WSB marker slots for terminal blocks! 10 strips with 10 markers for each card 5 cards per packing unit	WAGO Multi marking system WMB fits in miniature WSB and WSB marker slots for terminal blocks! 10 strips with 10 markers for each card 5 cards per packing unit	WAGO Multi marking system WMB and WAGO miniature WSB Quick marking system 10 strips with 10 markers for each card 5 cards per packing unit
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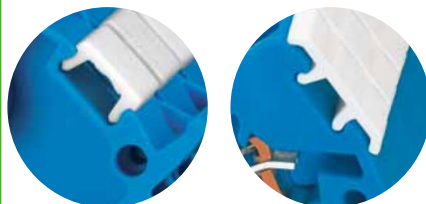
Marking	Item No.	Item No.	Item No.	Item No.	Item No.
		WMB Multi marking system			Miniature WSB
		for terminal block width:			for 264, 750, 769 Series
	5 mm	5-5.2 mm	4-4.2 mm	3.5 mm	
		stretchable	stretchable		
plain	793-501	793-5501	793-4501	793-3501	248-501
1 ... 10 (10x)	793-502	793-5502	793-4502	793-3502	248-502
11 ... 20 (10x)	793-503	793-5503	793-4503	793-3503	248-503
21 ... 30 (10x)	793-504	793-5504	793-4504	793-3504	248-504
31 ... 40 (10x)	793-505	793-5505	793-4505	793-3505	248-505
41 ... 50 (10x)	793-506	793-5506	793-4506	793-3506	248-506
1 ... 9 (10x)	793-565	793-5565	793-4565	793-3565	248-565
1 ... 50 (2x)	793-566	793-5566	793-4566	793-3566	248-566
51 ... 100 (2x)	793-507	793-5507	793-4507	793-3507	248-507
101 ... 150 (2x)	793-508	793-5508	793-4508	793-3508	248-508
151 ... 200 (2x)	793-509	793-5509	793-4509	793-3509	248-509
R, S, T, U, V, W, X, Y, Z, MP	793-544	793-5544	793-4544	793-3544	248-544
A, B, P, N, PE, PEN, L1, L2, L3, ⊕	793-545	793-5545	793-4545	793-3545	248-545
(in strips with 10 identical letters)					
for double-deck terminal blocks				All listed markings are also available on colored marker cards (black printing).	
1, 3, 5, ..., 99 and 2, 4, 6, ..., 100 (1x)	793-599	793-5599	793-4599	Item no. suffix for colored marker cards:	
				yellow	... /000-002
				red	... /000-005
				blue	... /000-006
				gray	... /000-007
				orange	... /000-012
				light green	... /000-017
				green	... /000-023
				violet	... /000-024
for triple-deck terminal blocks					
1, 4, 7, ..., 88 and 2, 5, 8, ..., 89 and 3, 6, 9, ..., 90 and 91, 94, 97, ..., 99 (1x)	794-557	794-5557	-		

WMB marker slot



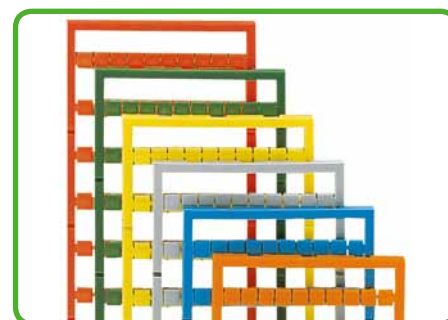
WMB

Miniature WSB marker slot



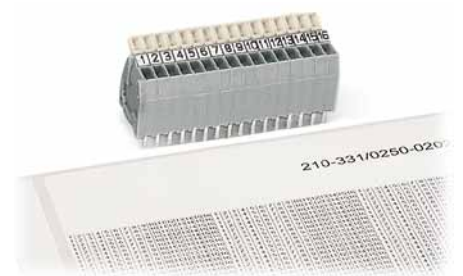
Miniature WSB

WMB



Marking Strips Marker Cards Computer Marking

Thermal Transfer Printers Plotters Accessories	WAGO Marker Cards for 260/261/262 Series, computer marked, 40 self-adhesive strips per card Strip height: 6 mm	WAGO Marker Cards, computer marked, for pin spacing 2.5 mm; 2.54 mm; 3.5 mm; 3.81 mm; 5 mm; 5.08 mm; 7.5 mm; 7.62 mm; 10 mm and 10.16 mm 100/80 self-adhesive strips per card
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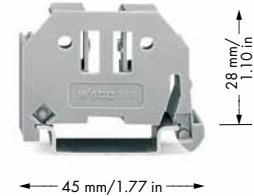
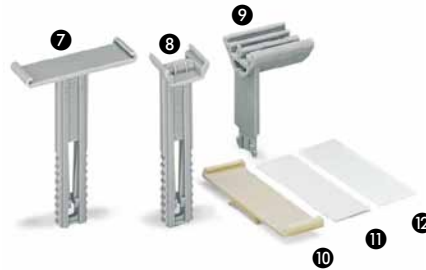
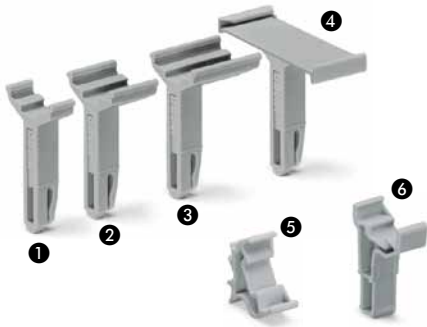


Description	Item No.	Marking	Item No.	Pack. Unit	Marking	Item No.	Pack. Unit
Marking strip, for TOPJOB®S, white, plain, 11 mm wide, 50 m coil	2009-110	for 2-conductor terminal strips (260 Series) 1 - 10 (120x)	210-333/0500-0002	1 card	suitable for terminal strips with 2.5 mm pin spacing, 2.3 mm strip height/100 strips 1 - 16 (400x)	210-331/0250-0202	1 card
		11 - 20 (120x)	210-333/0500-0003	1 card	17 - 32 (400x)	210-331/0250-0204	1 card
		21 - 30 (120x)	210-333/0500-0004	1 card	33 - 48 (400x)	210-331/0250-0206	1 card
		31 - 40 (120x)	210-333/0500-0005	1 card			
		41 - 50 (120x)	210-333/0500-0006	1 card	2.54 mm pin spacing, 2.3 mm strip height/100 strips 1 - 16 (400x)	210-331/0254-0202	1 card
Marking strip, for 870, 869, 862, 270 Series white, plain, 7.5 mm wide, 50 m coil	709-178	for 4-conductor terminal strips (260 Series) 1 - 10 (80x)	210-333/0800-0002	1 card	17 - 32 (400x)	210-331/0254-0204	1 card
		11 - 20 (80x)	210-333/0800-0003	1 card	33 - 48 (400x)	210-331/0254-0206	1 card
		21 - 30 (80x)	210-333/0800-0004	1 card	3.5 mm pin spacing, 3 mm strip height/80 strips 1 - 16 (240x)	210-332/0350-0202	1 card
		31 - 40 (80x)	210-333/0800-0005	1 card	17 - 32 (240x)	210-332/0350-0204	1 card
		41 - 50 (80x)	210-333/0800-0006	1 card	33 - 48 (240x)	210-332/0350-0206	1 card
		for 2-conductor terminal strips (261 Series) 1 - 12 (80x)	210-333/0600-0103	1 card	3.81 mm pin spacing, 3 mm strip height/80 strips 1 - 16 (160x)	210-332/0381-0202	1 card
		13 - 24 (80x)	210-333/0600-0104	1 card	17 - 32 (160x)	210-332/0381-0204	1 card
WMB Inline, 5 mm pitch, stretchable 5 - 5.2 mm, on roll		25 - 36 (80x)	210-333/0600-0105	1 card	33 - 48 (160x)	210-332/0381-0206	1 card
		37 - 48 (80x)	210-333/0600-0106	1 card	5 mm pin spacing, 3 mm strip height/80 strips 1 - 16 (160x)	210-332/0500-0202	1 card
		for 4-conductor terminal strips (261 Series) 1 - 16 (40x)	210-333/1000-0202	1 card	17 - 32 (160x)	210-332/0500-0204	1 card
white, 1,500 pcs	2009-115	17 - 32 (40x)	210-333/1000-0204	1 card	33 - 48 (160x)	210-332/0500-0206	1 card
white, 8,000 pcs	2009-135	33 - 48 (40x)	210-333/1000-0206	1 card	5.08 mm pin spacing, 3 mm strip height/80 strips 1 - 16 (160x)	210-332/0508-0202	1 card
		for 2-conductor terminal strips (262 Series) 1 - 20 (40x)	210-333/0700-0108	1 card	17 - 32 (160x)	210-332/0508-0204	1 card
		21 - 40 (40x)	210-333/0700-0109	1 card	33 - 48 (160x)	210-332/0508-0206	1 card
		41 - 60 (40x)	210-333/0700-0109	1 card	7.5 mm pin spacing, 3 mm strip height/80 strips 1 - 20 (80x)	210-332/0750-0020	1 card
		for 4-conductor terminal strips (262 Series) 1 - 12 (40x)	210-333/1200-0103	1 card	7.62 mm pin spacing, 3 mm strip height/80 strips 1 - 20 (80x)	210-332/0762-0020	1 card
		13 - 24 (40x)	210-333/1200-0104	1 card	10 mm pin spacing, 3 mm strip height/80 strips 1 - 16 (80x)	210-332/1000-0202	1 card
		25 - 36 (40x)	210-333/1200-0105	1 card	17 - 32 (80x)	210-332/1000-0204	1 card
		37 - 48 (40x)	210-333/1200-0106	1 card	33 - 48 (80x)	210-332/1000-0206	1 card
		Self-adhesive marking strips on DIN A4 cards, plain, 182 mm long, selectable pin spacing			10.16 mm pin spacing, 3 mm strip height/80 strips 1 - 16 (80x)	210-332/1016-0202	1 card
		2.3 mm strip height/100 strips	210-331		17 - 32 (80x)	210-332/1016-0204	1 card
		3 mm strip height/80 strips	210-332		33 - 48 (80x)	210-332/1016-0206	1 card
		5 mm strip height/48 strips	210-334				
		6 mm strip height/40 strips	210-333				
		9 mm strip height/40 strips	210-335				

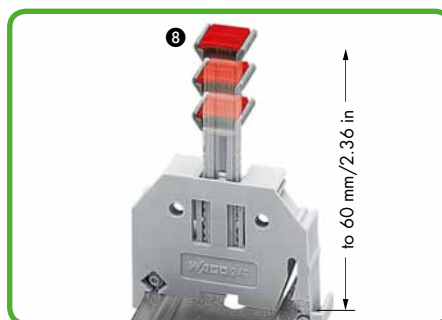


Group Marker Carriers End Stops

TOPJOB®S Group Marker Carriers	Group Marker Carriers	Screwless End Stops for DIN 35 Rail
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
TOPJOB®S group marker carrier, snap-on type for jumper slot, for WMB Multi marking system, WMB Inline and marking strips		Height-adjustable group marker carrier, for 249-116 and 249-117 end stops, for 1 marker or self-adhesive label and transparent protec- tion covers		Screwless end stop, for DIN 35 rail 6 mm wide	249-116 100 (4x25)
5 mm wide	2009-191 ① 50 (2x25)	10 mm wide	249-119 ⑦ 50 (2x25)	Screwless end stop, for DIN 35 rail 10 mm wide	249-117 50 (2x25)
10 mm wide	2009-192 ② 50 (2x25)	6 mm wide	249-120 ⑦ 50 (2x25)		
15 mm wide	2009-193 ③ 50 (2x25)	for 2 WSB Quick markers each or 1 x marking strip (2009-110)	249-118 ⑧ 100 (4x25)		
TOPJOB®S group marker carrier snap-on type for jumper slot, for marking strips		Group marker carrier, fits into jumper slot of rail- mounted terminal blocks, for up to 3 WMB markers			
10 mm wide	2009-196 ④ 50 (2x25)	15 mm wide	209-140 ⑨ 50		
Marking adapter, for lateral marker slots		Group marker carrier, snaps into plastic end stop			
5 mm wide	2009-198 ⑤ 200 (8x25)	10 mm wide	209-112 ⑩ 50		
Marking adapter, for jumper slots of 2002 Series		Marker card, from white cardboard, for self-marking, 100 markers per sheet	209-113 ⑪ 1 sheet		
5 mm wide	2002-161 ⑥ 100 (4x25)	Sticker, for self-marking, 100 markers per sheet	210-345 1 sheet		
		Protection cover, transparent	209-114 ⑫ 50		



Conductor Marking for Conductors from 0.25 mm² to 16 mm² (AWG 22–6) 211 Series

Marking sleeve, halogen-free
for one marker, to be fitted
prior to conductor termination

Marking sleeve, halogen-free
for one marker, to be fitted
prior to conductor termination

Marking sleeve, halogen-free,
for cable tie,
for one marker,
can also be fitted after install



Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Marking sleeve, 12 mm long		Marking sleeve, 23 mm long		Marking sleeve, 23 mm long	
for conductor diameter 1.6 – 3.2 mm or 0.25 mm ² – 1.5 mm ²		for conductor diameter 1.6 – 3.2 mm or 0.25 mm ² – 1.5 mm ²		for conductors 10 mm ² (AWG 8) and larger for 6 mm Ø cables and larger	
211-112	2000	211-122	2000	211-129	1000
for conductor diameter 2.2 – 4.5 mm or 0.5 mm ² – 4 mm ²		for conductor diameter 2.2 – 4.5 mm or 0.5 mm ² – 4 mm ²			
211-113	2000	211-123	2000		
for conductor diameter 3.7 – 5.9 mm or 2.5 mm ² – 6 mm ²		for conductor diameter 3.7 – 5.9 mm or 2.5 mm ² – 6 mm ²			
211-114	1000	211-124	1000		
for conductor diameter 5.5 – 10 mm or 10 mm ² – 25 mm ²		for conductor diameter 5.5 – 10 mm or 10 mm ² – 25 mm ²			
211-115	1000	211-125	1000		
Accessories, 211 Series					
Markers on roll, for thermal transfer printer, 3000 cards per roll; 12 mm long white	211-111	1	Markers on roll, for thermal transfer printer, 3000 cards per roll; 23 mm long white	211-121	1
Marker card, for plotter, 57 markers per card, 12 mm long white	211-110	1	Marker card, for plotter, 34 markers per card, 23 mm long white	211-120	1
Carrier plate for marker cards for IP 350 plotter	258-370	1	Carrier plate for marker cards for IP 350 plotter	258-370	1
Applications					



Slide the plotted or printed marker into the marking sleeve receptacle.
Exchanging the marker is also possible after the conductor has been terminated.



Conductor marking using marking sleeves.



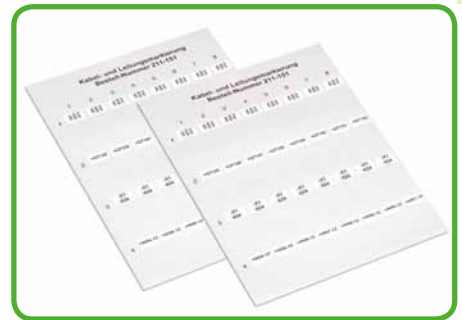
Compress the sleeve and slide it onto the conductor to be marked.



Attach the 211-129 marking sleeve to individual cables or conductors via cable ties.

Conductor Marking for Thread-On Mounting Self-Laminating Labels for Cable Marking 211 Series

Conductor Marking for Thread-On Mounting	Self-laminating labels for cable marking on DIN A4 sheets or roll Cable diameter: approx. 3 – 14 mm
--	--



Self-laminating labels are available on A4 sheets for laser printers (plotters) or are supplied on roll for thermal transfer printers.

Item No.	Pack. Unit	Item No.	Pack. Unit
Conductor markers for thread-on mounting, 2,000 markers/roll		Labels on DIN A4 sheets, for laser printer	
for conductors 0.75–1.5 mm ² (AWG 20–16)		Marking surface: "S" = 9 mm x "B" = 17 mm "L" = 35 mm	
211-161	1000	for max. 8 mm cable diameter 70 labels per sheet	
for conductors 2.5–6 mm ² (AWG 14–10)		211-150	20
211-162	1000	Marking surface: "S" = 13 mm x "B" = 21 mm "L" = 56 mm	
		for max. 14 mm cable diameter 32 labels per sheet	
		211-151	25
		Labels on roll for thermal transfer printer	
		Marking surface: "S" = 8 mm x "B" = 18 mm "L" = 35 mm	
		for max. 9 mm cable diameter 9,000 labels per roll	
		211-155	1
		Marking surface: "S" = 13 mm x "B" = 23 mm "L" = 51 mm	
		for max. 12 mm cable diameter 5,000 labels per roll	
		211-156	1



Remove the printed label from the sheet or roll.

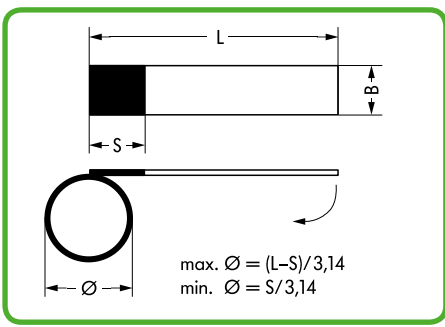


Wrap the label around the conductor or cable.

Application and Dimensions



Conductor Marking for Thread-On Mounting



Dimensions of self-laminating label (in mm)



The transparent laminate protects the marking.




Transparent Covers for Rail-Mounted Terminal Blocks, Usable with Lead Seals Collective Carriers for Jumpers

<p>Cover and cover carrier, type 1, suitable for: 279 to 282 Series rail-mounted terminal blocks 264 Series miniature rail-mounted terminal blocks</p>	<p>Cover and cover carrier, type 2, suitable for: 283 to 285 Series rail-mounted terminal blocks 280/281 Series double- and triple-deck term. blocks 280 Series sensor/actuator terminal blocks 282 Series disc./test term. blocks for transformer circuits</p>	<p>Switchgear cabinet outlet Switchgear cabinet drawer Collective carrier for adjacent jumpers</p>
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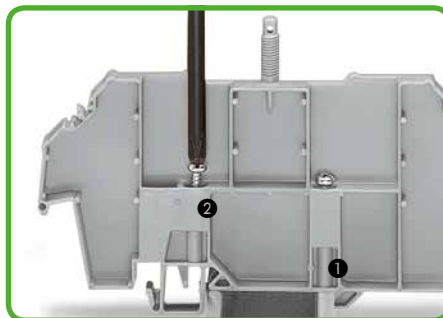
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<p>Cover, type 1, 1 m long, for cover carrier (type 1), transparent 709-153 10</p>			<p>Cover, type 2, 1 m long, for cover carrier (type 2), transparent 709-154 1</p>			<p>Switchgear cabinet outlet, DIN 35-rail mount SCHUKO outlet, with green operating LED 709-581 1</p>		
						<p>Switchgear cabinet drawer, DIN 35-rail mount drawer 709-591 1</p>		



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<p>Cover carrier, type 1, incl. mounting/securing screws and knurled nuts gray 709-167 10</p>			<p>Cover carrier, type 2, incl. mounting/securing screws and knurled nuts gray 709-168 10</p>			<p>Collective carrier for adjacent jumpers gray 209-100 50 (2x25) Suitable for 279, 280, 281, 282 and 284 Series adjacent jumpers and 215 Series banana plugs</p>		
Accessories, 709 Series								
<p>Spare mounting/securing screw  209-196 200 (8x25)</p>			<p>Marking card with 6 marking strips, plain  709-183 1</p>					
<p>Spare knurled nut  210-549 100 (4x25)</p>								



Application example:
Cover (type 1) with safety warning and lead seals.



① Mounting screw – prevents the cover carrier from being moved on the rail.
② Securing screw – prevents lifting off from rail.



The switchgear cabinet drawer is the ideal place to store small parts that are not commonly used (e.g., instructions, test plug adapters, jumpers, spare fuses).

Carrier Rails Angled Support Brackets

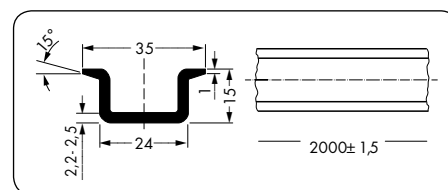
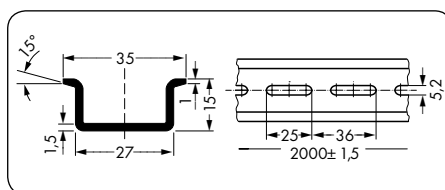
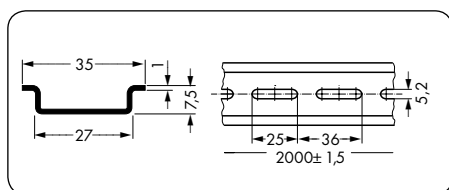
Carrier rail 35 x 7.5 mm,
1 mm thick,
acc. to IEC 60715,
steel, zinc-plated and yellow chromated
I_N 76 A (reference length of 1 m)

Carrier rail 35 x 15 mm,
1.5 mm thick,
acc. to EN 60715,
steel, zinc-plated and yellow chromated
I_N 125 A (reference length of 1 m)

Carrier rail 35 x 15 mm,
2.3 mm thick,
acc. to EN 60715,
steel, zinc-plated and yellow chromated
I_N 125 A (reference length of 1 m)



Length	Item No.	Pack. Unit	Length	Item No.	Pack. Unit	Length	Item No.	Pack. Unit
Steel carrier rail 35 x 7.5 mm, 1 mm thick, unslotted 2 m long	210-113	10	Steel carrier rail 35 x 15 mm, 1.5 mm thick, unslotted 2 m	210-114	10	Steel carrier rail 35 x 15 mm, 2.3 mm thick, unslotted 2 m	210-118	10
Steel carrier rail 35 x 7.5 mm, 1 mm thick, slotted 2 m long	210-112	10	Steel rail 35 x 15 mm, 1.5 mm thick, slotted 2 m	210-197	10			



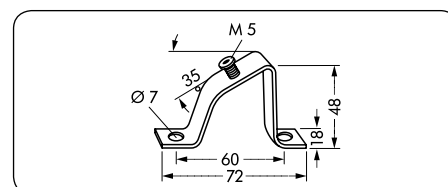
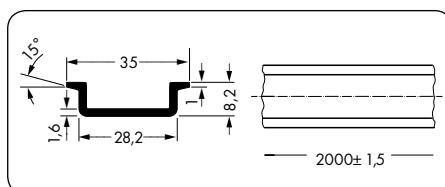
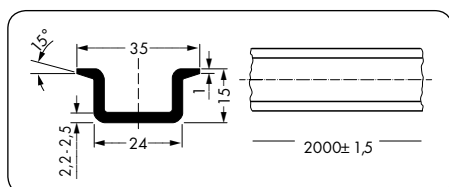
Carrier rail 35 x 15 mm,
2.3 mm thick,
acc. to IEC 60715,
copper, unplated
IN 309 A (reference length of 1 m)

Carrier rail 35 x 7.5 mm,
1.5 mm thick,
acc. to IEC 60715,
aluminum, unplated
I_N 76 A (reference length of 1 m)

Angled support bracket,
steel, zinc-plated



Length	Item No.	Pack. Unit	Length	Item No.	Pack. Unit	Item No.	Pack. Unit
Copper carrier rail 35 x 15 mm, 2.3 mm thick, unslotted 2 m long	210-198	10	Aluminum carrier rail 35 x 7.5 mm, 1.5 mm thick, unslotted 2 m long	210-196	10	Angled support bracket, without screw 210-148	10
						M 5 x 8 screw 210-149	100 (5x20)



Operating Tools

Operating tool with partially insulated shaft, ideal for operating terminal blocks	Insulated multipole operating tools for front-entry terminal blocks	Operating tool (DIN 5264), ideal for terminal blocks with CAGE CLAMP®
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit				
Operating tool with partially insulated shaft, type 1, (2.5 x 0.4) mm blade, suitable for 218, 233, 234, 235, 250, 253, 279, 726, 727, 733, 734, 735, 750, 752, 753, 770, 2000, 2001 Series	210-719	1	Operating tool, insulated, suitable for 279 Series	1-pole 2-pole 3-pole 10-pole	209-129 279-432 279-433 279-440	1 1 1 1	Operating tool, (2.5 x 0.4) mm blade, suitable for 218, 233, 234, 235, 250, 253, 279, 726, 727, 733, 734, 735, 750, 752, 753, 770, 2000, 2001, 2734 Series	210-647	1
Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade, suitable for 231, 232, 236, 255, 256, 257, 260, 261, 262, 264, 270, 280, 281, 290, 721, 722, 736, 737, 738, 742, 745, 775, 776, 777, 769, 780, 781, 804, 869, 870, 880, 2002, 2003, 2004, 2005, 2022 Series	210-720	1	suitable for 264*, 280, 281** Series	1-pole 2-pole 3-pole 4-pole 5-pole 6-pole 7-pole 8-pole 9-pole 10-pole	209-130 280-432 280-433 280-434 280-435 280-436 280-437 280-438 280-439 280-440	1 1 1 1 1 1 1 1 1 1	Operating tool, angled, (2.5 x 0.4) mm blade, suitable for 279, 2000, 2001, 2020 Series	210-648	1
Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade, suitable for 282, 283, 284, 285, 745, 782, 783, 784, 785, 2006, 2010, 2016 Series	210-721	1	suitable for 281 Series	5-pole	281-440	1	Operating tool, (3.5 x 0.5) mm blade, suitable for 231, 232, 236, 255, 256, 257, 264, 280, 281, 721, 722, 736, 737, 738, 742, 745, 804, 869, 2002, 2004 Series	210-657	1
Set of operating tools with partially insulated shafts, type 1, (2.5 x 0.4) mm blade, type 2, (3.5 x 0.5) mm blade, type 3, (5.5 x 0.8) mm blade	210-722	1	*only 1- and 2-pole **only up to 3-pole				Operating tool, angled, (3.5 x 0.5) mm blade, suitable for 231, 232, 236, 255, 256, 257, 260, 261, 262, 264, 280, 281, 721, 722, 736, 737, 738, 742, 745, 804, 869, 870, 880, 2002, 2004 Series	210-658	1

Application Notes



Set of operating tools in a box.



Commoning front-entry disconnect terminal blocks via comb-style jumper bar using a 10-pole operating tool.





The above-listed operating tools with blade dimensions to DIN 5264 are ideal for operating 280 Series front-entry sensor and actuator terminal blocks.

Operating Tools Test and Measurement Tools

Operating tool for TOPJOB®S installation terminal blocks	Voltage testers Profi LCD+ Profi LED+	"Multi-Tester" digital multimeter "Amp-Tester" clamp meter
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Operating tool, (2.5 x 0.4) mm and (3.5 x 0.5) mm blades, for TOPJOB®S installation terminal blocks		Profi LCD+, 2-pole voltage tester with LCD display, 4 mm Ø removable test probes, measuring range of 6 - 1000 V AC/DC, IP65 protection class, resistance measurement up to 2000 Ω		Multi-Tester, digital multimeter with non-contact voltage tester, with bag, measures up to 600 V AC/DC and 10 A AC/DC, resistance measurement up to 20 MΩ, acoustical continuity test, diode test, data hold function	
2009-309	1	206-807	1	206-810	1
Operating tool, (3.5 x 0.5) mm and (5.5 x 0.8) mm blades, for TOPJOB®S installation terminal blocks		Profi LED+, 2-pole voltage tester with LED display, 4 mm Ø removable test probes, measuring range of 6 - 1000 V AC/DC, IP65 protection class, resistance measurement up to 2000 Ω		Amp-Tester, digital clamp meter, true RMS measurement, with bag, measuring range of 0.01 - 200 A AC/DC, IP44 protection class, data hold function, max. conductor size, 21 mm Ø, resolution of 0.01 A at 40 A, resolution of 0.1 A at 200 A	
2009-310	1	206-806	1	206-815	1
Accessories					
		Spare test probes, 4 mm Ø (2 pcs)		Replacement test leads, for Multi-Tester, red/black	
		 206-808	1	 206-811	1
Application Notes					



Voltage testing in switchgear cabinet.








Current measurement in switchgear cabinet.

Cable and Wire Strippers 206 Series

Cable stripper	Cable stripper	<p>"Quickstrip 10" wire stripper 0.02 – 10 mm² "f-st" (6 mm² "sol.")</p> <p>"Quickstrip 16" wire stripper 4 – 16 mm² Wire cutter up to 10 mm² "f-st" (1.5 mm² "sol.")</p>
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Cable stripper, for round cables with an outer diameter from 2.5 mm to 11 mm		Cable stripper, for round cables with an outer diameter from 4.5 mm to 45 mm		"Quickstrip 10" wire stripper	
206-171	1	206-174	1	206-124	1
Accessories, Item-Specific		Accessories, Item-Specific		Accessories, Item-Specific	
Replacement blade, for 2.5 mm to 11 mm Ø		Replacement blade, for 4.5 mm to 45 mm Ø		"Standard" blade cassette	
 206-170	1	 206-173	1	 0.02 mm ² to 10 mm ²	1
<ul style="list-style-type: none"> - 10-position adjustment wheel ensures repeatable stripping results - Fine adjustability via 10-position blade cutting depth adjustment - Strips the sheath from multi-core and fiber optic cables up to 11 mm diameter - Safe and easy to use through closed stripping cavity. 		<ul style="list-style-type: none"> - Safe and easy to use: Three locking positions for circular, longitudinal and spiral cuts - High cable stripping capacity of up to 45 mm diameter - Well balanced, ergonomic design features rests for thumb, index and pinky fingers to ease raising of the cable retention hook - Replacement blades can be stored within the tool body. 		<ul style="list-style-type: none"> "V" blade cassette 0.02 mm² to 4 mm² for PTFE  206-127 1 	
				<ul style="list-style-type: none"> "Standard" blade cassette 4 mm² to 16 mm²  206-128 1 	



Stripping a wire via Quickstrip 16.



Cutting a wire via Quickstrip 16.

Cable Cutter and TESTBOY, 206 Series Banana Plugs, 215 Series

Cable cutter	TESTBOY	Banana plugs for 4 mm Ø sockets 0.08 - 2.5 mm² AWG 28 - 14 42 V I_N 20 A  9 - 11 mm / 0.39 in
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Cable cutter, for copper and aluminum cables up to 35 mm ² /AWG 2		TESTBOY, non-contact voltage tester, with integrated flashlight, voltage range of 12 - 1000 VAC		Banana plugs, for 4 mm Ø sockets, color mixed, orange, blue, yellow, white, black	
206-118	10(10x1)	206-804	1	215-111	50
				Banana plugs, for 4 mm Ø sockets, orange	215-211 50
				red	215-212 50
				black	215-311 50
				green	215-411 50
				yellow	215-511 50
				blue	215-711 50
				gray	215-811 50
				green-yellow	215-911 50

Application Notes



Cutting a cable.



A device that will reliably detect AC voltage in cables, sockets, fuses, switches, outlets, etc.



Conductor termination:
Press button fully and insert stripped conductor into square entry and release.

The WAGO TESTBOY detects:

- Live conductors
- Line breaks
- Blown fuses (in cartridges or holders)
- Defective switches
- Defective lamps in strings of lights

Crimping Tools 206 Series

"Variocrimp 4" crimping tool 0.25 - 4 mm ² / AWG 22 - 12	"Variocrimp 16" crimping tool 6 - 16 mm ² / AWG 10 - 6	Crimping tool 25 10 mm ² , 16 mm ² and 25 mm ² AWG 8, AWG 6 and AWG 4
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
"Variocrimp 4" crimping tool, for insulated and uninsulated ferrules, crimping range of 0.25 - 4 mm ²		"Variocrimp 16" crimping tool, for insulated and uninsulated ferrules, crimping range of 6 - 16 mm ²		Crimping tool 25, for insulated and uninsulated ferrules, crimping range of 10 mm ² , 16 mm ² and 25 mm ²	
206-204	1	206-216	1	206-225	1

Application Notes



Introduce ferruled conductor into crimping station.
Squeeze handles until ratchet mechanism is released.



Only for Variocrimp 16:
Adjust conductor cross section with opened tool.



Insert ferruled conductor into crimping station.

- With "Variocrimp 4," the built-in crimping pressure control automatically adjusts force to the conductor cross section used. With "Variocrimp 16," it is necessary to select the wire gauge on the tool before crimping.
- Only one crimping station is needed to handle the specified conductor size range.
- Uniform, compact crimping on all four sides for high conductor retention.
- No need to center the conductor into the ferrule.
- Conductor and ferrule insertion possible from both sides (for left- and right-handers).
- Built-in ratchet mechanism ensures gas-tight crimp connection.
- Crimping tools open automatically after crimping operation is complete.
- Ergonomical handles.

What is a "gas-tight" connection

In a gas-tight connection, the conductor and the ferrule are compressed together, eliminating all spaces. Under normal atmospheric conditions, neither a liquid nor a gaseous medium can penetrate into the crimped connection. Oxidation between crimped single conductors is prevented, ruling out nearly any increase in the crimped connection resistance. In some exceptional cases, minute, isolated spaces may be present. These can be considered to be closed off on account of the twisted wires, however.

Inadequate crimping can allow the conductor to be pulled out of the connection. Hollow spaces also remain in which oxidation can form. Oxidation leads to an increase in contact resistance.

Crimping Tool, 206 Series Ferrules, 216 Series

Crimping tool 50
35 mm² and 50 mm²
AWG 2 and AWG 1

Insulated ferrules



Item No.	Pack. Unit	Sleeve for mm ²	AWG	Color	Strip Length L mm	L1	D mm	D1	D2	Item No.	Pack. Unit		
Crimping tool 50, for insulated and uninsulated ferrules, crimping range of 35 mm ² and 50 mm ²	1	0,25	24	yellow	7,5	10,5	6,0	2,5	2,0	0,8	216-321	1000	
		0,25	24	yellow	9,5	12,5	8,0	2,5	2,0	0,8	216-301	1000	
206-250	1	0,35	24	green	7,5	10,5	6,0	2,5	2,0	0,8	216-322	1000	
		0,34	24	green	9,5	12,5	8,0	2,5	2,0	0,8	216-302	1000	
		0,5	22	white	7,5	11,5	6,0	3,0	2,5	1,1	216-221	1000	
		0,5	22	white	9,5	13,5	8,0	3,0	2,5	1,1	216-201	1000	
		0,75	20	gray	8,0	12,0	6,0	3,3	2,8	1,3	216-222	1000	
		0,75	20	gray	10,0	14,0	8,0	3,3	2,8	1,3	216-202	1000	
		1,0	18	red	8,0	12,0	6,0	3,6	3,0	1,5	216-223	1000	
		1,0	18	red	10,0	14,0	8,0	3,6	3,0	1,5	216-203	1000	
		1,5	16	black	8,0	12,0	6,0	4,0	3,4	1,8	216-224	1000	
		1,5	16	black	10,0	14,0	8,0	4,0	3,4	1,8	216-204	1000	
Application Notes		2,08	14	yellow	10,0	14,5	8,0	4,2	3,6	2,05	216-205	1000	
		2,5	14	blue	10,0	15,0	8,0	4,8	4,2	2,3	216-206	1000	
		4,0	12	gray	12,0	16,8	9,5	5,4	4,8	2,9	216-207	1000	
		6,0	10	yellow	14,0	20,0	12,0	6,8	6,2	3,5	216-208	100	
		10,0	8	red	16,0	21,0	12,0	8,1	7,5	4,6	216-209	100	
		16,0	6	blue	23,0	28,0	18,0	9,6	8,8	5,8	216-210	100	
	Insulated ferrules, extra long, for TOBJOB®S terminal blocks												
			0,5	22	white	12,0	16,0	10,0	3,1	2,6	1,0	216-241	1000
			0,75	20	gray	12,0	16,0	10,0	3,3	2,8	1,2	216-242	1000
			0,75	20	gray	14,0	18,0	12,0	3,3	2,8	1,2	216-262	1000
		1,0	18	red	12,0	16,0	10,0	3,5	3,0	1,4	216-243	1000	
		1,0	18	red	14,0	18,0	12,0	3,5	3,0	1,4	216-263	1000	
		1,5	16	black	12,0	16,0	10,0	4,0	3,5	1,7	216-244	1000	
		1,5	16	black	14,0	18,0	12,0	4,0	3,5	1,7	216-264	1000	
		1,5	16	black	20,0	24,0	18,0	4,0	3,5	1,7	216-284	1000	
		2,5	14	blue	12,0	17,0	10,0	4,7	4,2	2,2	216-246	1000	
		2,5	14	blue	14,0	19,0	12,0	4,7	4,2	2,2	216-266	1000	
		2,5	14	blue	20,0	25,0	18,0	4,7	4,2	2,2	216-286	1000	
		4,0	12	gray	14,0	20,0	12,0	5,4	4,8	2,8	216-267	500	
		4,0	12	gray	20,0	26,0	18,0	5,4	4,8	2,8	216-287	500	
		6,0	10	yellow	14,0	20,0	12,0	6,9	6,3	3,5	216-208	500	
		6,0	10	yellow	20,0	26,0	18,0	6,9	6,3	3,5	216-288	500	
		10,0	8	red	20,0	28,0	18,0	8,4	7,6	4,5	216-289	500	
		16,0	6	blue	23,0	28,0	18,0	9,6	8,8	5,8	216-210	500	

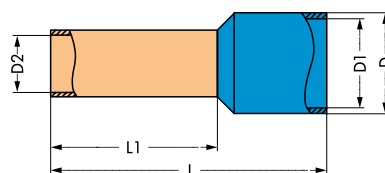


Squeeze handles until ratchet mechanism is released.

Elevated resistance is detrimental for signal transmission, as the signal flow is damped (weakened), and for power transmission, as power loss and, hence a temperature increase due to contact (risk of fire) can result.

Crimping tools with built-in ratchets are recommended, such as the **WAGO crimping tools**. These tools only open after the crimping process has been fully completed. Space-saving crimping from all four sides is ideal for spring clamp termination. Cross section data for ferruled conductors indicated for WAGO products is based on this crimping method.

Insulated ferrules



For letters with the corresponding dimensions, see table above.

Uninsulated ferrules

(see Full Line Catalog, Volume 1)



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International Certification Organizations – Overview

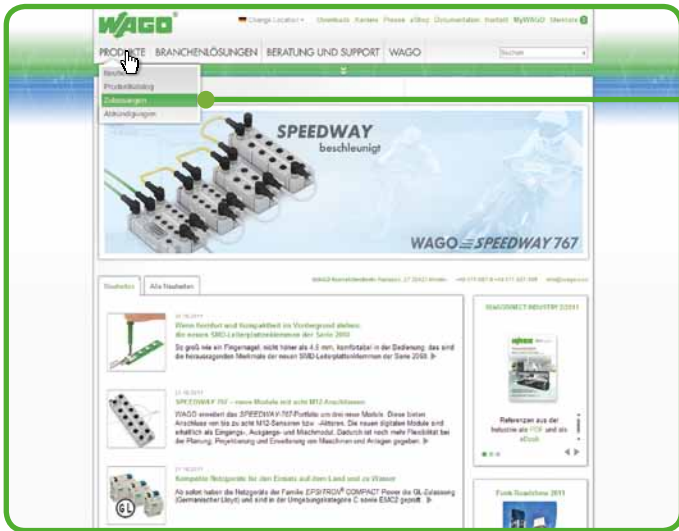
	Abbreviation for online search		Abbreviation for online search
 Underwriters Laboratories USA http://www.ul.com	UL	 Danmarks Elektriske Materielkontrol Denmark http://www.demko.dk	DEMKO
 Underwriters Laboratories USA http://www.ul.com	UL	CENELEC CERTIFICATION AGREEMENT  Danmarks Elektriske Materielkontrol Denmark http://www.cenelec.org	CCA App. No. with DK
 Underwriters Laboratories USA http://www.ul.com	cURus		
 Underwriters Laboratories USA http://www.ul.com	cULus	 SETI – FEMKO Sähkötarastuskeskus Elinspektionscentralen Finland http://www.seti.fi	
 Canadian Standards Association Canada http://www.csa.ca	CSA	 Sähkötarastuskeskus Elinspektionscentralen Finland http://www.fimko.com	FIMKO
 VDE Expert Report with Production Monitoring Federal Republic of Germany http://www.vde.de/vde/html/e/home.htm	VDE	SABS South African Bureau of Standards South Africa http://www.sabs.co.za	SABS
 VDE – Deutscher Verband für Elektrotechnik Germany http://www.vde.de		 RosTest Russia http://www.rostest.ru	ROSTEST
VDE VDE – Test Report Germany		 Departamentul Moldovastandard Moldavia http://www.moldova.md/ro/government/oll/ D_STAND/en/strcent2.htm	CSM
 Österreichischer Verband für Elektrotechnik Austria http://www.ove.at	ÖVE	 Certificate of Registration Great Britain http://www.astacertification.com	ASTA
 Schweizerischer Elektrotechnischer Verein Switzerland http://www.sev.ch/	SEV	 Rheinisch-Westfälischer Technischer Überwachungsverein e.V. Germany http://www.rwtuv.de	RWTÜV
 N.V. tot Keuring van Elektrotechnische Materialen Netherlands http://www.kema.nl	KEMA	 Elektrotechnik ý v ýskumn ý a projektov ý ústav Czech Republic http://www.ezu.cz	EZU
CENELEC CERTIFICATION AGREEMENT  N.V. tot Keuring van Elektrotechnische Materialen Netherlands http://www.cenelec.org	CCA App. No. with NL	 Stowarzyszenie Elektrykow Polskich Poland http://www.bbj.pl	BBJ
 Norges Elektriske Materialkontroll Norway http://express.nemko.com	NEMKO	 Stowarzyszenie Elektrykow Polskich Poland http://www.sep.com.pl	SEP
 Svenska Elektriska Materielkontrollanstalten AB Sweden http://www.semko.com	SEMKO		

	Abbreviation for online search		Abbreviation for online search	
CNET Centre National d'Etudes des Télécommunications France http://www.lannion.cnet.fr	CNET	 Ex	Robbanásbiztos Villamos Berendezések Hungary http://www.bki.hu	BKI
LCIE Laboratoire Central des Industries Electriques France http://www.lcie.fr	LCIE	CB	CB – TEST CERTIFICATE India http://www.ul-europe.com	CB
 Fyzikálne Technick ý Zkusebn ý Ústav, Ostrava-Radvanice Czech Republic http://www.ftzu.cz	FTZU	CB	CB – TEST CERTIFICATE China http://www.ul-europe.com	CB
			UL-International Demko A/S Denmark http://www.ul-europe.com	ENEC
Shipbuilding Approvals			Ex approvals	
 Germanischer Lloyd Federal Republic of Germany http://www.gl-group.com	GL	PTB	Physikalisch Technische Bundesanstalt Germany Ex e IIEEx e II http://www.ptb.de	PTB
BV Bureau Veritas France http://www.bureauveritas.fr	BV		Underwriters Laboratories USA http://www.ul.com	cURus-EX
 Lloyd's Register of Shipping Great Britain http://www.lloydsregister.com	LR		N.V. tot Keuring van Elektrotechnische Materialien Netherlands http://www.kemaquality.com	KEMA-EX
 NV – Det Norske Veritas Norway http://www.dnv.com	DNV	GOSENERGO-Ex GOSENERGONADZOR Russia		GOSENERGO-EX
 Russian Maritime Register of Shipping CIS http://www.rs-head.spb.ru	RMR		Fyzikálne Technick ý Zkusebn ý Ústav, Ostrava-Radvanice Czech Republic http://www.ftzu.cz	FTZU
 Polski Rejestr Statków Poland http://www.prs.pl	PRS	 Ex	Robbanásbiztos Villamos Berendezések Hungary http://www.bki.hu	BKI-EX
 Korean Register of Shipping Korea http://www.krs.co.kr	KR			
ABS American Bureau of Shipping USA http://www.eagle.org	ABS			



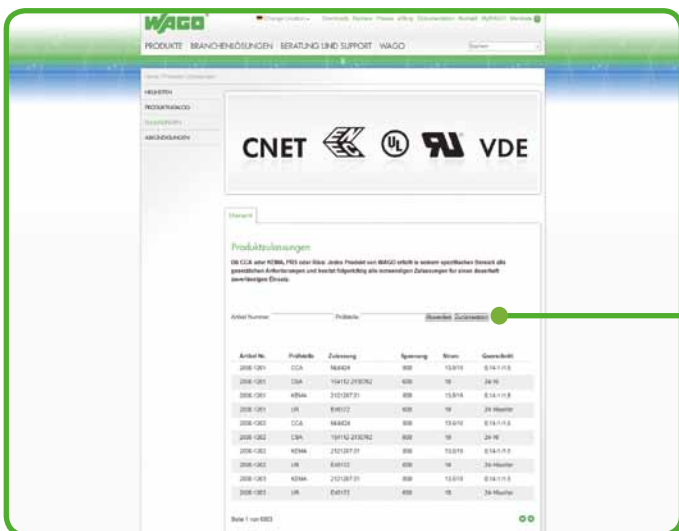
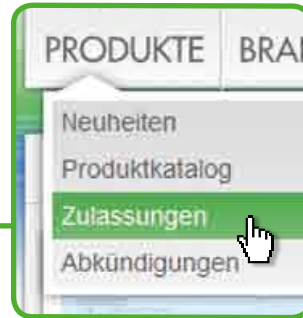
• 1. Select "Country" ①

e.g., Germany



• 2. Select "Products"

Select "Approvals"



• 3. "Search for Approvals"

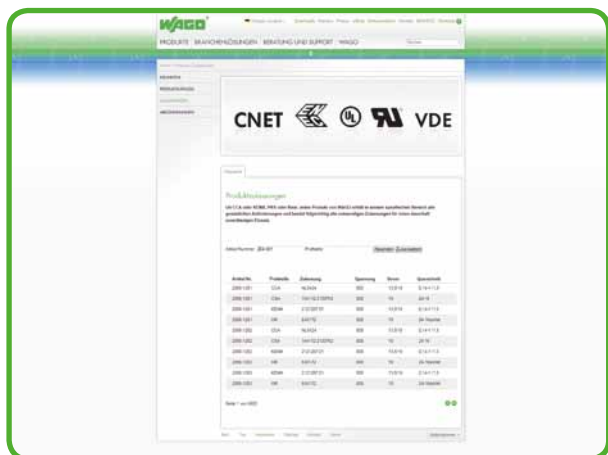
Here, you can search for approvals or items according to defined criteria.

Produktzulassungen

Ob CCA oder KEMA, PRS oder Rina: Jedes Produkt von WAGO erfüllt in seinem spezifischen Bereich alle gesetzlichen Anforderungen und besitzt folgerichtig alle notwendigen Zulassungen für einen dauerhaft zuverlässigen Einsatz.

Artikel Nummer: Prüftabelle:

① Step 1 only required when country is not automatically recognized.



4. Input options

- a) Item no.,
e.g., 264-301
- b) Certification agency,
e.g., "UL"
- c) Certification agency and
item no. range,
e.g., "280 - 6" and "UR"

Artikel Nummer: 264-301 Prüfstelle: Absenden Zurücksetzen

Ihre Abfrage lieferte folgende Ergebnisse:

Artikel Nr.	Prüfstelle	Zulassung	Spannung	Strom	Querschnitt
264-301	ABS	04-HG4761741-PDA	800	24	2,5
264-301	BY	07436/CO			0,08-2,5
264-301	CCA	NL6611	800	24	2,5
264-301	CSA	18677-23	600	20	26-12
264-301	DINV	E-9215	800	24	2,5
264-301	GL	17296-00HH	800	24	2,5
264-301	KR	HMB05880-EL002	800	24	
264-301	LR	92/20242(E5)	800	24	2,5
264-301	RMR	11130002	800	24	2,5
264-301	UR	E45172	300	20	28-12

Search results a)
Item no.:

All approvals related to that product are displayed.

Artikel Nummer: Prüfstelle: UL Absenden Zurücksetzen

Ihre Abfrage lieferte folgende Ergebnisse:

Artikel Nr.	Prüfstelle	Zulassung	Spannung	Strom	Querschnitt
224-101	UL listed	E69654	300	20	14-12"s/20-16"s/str"
224-104	UL listed	E69654	300	20	14-12"s/20-16"s/str"
224-112	UL listed	E69654	300	20	18-16"s/20-16"s/str"
224-114	UL listed	E69654	300	20	18-16"s/20-16"s/str"
224-201	UL listed	E69654	300	20	20-16
273-100	UL listed	E69654	600	20	20-16"s
273-101	UL listed	E69654	600	20	20-16"s
273-102	UL listed	E69654	600	20	18-12"s
273-103	UL listed	E69654	600	20	16-14"s
273-104	UL listed	E69654	600	20	18-12"s

Search results b)
Certification agency:

All products approved by that agency are displayed.

Artikel Nummer: 280 Prüfstelle: UR Absenden Zurücksetzen

Ihre Abfrage lieferte folgende Ergebnisse:

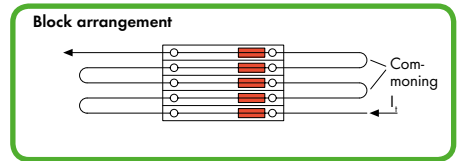
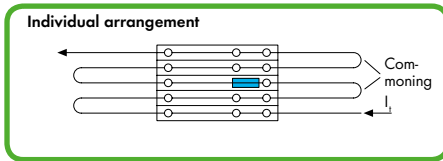
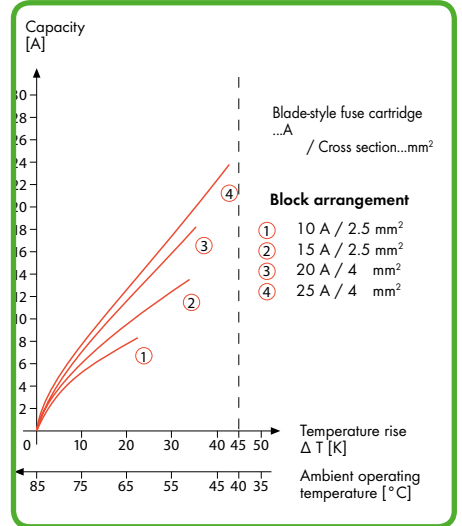
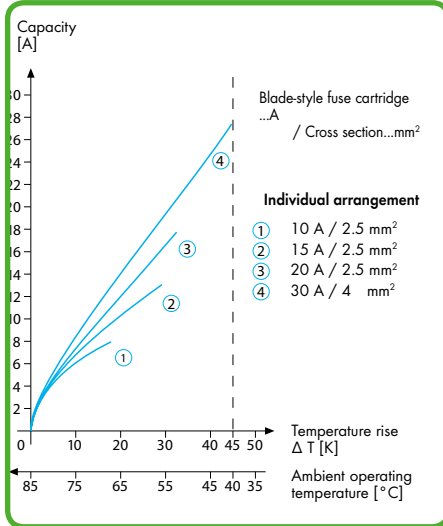
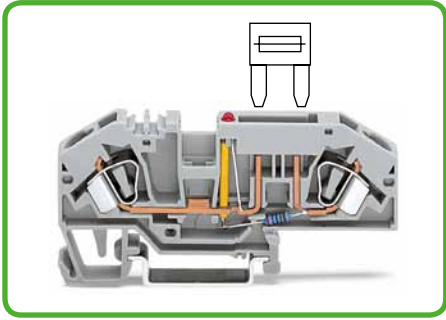
Artikel Nr.	Prüfstelle	Zulassung	Spannung	Strom	Querschnitt
280-101	UR	E45172	600	20	28-12
280-104	UR	E45172	600	20	28-12
280-107	UR	E45172			28-12
280-510	UR	E45172	300	15	28-12
280-513	UR	E45172	300	15	28-12
280-515	UR	E45172	300	15	28-12
280-519	UR	E45172	300	15	28-12
280-520	UR	E45172	300	15	28-12
280-521	UR	E45172	300	15	28-12
280-522	UR	E45172	300	15	28-12

Search results c)
Certification agency and item no.:

The whole range of products approved by that agency are displayed.

Current-Carrying Capacity Curves Fuse Terminal Blocks for Mini-Automotive Blade-Style Fuses

Higher ambient temperatures (T_{amb}) place additional strain on fuse cartridges. Therefore, the reduction of the rated current according to the following diagrams and tables (see factor F_T) should be taken into account in such applications:

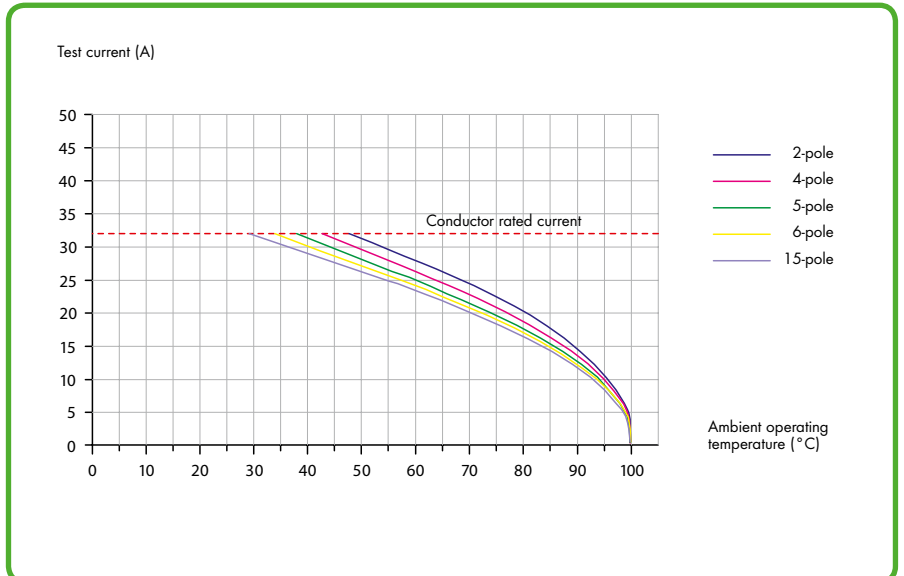


Current-Carrying Capacity Curves for 1-Conductor/1-Pin and 2-Pin Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

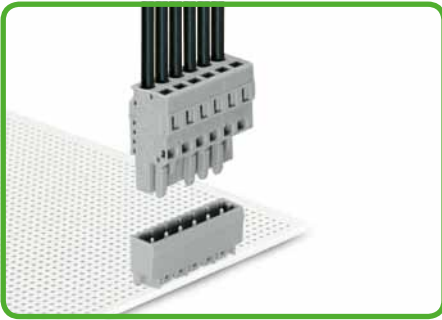


2-cond./1-pin carrier terminal block 769-176
Conductor size: 4 mm²/AWG 12

1-conductor female plugs 769-102 to 769-115
Conductor size: 4 mm²/AWG 12
Conductor loop length: 1 m



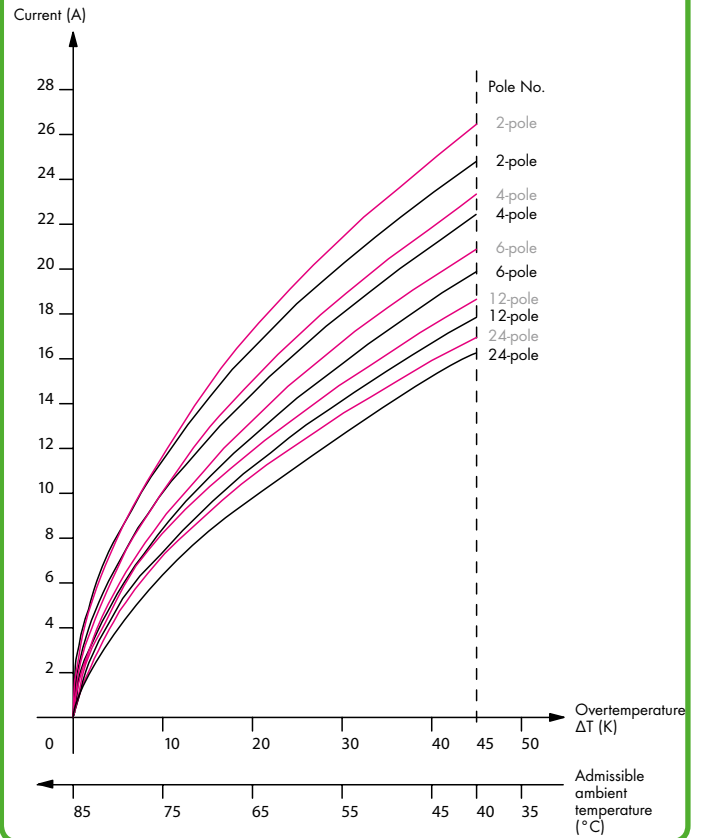
Current-Carrying Capacity Curves for Connectors with CAGE CLAMP® MULTI CONNECTION SYSTEM – MIDI



Headers with solder pins 1 mm x 1 mm	231-132/001-000 to -154/001-000
1.2 mm x 1.2 mm	231-162/001-000 to -184/001-000
Female connectors/plugs	231-102/026-000 to -124/026-000
Conductor size 2.5 mm ² /AWG 14 "fst"	on PCB side commoned with 2.5 mm ² /AWG 14
Conductor loop length:	1 m

Additional current-carrying capacity curves upon request.

Male headers with straight solder pins 1 mm x 1 mm/1.2 mm x 1.2 mm MIDI
5 mm; 5.08 mm; 7.5 mm and 7.62 mm pin spacing



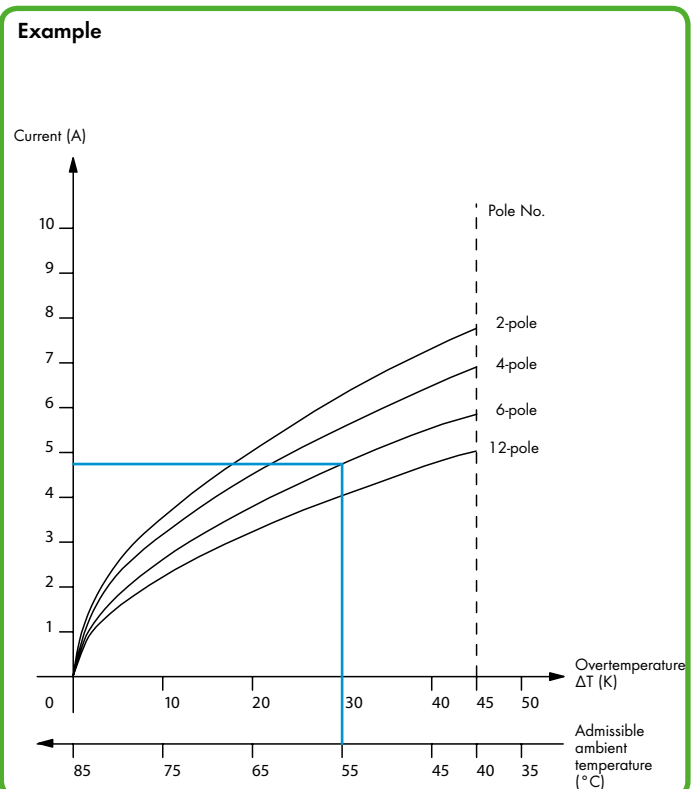
Determining Maximum Load





Explanation using the following example:

What load (amps) can a 6-pole connector assembly handle when subjected to an ambient operating temperature of 55 $^{\circ}\text{C}$?

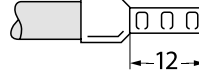
- 1.) On the bottom axis (x-coordinate = temperature), select the ambient operating temperature for the connector assembly (here 55 $^{\circ}\text{C}$).
- 2.) For this temperature, draw a vertical line up to the curve corresponding to the number of poles (here: 6-pole).
- 3.) From the point of intersection, draw a line horizontally to the intersection with the y-axis and read the value of the current.

In this example, all poles of the 6-pole connector assembly can be simultaneously loaded with 4.8 amps at a 55 $^{\circ}\text{C}$ ambient operating temperature.



0.25 - 2.5 (4) mm² ① 800 V/8 kV/3 I _N 24 A Terminal block width 5.2 mm / 0.205 in  10 - 12 mm / 0.43 in ② Approvals	AWG 22 - 12 600 V, 20 A  600 V, 20 A 	Pin spacing 5 mm / 0.197 in 0.5 - 2.5 mm ² "s+f-st" AWG 20 - 12 "sol.+f-st" 250 V/4 kV/3, 16 A 300 V, 10 A 500 V/4 kV/2, 16 A  10 - 11 mm / 0.41 in ② Approvals	Connection technologies
---	---	---	--------------------------------

- ② Conductor sizes: 0.25 - 4 mm² "s+f-st";
 Push-in conductor sizes: 0.75 - 4 mm² "s" and
 0.75 - 2.5 mm² "insulated ferrule, 12 mm"
 (Length on ferrule is ONLY related to metallic part)



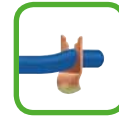
CAGE CLAMP^{®S}



CAGE CLAMP[®]



POWER CAGE CLAMP[®]



FIT CLAMP[®]



PUSH WIRE[®]

Pin spacing 5 mm/0.197 in: Terminal block pin spacing

(e.g., for PCB terminal blocks and *MULTI CONNECTION SYSTEM*)

0.25 - 2.5 (4) mm² / AWG 22 - 12: Min. - max. conductor size,


ferrules reduce cross section to 2.5 mm²/AWG 14 (see ①)


800 V/250 V/500 V: Rated voltage (see Full Line Catalog 1, Section 15)

8 kV/4 kV: Rated surge voltage (see Full Line Catalog 1, Section 15)

3/2: Degree of pollution (see Full Line Catalog 1, Section 15)

I_N 24 A/16 A: Maximum current


600 V, 20 A : Voltage and current values according to UL approval

600 V, 20 A : Voltage and current values according to CSA approval

300 V, 10 A: Voltage and current values according to applied UL and CSA approvals

Terminal block width 5.2 mm/0.205 in: Width of modular terminal blocks (e.g., rail-mounted terminal blocks)

 10 - 12 mm / 0.43 in: Strip length (here, fine-stranded conductor)

 10 - 11 mm / 0.41 in: Strip length (here, solid conductor)

② Approvals (Current approvals are available online at: www.wago.com)

Abbreviations

"sol.": solid conductor

"f-st": fine-stranded conductor

"sol.+f-st": solid and fine-stranded conductors

AWG: American Wire Gauge

I_N 32 A: Nominal current 32 A (e.g., for jumpers)

WCB: WAGO Combi marking system

WMB: WAGO Multi marking system

WSB: WAGO Quick marking system

Material Specifications

Insulating materials:

WAGO primarily uses polyamide (PA 6.6 and PA 4.6) as carriers of current-conducting parts and polycarbonate (PC) as insulating material.

These materials have proven their value in WAGO products for more than 40 years and are approved by the responsible test authorities.

Contact materials:

Hard and extra-hard electrolytic copper (ECu) as well as extra-hard copper alloys are standard materials used for the current-carrying parts of all WAGO products. This material combines excellent conductivity and good chemical resistance without the risk of stress-induced cracking.

Contact plating:

The special tin layer, which is the standard layer for all current-carrying parts in WAGO products, ensures perfect long-term protection against corrosive substances. Furthermore, these layers provide a gas-tight contact that ensures a durable transition resistance.

Clamping spring material:

All WAGO clamping springs are made of high-quality, accurately tested austenitic chrome nickel steel (CrNi) with high tensile strength, which boasts proven corrosion resistance through long-term usage.

It is resistant to salt sea air, city pollutants and industrial emissions (e.g., sulfur dioxide, hydrogen sulfide).

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2002-4131	35	2006-1304	30	2016-1302	32		
2002-4141	35						

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