

ELECTRICAL
INTERCONNECTIONS

AUTOMATION

Product Short Form

PSF 4.1



WAGO Registered Trademarks



CAGE CLAMP®

CAGE CLAMP® 

POWER CAGE CLAMP

FIT CLAMP®

PUSH WIRE®

TOPJOB®

TOPJOB® 

WINSTA®

WAGO®

X-COM®

X-COM® 

JUMPFLEX®

TO-PASS®

ProServe®

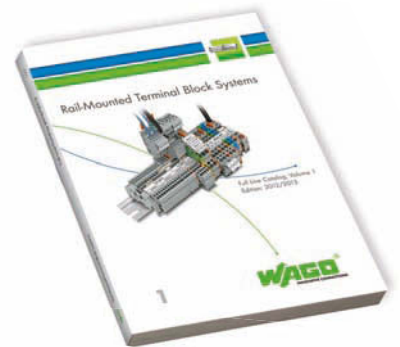
EPSITRON®

picoMAX®

WAGO Full Line Catalogs

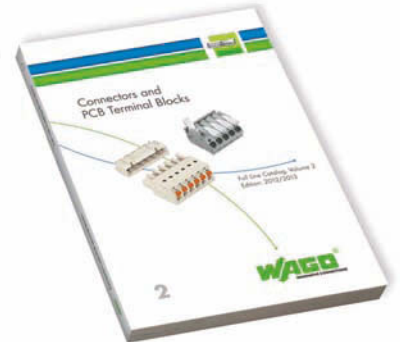
Volume 1, Rail-Mounted Terminal Block Systems

- 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



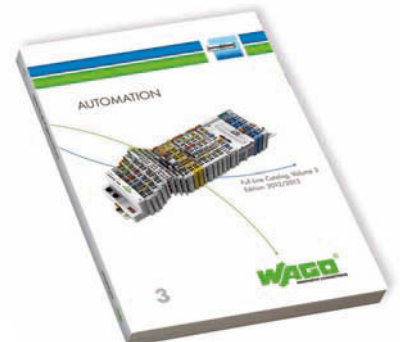
Volume 2, Connectors and PCB Terminal Blocks

- 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®

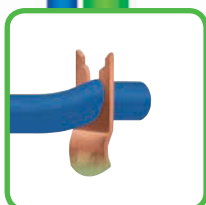


The universal connection for conductors larger than 6 AWG (16 mm²)

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®



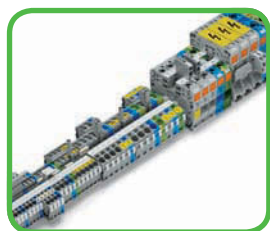
PUSH WIRE® connection for solid and stranded conductors (depending on model used)

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

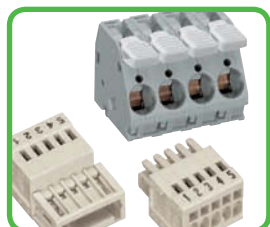


Rail-Mounted Terminal Block Systems

24 – 93

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

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



Connectors and PCB Terminal Blocks

94 – 139

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

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

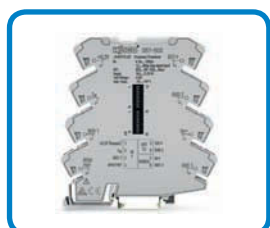


AUTOMATION

140 – 158

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

Excerpt from Full Line Catalog, Volume 3, AUTOMATION



INTERFACE ELECTRONIC

159 – 171

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

Excerpt from Full Line Catalog, Volume 4, INTERFACE ELECTRONIC



WINSTA® – The Connection System

172 – 177

Applications, Product Range, System Partners

Reference to Full Line Catalog, Volume 5, WINSTA® – The Connection System

ACCESSORIES

Marking Accessories

178 – 187

Mounting Accessories

188 – 189

Tools

190 – 195

TECHNICAL SECTION

Derating Curves

202 – 203

Technical Information

204

SEARCH AIDS

Index

196 – 197

Approvals – User Guide

198 – 201

Item Number Index and WAGO Addresses

205 – 216

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 screw-less 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



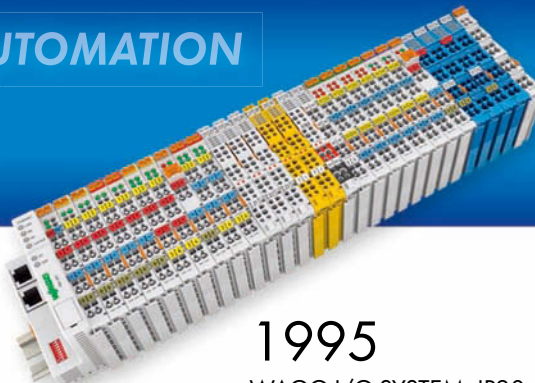
**ELECTRICAL
INTERCONNECTIONS**

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



0
5



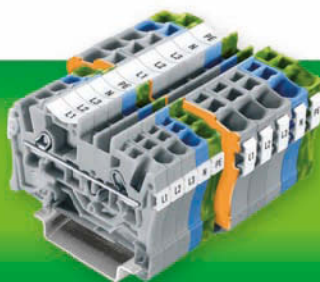
2004

Compact splicing connectors for all conductor types



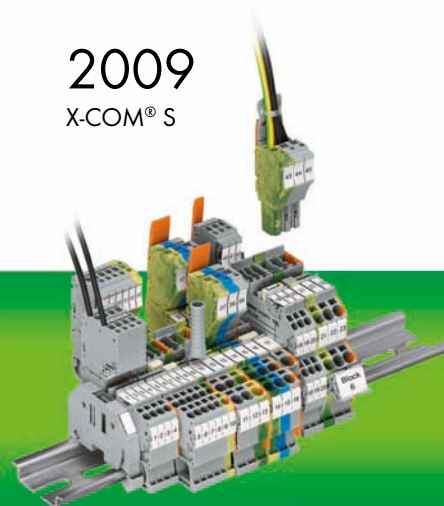
2006

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



WAGO®

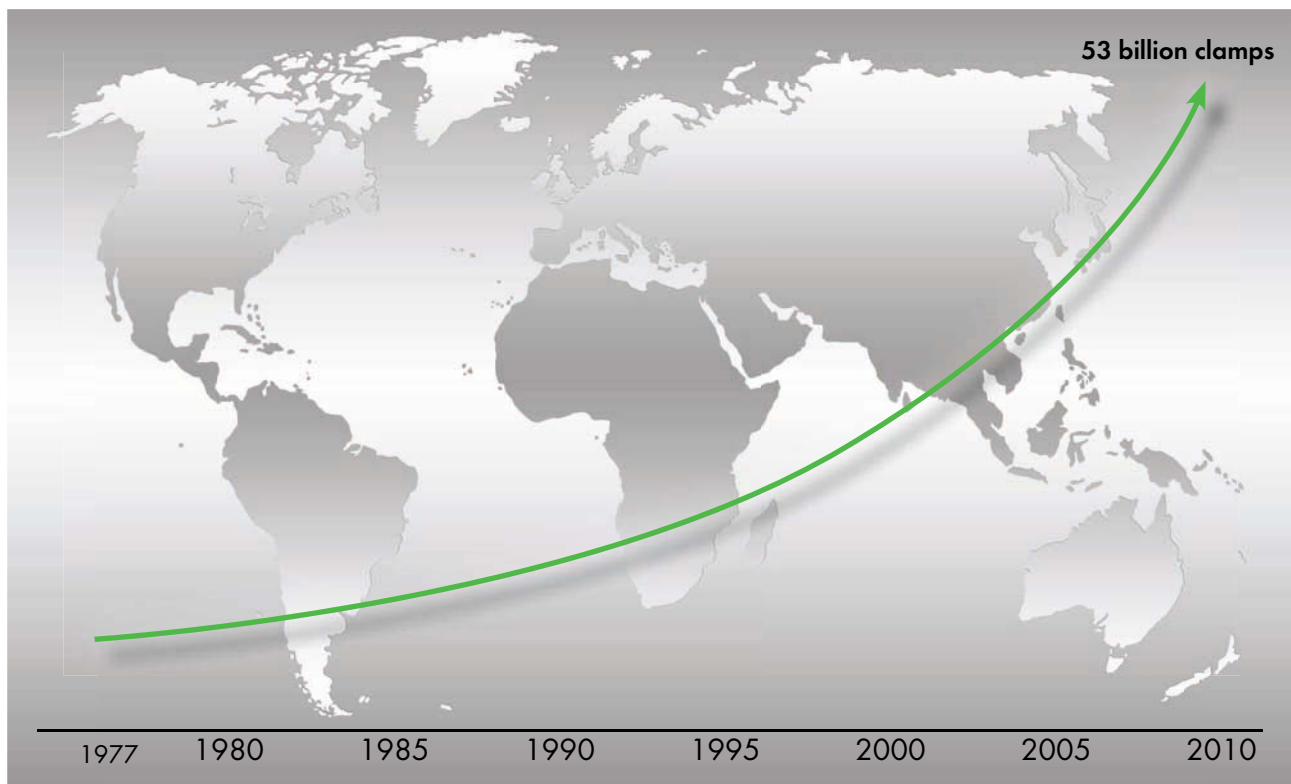
From Pioneer to Leader

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 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 >>



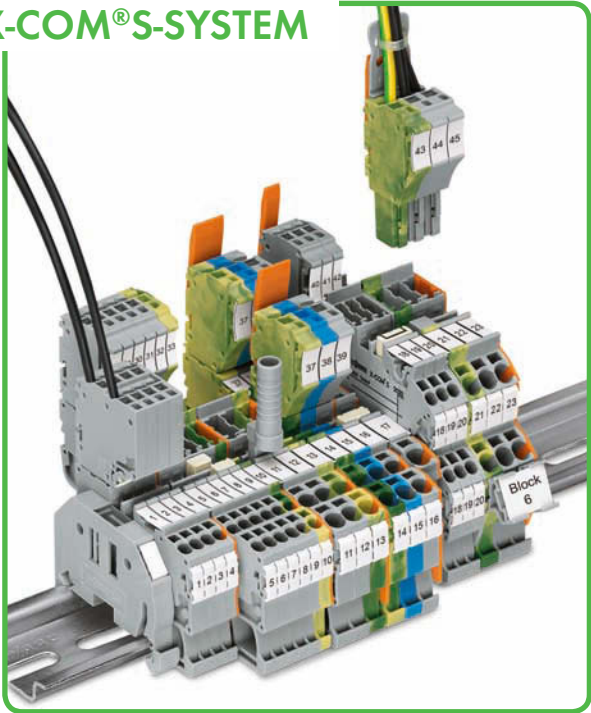
[Europe >>](#)[Asia >>](#)

WAGO[®]
INNOVATIVE CONNECTIONS

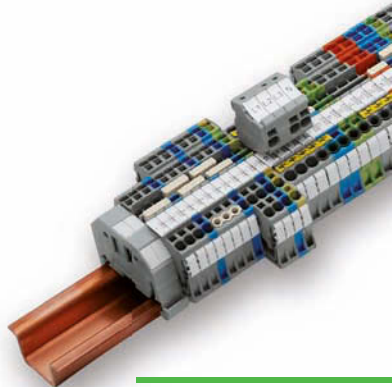


WAGO Product Range: Electrical Interconnections

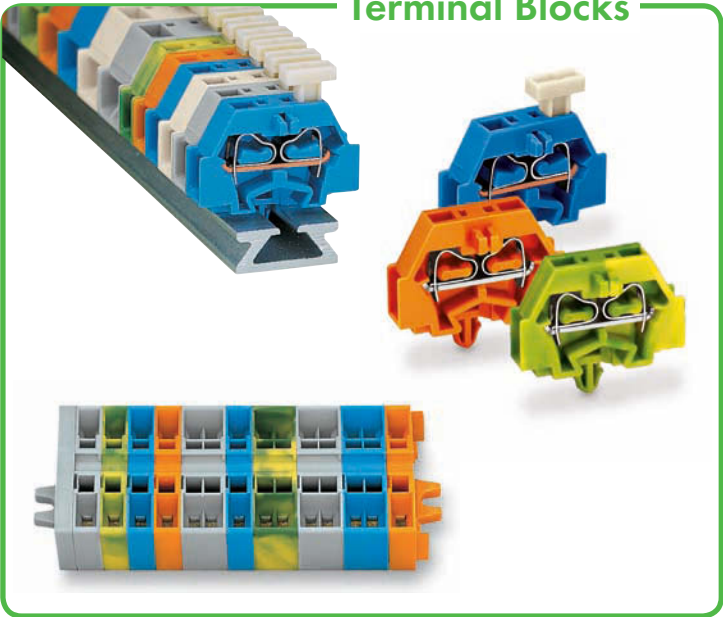
X-COM®-SYSTEM X-COM®-S-SYSTEM



Installation Connectors



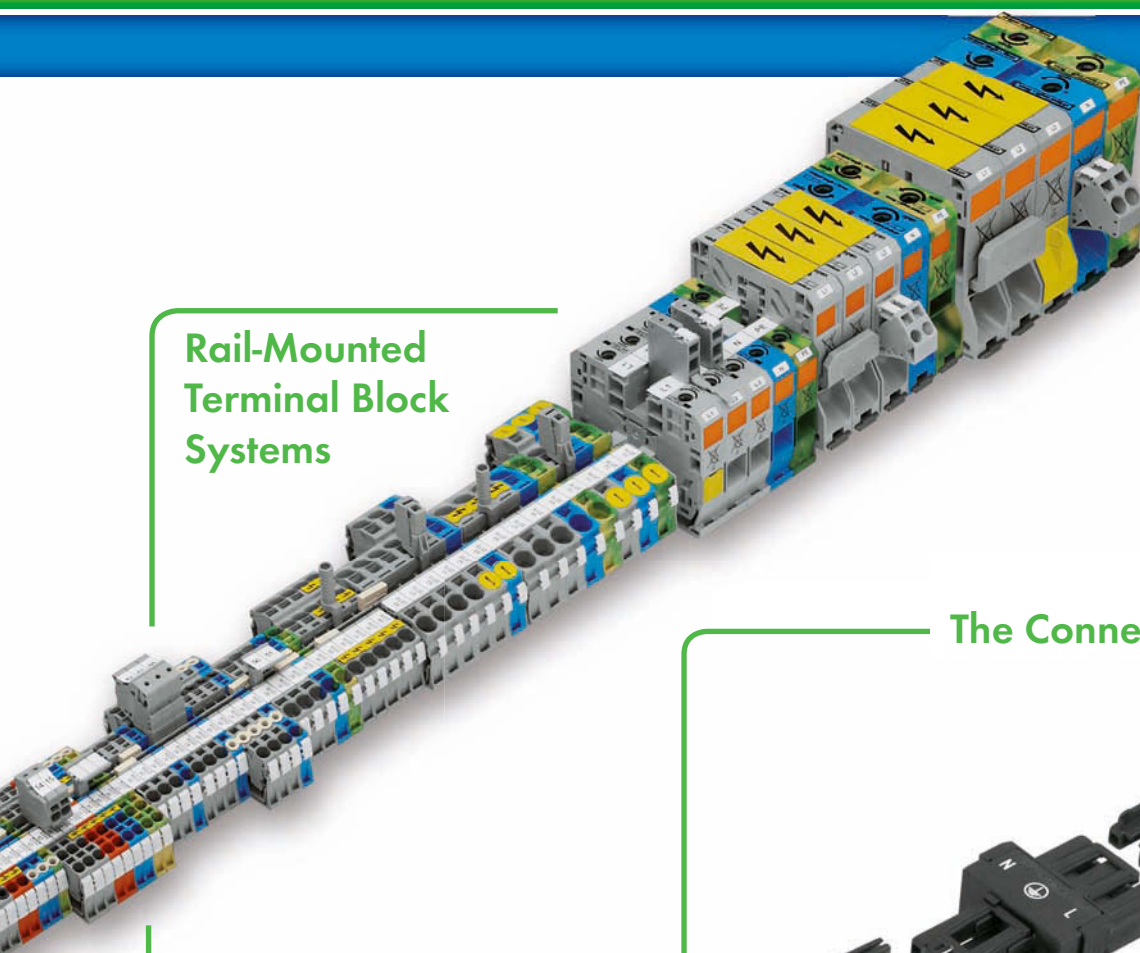
Modular Terminal Blocks



PCB Terminal Blocks



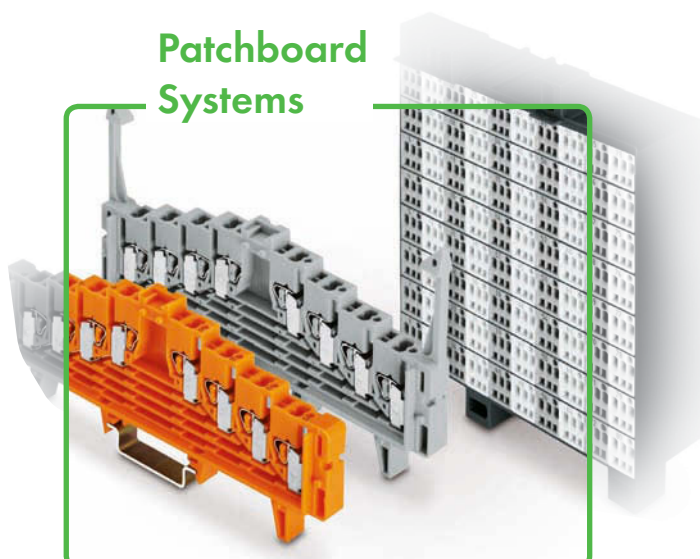
Rail-Mounted Terminal Block Systems



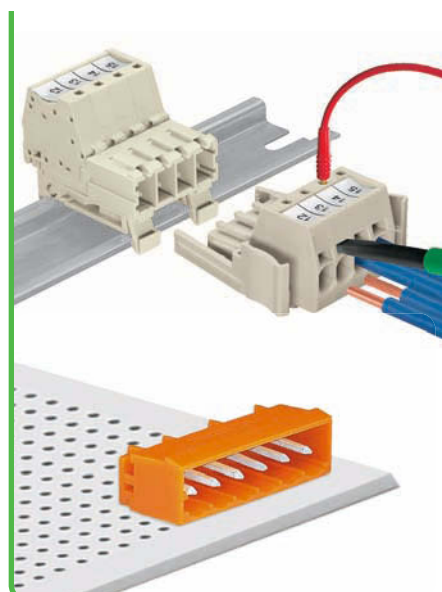
WINSTA® – The Connection System



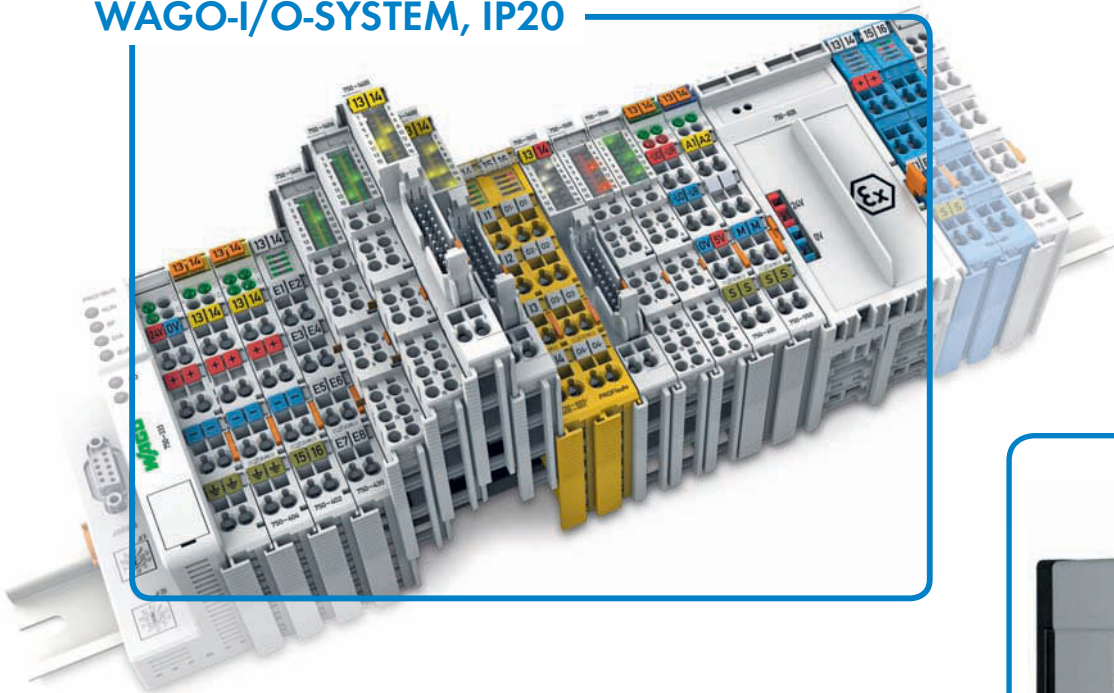
Patchboard Systems



Connectors



WAGO-I/O-SYSTEM, IP20



Power Supplies



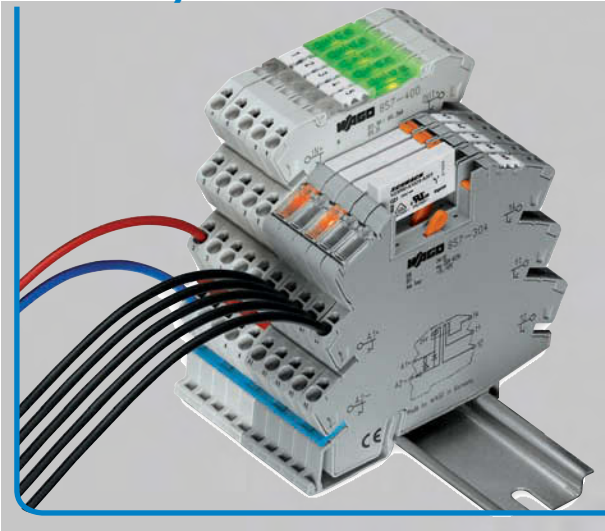
WAGO SPEEDWAY 767, Modular I/O-SYSTEM, IP67



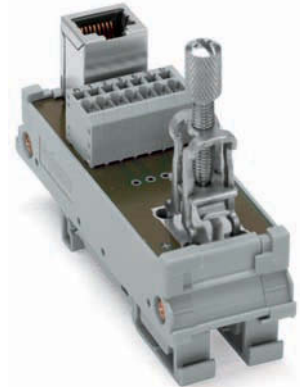
PERSPECTO®



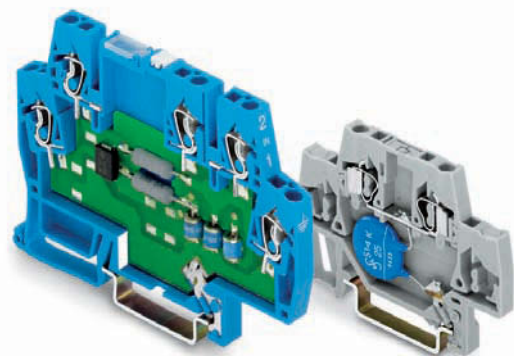
JUMPFLEX® – Transducers and Relay Modules



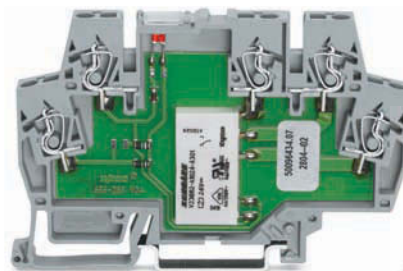
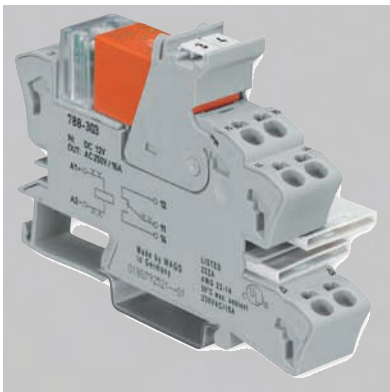
Interface Modules



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

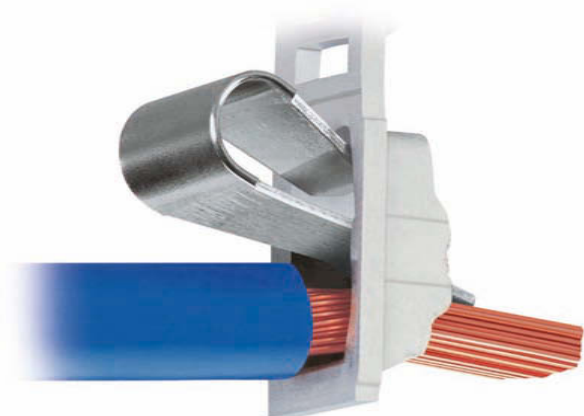


Plant automation and traffic engineering

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.

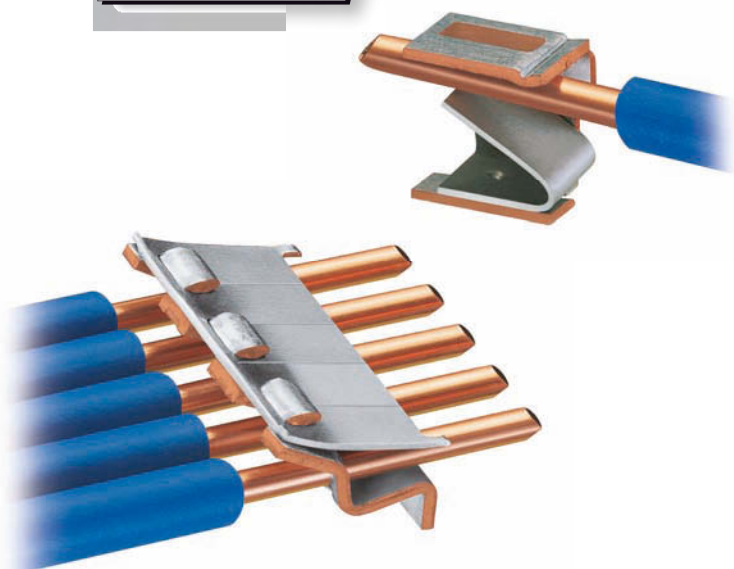
- implement innovative solutions
- create a compact design
- save energy
- make equipment safer
- react to requirements in a flexible way
- minimize installation, maintenance costs and downtime
- guarantee reliable operation under extreme conditions
- guarantee high availability and technical safety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



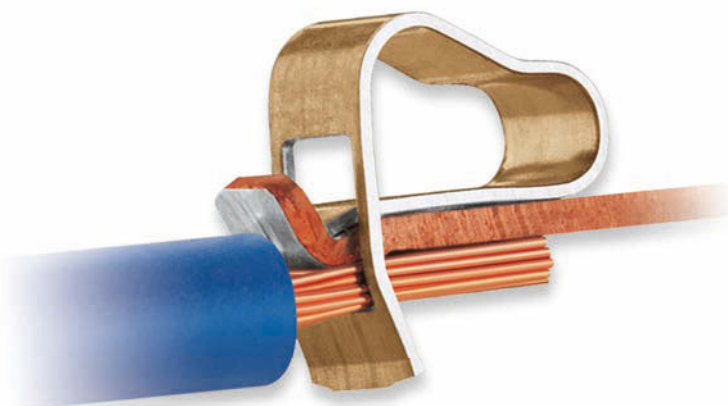
PUSH WIRE® technology is perfectly suited for fast connection of solid conductors. It utilizes the conductor's stiffness to provide safe, direct insertion into the clamping unit.

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



Side-entry wiring:

CAGE CLAMP®
connection



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

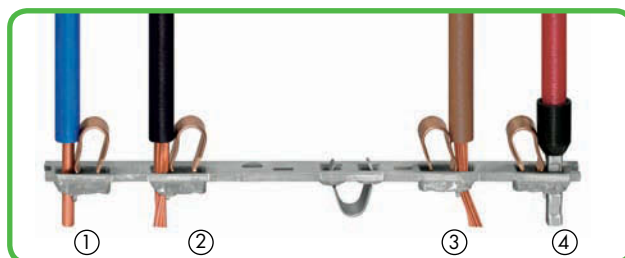
A number of VDE directives mandate or recommend that only one conductor should or must be connected per clamping unit (e.g., DIN VDE 0611, Part 4, 02.91, Section 3.1.9). WAGO complies with this safety requirement, as expressed in the corresponding directives.

Technical and economical benefits for the users:

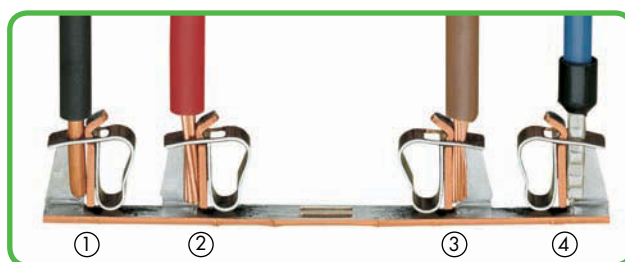
- Each conductor is clamped independently.
- Any conductor size combination per potential can be safely connected.
- Where re-wiring is required, only the conductor to be changed is removed from the clamping point, all other conductors remain safely clamped.
- The arrangement of more than two clamping 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.

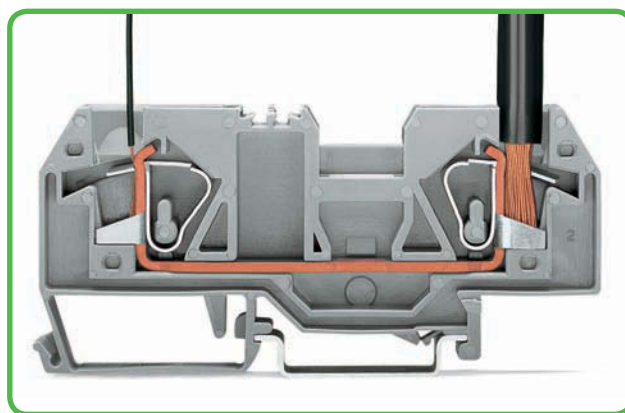


CAGE CLAMP® clamps one conductor per clamping unit.



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

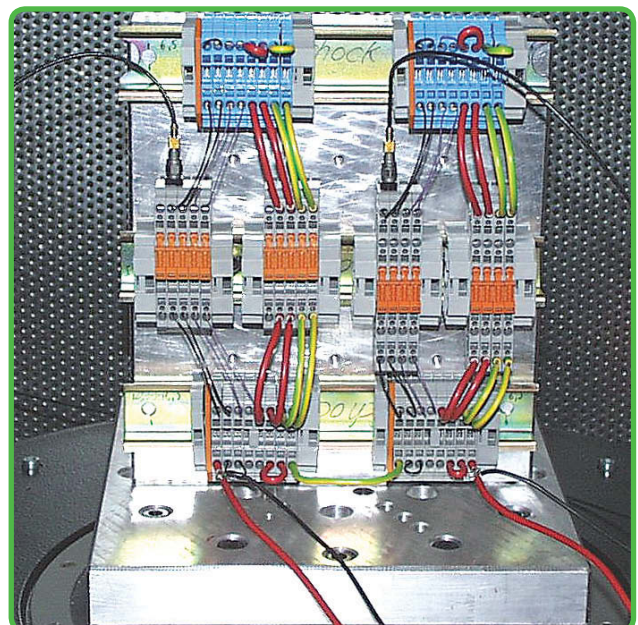
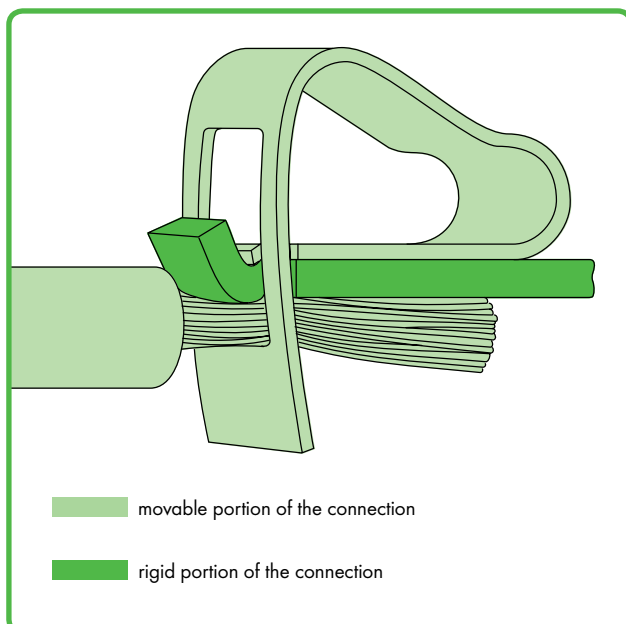
Vibration- and Shock-Proof – Maintenance-Free

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.

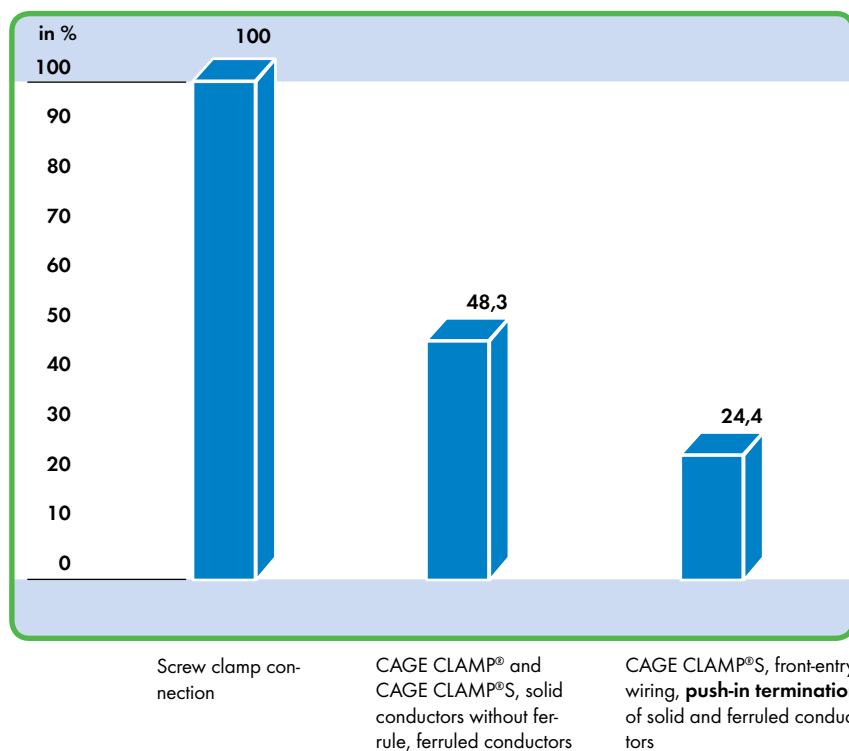


Time-Saving

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

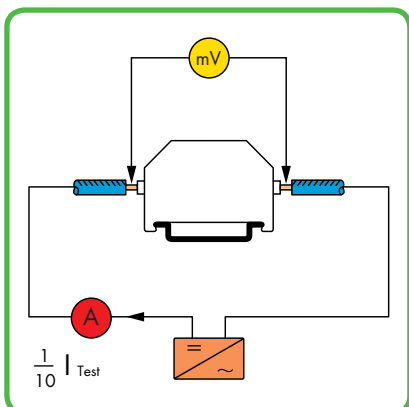
$$P \left[\frac{\text{N}}{\text{mm}^2} \right] = \frac{\text{Force } F [\text{N}]}{\text{Area } A [\text{mm}^2]}$$

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



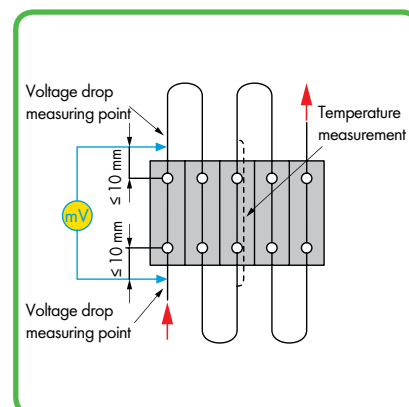
To best evaluate the quality of a clamping point, WAGO uses the following test procedures:

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.



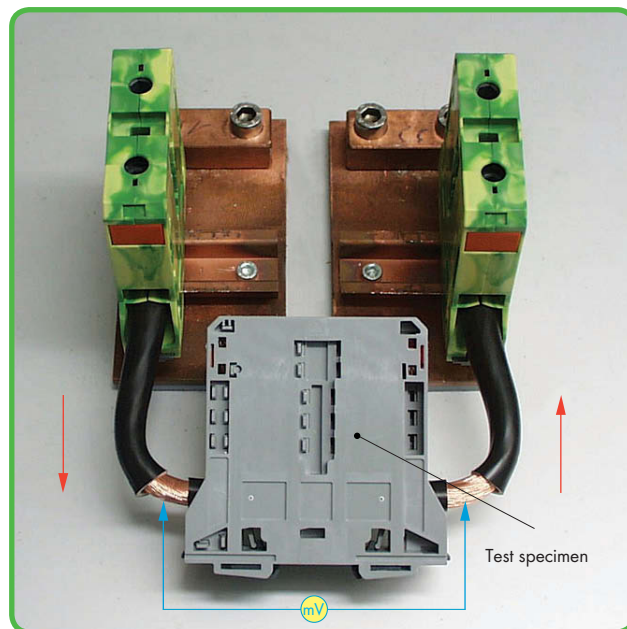
Test arrangement: "Temperature-Rise Test"

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



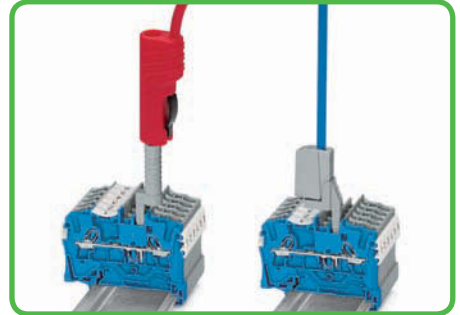
Push-in termination: Solid conductors with cross sections from either one size above, or up to two sizes below, the rated cross section can be pushed in directly – without tools.

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



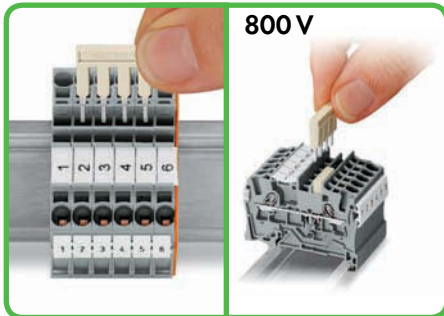
With screwdriver: The operation of the clamp remains the same for unprepared fine-stranded conductors or small cross sections that don't allow push-in termination.

Testing



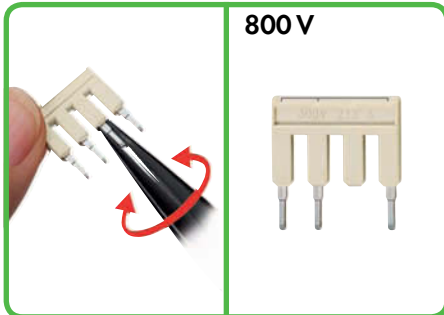
Testing of TOPJOB®S rail-mounted terminal blocks using test plug adapter or testing tap

Commoning

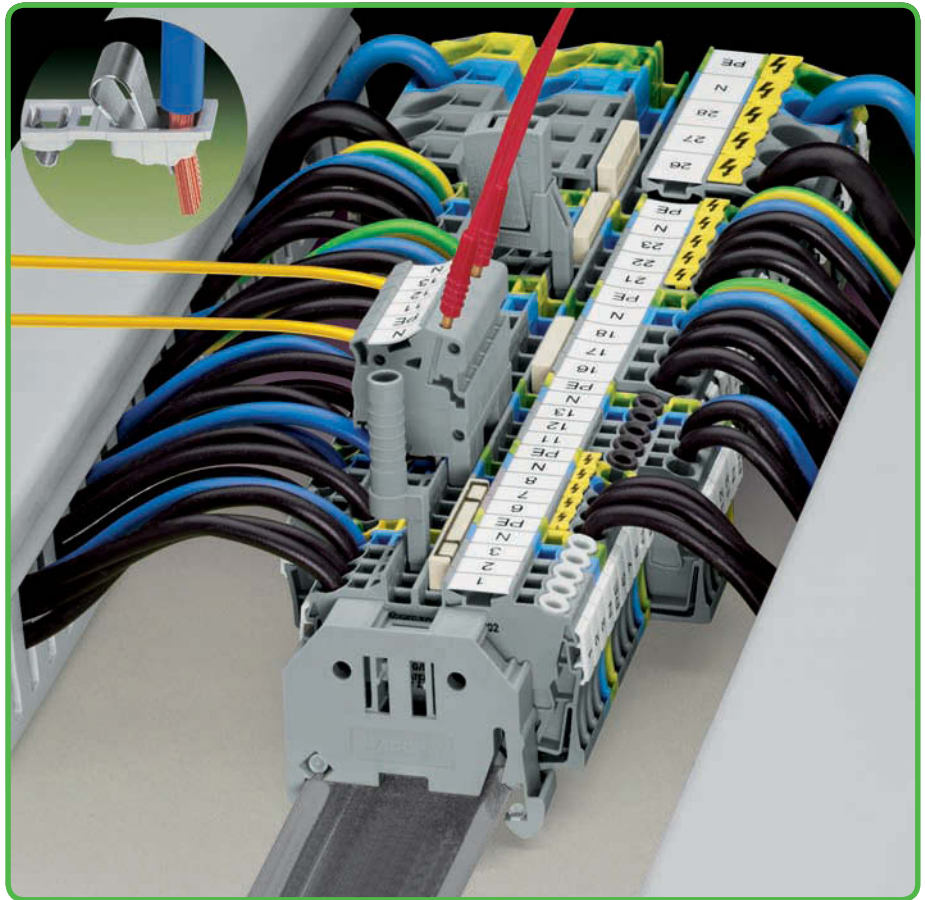


Twin integrated, spring-loaded jumper bars rated at 800 V (ex works).
Jumper bars rated at 800 V (ex works).

Commoning



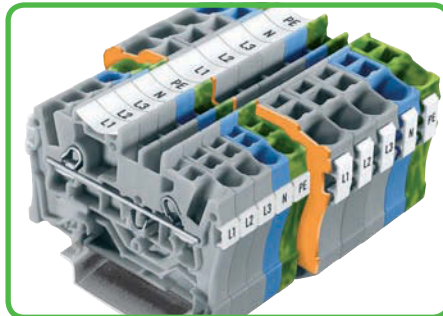
Jumper contacts that are not required can be broken off and removed, the upper-side of the jumper can then be marked accordingly. Applies to 2001, 2002 and 2004 Series.



Marking

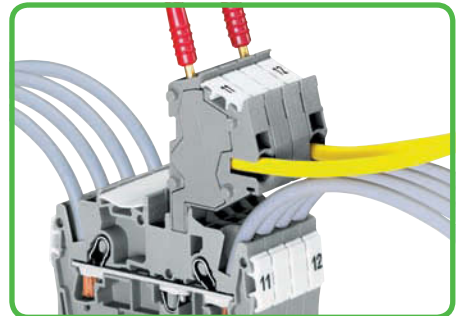


A thermal transfer printer and WAGO "smartDESIGNER" software generate the marking.



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

0.14 - 1.0 (1.5) mm ² ① 800 V/6 kV/3 I _N 13.5 A (18 A) Terminal block width 3.5 mm / 0.138 in 9 - 11 mm / 0.39 in ② Approvals	AWG 24 - 16 600 V, 10 A ② 600 V, 10 A ③	0.14 - 1.0 (1.5) mm ² ① 800 V/6 kV/3 I _N 13.5 A (18 A) Terminal block width 3.5 mm / 0.138 in 9 - 11 mm / 0.39 in ② Approvals	AWG 24 - 16 600 V, 10 A ② 600 V, 10 A ③	0.14 - 1.0 (1.5) mm ² ① 800 V/6 kV/3 I _N 13.5 A (18 A) Terminal block width 3.5 mm / 0.138 in 9 - 11 mm / 0.39 in ② Approvals	AWG 24 - 16 600 V, 10 A ② 600 V, 10 A ③
--	---	--	---	--	---

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		
gray	2000-1201	100	gray	2000-1301	100	gray	2000-1401	100
blue	2000-1204	100	blue	2000-1304	100	blue	2000-1404	100
orange	2000-1202	100	orange	2000-1302	100	orange	2000-1402	100
red	2000-1203	100	red	2000-1303	100	red	2000-1403	100
black	2000-1205	100	black	2000-1305	100	black	2000-1405	100
yellow	2000-1206	100	yellow	2000-1306	100	yellow	2000-1406	100
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow	2000-1207	100	green-yellow	2000-1307	100	green-yellow	2000-1407	100

Item-Specific Accessories

End and intermediate plate, 0.7 mm thick	End and intermediate plate, 0.7 mm thick	End and intermediate plate, 0.7 mm thick
orange 2000-1292 100 (4x25)	orange 2000-1392 100 (4x25)	orange 2000-1492 100 (4x25)
gray 2000-1291 100 (4x25)	gray 2000-1391 100 (4x25)	gray 2000-1491 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 14 A, light gray	Star point jumper, insulated,
2-way 2000-402 200 (8x25)	1 - 3 2000-433 200 (8x25)	I _N = I _N terminal block, light gray
3-way 2000-403 200 (8x25)	1 - 4 2000-434 200 (8x25)	1-3-5 2000-405/011-000
4-way 2000-404 200 (8x25)	1 - 5 2000-435 100 (4x25)	100 (4x25)
5-way 2000-405 100 (4x25)	:	
:	:	
10-way 2000-410 100 (4x25)	1 - 10 2000-440 100 (4x25)	
Protective warning marker, with high-voltage symbol, for 5 terminal blocks	WMB Multi marking system,	Marking strips, plain
yellow 2000-115 100 (4x25)	10 strips with 10 markers per card	11 mm wide,
	for 3.5 mm terminal block width,	50m roll
	plain 793-3501 50 (10x5)	white 2009-110 1
Operating tool with partially insulated shaft,	 Suitable for Ex i applications	Test plug adapter, for test plug 4 mm Ø
type 1, (2.5 x 0.4) mm blade		gray 2009-174 100 (4x25)
210-719 1		
Insulated ferrules, extra long,		Testing tap, for max. 2.5 mm²/AWG 14
for TOPJOB®S terminal blocks		gray 2009-182 100 (4x25)
see page 195		

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

For technical explanations and abbreviations, see technical section.

WAGO

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

0.25 - 1.5 (2.5) mm² ① | AWG 22 - 14
800 V/8 kV/3 | 600 V, 10 A ②
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 | AWG 22 - 14
800 V/8 kV/3 | 600 V, 10 A ②
I_N 18 A (24 A)

Terminal block width 4.2 mm / 0.165 in
9 - 11 mm / 0.39 in

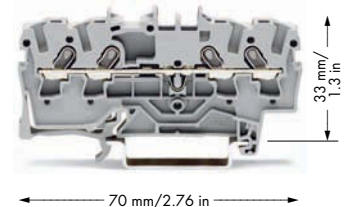
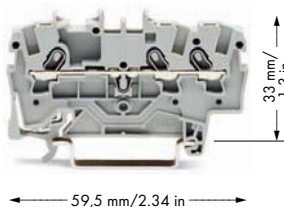
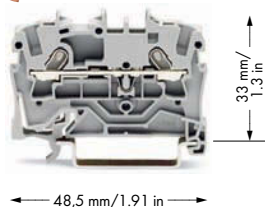
② Approvals

0.25 - 1.5 (2.5) mm² ① | AWG 22 - 14
800 V/8 kV/3 | 600 V, 10 A ②
I_N 18 A (24 A)

Terminal block width 4.2 mm / 0.165 in
9 - 11 mm / 0.39 in

② Approvals

① Conductor sizes: 0.25 - 2.5 mm² "s + f-st";
Push-in conductor sizes: 0.5 - 2.5 mm² "s" and
0.75 - 1.5 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 ②	2001-1201	100	gray ②	2001-1301	100	gray ②	2001-1401	100
blue ②	2001-1204	100	blue ②	2001-1304	100	blue ②	2001-1404	100
orange ②	2001-1202	100	orange ②	2001-1302	100	orange ②	2001-1402	100
red ②	2001-1203	100	red ②	2001-1303	100	red ②	2001-1403	100
black ②	2001-1205	100	black ②	2001-1305	100	black ②	2001-1405	100
yellow ②	2001-1206	100	yellow ②	2001-1306	100	yellow ②	2001-1406	100
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow ②	2001-1207	100	green-yellow ②	2001-1307	100	green-yellow ②	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			End and intermediate plate, 0.8 mm thick			End and intermediate plate, 0.8 mm thick		
orange	2002-1292	100 (4x25)	orange	2002-1392	100 (4x25)	orange	2002-1492	100 (4x25)
gray	2002-1291	100 (4x25)	gray	2002-1391	100 (4x25)	gray	2002-1491	100 (4x25)
Separator, oversized, 0.8 mm thick			Separator, oversized, 0.8 mm thick			Separator, oversized, 0.8 mm thick		
orange	2002-1294	100 (4x25)	orange	2002-1394	100 (4x25)	orange	2002-1494	100 (4x25)
gray	2002-1293	100 (4x25)	gray	2002-1393	100 (4x25)	gray	2002-1493	100 (4x25)

2001 Series Accessories

Appropriate marking systems: WMB/Marking Strips

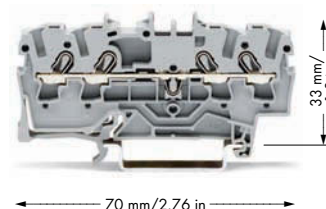
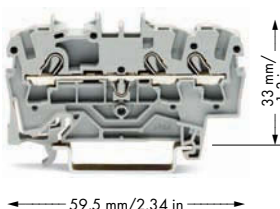
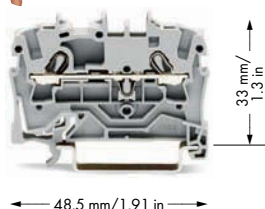
Push-in type jumper bar, insulated, I_N 18 A, light gray			Push-in type jumper bar, insulated, I_N 18 A, light gray			Push-in type wire jumper, insulated, I_N 16 A, wire size 1.5 mm²/AWG 16		
2-way	2001-402	200 (8x25)	1 - 3	2001-433	200 (8x25)	60 mm	2009-412	100 (10x10)
3-way	2001-403	200 (8x25)	1 -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

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

For technical explanations and abbreviations, see technical section.

0.25 - 2.5 (4) mm ² ① 800 V/8 kV/3 I _N 24 A (32 A) Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in.	AWG 22 - 12 600 V, 20 A ② 600 V, 20 A ③	0.25 - 2.5 (4) mm ² ① 800 V/8 kV/3 I _N 24 A (32 A) Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in.	AWG 22 - 12 600 V, 20 A ② 600 V, 20 A ③	0.25 - 2.5 (4) mm ² ① 800 V/8 kV/3 I _N 24 A (32 A) Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in.	AWG 22 - 12 600 V, 20 A ② 600 V, 20 A ③
② Approvals		② Approvals		② 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	Color	Item No.	Pack. Unit
2-conductor through terminal block			3-conductor through terminal block			4-conductor through terminal block		
gray ⑥	2002-1201	100	gray ⑥	2002-1301	100	gray ⑥	2002-1401	100
blue ⑥	2002-1204	100	blue ⑥	2002-1304	100	blue ⑥	2002-1404	100
orange ⑥	2002-1202	100	orange ⑥	2002-1302	100	orange ⑥	2002-1402	100
red ⑥	2002-1203	100	red ⑥	2002-1303	100	red ⑥	2002-1403	100
black ⑥	2002-1205	100	black ⑥	2002-1305	100	black ⑥	2002-1405	100
yellow ⑥	2002-1206	100	yellow ⑥	2002-1306	100	yellow ⑥	2002-1406	100
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow ⑥	2002-1207	100	green-yellow ⑥	2002-1307	100	green-yellow ⑥	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

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)

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) : : 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)	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) : : 12-way 2002-482 50 (2x25)
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	Protective warning marker, with high-voltage symbol, for 5 terminal blocks yellow 2002-115 100 (4x25)	TOPJOB®S connector, modular, for jumper contact slot gray 2002-511 100 (4x25)
WMB Multi marking system, 10 strips with 10 markers per card, stretchable 5 - 5.2 mm plain 793-5501 5	Spacer module gray 2002-549 100 (4x25)	Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade 210-720 1
Marking strip, plain, 11 mm wide, 50m roll white 2009-110 1	Insulated ferrules, extra long, for TOPJOB®S terminal blocks see page 195	

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

0.25 - 2.5 (4) mm² ①
800 V/8 kV/3
I_N 24 A (32 A)

AWG 22 - 12
600 V, 20 A ②
600 V, 20 A ③

Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in.

② Approvals

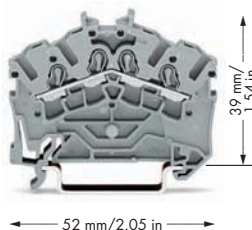
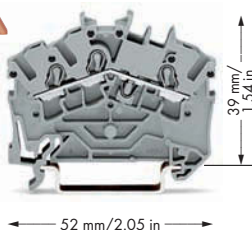
0.25 - 2.5 (4) mm² ①
800 V/8 kV/3
I_N 24 A (32 A)

AWG 22 - 12
600 V, 20 A ②
600 V, 20 A ③

Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in.

② 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
3-conductor through terminal block			4-conductor through terminal block		
gray ③	2002-6301	100	gray ③	2002-6401	100
blue ③	2002-6304	100	blue ③	2002-6404	100
orange ③	2002-6302	100	orange ③	2002-6402	100
Additional colors pending			Additional colors pending		
3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow ③	2002-6307	100	green-yellow ③	2002-6407	100
			Notice: These terminal blocks cannot be commoned with push-in type jumper bars!		

Item-Specific Accessories

End and intermediate plate, 0.8 mm thick

orange 2002-6392 100 (4x25)
gray 2002-6391 100 (4x25)

End and intermediate plate, 0.8 mm thick

orange 2002-6392 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



1 - 3 2002-433 200 (8x25)
1 - 4 2002-434 200 (8x25)
1 - 5 2002-435 100 (4x25)
:
1 - 10 2002-440 100 (4x25)

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)

Operating tool with partially insulated shaft,



type 2, (3.5 x 0.5) mm blade
210-720 1

Insulated ferrules, extra long,



for TOPJOB®S terminal blocks,
see page 195

Insulation stop, 5 pcs/strip 200 strips



light gray 2002-171 0.25-0.5 mm²
dark gray 2002-172 0.75-1 mm²

Protective warning marker, with high-voltage symbol,



for 5 terminal blocks
yellow 2002-115 100 (4x25)

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)

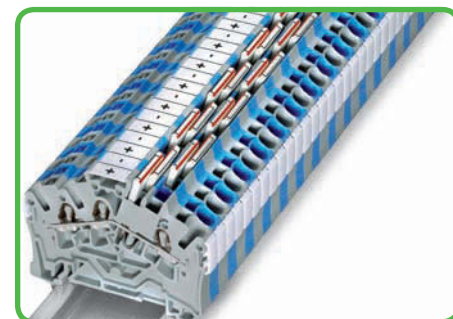


black 215-311 50

red 215-212 50

blue 215-711 50

③ Suitable for Ex i applications
③ Suitable for Ex e II applications
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.

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

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 Ex	2004-1201	100	gray Ex	2004-1301	100	gray Ex	2004-1401	100
blue Ex	2004-1204	100	blue Ex	2004-1304	100	blue Ex	2004-1404	100
orange Ex	2004-1202	100	orange Ex	2004-1302	100	orange Ex	2004-1402	100
red Ex	2004-1203	100	red Ex	2004-1303	100	red Ex	2004-1403	100
black Ex	2004-1205	100	black Ex	2004-1305	100	black Ex	2004-1405	100
yellow Ex	2004-1206	100	yellow Ex	2004-1306	100	yellow Ex	2004-1406	100
2-conductor ground terminal block			3-conductor ground terminal block			4-conductor ground terminal block		
green-yellow Ex	2004-1207	100	green-yellow Ex	2004-1307	100	green-yellow Ex	2004-1407	100

Item-Specific Accessories

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

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

2004 Series Accessories

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

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

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)

AWG 20 - 8
600 V, 50 A ②
600 V, 50 A ③

Terminal block width 7.5 mm / 0.295 in
13 - 15 mm / 0.55 in

② Approvals

0.5 - 6 (10) mm² ①
800 V/8 kV/3
I_N 41 A (57 A)

AWG 20 - 8
600 V, 50 A ②
600 V, 50 A ③

Terminal block width 7.5 mm / 0.295 in
13 - 15 mm / 0.55 in

② Approvals

Separator for Ex e/Ex i applications

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, orange	
gray ②	2006-1201	50	gray ②	2006-1301	25		
blue ②	2006-1204	50	blue ②	2006-1304	25	90 mm wide	209-190 50 (2x25)
orange ②	2006-1202	50	orange ②	2006-1302	25	120 mm wide	209-191 50 (2x25)
2-conductor ground terminal block			3-conductor ground terminal block				
green-yellow ②	2006-1207	50	green-yellow ②	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)

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
② Suitable for Ex e II applications
550 V, 38 A (2-conductor terminal blocks)
550 V, 36 A (3-conductor terminal blocks)

Separator for Ex e/Ex i applications

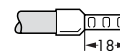
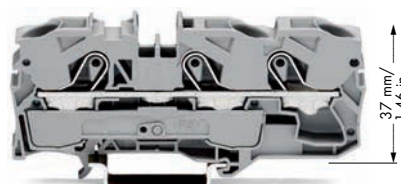
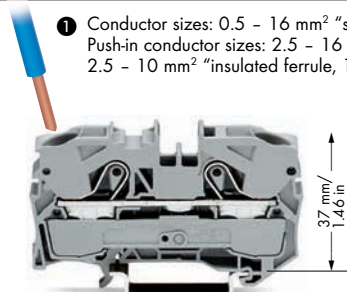
According to EN 50020, a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. The use of Ex e/Ex i separators is a space-saving solution when Ex e and Ex i terminal blocks are mounted on a common carrier rail.

Suitable for Series: 279 to 282,
2001, 2002 and 2004.

209-190 for 2-conductor terminal blocks.
209-191 for 2-, 3-, 4-conductor terminal blocks.

0.5 - 10 (16) mm ² ① 800 V/8 kV/3 I _N 57 A (76 A) Terminal block width 10 mm / 0.394 in 17 - 19 mm / 0.71 in	AWG 20 - 6 600 V, 65 A 600 V, 65 A	0.5 - 10 (16) mm ² ① 800 V/8 kV/3 I _N 57 A (76 A) Terminal block width 10 mm / 0.394 in 17 - 19 mm / 0.71 in	AWG 20 - 6 600 V, 65 A 600 V, 65 A	Step-down jumper
② Approvals		② Approvals		

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,	
						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			Item-Specific Accessories				
End and intermediate plate, 1 mm thick			End and intermediate plate, 1 mm thick				
orange	2010-1292	100 (4x25)	orange	2010-1392	100 (4x25)		
gray	2010-1291	100 (4x25)	gray	2010-1391	100 (4x25)		
2010 Series Accessories			2010 Series Accessories				
Push-in type jumper bar, insulated, I _N 57 A, light gray			Push-in type jumper bar, insulated, I _N 57 A, light gray				
2-way	2010-402	50 (2x25)	1 - 3	2010-433	50 (2x25)		
3-way	2010-403	50 (2x25)	1 - 4	2010-434	50 (2x25)		
4-way	2010-404	50 (2x25)	1 - 5	2010-435	50 (2x25)		
5-way	2010-405	50 (2x25)					
Step-down jumper, insulated,			Finger guard,				
I _N 32 A			touchproof cover protects unused				
light gray	2006-499	50 (2x25)	conductor entries				
			yellow	2010-100	100 (4x25)		
Protective warning marker, with high-voltage symbol,			Operating tool with partially insulated shaft,				
for 5 terminal blocks			type 3, (5.5 x 0.8) mm blade				
yellow	2010-115	50 (2x25)		210-721	1		
Test plug adapter, for test plug 4 mm Ø			Banana plugs, only for safety extra-low voltage (42 V)				
gray	2009-174	100 (4x25)	black	215-311	50		
Testing tap, for max. 2.5 mm ² /AWG 14			red	215-212	50		
gray	2009-182	100 (4x25)	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)		
Insulated ferrules, extra long,			Insulated ferrules, extra long,				
for TOPJOB®S terminal blocks			● Suitable for Ex i applications				
see page 195			⊗ 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	

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

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)

Terminal block width 12 mm / 0.472 in
18 - 20 mm / 0.75 in

② Approvals

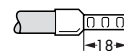
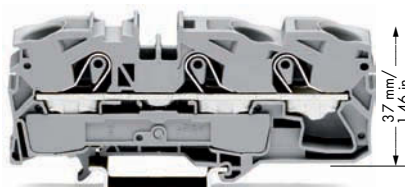
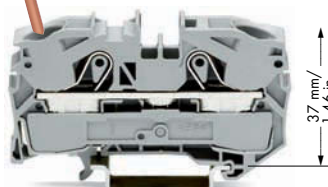
0.5 - 16 (25 "f-st") mm² ① AWG 20 - 4
800 V/8 kV/3 600 V, 85 A ②
I_N 76 A (90 A)

Terminal block width 12 mm / 0.472 in
18 - 20 mm / 0.75 in

② Approvals

Step-down jumper

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 ②	2016-1201	20	gray ②	2016-1301	20	light gray,	
blue ②	2016-1204	20	blue ②	2016-1304	20	commons 6/4mm ² (AWG 10/12) t. blocks with	
orange ②	2016-1202	20	orange ②	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 ②	2016-1207	20	green-yellow ②	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				

Push-in type jumper bar, insulated, I_N 76 A, light gray



2-way **2016-402** 50 (2x25)
3-way **2016-403** 50 (2x25)
4-way **2016-404** 50 (2x25)
5-way **2016-405** 50 (2x25)

Push-in type jumper bar, insulated, I_N 76 A, light gray



1 - 3 **2016-433** 50 (2x25)
1 - 4 **2016-434** 50 (2x25)
1 - 5 **2016-435** 50 (2x25)

Star point jumper, insulated,



I_N = I_N terminal block,
light gray
1-3-5 **2016-405/011-000**
50 (2x25)

Finger guard,



touchproof cover protects unused
conductor entries
yellow **2016-100** 100 (4x25)

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



yellow **2016-115** 50 (2x25)

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,



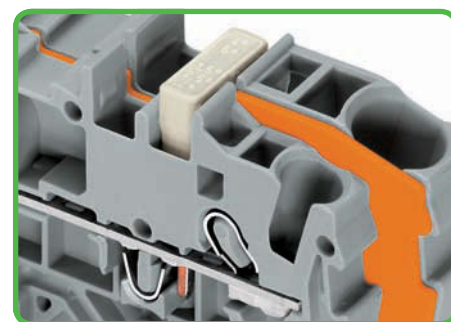
10 strips with 10 markers per card,
stretchable 5 - 5.2 mm
plain **793-5501** 50 (10x5)

Insulated ferrules, extra long,



for TOPJOB®S terminal blocks
see page 195

② Suitable for Ex i applications
② Suitable for Ex e II applications
550 V, 70 A (2-conductor terminal blocks)
550 V, 67 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	

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.

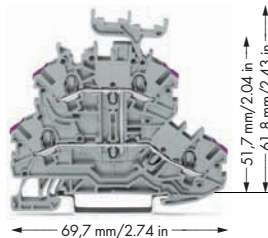
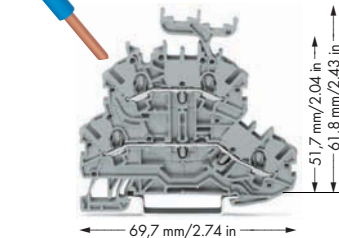
TOPJOB® Double-Deck Terminal Blocks 1 (1.5) mm² 2000 Series

CAGE CLAMP® S

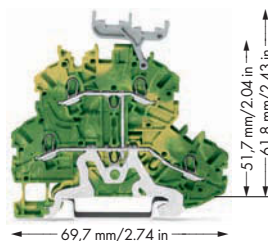
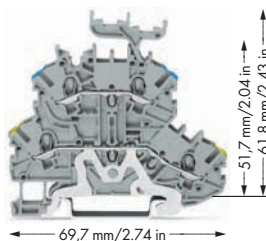
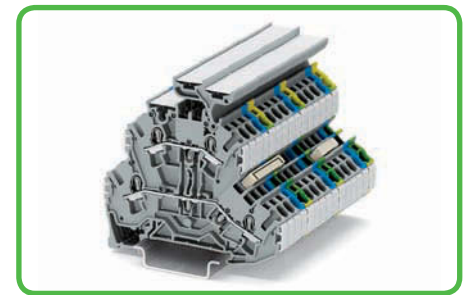
1
33

0.14 - 1 (1.5) mm ² ① 500 V/6 kV/3 I _N 13.5 A Terminal block width 3.5 mm / 0.138 in 9 - 11 mm / 0.39 in	AWG 24 - 16	0.14 - 1 (1.5) mm ² ① 500 V/6 kV/3 I _N 13.5 A Terminal block width 3.5 mm / 0.138 in 9 - 11 mm / 0.39 in	AWG 24 - 16
② Approvals		② Approvals	

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,			4-conductor through terminal block, internal commoning,		
gray housing			gray housing, conductor entry position colored in violet		
Marker carrier with			Marker carrier with		
● L/L	2000-2231	2000-2201 50	● L	2000-2238	2000-2208 50
● N/L	2000-2232	2000-2202 50			
● L/N	2000-2233	2000-2203 50			
Blue housing			4-conductor through terminal block, internal commoning,		
● N/N			blue housing, conductor entry position colored in violet		
	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,			4-conductor ground terminal block, internal commoning,		
gray housing			ing, green-yellow housing		
Marker carrier with			Marker carrier with		
● PE/N	2000-2247	2000-2217 50	● PE	2000-2237	2000-2207 50
● PE/L	2000-2257	2000-2227 50			

Item-Specific Accessories

End and intermediate plate, 0.7 mm thick



orange 2000-2292 100 (4x25)
gray 2000-2291 100 (4x25)

End and intermediate plate, 0.7 mm thick



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



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)

Push-in type jumper bar, insulated, I_N 25 A, light gray



1 - 3 2000-433 200 (8x25)
1 - 4 2000-434 200 (8x25)
1 - 5 2000-435 100 (4x25)
: :
1 - 10 2000-440 100 (4x25)

Star point jumper, insulated,



I_N = I_N terminal block, light gray
1 - 3 - 5 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

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

0.25 - 2.5 (4) mm² ① | AWG 22 - 12
500 V/6 kV/3 | 300 V, 20 A ②
I_N 24 A (28 A) | 600 V, 20 A ③

Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in

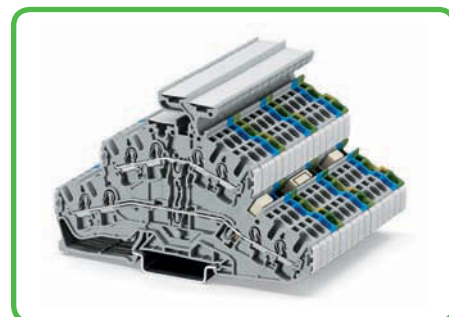
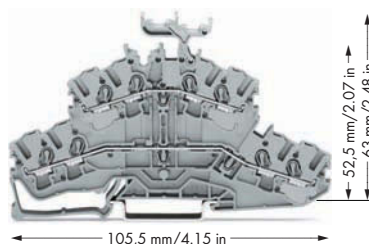
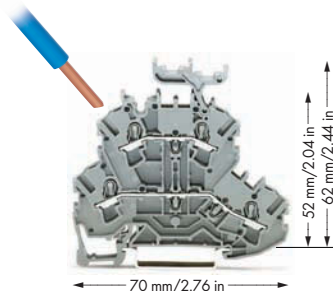
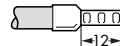
② Approvals

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"

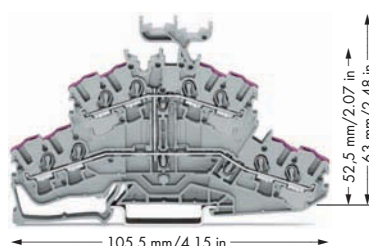
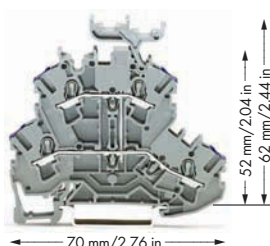
0.25 - 2.5 (4) mm² ① | AWG 22 - 12
800 V/8 kV/3 | 300 V, 20 A ②
I_N 24 A (28 A) | 600 V, 20 A ③

Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in

② Approvals



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
Through/through terminal block, gray housing			Through/through terminal block, gray housing			2-way 2002-402 200 (8x25)
Marker carrier with			Marker carrier with			3-way 2002-403 200 (8x25)
without			without			4-way 2002-404 200 (8x25)
● L/L 2002-2231	2002-2201	50	● L/L 2002-2431	2002-2401	50	5-way 2002-405 100 (4x25)
● N/L 2002-2232	2002-2202	50	● N/L 2002-2432	2002-2402	50	: : 10-way 2002-410 100 (4x25)
● L/N 2002-2233	2002-2203	50	● L/N 2002-2433	2002-2403	50	
Blue housing			Blue housing			Push-in type jumper bar, insulated, I_N 25 A, light gray
● N/N 2002-2234	2002-2204	50	● N/N 2002-2434	2002-2404	50	1 - 3 2002-433 200 (8x25)
Ground conductor/through terminal block, gray housing			Ground conductor/through terminal block, gray housing			1 - 4 2002-434 200 (8x25)
● PE/N 2002-2247	2002-2217	50	● PE/N 2002-2447	2002-2417	50	1 - 5 2002-435 100 (4x25)
● PE/L 2002-2257	2002-2227	50	● PE/L 2002-2457	2002-2427	50	: : 1 - 10 2002-440 100 (4x25)



Item No.	Item No.	Pack. Unit	Item No.	Item No.	Pack. Unit	2002 Series Accessories
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
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			2-way 2002-472 100 (4x25)
Marker carrier with			Marker carrier with			3-way 2002-473 100 (4x25)
without			without			4-way 2002-474 100 (4x25)
● L 2002-2238	2002-2208	50	● L 2002-2438	2002-2408	50	5-way 2002-475 50 (2x25)
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			: : 12-way 2002-482 50 (2x25)
● N 2002-2239	2002-2209	50	● N 2002-2439	2002-2409	50	TOPJOB®S connector, modular, for jumper contact slot
4-cond. double-deck terminal block, for DIN 35 rail			4-cond. double-deck terminal block, for DIN 35 rail			gray 2002-511 100 (4x25)
Ground conductor terminal block, internal commoning, green-yellow housing			Ground conductor terminal block, internal commoning, green-yellow housing			Spacer module
● PE 2002-2237	2002-2207	50	● PE 2002-2437	2002-2407	50	gray 2002-549 100 (4x25)
Item-Specific Accessories			Item-Specific Accessories			Protective warning marker, with high-voltage symbol, for 5 terminal blocks
End and intermediate plate, 0.8 mm thick			End and intermediate plate, 0.8 mm thick			yellow 2002-115 100 (4x25)
orange 2002-2292 100 (4x25)			orange 2002-2492 100 (4x25)			Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade
gray 2002-2291 100 (4x25)			gray 2002-2491 100 (4x25)			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

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

0.25 - 2.5 (4) mm² ① | AWG 22 - 12
800 V/8 kV/3 | 300 V, 20 A ②
I_N 24 A (28 A)

Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in

② Approvals

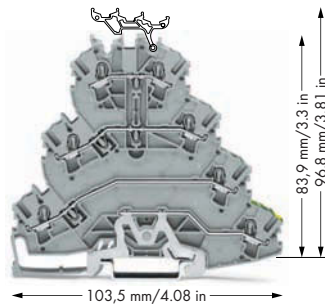
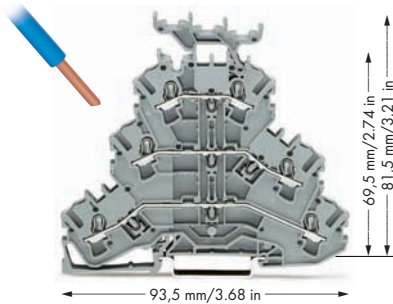
0.25 - 2.5 (4) mm² ① | AWG 22 - 12
800 V/8 kV/3 | 300 V, 20 A ②
I_N 24 A

Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in

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.



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

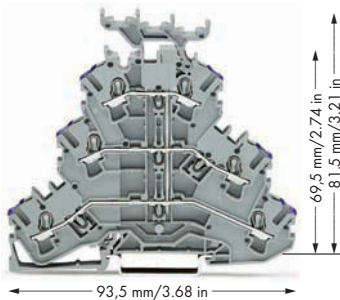


Marking clamping units with WMB Multi marking system (see Full Line Catalog, Volume 1, Section 13)
Group marking using marking strips.



Testing with test plug 2 mm Ø.

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



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	50
blue housing, conductor entry position colored in violet			
● N	2002-3239	2002-3209	50
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

Item-Specific Accessories Appropriate marking systems: WMB/Marking Strips

End and intermediate plate, 0.8 mm thick



orange 2002-3292 100 (4x25)
gray 2002-3291 100 (4x25)

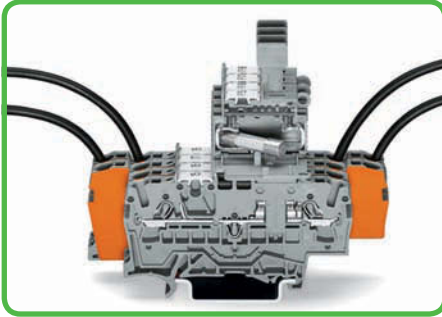
End and intermediate plate, 1 mm thick



orange 2002-4192 100 (4x25)
gray 2002-4191 100 (4x25)

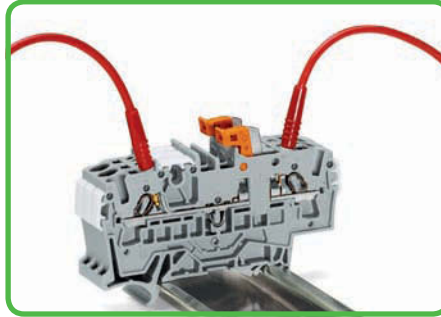
TOPJOB® Function Terminal Blocks 2002, 2004 and 2006 Series

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



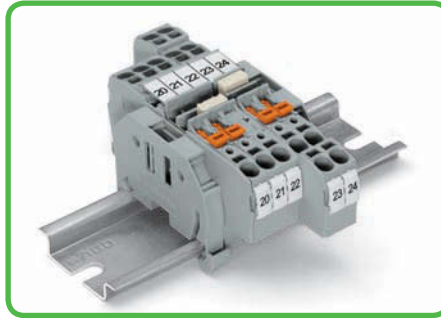
Designing custom circuits:
- via diode terminal blocks (e.g., collective fault signals)
- via LED terminal blocks (e.g., monitoring units).

Fuse replacement 1



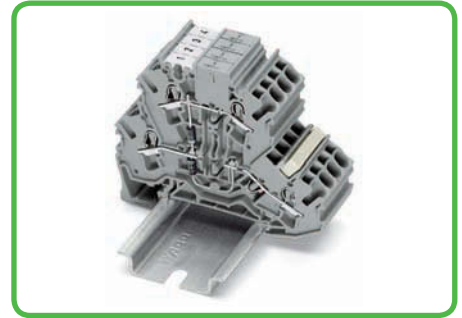
Before replacing the fuse, pivot the fuse holder into the locked open position.

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



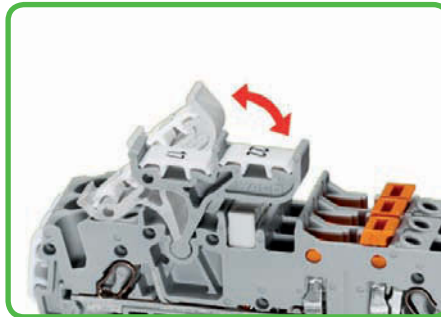
Custom circuit design via push-in type jumper bars. Example shows "lamp test circuit."

Fuse replacement 2



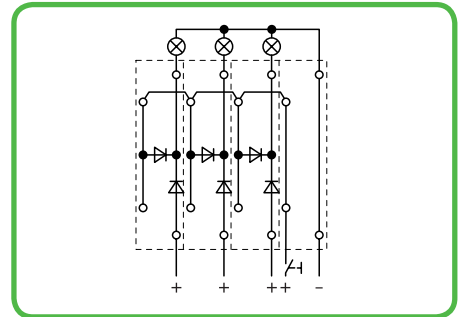
One end of the fuse is automatically ejected from the holder when opening the cover.

Additional marking



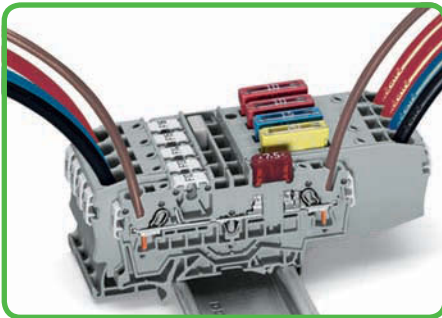
Additional marking option via pivoting marker carriers.

Application



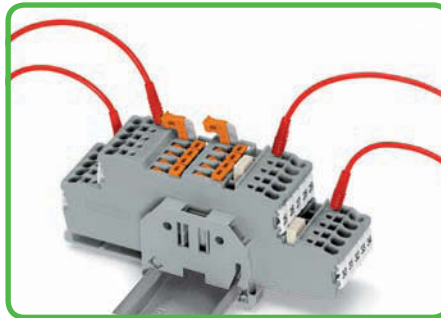
Lamp test circuit

Mini-automotive blade-style fuses



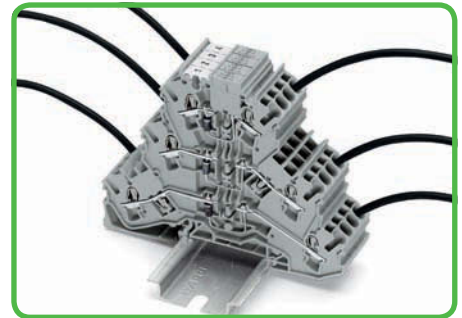
Fuse terminal block for mini-automotive blade-style fuses

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

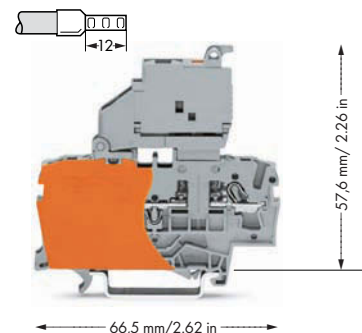
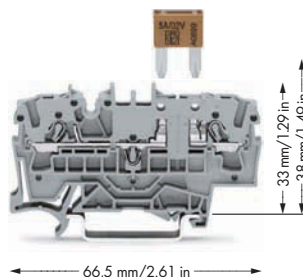
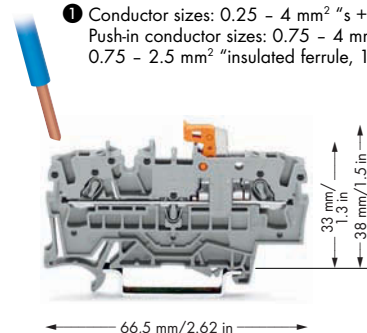


with pin terminal

Strip length, see packaging or instructions.

0.25 - 2.5 (4) mm ² 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) mm ² 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) mm ² ① AWG 22 - 12 250 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	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				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			2-conductor fuse terminal block with end plate,		
gray	2002-1601	50	- Block arrangement: 5 A			without blown fuse indication, gray		
blue	2002-1604	50	Protection against direct contact must be observed for					
orange	2002-1602	50	42 V and higher voltages!			2002-1611		50

Item-Specific Accessories

End and intermediate plate, 1 mm thick			End and intermediate plate, 1 mm thick		
orange	2002-1692	100 (4x25)	orange	2002-1692	100 (4x25)
gray	2002-1691	100 (4x25)	gray	2002-1691	100 (4x25)

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			Push-in type jumper bar, insulated, I_N 25 A, light gray			End plate for fuse terminal blocks, 2 mm thick																							
	2-way	2002-402 200 (8x25)		1 - 3	2002-433 200 (8x25)		orange	2002-992 100 (4x25)																					
	3-way	2002-403 200 (8x25)		1 - 4	2002-434 200 (8x25)		gray	2002-991 100 (4x25)																					
	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.			Disconnect plug for fuse terminal blocks, suitable			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.																							
Staggered jumper, insulated, I_N 25 A, light gray			when using the fuse terminal block as a disconnect terminal block																										
	2-way	2002-472 100 (4x25)		orange	2002-401 100 (4x25)																								
	3-way	2002-473 100 (4x25)	TOPJOB®S connector, modular,																										
	4-way	2002-474 100 (4x25)	for jumper contact slot																										
	5-way	2002-475 50 (2x25)	gray 2002-511 100 (4x25)																										
	:	:																											
	12-way	2002-482 50 (2x25)	Spacer module			Miniature metric fuses 5 x 20																							
Insulation stop, 5 pcs/strip			gray 2002-549 100 (4x25)																										
	light gray	2002-1710 0.25–0.5 mm ²	Protective warning marker, with high-voltage symbol,																										
	dark gray	2002-172 0.75–1 mm ²	for 5 terminal blocks																										
Test plug adapter, for test plug 4 mm Ø			yellow	2002-115 100 (4x25)																									
	2009-174	100 (4x25)	Operating tool with partially insulated shaft,																										
	Testing tap, for max. 2.5 mm²/AWG 14	2009-182 100 (4x25)		type 2, (3.5 x 0.5) mm blade		<table><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><tr><td>2002-1611</td><td rowspan="2">1.6 W</td><td rowspan="2">1.6 W</td><td rowspan="2">2.5 W</td><td rowspan="2">2.5 W</td></tr><tr><td>2002-1811</td></tr><tr><td>2002-1811/.....</td><td rowspan="2">1.6 W</td><td rowspan="2">1.6 W</td><td rowspan="2">2.5 W</td><td rowspan="2">2.5 W</td></tr><tr><td>2002-1611/.....</td></tr></table>			Series Item No.	Overload and short circuit protection		Short circuit protection only		Individual arrangement	Group arrangement	Individual arrangement	Group arrangement	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																									
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/.....																													
Test plug, with 500 mm cable, 2 mm Ø			210-720 1																										
	red	210-136 50 (5x10)	● Approval for Ex i applications (pending) ⚡ Approval for Ex e II applications (pending)																										
Insulated ferrules, extra long,																													
	for TOPJOB®S terminal blocks, see page 195																												

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.

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

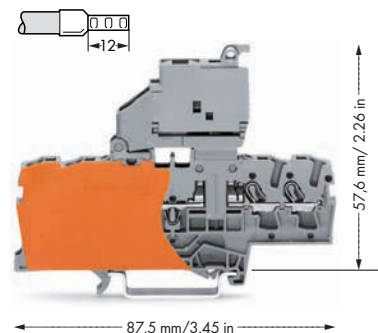
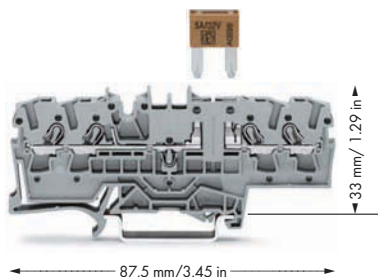
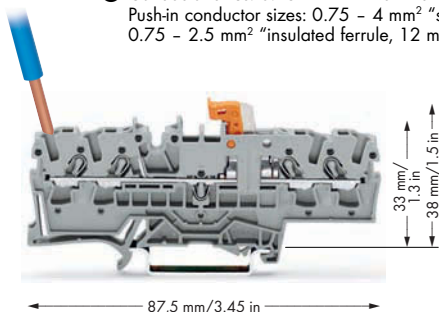
③ Approvals

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						120 V ≈	2002-1811/1000-867 50
gray	2002-1801	50	- Individual arrangement: 10 A			230 V ≈	2002-1811/1000-836 50
blue	2002-1804	50	- Block arrangement: 5 A			4-conductor fuse terminal block with end plate,	
orange	2002-1802	50	Protection against direct contact must be observed for 42 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)

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)

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)

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 mm ² /AWG 14		
	2009-182	100 (4x25)

Test plug, with 500 mm cable, 2 mm Ø

red	210-136	50 (5x10)
-----	---------	-----------

Double-deck marker carrier,

pivoting		
gray	2002-121	50 (2x25)

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)

Disconnect plug for fuse terminal blocks, suitable

when using the fuse terminal block as a disconnect terminal block		
orange	2002-401	100 (4x25)

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)

WMB Multi marking system,

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

- Approval for Ex i applications (pending)
- ⓧ Approval for Ex e II applications (pending)

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)

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

Insulated ferrules, extra long,

for TOPJOB®S terminal blocks, see page 195		
--	--	--

Operating tool with partially insulated shaft,

type 2, (3.5 x 0.5) mm blade		
	210-720	1

End plate for fuse terminal blocks, 2 mm thick

orange	2002-992	100 (4x25)
gray	2002-991	100 (4x25)

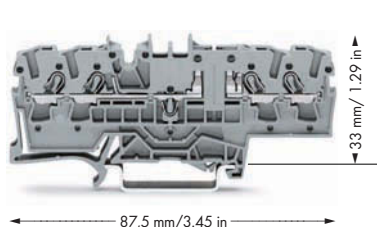
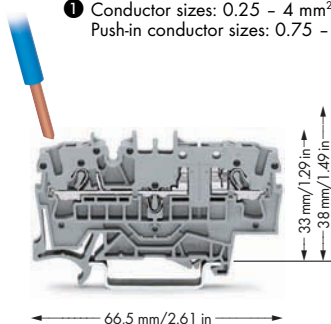
② Nominal voltage and current are given by the fuse or blown fuse indicator!

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
--	--	---

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
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			Item-Specific Accessories			⑤ Empty component plug housing, type 1,	
End and intermediate plate, 1 mm thick			End and intermediate plate, 1 mm thick			2-pole	
orange	2002-1692	100 (4x25)	orange	2002-1892	100 (4x25)	5.2 mm wide	
gray	2002-1691	100 (4x25)	gray	2002-1891	100 (4x25)	2002-800	100
2002 Series Accessories Appropriate marking systems: WMB/Marking Strips/WMB Inline			2002 Series Accessories Appropriate marking systems: WMB/Marking Strips/WMB Inline			⑥ Empty component plug housing, type 2,	
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-pole	
2-way	2002-402	200 (8x25)	1 - 3	2002-433	200 (8x25)	5.2 mm wide	
3-way	2002-403	200 (8x25)	1 - 4	2002-434	200 (8x25)	2002-810	50
4-way	2002-404	200 (8x25)	1 - 5	2002-435	100 (4x25)	⑥ Empty component plug housing, type 3,	
5-way	2002-405	100 (4x25)	:	:	:	4-pole	
:	:	:	1 - 10	2002-440	100 (4x25)	10.4 mm wide	
10-way	2002-410	100 (4x25)				2002-820	50
For step-down jumpers, see page 31.			TOPJOB®S connector, modular,			⑤ Diode module, with 1N4007 diode,	
Staggered jumper, insulated, I_N 25 A, light gray			for jumper contact slot			max. operating temperature 85 °C,	
2-way	2002-472	100 (4x25)	gray	2002-511	100 (4x25)	5.2 mm wide	
3-way	2002-473	100 (4x25)				2002-800/1000-411	100
4-way	2002-474	100 (4x25)	Spacer module			⑤ LED module, with red LED,	
5-way	2002-475	50 (2x25)				max. operating temperature 85 °C, 5.2 mm wide	
:	:	:				12 - 30 V AC/DC	2002-800/1000-541
12-way	2002-482	50 (2x25)				30 - 65 V AC/DC	2002-800/1000-542
Insulation stop, 5 pcs/strip						230 V AC/DC	2002-800/1000-836
light gray	2002-171	0.25-0.5 mm ²	Protective warning marker, with high-voltage symbol,			⑤ Shorting link, 5 x 20 mm, 6.3 A,	
dark gray	2002-172	0.75-1 mm ²	for 5 terminal blocks			if the fuse plug is used as a discon-	
Test plug adapter, for test plug 4 mm Ø			yellow	2002-115	100 (4x25)	nect plug	
	2009-174	100 (4x25)	Banana plugs, only for safety extra-low voltage (42 V)			281-503	250 (10x25)
Testing tap, for max. 2.5 mm²/AWG 14			black	215-311	50		
	2009-182	100 (4x25)	red	215-212	50		
Marking strips, plain			blue	215-711	50		
11 mm wide,			WMB Multi marking system,				
50m roll			10 strips with 10 markers per card,				
white	2009-110	1	stretchable 5 - 5.2 mm				
End plate for fuse terminal blocks, 2 mm thick			plain	793-5501	50 (10x5)		
orange	2002-992	100 (4x25)					
gray	2002-991	100 (4x25)					

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

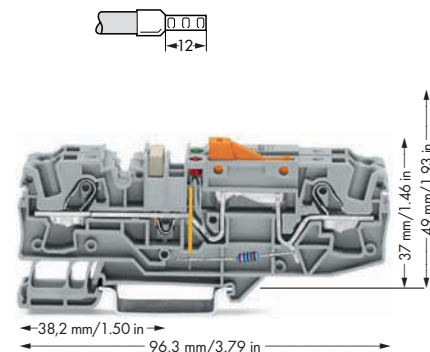
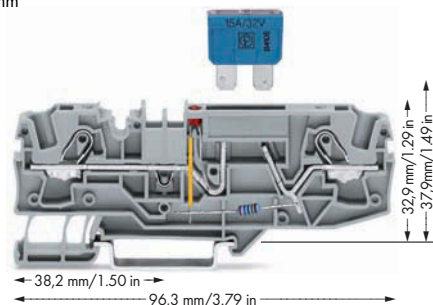
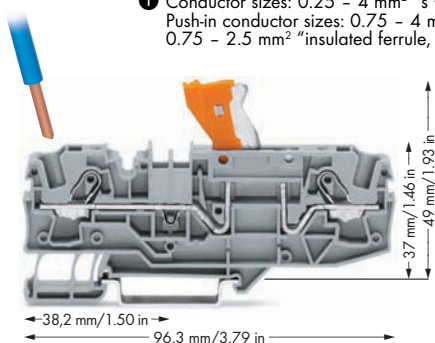
③ Approvals

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

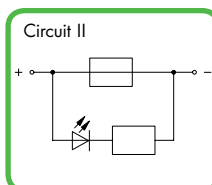
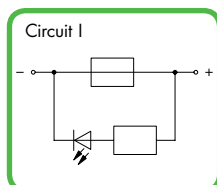
③ Approvals

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			2-cond. fuse term. block for mini-automotive fuses, 12 V, with blown fuse indication by LED, with test option, gray		Ground conductor disconnect terminal block, gray	
gray	2006-1671	25	Circuit I	2006-1681/1000-429	24 V AC/DC	2006-1671/1000-848
blue	2006-1674	25	Circuit II	2006-1681/1000-449	48 V AC/DC	2006-1671/1000-849
2-conductor through terminal block, same profile					120 V AC/DC	2006-1671/1000-850
gray	2006-1601	25			230 V AC/DC	2006-1671/1000-851
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			End and intermediate plate, 1 mm thick		End and intermediate plate, 1 mm thick	
orange	2006-1692	100 (4x25)	orange	2006-1692	100 (4x25)	orange 2006-1692 100 (4x25)
gray	2006-1691	100 (4x25)	gray	2006-1691	100 (4x25)	gray 2006-1691 100 (4x25)
2006 Series Accessories Appropriate marking systems: WMB/Marking Strips/WMB Inline						
Push-in type jumper bar, insulated, I_N 41 A, light gray			Push-in type jumper bar, insulated, I_N 41 A, light gray		Push-in type jumper bar, insulated, I_N 41 A, light gray	
2-way	2006-402	50 (2x25)	2-way	2006-402	50 (2x25)	2-way 2006-402 50 (2x25)
3-way	2006-403	50 (2x25)	3-way	2006-403	50 (2x25)	
4-way	2006-404	50 (2x25)	4-way	2006-404	50 (2x25)	
5-way	2006-405	50 (2x25)	5-way	2006-405	50 (2x25)	
Push-in type jumper bar, insulated, I_N 41 A, light gray			Push-in type jumper bar, insulated, I_N 41 A, light gray		Protective warning marker, with high-voltage symbol, for 5 terminal blocks	
1 - 3	2006-433	50 (2x25)	1 - 3	2006-433	50 (2x25)	yellow 2006-115 100 (4x25)
1 - 4	2006-434	50 (2x25)	1 - 4	2006-434	50 (2x25)	
1 - 5	2006-435	50 (2x25)	1 - 5	2006-435	50 (2x25)	
Protective warning marker, with high-voltage symbol, for 5 terminal blocks			Disconnect plug for fuse terminal blocks, suitable when using the fuse terminal block as a disconnect terminal block		WMB Multi marking system, 10 strips with 10 markers per card	
yellow	2006-115	100 (4x25)	orange	2006-401	100 (4x25)	stretchable 5 - 5.2 mm
Test plug adapter, for test plug 4 mm Ø			Blade-style fuses, acc. to DIN 72581-3c/ISO 8820 (not offered by WAGO)		plain 793-5501 50 (10x5)	
	2009-174	100 (4x25)			Insulated ferrules, extra long, for TOPJOB®S terminal blocks, see page 195	
Testing tap, for max. 2.5 mm²/AWG 14	2009-182	100 (4x25)				
Banana plugs, only for safety extra-low voltage (42 V)			Overcurrent circuit breaker*, thermal not offered by WAGO		Operating tool with partially insulated shaft, type 3, (5.5 x 0.8) mm blade	
black	215-311	50			210-721 1	
red	215-212	50				
blue	215-711	50				

*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

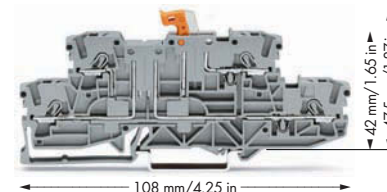
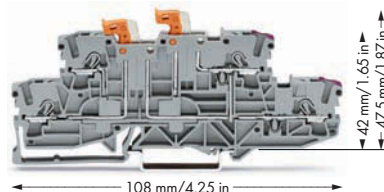
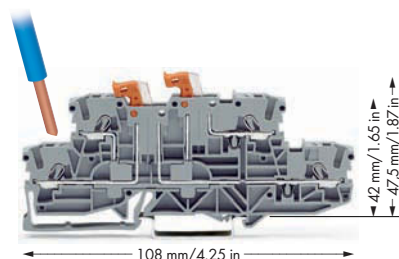


② Nominal voltage and current are given by the fuse or blown fuse indicator!

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

0.25 - 2.5 (4) mm ² 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) mm ² 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) mm ² 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
--	--	--

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
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

End and intermediate plate, 1 mm thick orange 2002-2992 100 (4x25) gray 2002-2991 100 (4x25)	End and intermediate plate, 1 mm thick orange 2002-2992 100 (4x25) gray 2002-2991 100 (4x25)	End and intermediate plate, 1 mm thick orange 2002-2992 100 (4x25) gray 2002-2991 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 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 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 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)	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)	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)
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	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	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)	TOPJOB®S connector , modular, for jumper contact slot gray 2002-511 100 (4x25)	TOPJOB®S connector , modular, for jumper contact slot gray 2002-511 100 (4x25)
Spacer module gray 2002-549 100 (4x25)	Spacer module gray 2002-549 100 (4x25)	Spacer module gray 2002-549 100 (4x25)
Test plug adapter , for test plug 4 mm Ø 2009-174 100 (4x25) Testing tap , for max. 2.5 mm ² /AWG 14 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	Operating tool with partially insulated shaft , type 2, (3.5 x 0.5) mm blade 210-720 1
Protective warning marker , with high-voltage symbol, for 5 terminal blocks yellow 2002-115 100 (4x25)	Ex e II approvals (pending)	Marking strips , plain 11 mm wide, 50m roll white 2009-110 1

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

0.25 - 2.5 (4) mm² ① | AWG 22 - 12
V_N 250 V; V_{RM} 1000 V
1N4007 - 0.5 A continuous current

Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in
④ Approvals

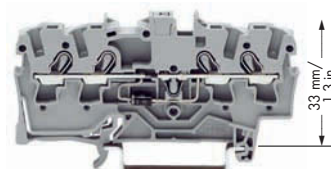
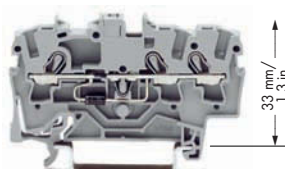
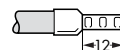
0.25 - 2.5 (4) mm² ① | AWG 22 - 12
② U_N 250 V; U_{RM} 1000 V
1N4007 - 0.5 A continuous current
③ 24 VDC / I_F 0.025 A max.

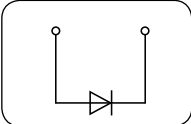
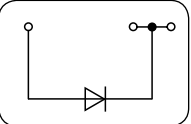
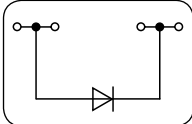
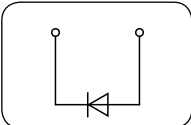
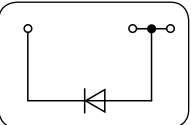
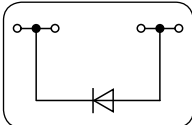
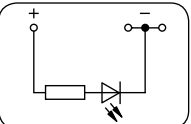
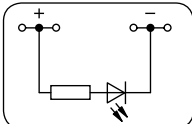
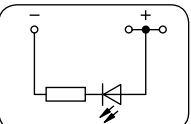
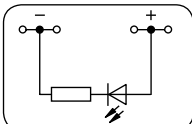
Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in
④ Approvals

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.

Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in
④ 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"



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

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)

2002 Series Accessories

Appropriate marking systems: WMB/Marking Strips/WMB Inline

Push-in type jumper bars, light gray, insulated, I_N 25 A

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

1 - 3 2002-433 200 (8x25)
1 - 4 2002-434 200 (8x25)
1 - 5 2002-435 100 (4x25)
: :
1 - 10 2002-440 100 (4x25)

Staggered jumper, light gray, insulated, I_N 25 A

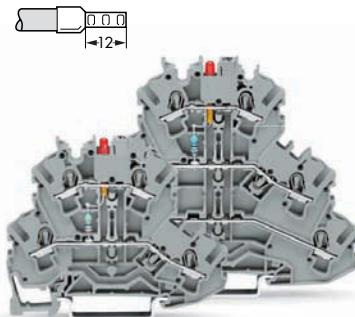
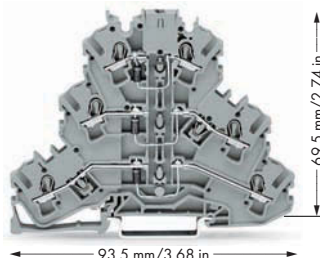
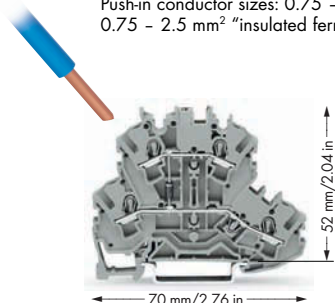
2-way 2002-472 100 (4x25)
3-way 2002-473 100 (4x25)
4-way 2002-474 100 (4x25)
5-way 2002-475 50 (2x25)
: :
12-way 2002-482 50 (2x25)

Double- and Triple-Deck Diode Terminal Blocks

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

0.25 - 2.5 (4) mm ² ① AWG 22 - 12 V _N 250 V; V _{RM} 1000 V 1N4007 – 0.5 A continuous current Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in ④ Approvals	0.25 - 2.5 (4) mm ² ① AWG 22 - 12 V _N 250 V; V _{RM} 1000 V 1N4007 – 0.5 A continuous current Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in ④ Approvals	0.25 - 2.5 (4) mm ² ① AWG 22 - 12 24 VDC I _F 25 mA max. Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in ④ 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"



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
	Double-deck diode terminal block with 1N4007 diode (II) 2002-2211/1000-411 50		Triple-deck diode terminal block with 3 1N4007 diodes (II) 2002-3212/1000-673 50		Double-deck diode terminal block with red LED, 24 VDC 2002-2221/1000-413 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 2 1N4007 diodes (II) 2002-2214/1000-491 50
	Double-deck diode terminal block with 2 1N4007 diodes (II) 2002-2214/1000-491 50		Triple-deck diode terminal block with 3 1N4007 diodes (II) 2002-3212/1000-674 50		Double-deck diode terminal block with red LED, 24 VDC 2002-2221/1000-413 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		Double-deck diode terminal block with 2 1N4007 diodes (II) 2002-2213/1000-488 50
	Double-deck diode terminal block with 2 1N4007 diodes (II) 2002-2213/1000-488 50		Triple-deck diode terminal block with 1N4007 diode 2002-3211/1000-675 50		Double-deck diode terminal block with 2 1N4007 diodes (I) 2002-2214/1000-489 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		Double-deck diode terminal block with 2 1N4007 diodes (II) 2002-2214/1000-490 50
	Double-deck diode terminal block with 2 1N4007 diodes (II) 2002-2214/1000-490 50		Triple-deck diode terminal block with 1N4007 diode 2002-3211/1000-676 50		Double-deck diode terminal block with 2 1N4007 diodes (I) 2002-2214/1000-489 50
	Double-deck diode terminal block with 2 1N4007 diodes (II) 2002-2214/1000-490 50		Triple-deck diode terminal block with 1N4007 diode 2002-3211/1000-676 50		Double-deck diode terminal block with 2 1N4007 diodes (II) 2002-2214/1000-490 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

End and intermediate plate, 0.8 mm thick orange 2002-2292 100 (4x25) gray 2002-2291 100 (4x25)	End and intermediate plate, 0.8 mm thick orange 2002-3292 100 (4x25) gray 2002-3291 100 (4x25)	End and intermediate plate, 0.8 mm thick orange 2002-3292 100 (4x25) gray 2002-3291 100 (4x25)
---	---	---

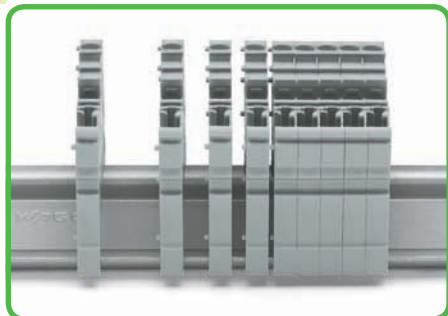
2002 Series Accessories

Appropriate marking system: WMB/WMB Inline

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)	Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade 210-720 1
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	WMB Multi marking system, 10 strips with 10 markers per card, stretchable 5 – 5.2 mm plain 793-5501 50 (10x5)

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



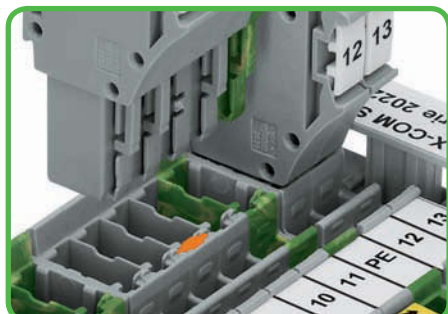
Carrier terminal block: inserting/removing conductor via screwdriver (3.5 x 0.5 mm).

Coding

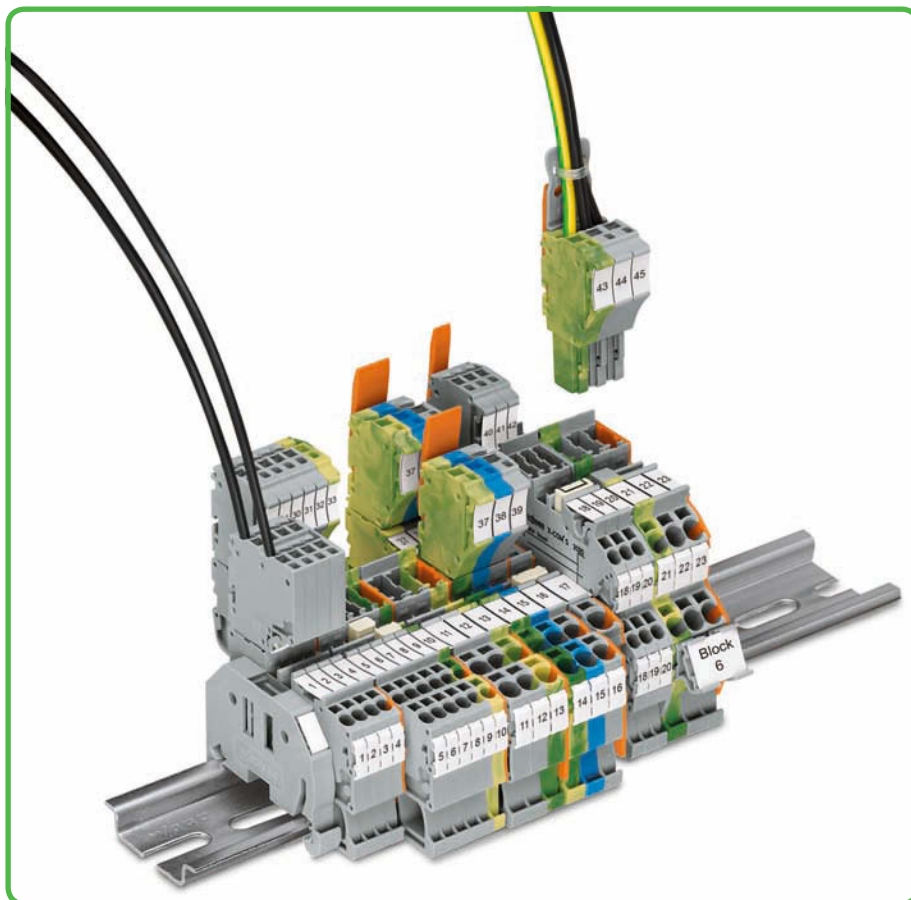


Coding a female plug: remove coding finger using a suitable tool.

Coding



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

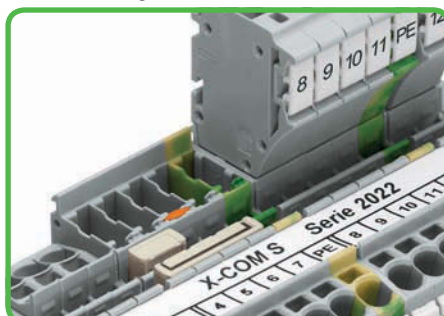


Marking

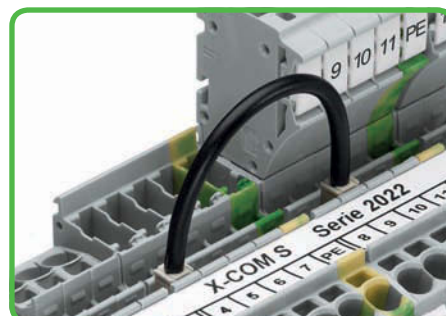


Marking terminal blocks via marking strips or WMB Multi markers.

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

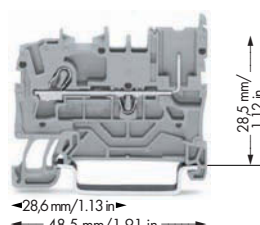
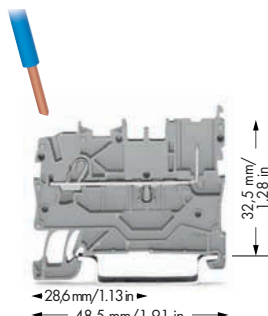
2020 and 2022 Series

CAGE CLAMP® S

1
45

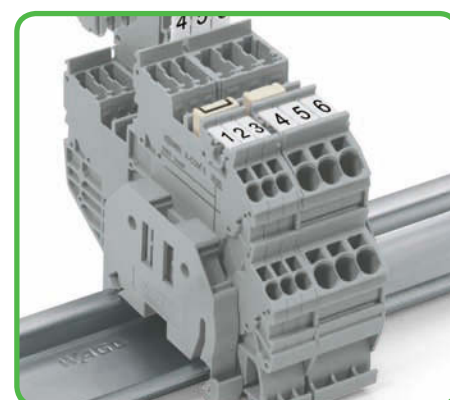
1

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

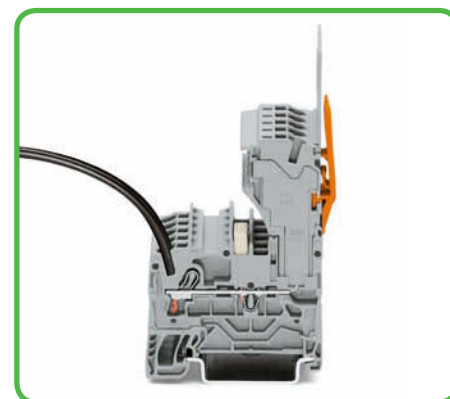


- ① Conductor sizes: 0.14 - 1.5 mm² "s + f-st"; Push-in conductor sizes: 0.5 - 1.5 mm² "s" and 0.5 - 0.75 mm² "insulated ferrule, 10 mm"
- ② Conductor sizes: 0.25 - 4 mm² "s + f-st"; Push-in conductor sizes: 0.75 - 4 mm² "s" and 0.75 - 2.5 mm² "insulated ferrule, 12 mm"
- ③ Derating curves available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

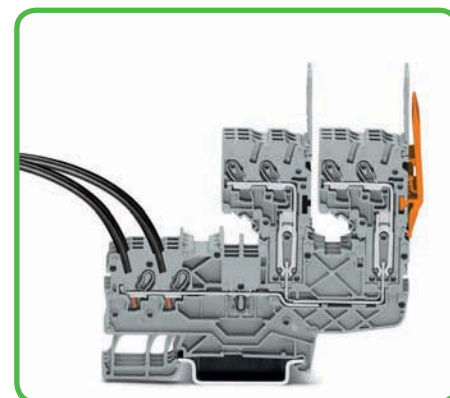
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
1-conductor/1-pin carrier terminal block, suitable for DIN 35 rail acc. to EN 60715			1-conductor/1-pin carrier terminal block, suitable for DIN 35 rail acc. to EN 60715		
gray	2020-1201	50	gray	2022-1201	100
blue	2020-1204	50	blue	2022-1204	100
1-conductor/1-pin 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	2022-1491	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



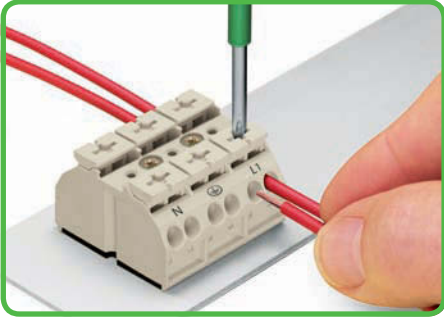
2-conductor female plugs on 2-conductor/2-pin carrier terminal block

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

4-Conductor, Chassis-Mount Terminal Strips

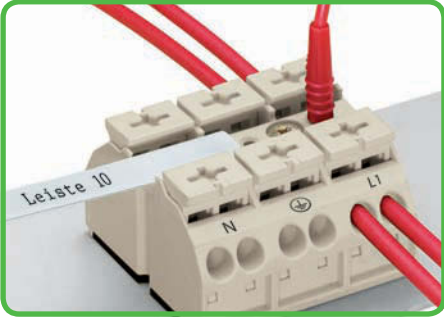
Description and Handling, 862 Series

Conductor termination



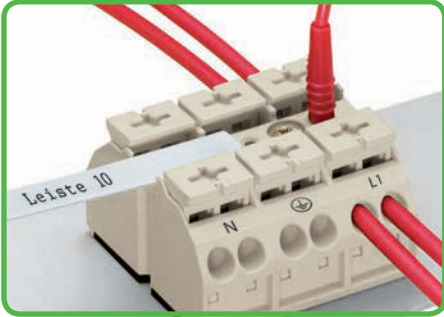
Four conductors per pole for solid and fine-stranded conductors.

Marking



Marking
Direct, one-side printing
Marking strips

Testing



Testing
with test plug 2 mm Ø.

Ground contact (PE contact)

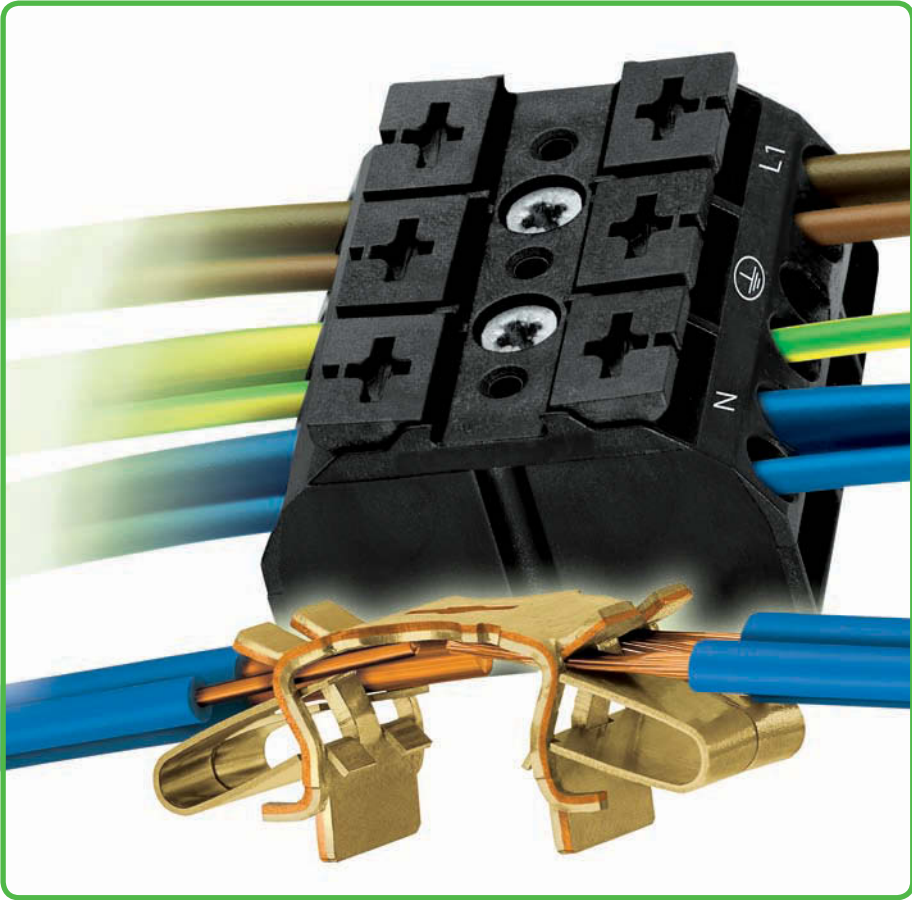


Makes an automatic contact to the mounting plate. The varnish coating is penetrated automatically.

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

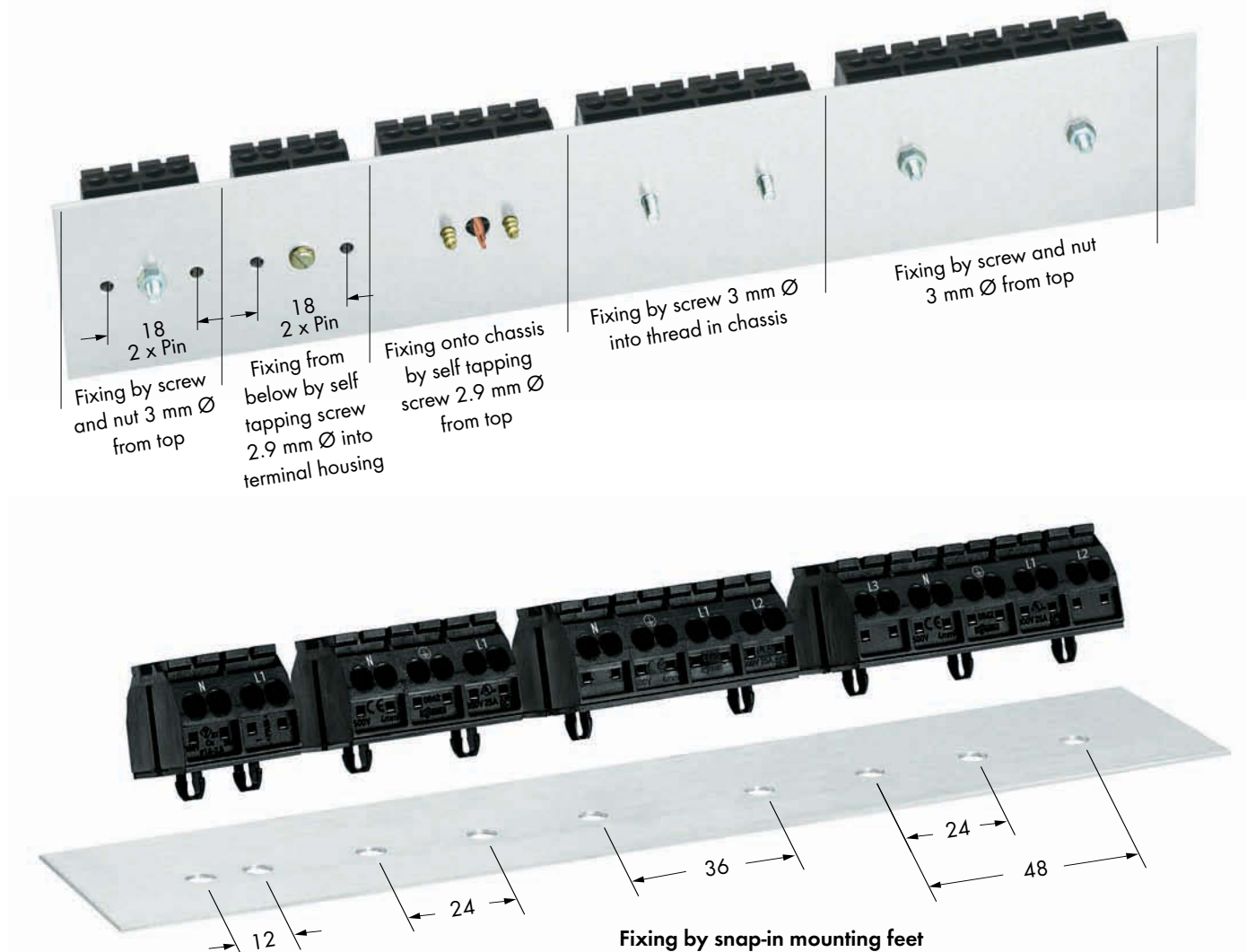


tip bonded

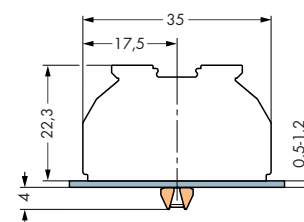
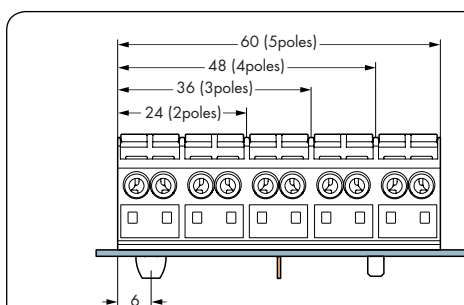
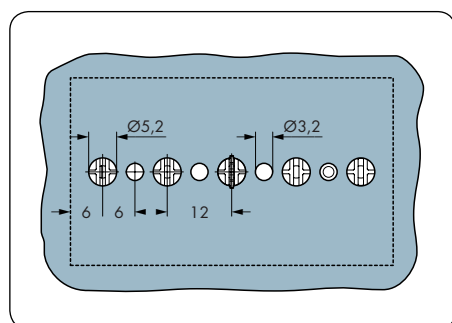


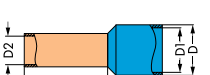
with ferrule

Strip length, see packaging or instructions.



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 500 V/6 kV/3 I_N 32 A	AWG 20 - 12 300 V, 20 A  300 V, 20 A 	0.5 - 4 mm² 500 V/6 kV/3 I_N 32 A	AWG 20 - 12 300 V, 20 A  300 V, 20 A 
	 10 - 11 mm / 0.41 in		 10 - 11 mm / 0.41 in	
	 Approvals		 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"



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

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

4-Conductor, Chassis-Mount Terminal Strips

4- and 5-Pole, 4 mm²

862 Series

CAGE CLAMP® S

1

49

1

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

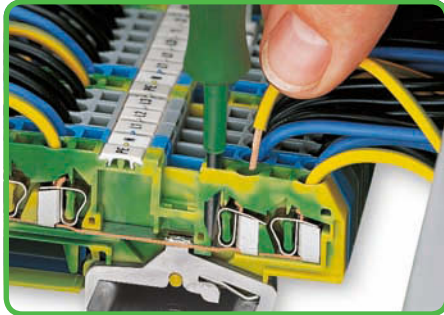
Comb-style jumper bar , simply push into conductor entry hole I _N 32 A 862-482 5	Test plug , with 500 mm cable, 2 mm Ø red 210-136 50	Test plug , with 500 mm cable, 2.3 mm Ø yellow 210-137 50
Operating tool with partially insulated shaft , type 2, (3.5 x 0.5) mm blade 210-720 1	Suitable for Ex e II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

For technical explanations and abbreviations, see technical section.

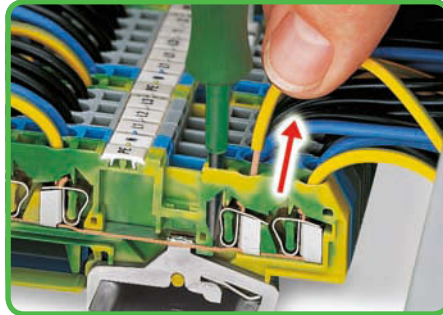
WAGO®

Rail-Mounted Terminal Blocks 279 to 285 Series

Conductor termination/removal

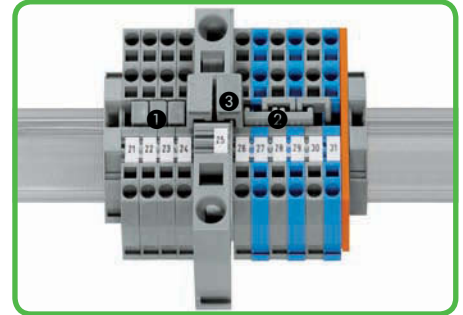


Inserting conductor via screwdriver.



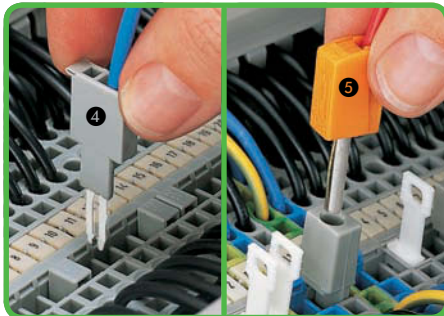
Removing conductor via screwdriver.

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

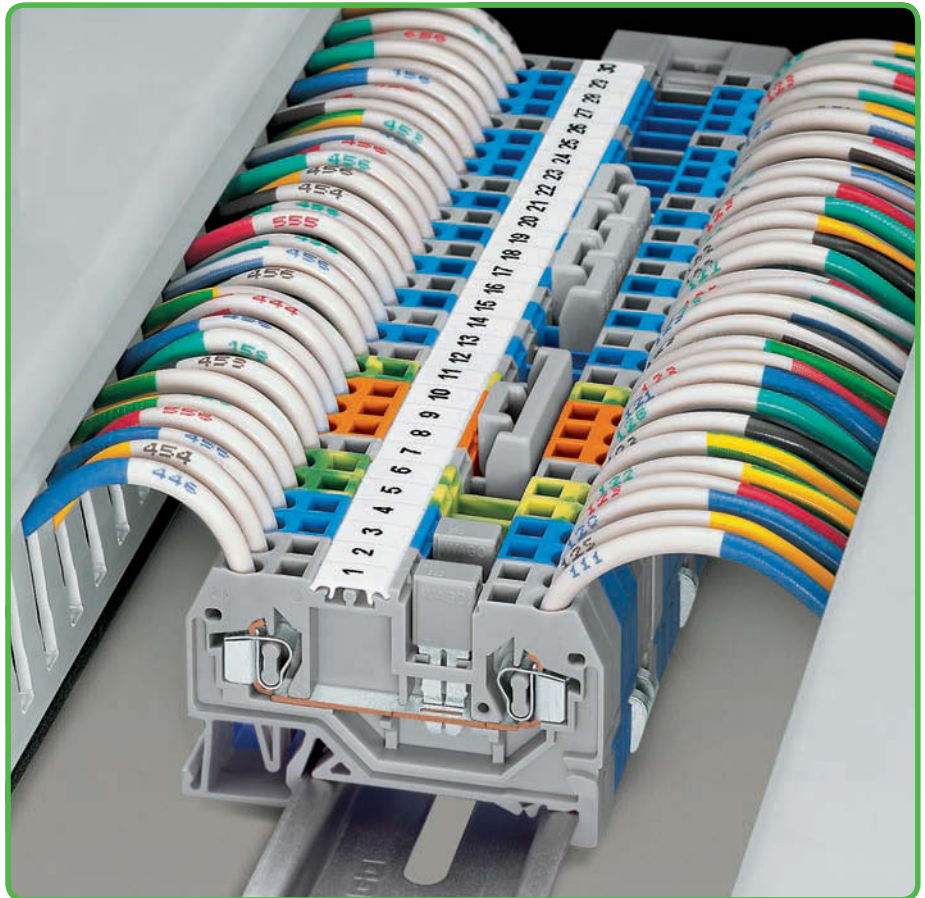


4 Test plug adapter fitted with CAGE CLAMP®
5 Banana plug (4 mm Ø) via 209-170 test plug adapter

Warning cover/Insulation stop

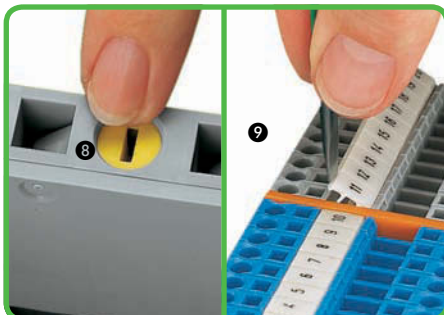


6 Protective warning markers inserted into operating slots.
7 Inserting insulation stop.



Finger guard

Marking

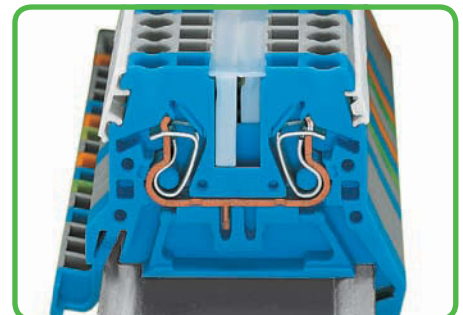


8 Touchproof cover protects unused conductor entries.
9 Marking via WMB Multi markers.



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

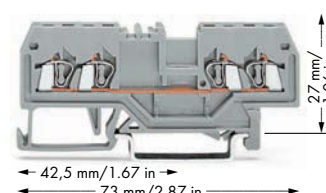
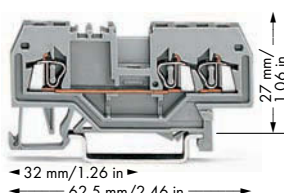
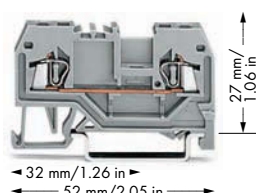
1.5 mm²

279 Series

CAGE CLAMP®

1
51

0.08 - 1.5 mm ² 800 V/8 kV/3 I _N 18 A Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 16 600 V, 10 A 600 V, 10 A	0.08 - 1.5 mm ² 800 V/8 kV/3 I _N 18 A Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 16 600 V, 10 A 600 V, 10 A	0.08 - 1.5 mm ² 800 V/8 kV/3 I _N 18 A Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 16 600 V, 10 A 600 V, 10 A
--	---	--	---	--	---



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 Ex	279-992	100	light gray Ex	279-993	100	light gray Ex	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 Ex	279-907/999-950	100	green-yellow Ex	279-687/999-950	100	green-yellow Ex	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**

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

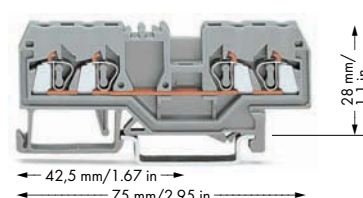
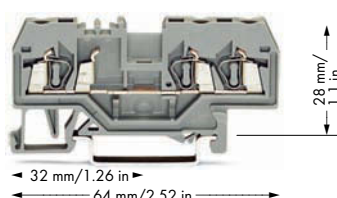
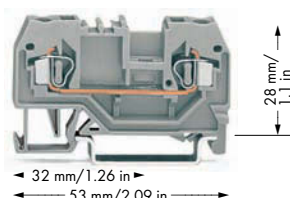
① Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

WAGO®

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

0.08 - 2.5 mm ² 800 V/8 kV/3 I _N 24 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 12* 600 V, 20 A 600 V, 20 A	0.08 - 2.5 mm ² 800 V/8 kV/3 I _N 24 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 12* 600 V, 20 A 600 V, 10 A	0.08 - 2.5 mm ² 800 V/8 kV/3 I _N 20 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 12* 600 V, 20 A 600 V, 10 A
--	--	--	--	--	--



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

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**

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

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

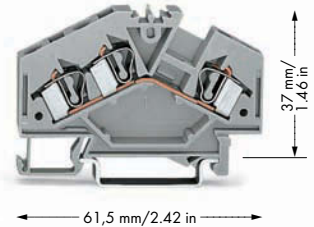
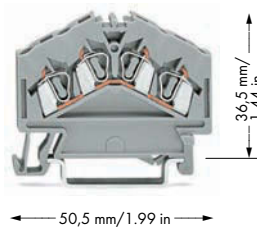
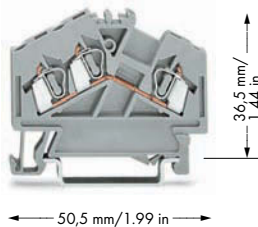
CAGE CLAMP®

1

53

1

0.08 - 2.5 mm² 800 V/8 kV/3 I_N 24 A Terminal block width 5 mm / 0.197 in  8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 12* 600 V, 20 A  600 V, 20 A 	0.08 - 2.5 mm² 800 V/8 kV/3 I_N 24 A Terminal block width 5 mm / 0.197 in  8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 12* 600 V, 20 A  600 V, 20 A 	0.08 - 4 mm² 800 V/8 kV/3 I_N 32 A Terminal block width 6 mm / 0.236 in  9 - 10 mm / 0.37 in ① Approvals	AWG 28 - 12 600 V, 20 A  600 V, 20 A 
--	---	--	---	---	--



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:			green-yellow	281-637	100
green-yellow	280-637	100	These terminal blocks can only be commoned with			green-yellow (Ex)	281-637/999-950	100
green-yellow (Ex)	280-637/999-950	100	280 Series comb-style jumper bars!					
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			281 Series			Appropriate marking system: WMB		
Adjacent jumper, insulated, I_N 24 A			Protective warning marker, with high-voltage symbol,			Adjacent jumper, insulated, I_N 24 A		
gray	280-402	200 (8x25)	for 5 terminal blocks			gray	281-402	200 (8x25)
yellow-green	280-422	200 (8x25)	yellow	280-415	100 (4x25)	yellow-green	281-422	200 (8x25)
Alternate jumper, insulated, I_N 24 A			Screwless end stop,			Alternate jumper, insulated, I_N 24 A		
gray	280-409	100 (4x25)	6 mm wide	249-116	100 (4x25)	gray	281-409	100 (4x25)
			10 mm wide	249-117	50 (2x25)			
Staggered jumper, insulated, I_N 24 A,			Test plug adapter, for terminal blocks 1.5 - 4 mm²			Staggered jumper, insulated, I_N 24 A,		
spacing 5 mm			(AWG 16 - 12), 5 mm wide			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	280-470	0.08-0.2 mm ² (AWG 28-24)			
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,			● Suitable for Ex i applications			● Suitable for Ex i applications		
type 2, (3.5 x 0.5) mm blade			(Ex) Suitable for Ex e II applications			(Ex) Suitable for Ex e II applications		
	210-720	1	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		

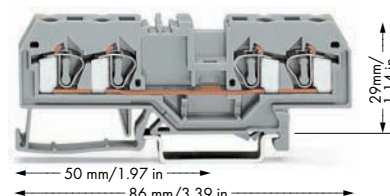
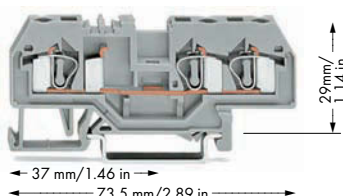
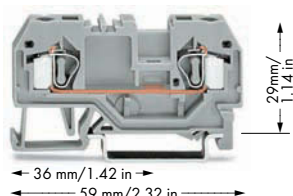
Please find the entire product range in our Full Line Catalog, Volume 1. Additional information at www.wago.com.

* AWG 12: THHN, THWN

WAGO®

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

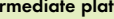
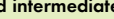
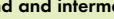
0.08 - 4 mm² 800 V/8 kV/3 I_N 32 A AWG 28 - 12 600 V, 20 A  600 V, 20 A  Terminal block width 6 mm / 0.236 in  9 - 10 mm / 0.37 in  Approvals	0.08 - 4 mm² 800 V/8 kV/3 I_N 32 A AWG 28 - 12 600 V, 20 A  600 V, 20 A  Terminal block width 6 mm / 0.236 in  9 - 10 mm / 0.37 in  Approvals	0.08 - 4 mm² 800 V/8 kV/3 I_N 26 A AWG 28 - 12 600 V, 20 A  600 V, 20 A  Terminal block width 6 mm / 0.236 in  9 - 10 mm / 0.37 in  Approvals
--	--	--



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
						4-conductor shield terminal block		
						 white	281-658	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

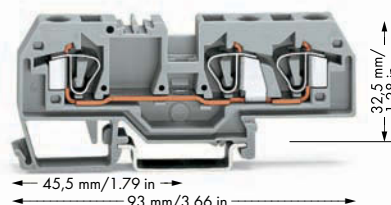
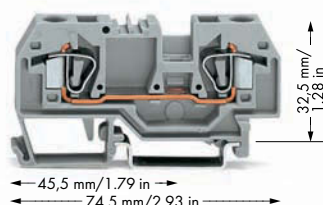
Appropriate marking system: **WMB**

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 mm²  (AWG 16-12), 5 mm wide 280-404 100 (4x25) for 210-137 test plug Test plug adapter, for terminal blocks 1.5-10 mm²  (AWG 16-12), 8 mm wide 209-170 50 (2x25) for test plug 4 mm Ø
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)

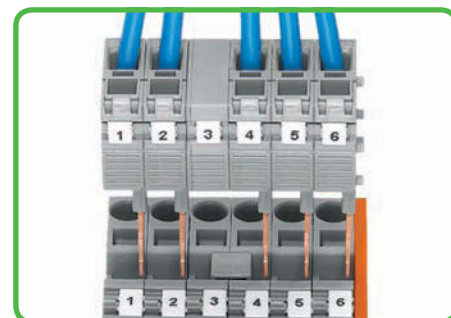
Through/Ground Conductor and Ex Terminal Blocks 6 mm², 282 Series

Test Plug Modules with CAGE CLAMP®, 249 and 709 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, 40 A 	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, 40 A 	Test plug modules for 280, 281, 282 and 284 Series rail-mounted terminal blocks
---	--	---	--	--



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 	282-992	50	light gray 	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 	282-907/999-950	50	green-yellow 	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)	
						Test plug module with CAGE CLAMP®,	
						can be snapped together, gray, module width 8 mm,	
						suitable for all WAGO 282 Series rail-mounted terminal	
						blocks, version using jumper contact position in current bar	
						709-310 100 (4x25)	
						Spacer module , e.g., bridging commoned terminal blocks,	
						can be snapped together, gray, module width 8 mm	
						709-311 100 (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)	
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				
orange	282-328	100 (4x25)	orange	282-339	100 (4x25)		
gray	282-325	100 (4x25)	gray	282-308	100 (4x25)		
light gray	282-330	100 (4x25)	light gray	282-341	100 (4x25)		
Separator, oversized, 2 mm thick			Separator, oversized, 2 mm thick				
orange	282-329	100 (4x25)	orange	282-340	100 (4x25)		
gray	282-326	100 (4x25)	gray	282-309	100 (4x25)		
light gray	282-331	100 (4x25)	light gray	282-342	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)		
Step-down jumper, insulated			10 mm wide	249-117	50 (2x25)		
gray		50 (2x25)	Test plug adapter, for terminal blocks 1.5 - 10 mm²				
			(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			⊗ Suitable for Ex e II applications				
gray 282-358 25			0.5 - 6 mm ² AWG 20 - 10				
			550 V, 39 A 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

0.2 - 10 mm²
800 V/8 kV/3
I_N 57 A

AWG 24 - 8
600 V, 50 A
600 V, 54 A

Terminal block width 10 mm / 0.394 in
 12 - 13 mm / 0.49 in

Approvals

0.2 - 10 mm²
800 V/8 kV/3
I_N 57 A

AWG 24 - 8
600 V, 50 A
600 V, 54 A

Terminal block width 10 mm / 0.394 in
 12 - 13 mm / 0.49 in

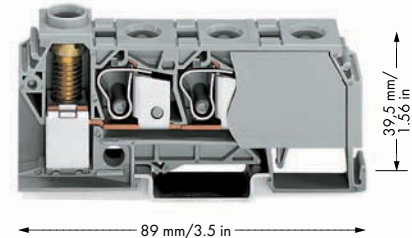
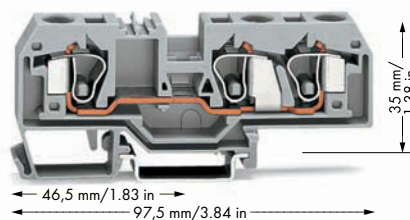
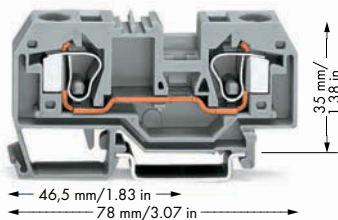
Approvals

0.2 - 10 mm² ①
6 - 35 mm² ②
800 V/8 kV/3, I_N 125 A

AWG 24 - 8 ①
AWG 10 - 2 ②
600 V, 115 A

Terminal block width 17.5 mm / 0.689 in
 12 - 14 mm / 0.51 in

Approvals



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			

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick

orange 284-328 100 (4x25)
gray 284-325 100 (4x25)
light gray 284-330 100 (4x25)



End and intermediate plate, 2.5 mm thick

orange 284-339 100 (4x25)
gray 284-308 100 (4x25)
light gray 284-341 100 (4x25)



Separator, oversized, 2 mm thick

orange 284-329 100 (4x25)
gray 284-326 100 (4x25)
light gray 284-331 100 (4x25)



Separator, oversized, 2 mm thick

orange 284-340 100 (4x25)
gray 284-309 100 (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 mm²

(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
284/282 - 282/281 284-413 I_N 30 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



Suitable for Ex e II applications
0.5 - 10 mm² AWG 20 - 8
550 V, 53 A

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.

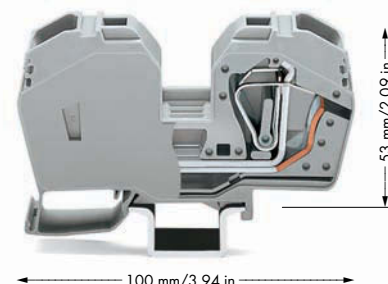
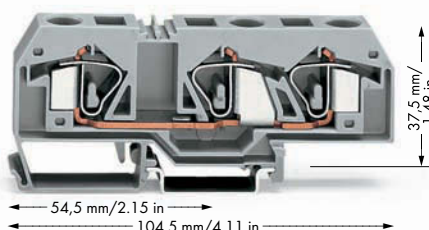
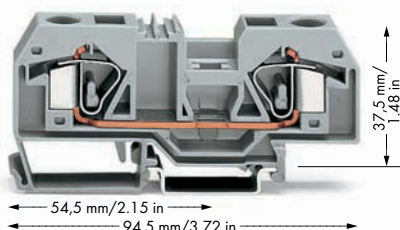
Comb-style jumper bar, insulated, individual arrangement

I_N 125 A - 2 jumpers combined in one clamping unit 100 A, 2-way
gray 284-412 100 (4x25)



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

0.2 - 16 mm ² 800 V/8 kV/3 I _N 76 A Terminal block width 12 mm / 0.472 in 16 - 17 mm / 0.65 in ③ Approvals	AWG 24 - 6 600 V, 65 A 600 V, 70 A	0.2 - 16 mm ² 800 V/8 kV/3 I _N 76 A Terminal block width 12 mm / 0.472 in 16 - 17 mm / 0.65 in ③ Approvals	AWG 24 - 6 600 V, 65 A 600 V, 70 A	6 - 35 mm ² 1000 V/8 kV/3 I _N 125 A Terminal block width 16 mm / 0.63 in 23 mm / 0.91 in ③ Approvals	AWG 8 - 2 600 V, 115 A 600 V, 140 A
---	--	---	--	---	---



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	 light gray 	285-992	15
 light gray 	283-992	20	 light gray 	283-998	20	2-conductor ground terminal block		
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!					



Item-Specific Accessories

End and intermediate plate, 2.5 mm thick			End and intermediate plate, 2.5 mm thick			 Termination of 35 mm²/AWG 2 conductor		
	orange 283-328	50 (2x25)		orange 283-352	50 (2x25)			
	gray 283-325	50 (2x25)		gray 283-350	50 (2x25)			
	light gray 283-330	50 (2x25)		light gray 283-354	50 (2x25)			
Separator, oversized, 2 mm thick			Separator, oversized, 2 mm thick			285 Series Appropriate marking systems: Miniature WSB WMB		
	orange 283-329	50 (2x25)		orange 283-353	50 (2x25)			
	gray 283-326	50 (2x25)		gray 283-351	50 (2x25)			
	light gray 283-331	50 (2x25)		light gray 283-355	50 (2x25)			
283 Series Accessories			Appropriate marking system: WMB					
Adjacent jumper, insulated, I_N 70 A			Protective warning marker, with high-voltage symbol, for 5 terminal blocks			Adjacent jumper, insulated, I_N 85 A		
	gray 283-402	50 (2x25)		yellow 283-415	50 (2x25)		gray 285-435	50 (2x25)
Alternate jumper, insulated, I_N 76 A			Finger guard,			Step-down jumper, insulated, I_N 32 A,		
	gray 283-409	50 (2x25)		touch-proof cover protects unused conductor entries			from 35 mm²/AWG 2 to 4 mm²/AWG 12	
Test plug adapter, for terminal blocks 1.5 - 16 mm² (AWG 16-6), 11.6 mm wide			Banana plugs, only for safety extra-low voltage (42 V)			Protective warning marker, with high-voltage symbol, for 5 terminal blocks		
	283-404	25		black 215-311	50		yellow 285-416	50 (2x25)
Step-down jumper, insulated, I_N 32 A, 16 mm²/AWG 6 to 4 mm²/AWG 12			Operating tool with partially insulated shaft, type 3, [5.5 x 0.8] mm blade			Finger guard,		
	gray 283-414	50 (2x25)		blue 215-711	50		touch-proof cover protects unused conductor entries	
Cover plate, for step-down jumper application only, 1 mm thick, for 2-conductor terminal blocks			Ex Suitable for Ex e II applications			Ex Suitable for Ex e II applications		
	gray 283-357	25	0.5 - 16 mm² AWG 20 - 6			6 - 35 mm² AWG 8 - 2		
			550 V, 68 A Jumper 63 A			750 V, 120 A AWG 8 - 4		
						6 - 25 mm² for ground terminal blocks		

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

④ 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



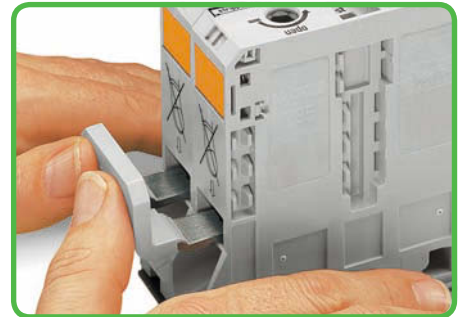
Unlock the locking tab with a short counterclockwise turn of the Allen wrench ①. When unlocked (click), allow Allen wrench to rotate clockwise (automatic) ② to securely terminate the conductor.

Jumpers 35 mm²/AWG 2



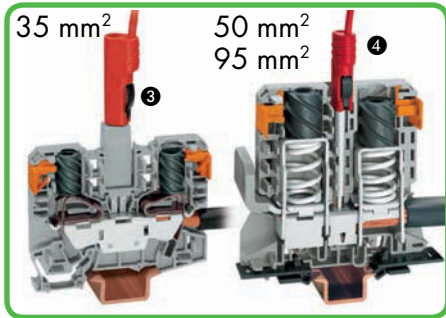
Commoning adjacent terminals with a simple push-in jumper.

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



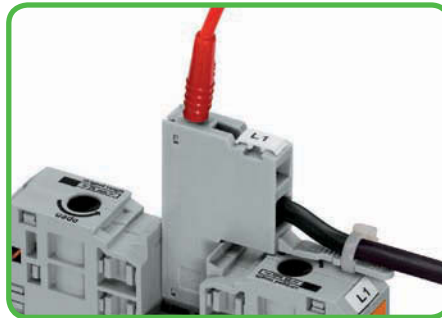
Commoning with adjacent jumper: tool-free insertion of jumper above the conductor entry hole. Rated cross section is still 50 mm²/AWG 2/0 and 95 mm²/AWG 4/0.

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

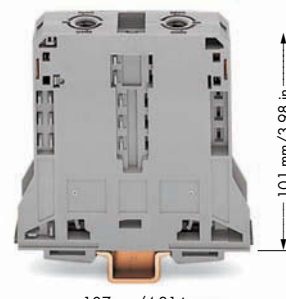
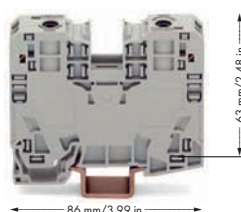
35 mm², 50 mm² and 95 mm²

285 Series

POWER
CAGE CLAMP®

1
59

6 - 35 mm² 1000 V/8 kV/3 I _N 125 A Terminal block width 16 mm / 0.63 in 25 mm / 0.98 in Ⓢ Approvals	AWG 8 - 2 600 V, 115 A Ⓢ 600 V, 115 A Ⓢ	10 - 50 (70 "f-st") mm² 1000 V/8 kV/3 I _N 150 A Terminal block width 20 mm / 0.787 in 30 mm / 1.18 in Ⓢ Approvals	AWG 8 - 1 600 V, 150 A Ⓢ 600 V, 150 A Ⓢ	25 - 95 mm² 1000 V/8 kV/3 I _N 232 A Terminal block width 25 mm / 0.98 in 35 mm / 1.38 in Ⓢ Approvals	AWG 4 - 4/0 600 V, 200 A Ⓢ 600 V, 210 A Ⓢ
---	--	---	--	--	--



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, Ⓢ gray 285-435 50 (2x25) I _N 85 A	Adjacent jumper, insulated, Ⓢ gray 285-450 25 I _N 150 A for 1 jumper I _N 130 A for 2 to 4 jumpers	Adjacent jumper, insulated, Ⓢ gray 285-495 25 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), Ⓢ module width 8 mm / 0.315 in gray 285-427 5	Voltage Tap, I_N 41 A, 0.2-6 mm² (24-10), Ⓢ module width 16 mm / 0.63 in gray 285-447 5	Voltage Tap, I_N 57 A, 0.2-10 mm² (24-80)/16 mm² (AWG 6), Ⓢ 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 210-721 1	Allen wrench with partially insulated shaft 8 mm 285-172 1	Allen wrench with partially insulated shaft 8 mm 285-172 1
Protective warning marker, with high-voltage symbol, black yellow 285-420 50 (2x25)	Protective warning marker, with high-voltage symbol, black yellow 285-440 50 (2x25)	Protective warning marker, with high-voltage symbol, black yellow 285-170 50 (2x25)
Finger guard, touch-proof cover protects unused conductor entries yellow 285-421 100 (4x25)	Finger guard, touchproof cover protects unused conductor entries and jumper slots yellow 285-441 100 (4x25)	Finger guard, touchproof cover protects unused conductor entries and jumper slots 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 Postfach 1606, 79551 Weil am Rhein, Hegenheimerstraße 19 79576 Weil am Rhein	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	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
Copper carrier rail, as per EN 60715, 35 x 15 mm, 2.3 mm thick, 2 m long unslotted 210-198 10	Copper carrier rail, as per EN 60715, 35 x 15 mm, 2.3 mm thick, 2 m long unslotted 210-198 10	Copper carrier rail, as per EN 60715, 35 x 15 mm, 2.3 mm thick, 2 m long unslotted 210-198 10
Marking strip, 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 5	(Ex) Suitable for Ex e II applications 25 - 95 mm ² AWG 4 - 4/0 750 V, 195 A 35 - 70 mm ² AWG 2 - 2/0 for ground terminal blocks

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

For technical explanations and abbreviations, see technical section.

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

WAGO®

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 | 300 V, 15 A 
300/600 V, 20/5 A 

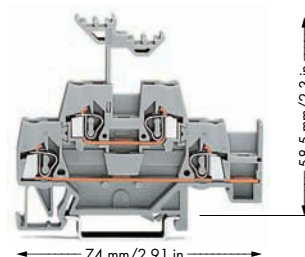
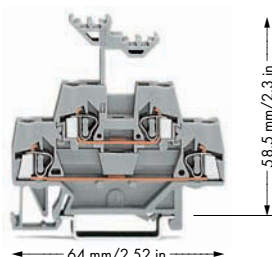
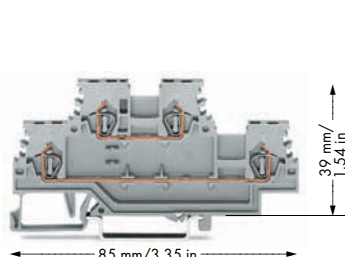
Terminal block width 5 mm / 0.197 in
8 - 9 mm / 0.33 in

① Approvals

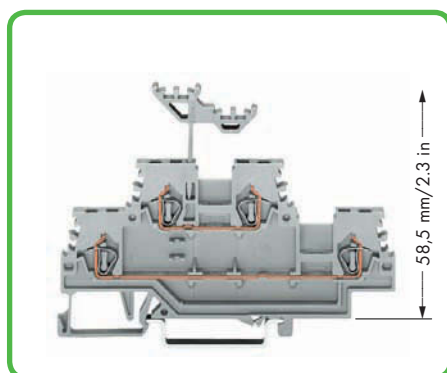
0.08 - 2.5 mm² | AWG 28 - 12*
500 V/6 kV/3
I_N 20 A | 300 V, 15 A 
300/600 V, 20/5 A 

Terminal block width 5 mm / 0.197 in
8 - 9 mm / 0.33 in

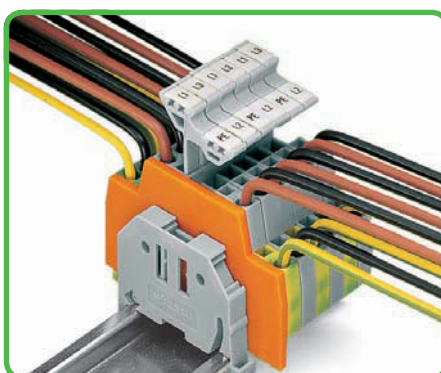
① Approvals



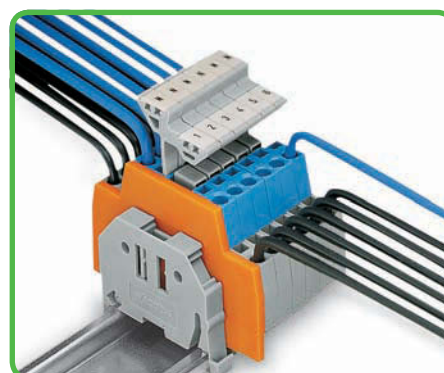
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Through/through terminal block, colored conductor entry position			Through/through terminal block			Through/through terminal block with horizontal jumpering on lower level		
 gray	279-501	50	 gray	280-519	50	 gray	280-520	50
 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
			Through/Disconnect	280-521	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			280 Series Accessories			Appropriate marking system: WMB		
WSB double-deck marker carrier			 Suitable for Ex i applications			Vertical jumper, insulated, I _N 24 A		
	279-529	50 (2x25)					gray	281-421
For additional accessories, see page 51.						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

0.08 - 4 mm²
500 V/6 kV/3
I_N 26 A

AWG 28 - 12
600 V, 20 A 
600 V, 10 A 

Terminal block width 6 mm / 0.236 in
9 - 10 mm / 0.37 in

① Approvals

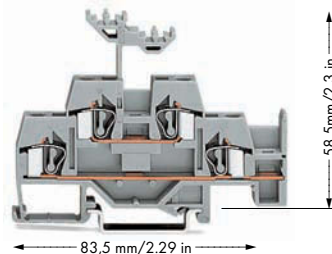
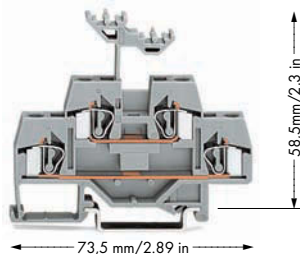
0.08 - 4 mm²
500 V/6 kV/3
I_N 26 A

AWG 28 - 12
600 V, 20 A 
600 V, 10 A 

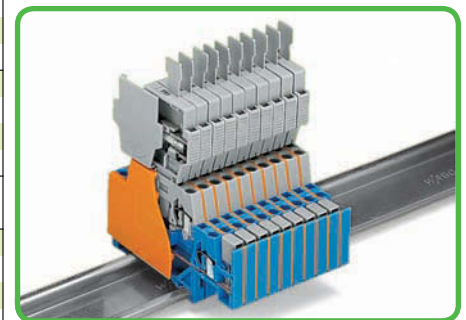
Terminal block width 6 mm / 0.236 in
9 - 10 mm / 0.37 in

① Approvals

Application Notes:



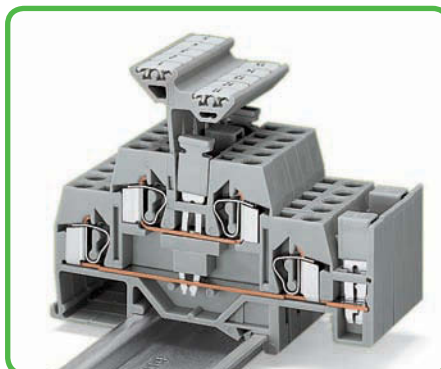
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Through/through terminal block			Through/through terminal block with horizontal jumpering on lower level		
 gray	281-619	50	 gray	281-620	50
 blue	281-629	50	 blue	281-630	50
Other terminal blocks with the same profile:					
Diode	281-634/281-434	Volume 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

0.08 - 2.5 mm² | AWG 28 - 12*
500 V/6 kV/3 | 300 V, 15 A 
I_N 20 A | 300 V, 20 A 

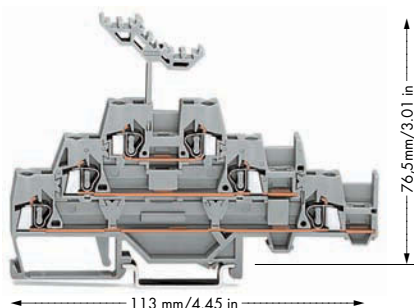
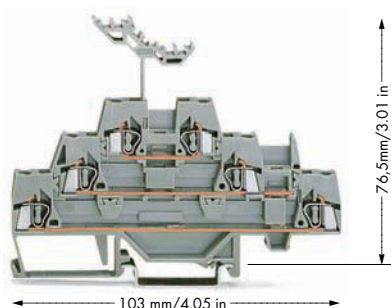
Terminal block width 5 mm / 0.197 in
8 - 9 mm / 0.33 in

① Approvals

0.08 - 2.5 mm² | AWG 28 - 12*
500 V/6 kV/3 | 300 V, 15 A 
I_N 20 A | 300 V, 20 A 

Terminal block width 5 mm / 0.197 in
8 - 9 mm / 0.33 in

① Approvals



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		
gray	280-549	40	gray	280-550	40
blue	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					
green-yellow	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**

Vertical jumper, insulated, I_N 24 A



gray 281-421 200 (8x25)

For additional accessories, see page 52.

● Suitable for Ex i applications

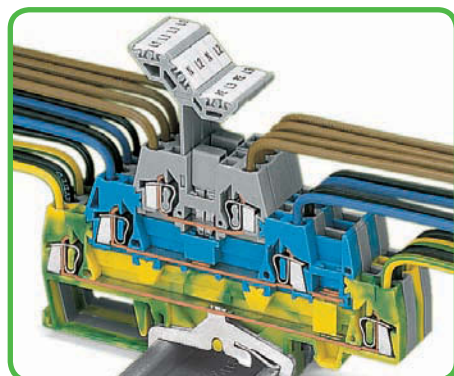
Operating tool with partially insulated shaft,



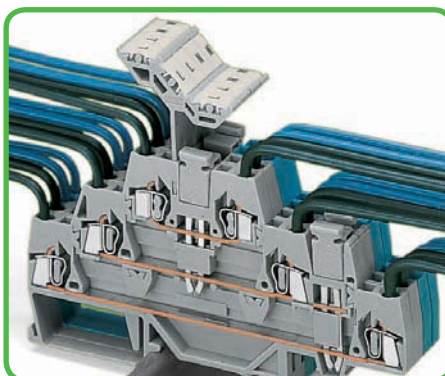
type 2, [3.5 x 0.5] mm blade

210-720 1

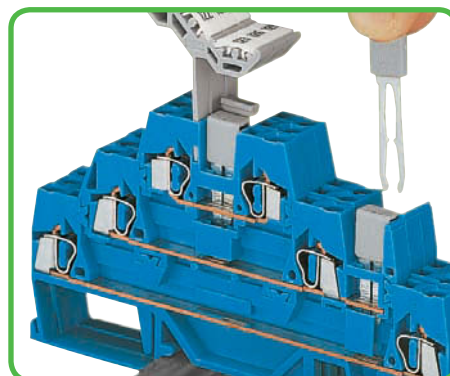
Application Notes:



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

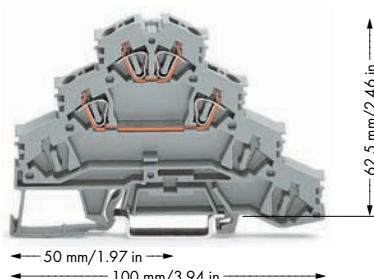
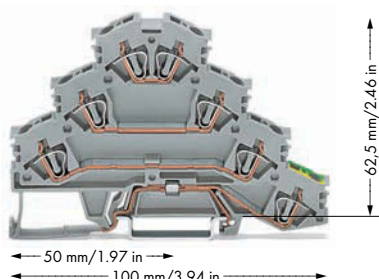
For technical explanations and abbreviations, see technical section.

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

CAGE CLAMP®

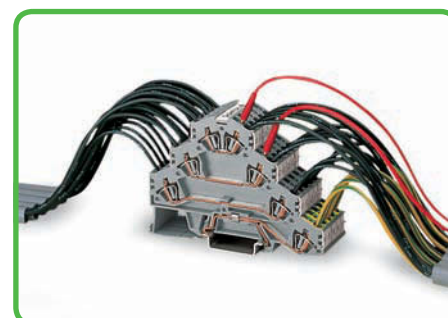
1
63

0.08 - 4 mm ² 400 V/6 kV/3 I _N 20 A (2.5 mm ²) I _N 25 A (4 mm ²) Terminal block width 6 mm / 0.236 in 8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 12 600 V, 20 A 300 V, 25 A	0.08 - 4 mm ² 400 V/6 kV/3 I _N 20 A (2.5 mm ²) I _N 25 A (4 mm ²) Terminal block width 6 mm / 0.236 in 8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 12 600 V, 20 A 300 V, 25 A	Application Notes:
---	---	---	---	--------------------

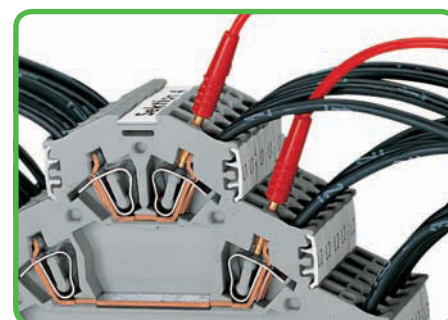


Commoning

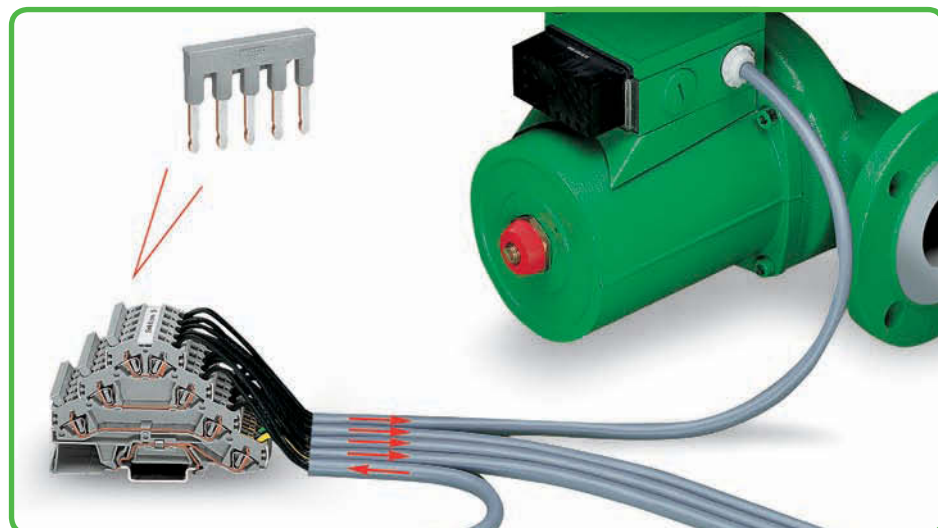
Item No.	Pack. Unit	Item No.	Pack. Unit
Rail-mounted terminal block for electric motor wiring, gray		Rail-mounted terminal block for electric motor wiring, gray	
● L1 - L2 - L3 - PE 281-530	50	● L1 - L2 281-531	50
		● L1 - L2 - L3 281-532	50
End and intermediate plate, 1 mm thick		End and intermediate plate, 1 mm thick	
orange 281-366	100 (4x25)	orange 281-366	100 (4x25)
gray 281-365	100 (4x25)	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)		
3-way 281-483	100 (4x25)		
5-way 281-485	100 (4x25)		
Operating tool, insulated		white 281-470	0.08-0.2 mm ² (AWG 28-24)
2-way 280-432	1	light gray 281-471	0.25-0.5 mm ² (AWG 12-20)
3-way 280-433	1	dark gray 281-472	0.75-1.5 mm ² (AWG 18-16)
5-way 281-440	1		
Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade		Test plug, with 500 mm cable	
210-720	1	2 mm Ø 210-136	50 (5x10)
		2.3 mm Ø 210-137	50 (5x10)
Screwless end stop, for DIN 35 rail		Marking strip, plain,	
6 mm wide 249-116	100 (4x25)	7.5 mm wide,	
10 mm wide 249-117	50 (2x25)	50m roll	
		translucent 709-177	1



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.

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



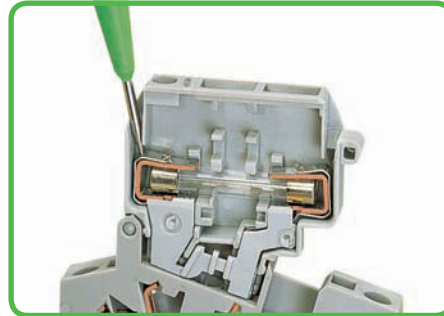
Disconnecting by pulling the disconnecting tab (red = disconnected).

Fuse replacement 1



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

Testing



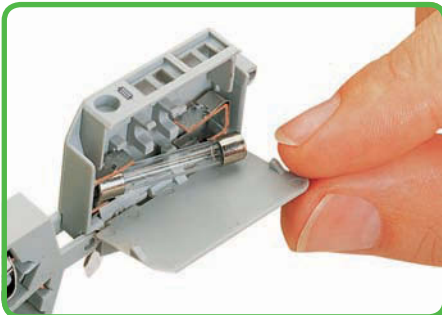
Voltage test, either at input or output with fuse holder in closed position (live).

Commoning



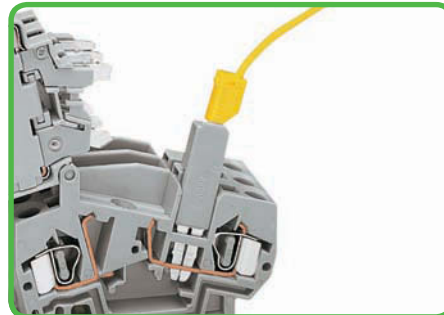
Commoning using comb-style jumper bars.

Fuse replacement 2



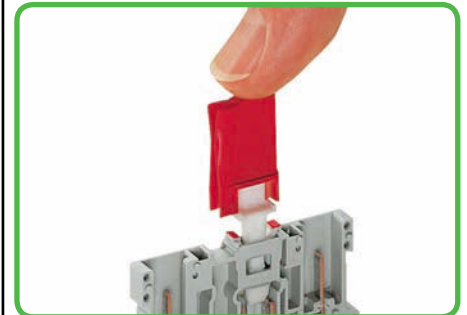
One end of the fuse is automatically ejected from the holder when opening the cover.

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.

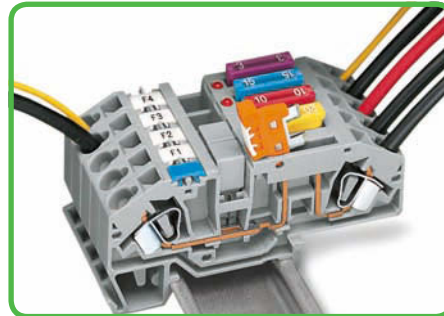


CAGE CLAMP®
clamps the following
copper conductors:*

solid

Strip length, see packaging or instructions.

Fuse terminal blocks for mini-automotive fuses



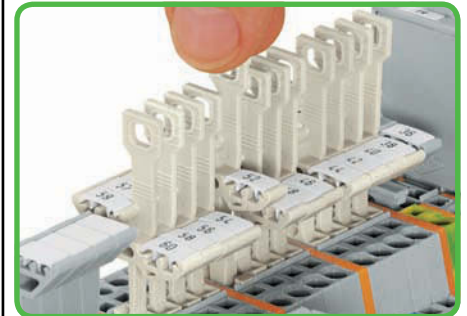
Fuse terminal block for mini-automotive blade-style fuses



stranded

More disconnect terminal blocks

Double-deck terminal blocks

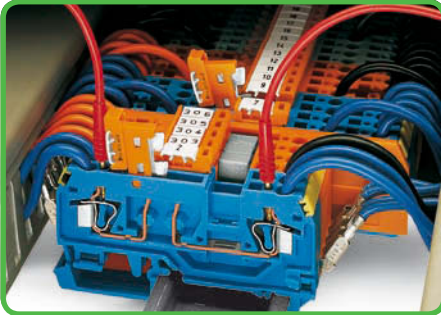


Pulling the disconnect tab on a through/disconnect terminal block.



fine-stranded,
also with tinned
single strands

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



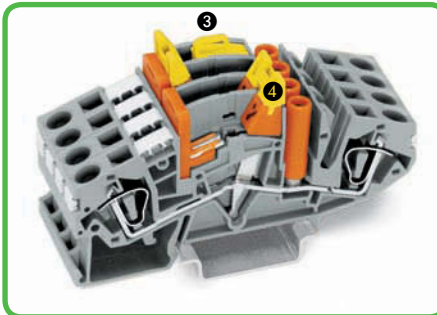
Terminal strip permanently prepared for current trans-
former circuits with short circuit jumpers ⑤

Power supply



Power distribution using disconnect link in supply line. Dis-
connection of all outputs.

Transverse switching terminal blocks



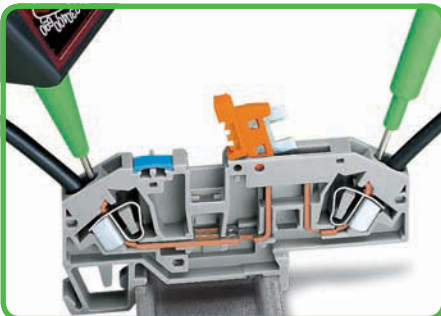
For current transformer circuits with
③ lockout and
④ coupling device.

Locking cover and lock-out seal



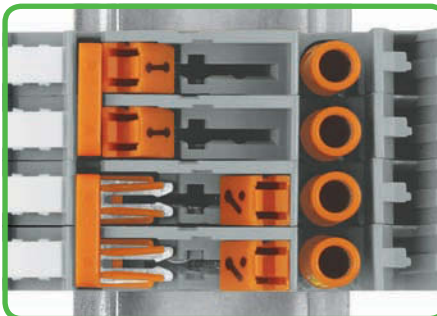
⑥ Transparent locking cover (for 1-4 disconnect links)
can be snapped on for mechanical interlocking for
multipole switching.
⑦ A lock-out seal can be used on the disconnect link in
notched position "I".

Disconnect terminal blocks 6 mm²/AWG 10

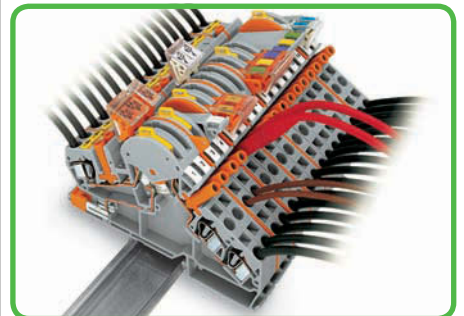


Testing a 6mm²/AWG 10 disconnect terminal block.

Switch positions



closed open



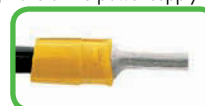
Transformer terminal strip (e.g., for meter boards or substa-
tions of the power supply industry).



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

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

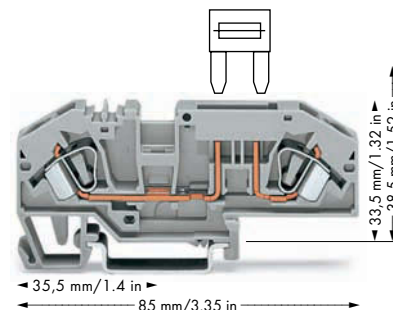
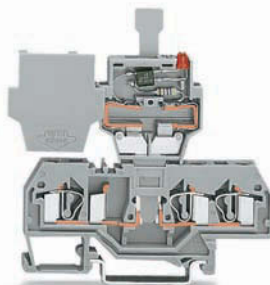
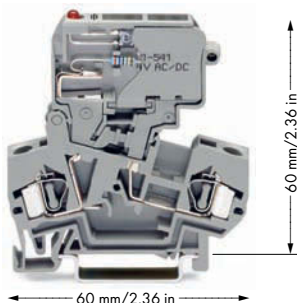
AWG 28 - 12
 600 V, 10 A
 600 V, 15 A

① 250 V max.
 ① I_N 6.3 A max.
 Plug width 6 mm / 0.236 in

③ Approvals

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

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 pulltab, 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	
5 x 20 mm 281-611	50	281-511	50	282-696	25
5 x 20 mm 281-611/281-541①	50				
5 x 20 mm 281-611/281-417②	50				
5 x 25 mm 281-612	50	with LED		with blown fuse indication by LED, 12 V	
5 x 25 mm 281-612/281-541①	50	24 V AC/DC 281-512/281-501	50	Circuit I 282-698/281-429	25
5 x 25 mm 281-612/281-417②	50			Circuit II 282-698/281-449	25
5 x 30 mm 281-622	50	with neon lamp		with blown fuse indication by LED, 24 V	
281-622/281-541①	50	120 V AC/DC 281-512/281-418	50	Circuit I 282-698/281-413	25
281-622/281-417②	50	230 V AC/DC 281-512/281-417	50	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	
0.25" x 1" 281-613	50	2-conductor 281-916 100 (4x25)		gray 282-699	25
0.25" x 1" 281-613/281-541①	50	3-conductor 281-610 100 (4x25)		blue 282-694	25
0.25" x 1" 281-613/281-417②	50	4-conductor 281-656 100 (4x25)			
0.25" x 1.25" 281-623	50	End plate, 2.5 mm thick,		Circuit I	
0.25" x 1.25" 281-623/281-541①	50	for 2-cond. carrier terminal block		Circuit II	
0.25" x 1.25" 281-623/281-417②	50	orange 281-329 100 (4x25)			
		gray 281-328 100 (4x25)			
		for 3-cond. carrier terminal block			
		orange 281-326 100 (4x25)			
		gray 281-324 100 (4x25)			
		for 4-cond. carrier terminal block			
		orange 281-335 100 (4x25)			
		gray 281-334 100 (4x25)			
with blown fuse indication by:				End and intermediate plate, 2 mm thick	
① LED 15-30 V ≈				orange 282-333 100 (4 x 25)	
② Neon lamp 230 V ≈				gray 282-334 100 (4 x 25)	
Other voltages upon request.					
End and intermediate plate, 2.5 mm thick					
orange 281-309 100 (4x25)					
gray 281-311 100 (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	
		2-way 280-432 1		210-720 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

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 
Terminal block width 5 mm / 0.197 in
8 - 9 mm / 0.33 in

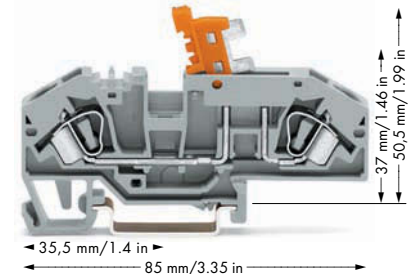
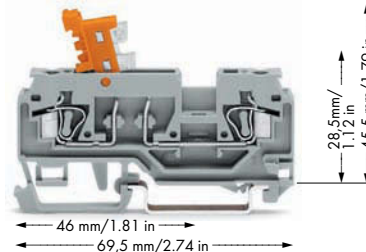
③ Approvals

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 
Terminal block width 5 mm / 0.197 in
8 - 9 mm / 0.33 in

③ Approvals

0.2 - 6 mm² | AWG 24 - 10
400 V/6 kV/3 | 600 V, 30 A 
I_N 30 A | 300 V, 36 A 
Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in

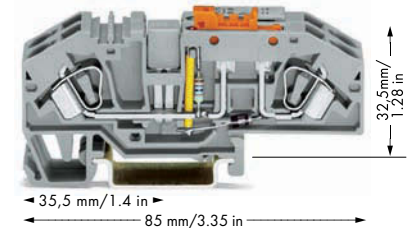
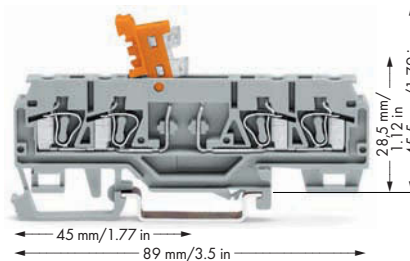
③ Approvals



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			same profile as fuse terminal blocks		
			2.3 mm Ø test plugs					
			Housing	Knife disconnect				
 gray	280-912	50	 gray	orange 280-870	100	 gray	282-697	25
 blue	280-914	50	 gray	gray 280-868	100	 blue	282-695	25
 orange	280-913	50	 blue	orange 280-876	100	3-conductor through terminal block with same pro-		
3-conductor disconnect terminal block			 orange	orange 280-879	100	file, with test point		
 gray	280-683	50				 gray	282-699	25
4-conductor disconnect terminal block						 blue	282-694	25
 gray	280-836	50						
 blue	280-839	50						
 orange	280-805	50						

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

③ Approvals



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 ④					
gray						Housing		Knife disconnect		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	280-883	50		230 V AC/DC	282-639	12				
Accessories, 280/281 Series						Accessories, 280 Series						Accessories, 282 Series					
Appropriate marking system: WMB						Appropriate marking system: WMB						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)					
orange 280-309 281-329						orange 280-371 100 (4x25)						gray 282-334 100 (4x25)					
gray 280-308 281-328						gray 280-374 100 (4x25)											
for 3-cond. blocks 100 (4x25)						for 4-conductor terminal blocks											
orange 280-326 281-326						orange 280-373 100 (4x25)						Adjacent jumper, insulated, I_N 41 A					
gray 280-324 281-324						gray 280-376 100 (4x25)											
for 4-cond. blocks 100 (4x25)												gray 282-402 100 (4x25)					
orange 280-315 281-335												Alternate jumper, insulated, I_N 41 A					
gray 280-314 281-334												gray 282-409 100 (4x25)					
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

④ For application notes, see page 83.

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

0.2 - 6 mm²
500 V/6 kV/3
I_N 30 A

AWG 24 - 10
600 V, 30 A

Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in

① Approvals

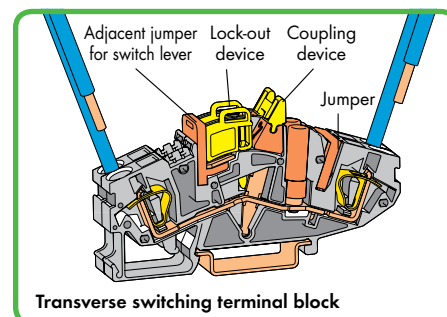
0.2 - 6 mm²
500 V/6 kV/3
I_N 30 A

AWG 24 - 10
600 V, 30 A

Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in

① Approvals

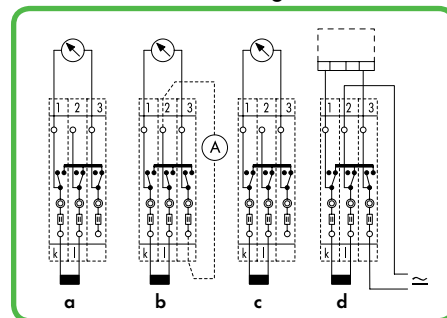
Application Notes:



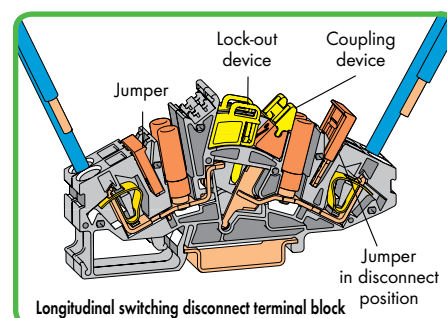
Transverse switching terminal block

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

Current transformer circuit with transverse switching terminal blocks

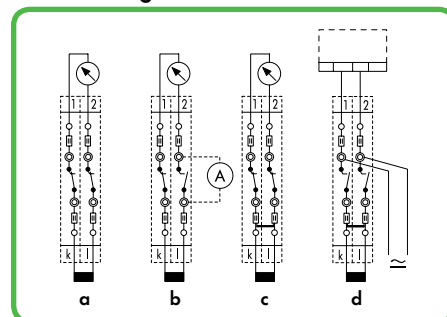


a = Normal operation b = Measurement testing
c = Transformer short-circuit d = Relay testing



Longitudinal switching disconnect terminal block

Current transformer circuit with longitudinal switching disconnect terminal blocks



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

Disconnect/test terminal blocks 282 Series

0.2 - 6 mm²
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

① Approvals

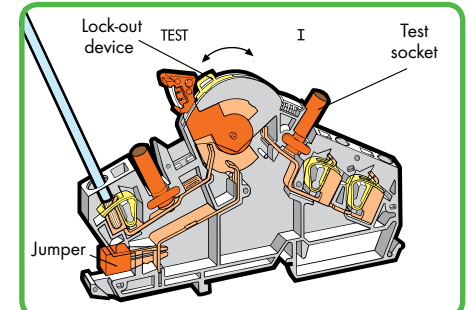
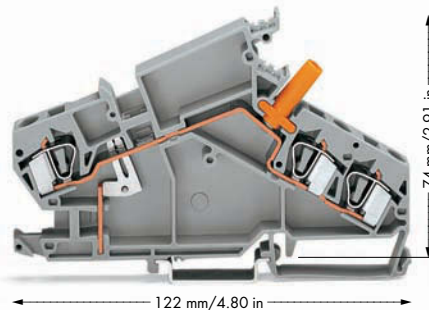
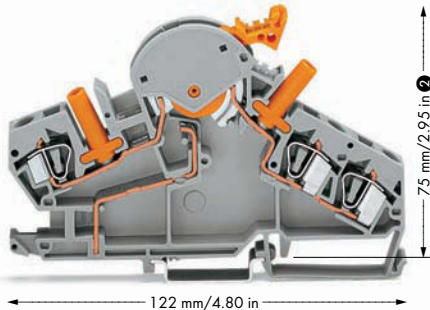
0.2 - 6 mm²
500 V/6 kV/3
I_N 30 A

AWG 24 - 10
600 V, 30 A 
600 V, 30 A 

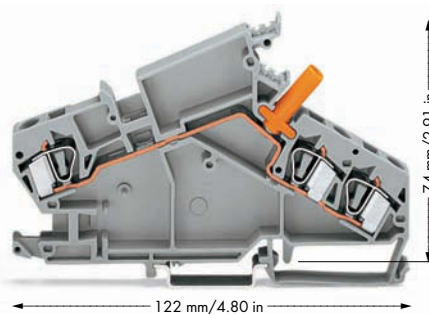
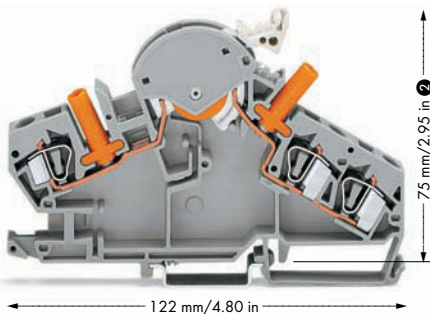
Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in

① Approvals

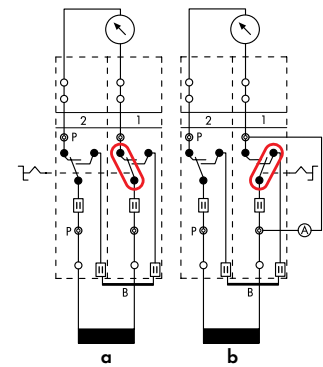
Application Notes:



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



Current transformer circuits



a = Normal operation b = Measurement testing

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)					

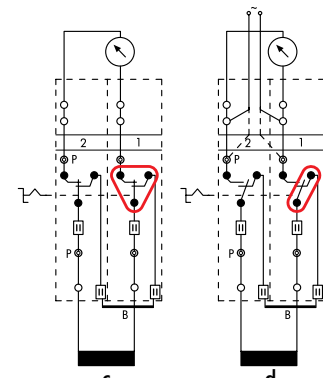
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
End plate, for disconnect/test terminal blocks, 1.5 mm thick			End plate, for through terminal blocks, 1.5 mm thick		
	orange 282-387	50 (5x10)		orange 282-385	50 (5x10)
	gray 282-392	50 (5x10)		gray 282-390	50 (5x10)

Accessories, 282 Series Appropriate marking system: WMB

Adjacent jumper			Wire comming chain, insulated, black, 4 connections, 24 A, 2.5 mm ² /AWG 14		
	gray 282-402	100 (4x25)		3 x 80 mm 709-110	1
	orange 282-424	100 (4x25)		2 x 90 mm 709-111	1
Lock-out device, for disconnect link			Wire comming chain, insulated, black, 3 connections, 24 A, 2.5 mm ² /AWG 14		
	yellow 282-384	100 (5x20)		2 x 150 mm 709-112	1
Interlocking link, mechanically locks multiple links, 1 m long, transparent			Protective warning marker, with high-voltage symbol, for 5 terminal blocks		
	210-254	1		yellow 282-415	100 (4x25)
Locking cover, mechanically locks multiple links			Banana plugs, only for safety extra-low voltage (42 V)		
	transparent 1-pole 282-881	50 (5x10)		black 215-311	50
	4-pole 282-884	50 (5x10)		red 215-212	50
				blue 215-711	50

For more colors and technical data, see page 193.

Current transformer circuits



c = Transformer short-circuit d = Relay testing

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

② 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.

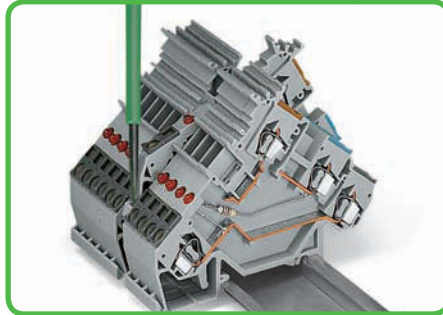
Sensor and Actuator Terminal Blocks . . . 280 Series

Assembly

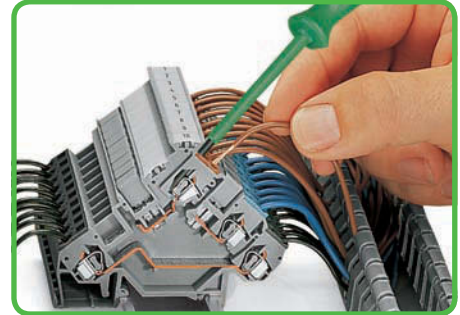
CAGE CLAMP® connection



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

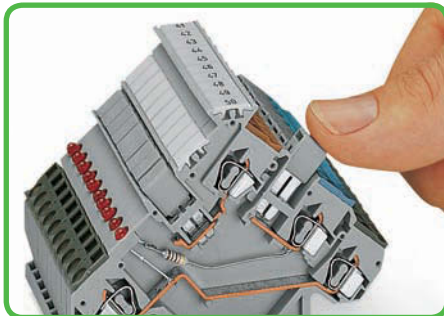


Removing terminal block from DIN rail. Notice: Remove jumper contacts first!



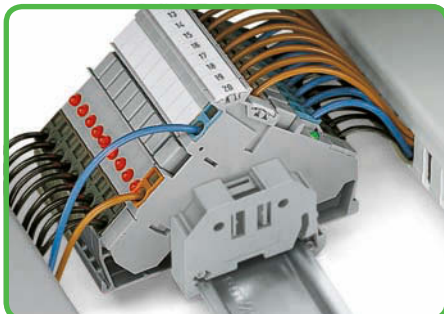
Inserting conductor via straight (3.5 x 0.5) mm screwdriver.

Commoning

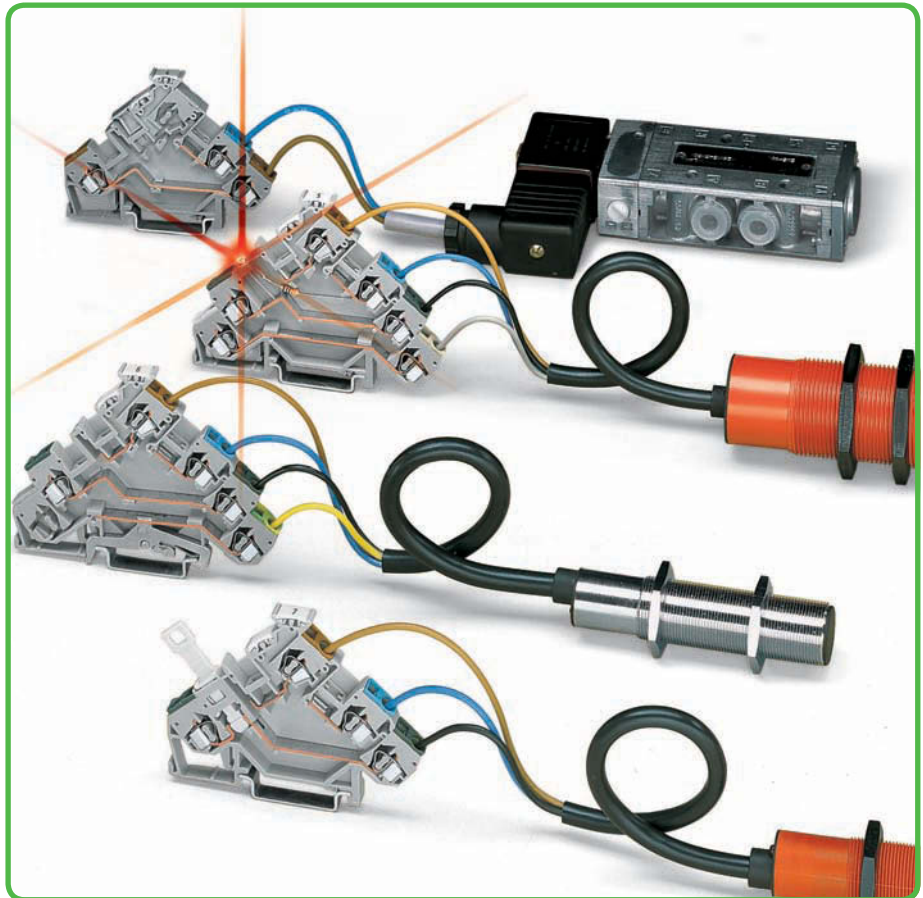


Commoning with adjacent jumpers. Push jumper down until fully inserted!

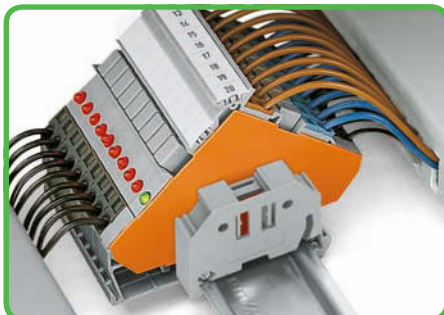
Power supply



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

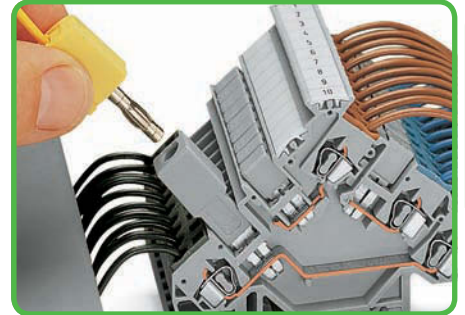


Inserting conductor via angled (3.5 x 0.5) mm screwdriver.



Marking using WMB Multi markers.

Testing

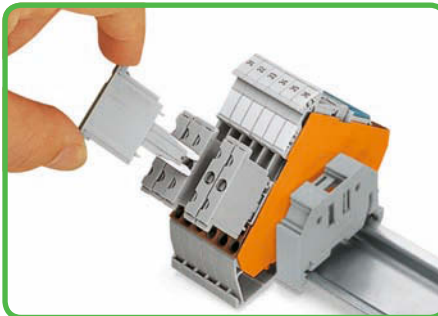


Testing via banana plug and 209-170 test plug adapter.

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.

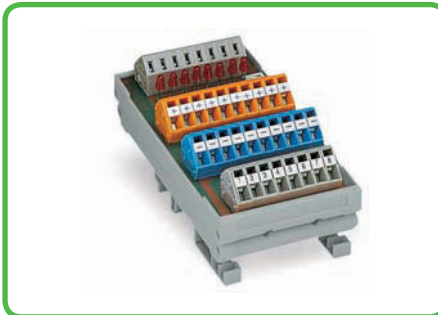


Actuator terminal block with ground connection, for line interruption

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

Sensor terminal blocks for 3-cond. sensors

0.08 - 2.5 mm² | AWG 28 - 12*

Terminal block width 5 mm / 0.197 in
8 - 9 mm / 0.33 in

① Approvals

Sensor terminal blocks 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

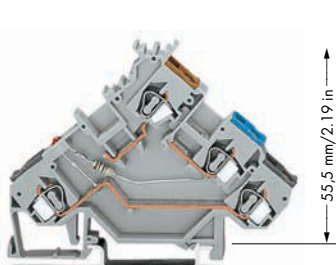
① Approvals

Sensor terminal blocks for 4-conductor sensors

0.08 - 2.5 mm² | AWG 28 - 12*

Terminal block width 5 mm / 0.197 in
8 - 9 mm / 0.33 in

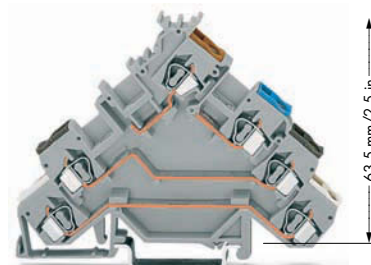
① Approvals



80 mm / 3.15 in



90,5 mm / 3.56 in



90,5 mm / 3.56 in

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
 orange 280-321 100 (4x25) gray 280-319 100 (4x25)		 orange 280-323 100 (4x25) gray 280-320 100 (4x25)		 orange 280-323 100 (4x25) gray 280-320 100 (4x25)	

Accessories, 280 Series

Appropriate marking system: WMB

 gray 280-402 200 (8x25)	 209-170 50 (2x25) for 4 mm Ø test plug	 white 280-470 0.08–0.2 mm² (AWG 28–24) light gray 280-471 0.25–0.5 mm² (AWG 12–20) dark gray 280-472 0.75–1 mm² (AWG 20–18)
For 215 Series test plugs, see page 193.		

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

For technical explanations and abbreviations, see technical section.

*AWG 12: THHN, THWN

Actuator Terminal Blocks 280 Series

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

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

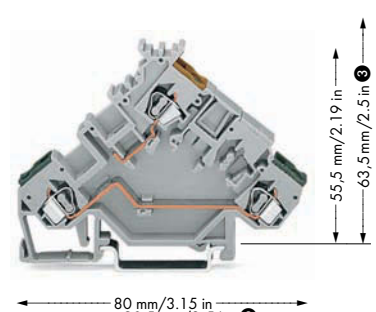
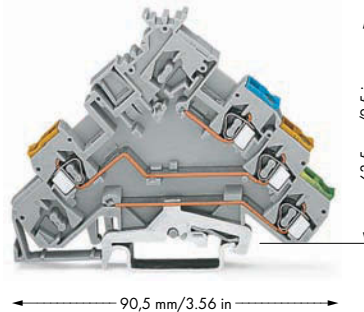
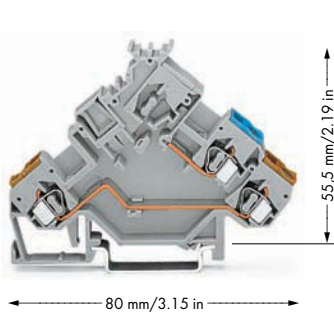
① Approvals

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



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

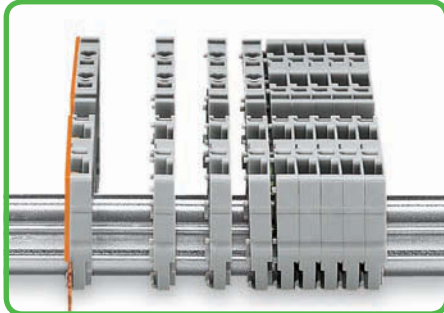
Appropriate marking system: WMB

 gray 280-402 200 (8x25)	 for terminal blocks 1.5 - 10 mm ² (AWG 16 - 8) 8 mm wide 209-170 50 (2x25) for 4 mm Ø test plug	 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)

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

X-COM®-SYSTEM . . . 769 Series

Assembly



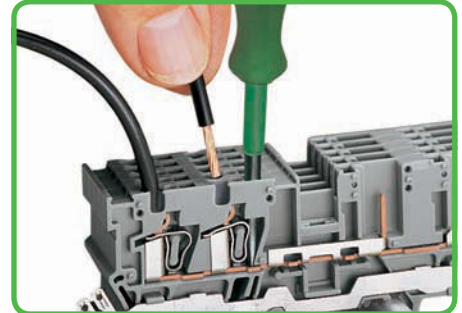
Snap individual carrier terminal blocks onto DIN rail and slide together.

Removal



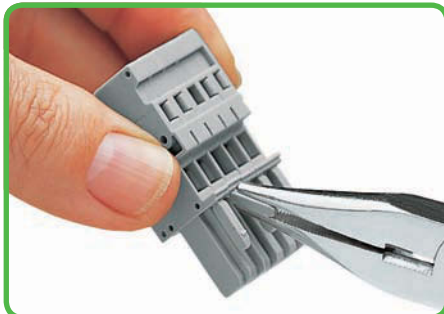
Unlock assembly with (3.5 x 0.5) mm screwdriver and remove terminal block via release lever.

CAGE CLAMP® connection



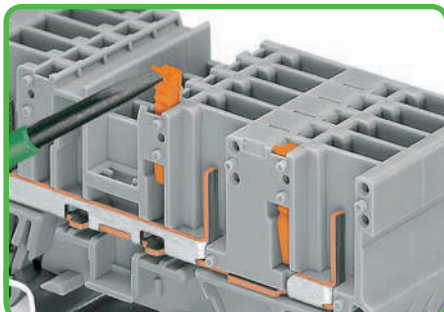
Carrier terminal block: Inserting/removing conductor via (3.5 x 0.5) mm screwdriver.

Coding



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

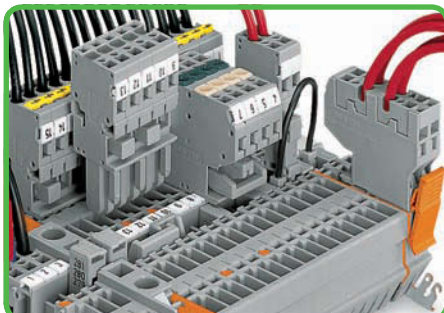
Coding



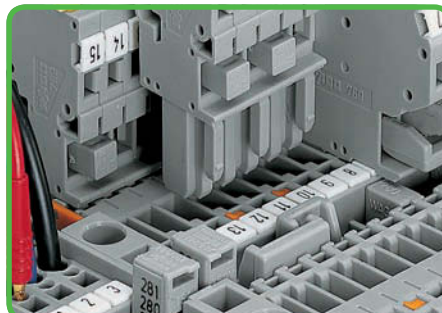
Snap coding pin in proper direction on carrier terminal block. Shown: Removing coding pin from carrier terminal block.



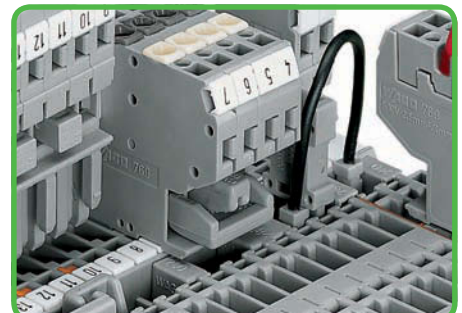
Commoning



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.

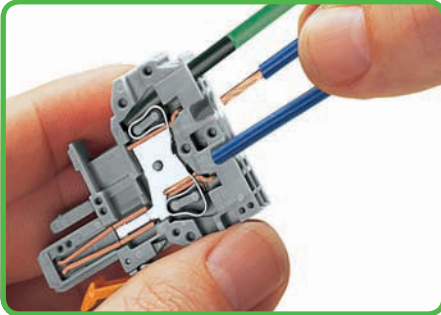


stranded

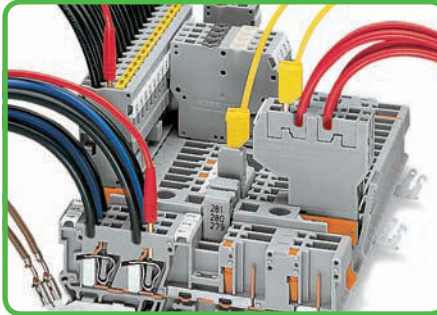


fine-stranded,
also with tinned
single strands

Testing



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



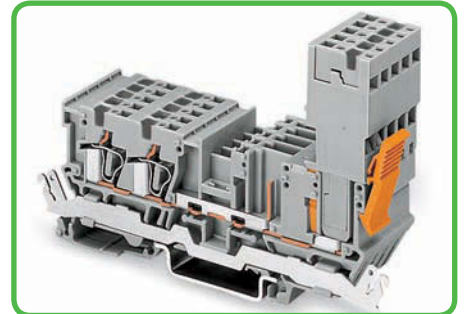
Testing with 2 mm Ø (red) or 2.3 mm Ø (yellow) test plug.

Locking lever



Snapping in/removing locking lever.

Locking lever

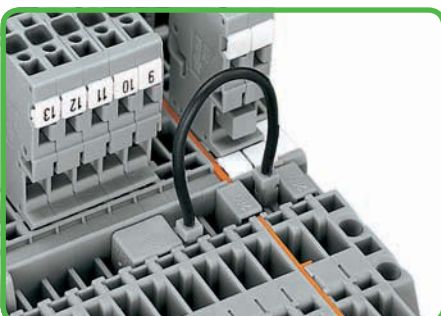


Female plug secured with locking lever in external area of carrier terminal block.

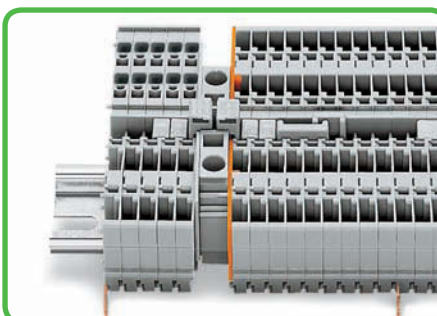
Strain relief



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:

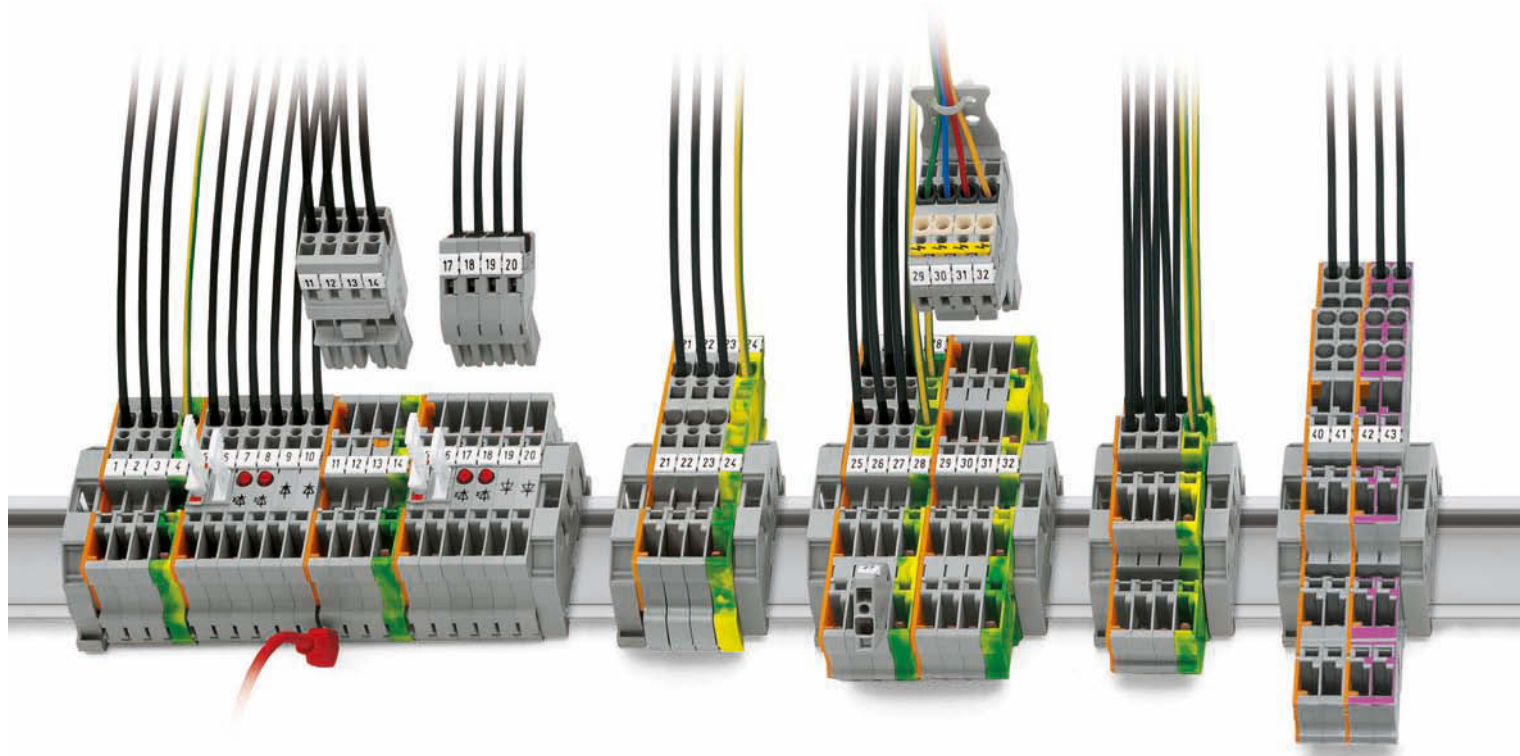
0.08 - 4 mm²
500 V/6 kV/3
250 V/4 kV/3
I_N 16 A / 32 A*

AWG 28 - 12
300 V, 10 A 
300 V, 20 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
 Carrier terminal block	769-176*	769-156*	769-251*	769-171*	769-151*	870-101	870-151	870-131	
 Carrier terminal block internal commoning							4-pin 870-158	870-108	870-138
 Carrier terminal block with shield contact	769-231*	769-221*		769-211*	769-201*		4-pin		
 Ground carrier term. block	769-237	769-227	769-257	769-217	769-207		870-157	870-107	
 Disconnect carrier term. block	769-232	769-222							
 Disconnect carrier terminal block with shield contact	769-233	769-223							
 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							
 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							
 End plate	769-307	769-305	769-320	769-301		870-118	870-168	870-148	
 End plate	769-308	769-306	769-321	769-302		870-119	870-169	870-149	
 Separator, oversized									
 Jumper	280-4xx	280-4xx	280-4xx	280-4xx	280-4xx	870-4xx	870-4xx	870-4xx	

X-COM®-SYSTEM

Male Connectors

769 Series

Technical data – male connectors:

Pin spacing 5 mm / 0.197 in

0.08 - 4 mm²

500 V/6 kV/3

I_N 32 A

AWG 28 - 12

600 V, 20 A 

300 V, 20 A 

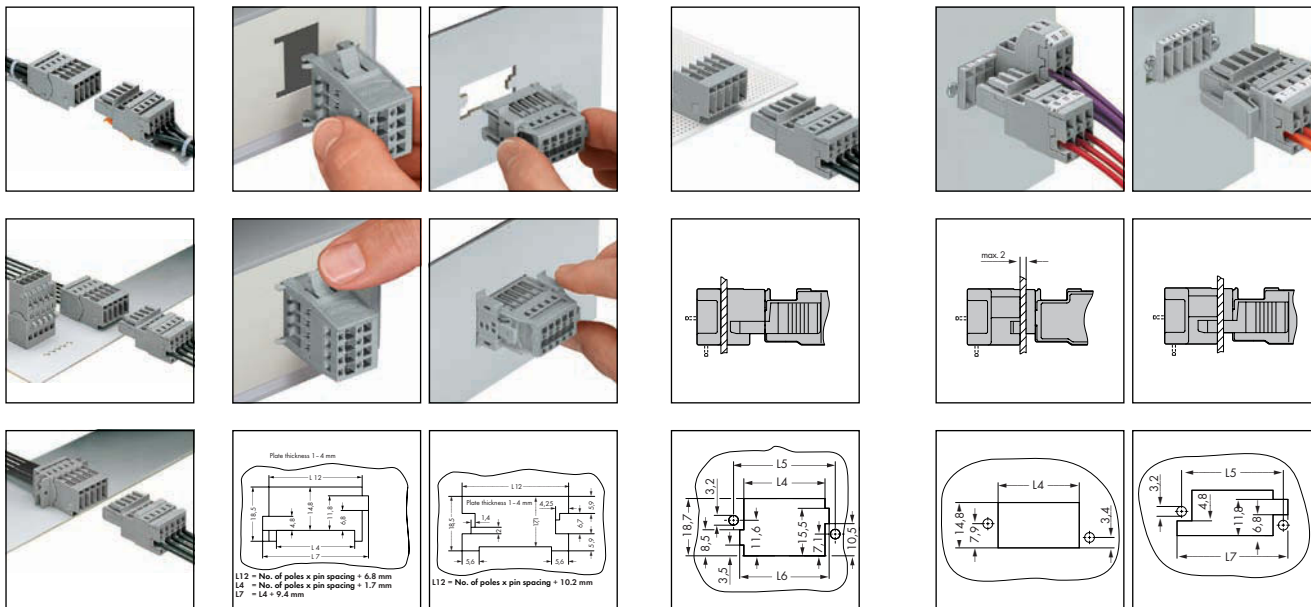
 8 - 9 mm / 0.33 in

 Approvals



Male connectors with CAGE CLAMP® connection				Headers with solder pins		Headers with solder pins and fixing flanges	
Male connectors with CAGE CLAMP® connection and snap-in 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
 3-pole	769-603	769-603/005-000	769-603/006-000	769-633	769-663	769-633/004-000	769-663/004-000
 4-pole	769-604	769-604/005-000	769-604/006-000	769-634	769-664	769-634/004-000	769-664/004-000
 5-pole	769-605	769-605/005-000	769-605/006-000	769-635	769-665	769-635/004-000	769-665/004-000
 6-pole	769-606	769-606/005-000	769-606/006-000	769-636	769-666	769-636/004-000	769-666/004-000
 7-pole	769-607	769-607/005-000	769-607/006-000	769-637	769-667	769-637/004-000	769-667/004-000
 8-pole	769-608	769-608/005-000	769-608/006-000	769-638	769-668	769-638/004-000	769-668/004-000
 9-pole	769-609	769-609/005-000	769-609/006-000	769-639	769-669	769-639/004-000	769-669/004-000
 10-pole	769-610	769-610/005-000	769-610/006-000	769-640	769-670	769-640/004-000	769-670/004-000
 11-pole	769-611	769-611/005-000	769-611/006-000	769-641	769-671	769-641/004-000	769-671/004-000
 12-pole	769-612	769-612/005-000	769-612/006-000	769-642	769-672	769-642/004-000	769-672/004-000
 13-pole	769-613	769-613/005-000	769-613/006-000	769-643	769-673	769-643/004-000	769-673/004-000
 14-pole	769-614	769-614/005-000	769-614/006-000	769-644	769-674	769-644/004-000	769-674/004-000
 15-pole	769-615	769-615/005-000	769-615/006-000	769-645	769-675	769-645/004-000	769-675/004-000
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®

1
79

1

Technical data – female plugs:

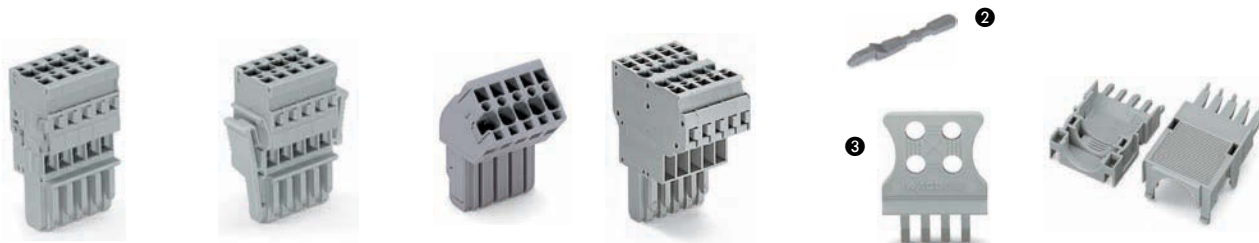
0.08 - 4 mm²
500 V/6 kV/3
I_N 32 A

AWG 28 - 12
300 V, 10 A 
300 V, 20 A 

Module width 5 mm / 0.197 in

 8 - 9 mm / 0.33 in

① Approvals



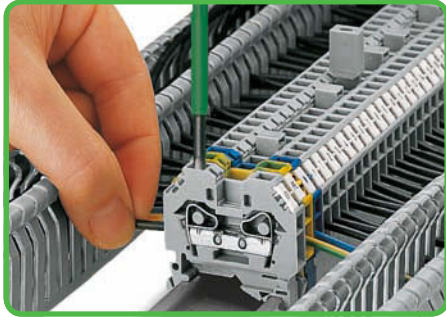
Female plugs, with coding fingers	1-conductor, straight	1-conductor, with locking lever	1-conductor, angled	2-conductor, straight	② Strain relief plate, gray	Strain relief housing, gray
1-pole	769-101	–	769-101/022-000	769-121	1-pole 769-410	–
2-pole	769-102	769-102/021-000	769-102/022-000	769-122	2- to 3-pole 769-411	2-pole 769-1602
3-pole	769-103	769-103/021-000	769-103/022-000	769-123	4- to 5-pole 769-412	3-pole 769-1603
4-pole	769-104	769-104/021-000	769-104/022-000	769-124		4-pole 769-1604
5-pole	769-105	769-105/021-000	769-105/022-000	769-125		5-pole 769-1605
6-pole	769-106	769-106/021-000	769-106/022-000	769-126		6-pole 769-1606
7-pole	769-107	769-107/021-000	769-107/022-000	769-127	③ Strain relief plate, gray	7-pole 769-1607
8-pole	769-108	769-108/021-000	769-108/022-000	769-128	6- to 9-pole 769-413	8-pole 769-1608
9-pole	769-109	769-109/021-000	769-109/022-000	769-129	10- to 15-pole 769-414	9-pole 769-1609
10-pole	769-110	769-110/021-000	769-110/022-000	769-130		10-pole 769-1610
11-pole	769-111	769-111/021-000	769-111/022-000	769-131		11-pole 769-1611
12-pole	769-112	769-112/021-000	769-112/022-000	769-132		12-pole 769-1612
13-pole	769-113	769-113/021-000	769-113/022-000	769-133		13-pole 769-1613
14-pole	769-114	769-114/021-000	769-114/022-000	769-134		14-pole 769-1614
15-pole	769-115	769-115/021-000	769-115/022-000	769-135		15-pole 769-1615
1-pole	769-101/000-016		769-101/022-016	769-121/000-016		

Accessories, X-COM®-SYSTEM

Insulation stop,  5 pcs/strip 0.08 - 0.2 mm ² "sol." (0.14 mm ² "f-st") white 769-470 200(8x25)	Insulation stop,  5 pcs/strip 0.25 - 0.5 mm ² light gray 769-471 200(8x25)	Insulation stop,  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.



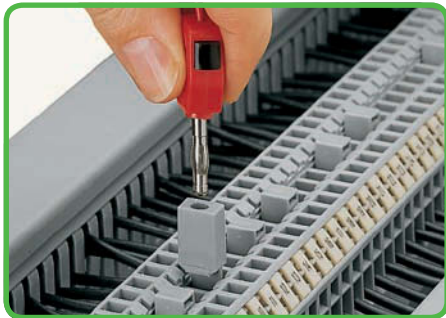
The plunger is placed into the upper operating slot of the side-entry terminal block and the clamp is hooked into the lateral operating slot. The contact is fully opened by pressing the handles together until they engage. Insert stripped conductor until it hits backstop.

Marking



Marking using WMB Multi markers.

Testing

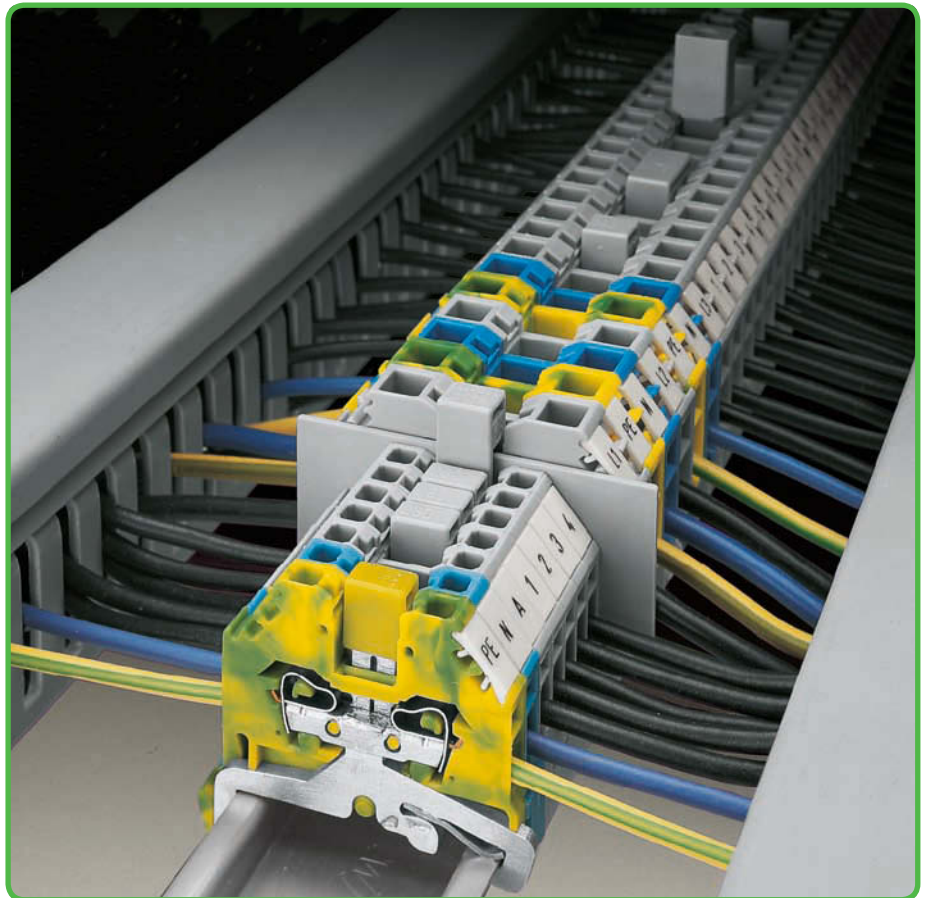


Testing with test plug adapter.

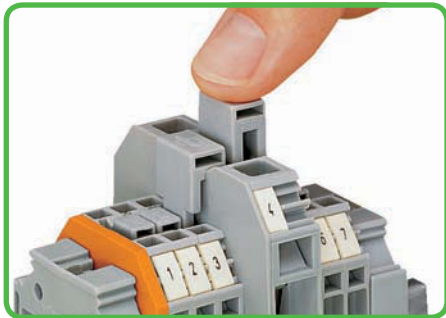
Commoning



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

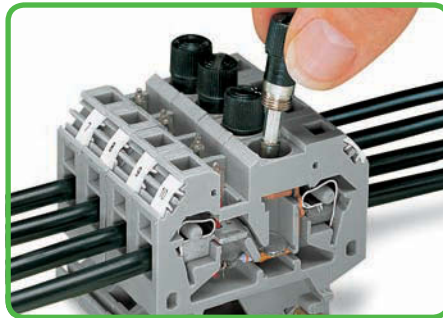


Commoning with step-down jumpers



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

0.08 - 1.5 mm ² 800 V/8 kV/3 I _N 18 A Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in	AWG 28 - 16 300 V, 10 A 600 V, 15 A	0.08 - 2.5 mm ² 800 V/8 kV/3 I _N 24 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in	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	AWG 28 - 12 600 V, 20 A 600 V, 20 A
① Approvals		① Approvals		① Approvals	



← 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)
	gray	280-301 100 (4x25)		gray	280-301 100 (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)
	gray	280-332 100 (4x25)		gray	280-332 100 (4x25)		gray	281-332 100 (4x25)
Accessories, 279 Series Appropriate marking system: WMB			Accessories, 280 Series Appropriate marking system: WMB			Accessories, 281 Series 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)
	yellow-green	279-422 200 (8x25)		yellow-green	280-422 200 (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)
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	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 4	780-454 100 (4x25)		from 1 to 4	780-454 100 (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 6	781-456 50 (2x25)
	from 1 to 8	780-458 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)
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)
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
Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade			Suitable for Ex i applications			Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade		
		210-720 1						210-720 1

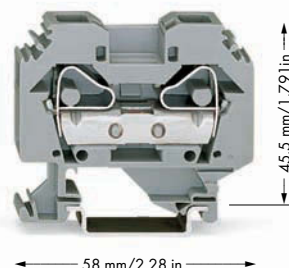
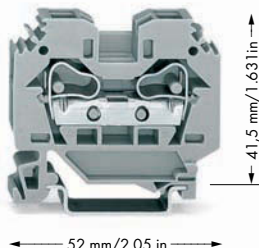
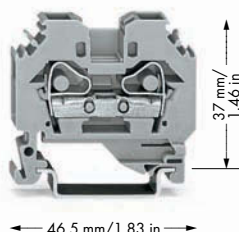
① Approvals are available online at: www.wago.com.

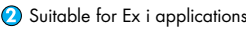
* AWG 12: THHN, THWN

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 
--	--	---	---	---	---



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 Appropriate marking system: WMB			Accessories, 284 Series Appropriate marking system: WMB			Accessories, 283 Series 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 209-170 50 (2x25) for 4 mm Ø test plug			Test plug adapter, for terminal blocks 1.5 - 10 mm² (AWG 16-8), 8 mm wide 209-170 50 (2x25) for 4 mm Ø test plug			Test plug adapter, for terminal blocks 1.5 - 16 mm² (AWG 16-6), 11.6 mm wide 283-404 25 for 4 mm Ø test plug		
Step-down jumper, insulated, I_N 15 A 10/6 mm ² to 4/2.5/1.5 mm ² / AWG 12/14/16 gray 284-414 50 (2x25)			Step-down jumper, insulated, I_N 30 A 10/6 mm ² /AWG 8/10 to 6/ 4 mm ² /AWG 10/12 gray 284-413 50 (2x25)			Step-down jumper, insulated, I_N 32 A 16 mm ² /AWG 6 to 4 mm ² / AWG 12 gray 283-414 50 (2x25)		
Protective warning marker, with high-voltage symbol, for 5 terminal blocks yellow 282-405 100 (4x25)			Protective warning marker, with high-voltage symbol, for 5 terminal blocks yellow 284-405 50 (2x25)			Protective warning marker, with high-voltage symbol, for 5 terminal blocks yellow 283-405 50 (2x25)		
Operating tool, for side-entry rail-mounted terminal blocks  210-141 1			Operating tool, for side-entry rail-mounted terminal blocks  210-141 1			Operating tool, for side-entry rail-mounted terminal blocks  210-141 1		
Operating tool with partially insulated shaft, type 3, [5.5 x 0.8] mm blade  210-721 1			 Suitable for Ex i applications			Banana plugs, only for safety extra-low voltage (42 V) black 215-311 50 red 215-212 50 blue 215-711 50		

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

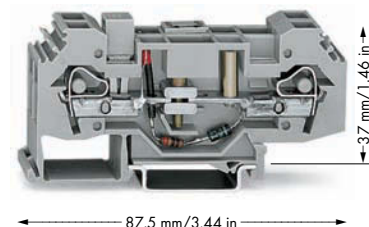
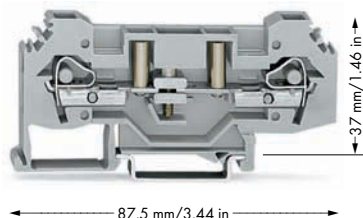
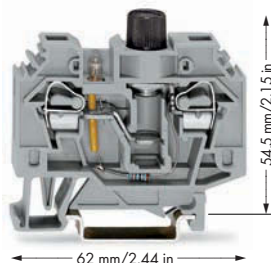
CAGE CLAMP®

1
83

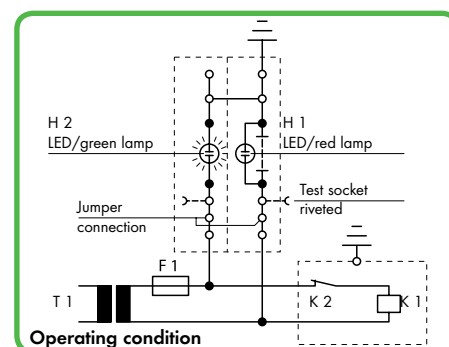
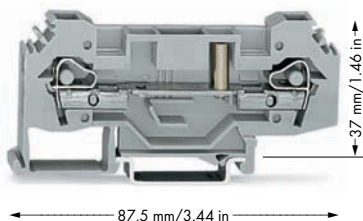
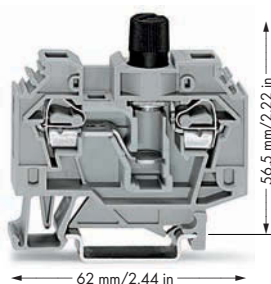
0.2 - 6 mm² 220 V ≈ ③ I_N 10 A max. ③ Terminal block width 13 mm / 0.512 in 12 - 13 mm / 0.49 in ① Approvals	AWG 24 - 10 600 V, 10 A ③ 250 V, 10 A ③	0.2 - 6 mm² 400 V/6 kV/3 I_N 41 A Terminal block width 8 mm / 0.315 in 12 - 13 mm / 0.49 in ① Approvals	AWG 24 - 10 300 V, 30 A ③ 300 V, 40 A ③	0.2 - 6 mm² AWG 24 - 10 Terminal block width 16 mm / 0.63 in 12 - 13 mm / 0.49 in ① Approvals
--	--	---	--	---

③ Electrical ratings are given by the fuse.

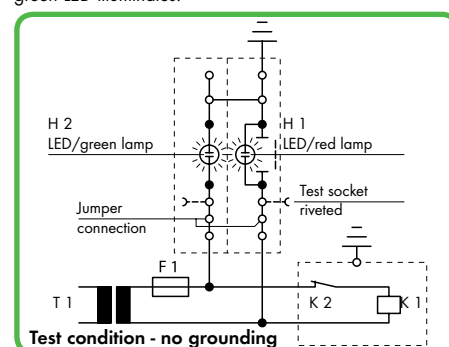
Front-entry, ground conductor disconnect terminal blocks, see page 67.



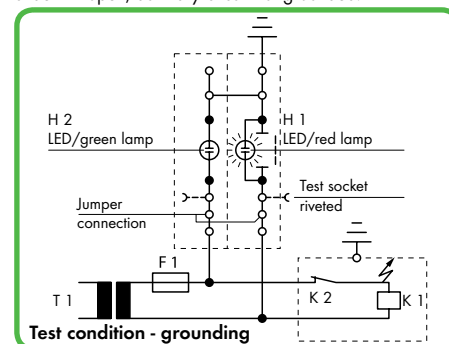
Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Voltage	Item No.	Pack. Unit	
Fuse terminal block , gray, for miniature metric fuses, with blown fuse indication by neon lamp, 250 VAC/220 VDC			Disconnect/test terminal block , with 4 mm Ø test sockets			Ground conductor disconnect terminal block , gray		
 5 x 20 mm	282-124 ④	40	 gray	282-131	25	 24 V AC/DC	282-140	12
 ¼" x 1 ¼"	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
 ¼" x 1 ¼"	282-128/281-418 ⑤	40				 230 V AC/DC	282-139	12
by LED, 24 VDC								
 ¼" x 1 ¼"	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.

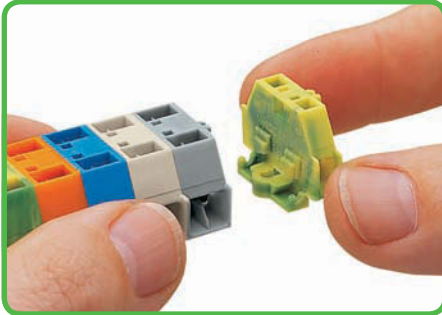
Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Fuse terminal block , gray, for miniature metric fuses, without blown fuse indication, 500 V/6 kV/3 max.		 gray	282-133	25
 5 x 20 mm	282-122 	40		
 1/4" x 1"	282-120 	40		
 1/4" x 1 1/4"	282-128 	40		
Item-Specific Accessories				
End and intermediate plate , 4 mm thick		End and intermediate plate , 4 mm thick		
	orange 282-312 50 (2x25)		orange 282-315 50 (2x25)	
	gray 282-311 50 (2x25)		gray 282-314 50 (2x25)	
Accessories, 282 Series				
Appropriate marking system: WMB				
Miniature metric fuse 200 (20x10)		Adjacent jumper , insulated, I _N 41 A		
	5 x 20 mm 282-451 6.3 A		gray 282-402 100 (4x25)	
	1/4" x 1" 282-458 10 A			
	1/4" x 1 1/4" 282-457 10 A			
Test plug adapter , for terminal blocks 1.5–10 mm ²		Alternate jumper , insulated, I _N 41 A		
	(AWG 16–8), 8 mm wide		gray 282-409 100 (4x25)	
	209-170 50 (2x25)			
	for 4 mm Ø test plug			
Test plug , 6 mm wide, with CAGE CLAMP®		Lock-out , snap-on type,		
	for 0.08–2.5 mm ² (AWG 28–14)		prevents reclosing of slide link	
	I _N 24 A 281-407 100 (4x25)		orange 282-137 100 (4x25)	

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

WAGO®

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

Assembly

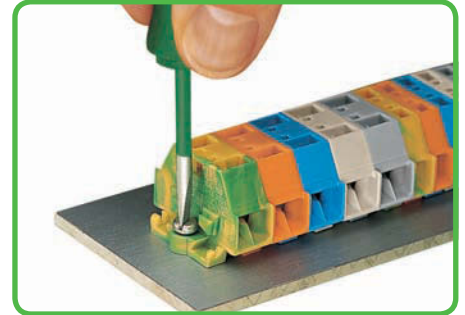


Assembling modular terminal blocks into terminal strips.



Mounting an end plate.

Mounting

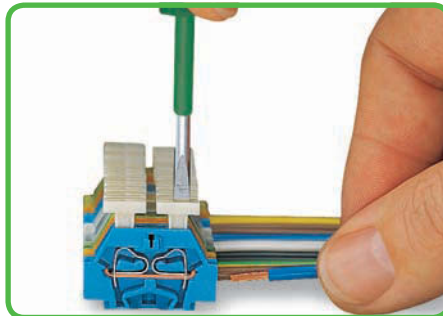


Terminal strip with fixing flanges, screw mount.

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

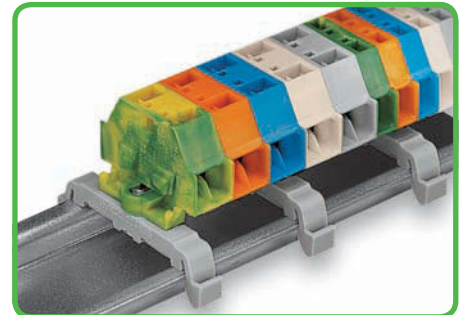


Marking with self-adhesive marker strips.



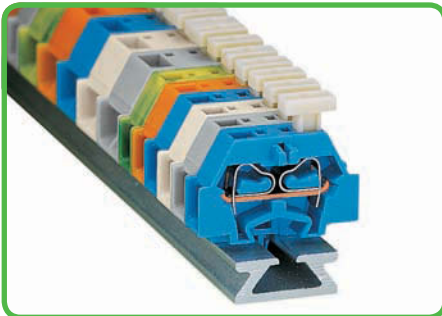
Marking by direct printing (upon request).

Mounting

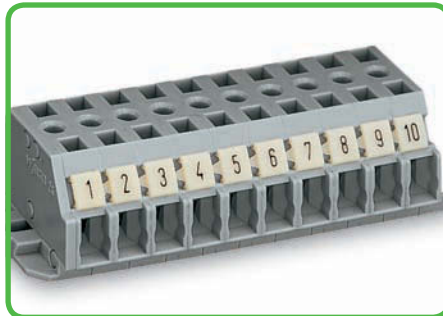


Terminal strip with fixing flanges, on DIN 35 rail.

Types

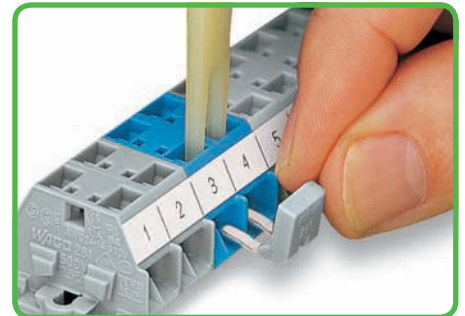


Terminal strip with push-buttons on one side.



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

0.08 - 1.5 mm ² 400 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.  8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 16 300 V, 10 A  300 V, 15 A 	0.08 - 2.5 mm ² 500 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  8 - 9 mm / 0.33 in ① Approvals	AWG 28 - 14 300/600 V, 15 A  300/600 V, 20 A 	0.08 - 4 mm ² 630 V/8 kV/3 I _N 24 A ② (32 A ③) 2-cond. terminal block width 7 mm/0.276 in 4-cond. terminal block width 12 mm/0.472 in  9 - 10 mm / 0.37 in ① Approvals	AWG 28 - 12 300/600 V, 20 A  300/600 V, 20 A 
--	---	---	---	---	---



25 mm/0.98 in

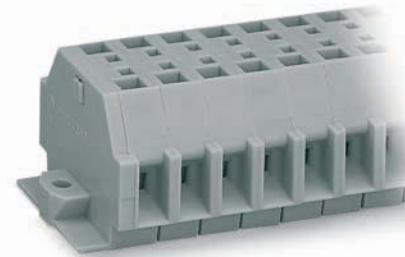
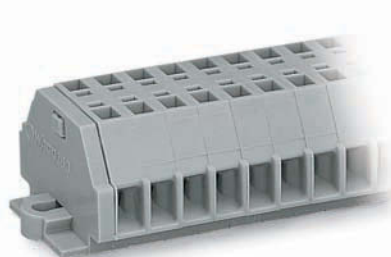


28 mm/1.1 in



33,4 mm/1.32 in

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 ②	261-304	261-334	200 (4x50)	blue ②	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				Terminal strip with fixing flanges, gray				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

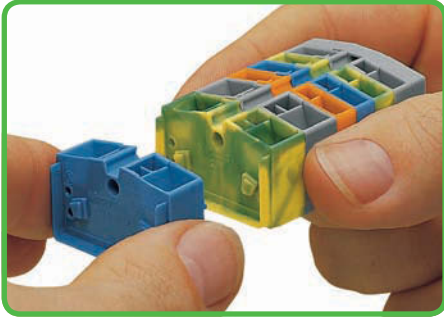
Accessories, 260/261/262 Series

Appropriate marking system, see Section 6.

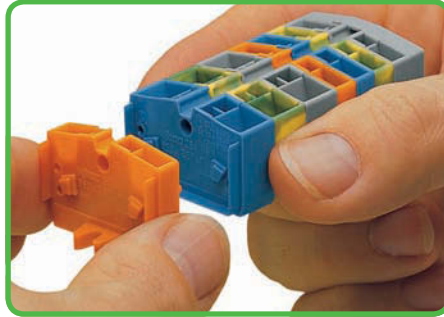
End plate with fixing flange, gray  for 260 Series gray 260-361 100 (2x50) for 261 Series gray 261-361 100 (2x50) for 262 Series gray 262-361 50	Mounting foot with screw, for DIN 35 rail, 6 mm wide, can be screwed on terminal blocks with fixing flange  gray 209-123 25	Item no. suffix for terminal blocks and terminal strips with push-buttons, for 261 Series only. With push-buttons on one side:  2-cond. block 261-.../331-000 4-cond. block 261-.../332-000																					
Comb-style jumper bar, insulated, 2-way  Series I_N Reduced Cross Sect. Pack. Unit 260-402 10 A 1 mm ² /AWG 18 25 pcs 261-402 16 A 1.5 mm ² /AWG 16 25 pcs 262-402 16 A 2.5 mm ² /AWG 14 25 pcs	Test plug module  100 (4x25)	With push-buttons on both sides:  2-cond. block 261-.../341-000 4-cond. block 261-.../342-000																					
Operating tool, insulated, for inserting comb-style jumper bars  2-way 209-132 1	Locking devices <table> <tr> <th>Series</th><th>with</th><th>without</th></tr> <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> </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	Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade  210-720 1
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																					

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



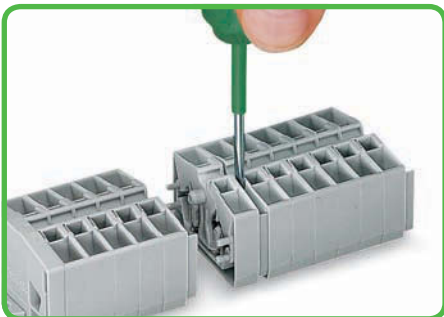
Terminal strip with fixing flanges, screw mount.

CAGE CLAMP® connection

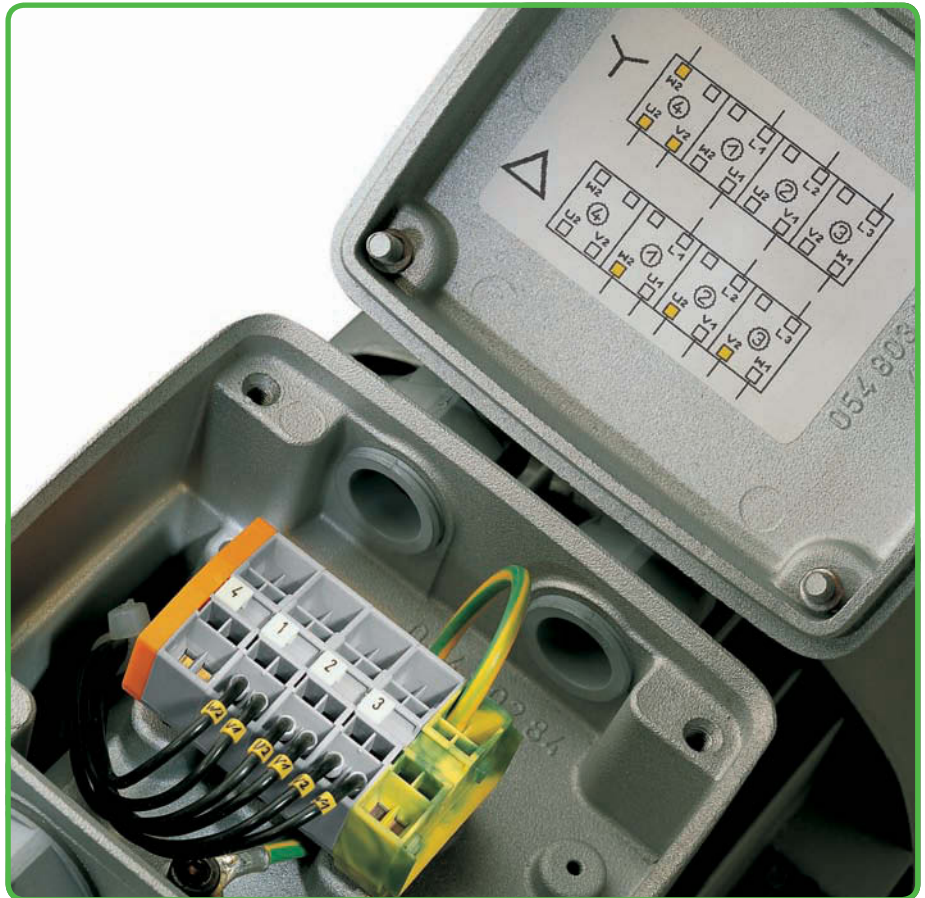


Inserting a conductor via operating tool.

Removal



Removing a terminal block.

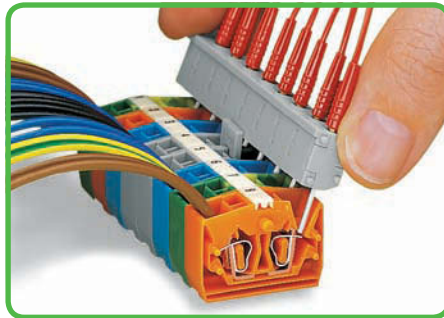


Commoning



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

0.08 - 2.5 mm²
800 V/8 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
8 - 9 mm / 0.33 in
① Approvals

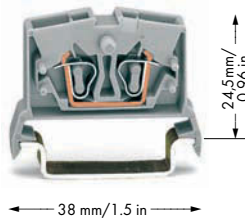
AWG 28 - 12**
600 V, 20 A
600 V, 20 A

0.08 - 2.5 mm²
800 V/8 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
8 - 9 mm / 0.33 in
① Approvals

AWG 28 - 12**
600 V, 20 A
600 V, 20 A

0.08 - 2.5 mm²
800 V/8 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
8 - 9 mm / 0.33 in
① Approvals

AWG 28 - 12**
600 V, 20 A
600 V, 20 A

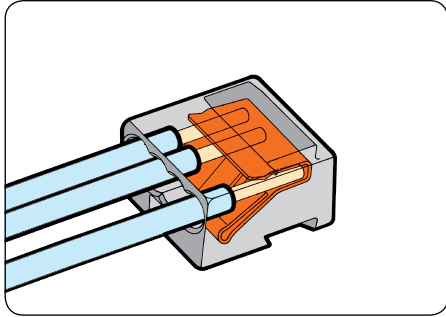


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
2-cond. block 4-cond. block			2-cond. block 4-cond. block			2-cond. block 4-cond. block		
Through terminal block, for DIN 35 rail			Center terminal block without fixing flange			Terminal strip with fixing flanges, gray		
gray	264-711	264-731 100	gray	264-321	264-351 100	2	264-102	264-202 100
blue	264-714	264-734 100	blue	264-324	264-354 100	3	264-103	264-203 100
orange	264-716	264-736 100	orange	264-326	264-356 100	4	264-104	264-204 100
light gray Ex	264-125	264-225 100	green-yellow	264-327	264-357 100	:	:	:
			light gray Ex	264-131	264-231 100	10	264-110	264-210 25
						11	264-111	264-211 25
						12	264-112	264-212 25
			End terminal block with fixing flange			Terminal strip with snap-in mounting feet, gray		
			gray	264-301	264-331 100	2	264-152	264-252 100
			blue	264-304	264-334 100	3	264-153	264-253 100
			orange	264-306	264-336 100	4	264-154	264-254 100
			green-yellow	264-307	264-337 100	:	:	:
			light gray Ex	264-130	264-230 100	10	264-160	264-260 25
						11	264-161	264-261 25
						12	264-162	264-262 25
			Center terminal block with snap-in mounting foot					
			gray	264-311	264-341 100			
			blue	264-314	264-344 100			
			orange	264-316	264-346 100			
			green-yellow	264-317	264-347 100			
			light gray Ex	264-180	264-280 100			
						For terminal strips mixed in different colors, please contact factory.		
4-conductor ground terminal block, for DIN 35 rail			End plates for DIN 35 rail,			End plate, for blocks with snap-in mounting foot,		
green-yellow	264-737	100	4 mm thick			4 mm thick		
green-yellow Ex	264-737/999-950	100	orange	264-369	25	gray	264-371	25
			gray	264-368	25	orange	264-374	25
			light gray	264-370	25	light gray	264-373	25
								
			gray		264-361 25			
			orange		264-364 25			
			light gray		264-363 25			

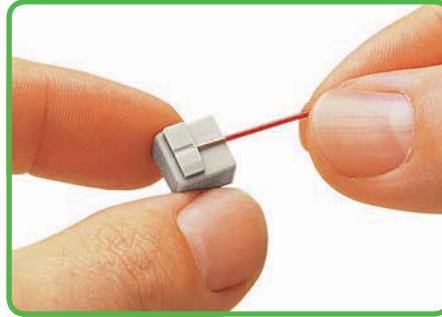
① All approvals and more information at www.wago.com.
**AWG 12: THHN, THWN

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



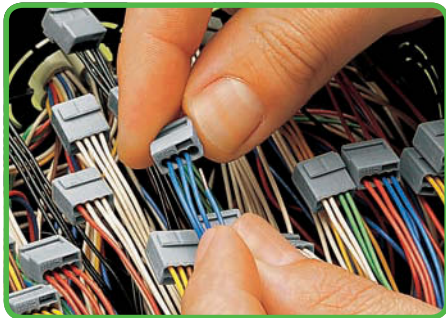
Strip solid conductor to 5 – 6 mm / 0.22 in.

Connector strips



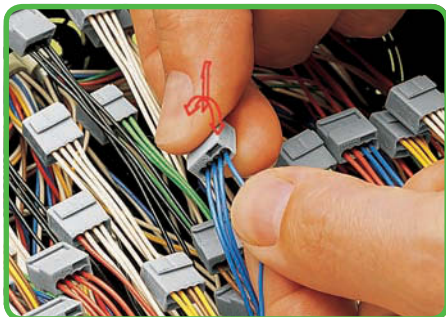
Assembling modular connectors to connector strips

PUSH WIRE® connection



Termination: Insert stripped conductor until it hits backstop.

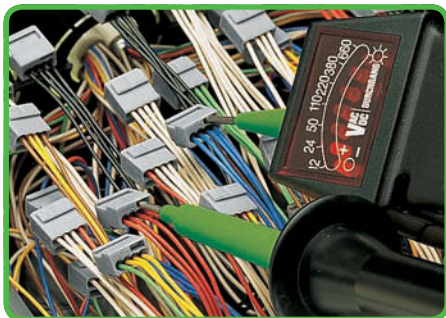
PUSH WIRE® connection



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

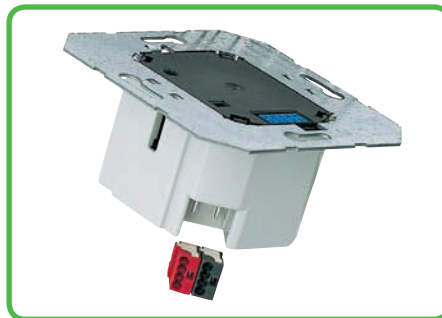


Testing

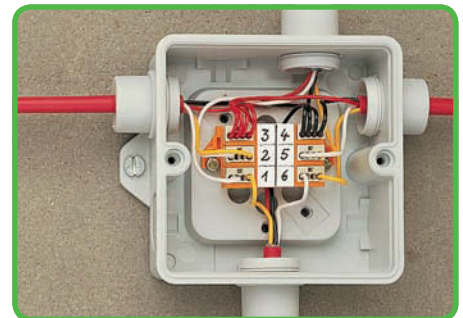


Testing

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.

MICRO PUSH WIRE® Connectors for Junction Boxes, Mounting Carriers

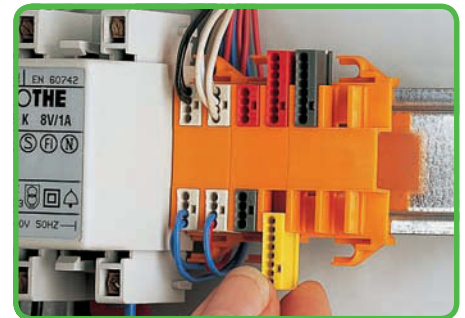
243 Series

0.6 - 0.8 mm Ø "sol."* 100 V/1.5 kV/2 I _N 6 A	AWG 22 - 20 "sol."* 150 V, 7 A 150 V, 7 A	0.6 - 0.8 mm Ø "sol."* 100 V/1.5 kV/2 I _N 6 A	AWG 22 - 20 "sol."* 150 V, 7 A 150 V, 7 A	Mounting carriers for MICRO PUSH WIRE® connectors
 5 - 6 mm / 0.22 in		 5 - 6 mm / 0.22 in		
 Approvals		 Approvals		



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	243-112	50 (5x10)
dark gray	243-204	1000 (10x100)	dark gray	243-208	500 (10x50)	for 6 connectors	243-113	50 (5x10)
red	243-804	1000 (10x100)	red	243-808	500 (10x50)	Marking strips, plain	243-110	1
light gray	243-304	1000 (10x100)	light gray	243-308	500 (10x50)			
yellow	243-504	1000 (10x100)	yellow	243-508	500 (10x50)			

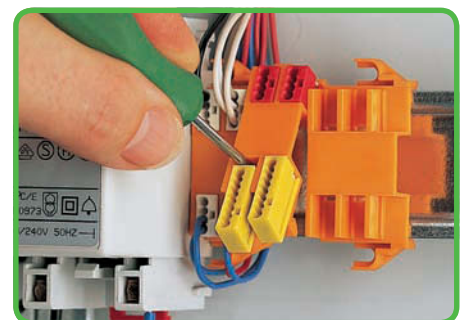
0.4 - 0.5 mm Ø "sol."* 100 V/1.5 kV/2 I _N 6 A	AWG 26 - 24 "sol."*
 5 - 6 mm / 0.22 in	
 Approvals	



Inserting a connector into the mounting carrier.

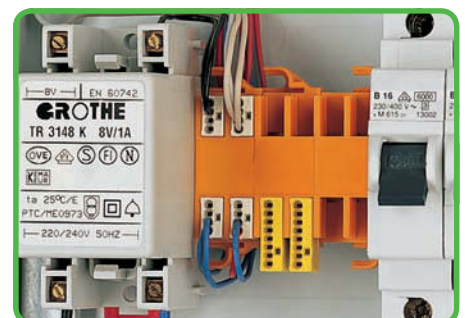
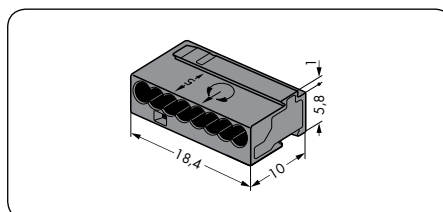
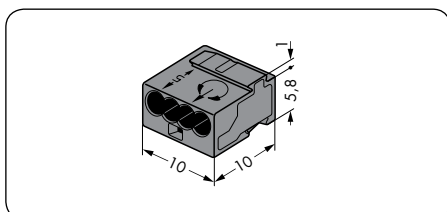


Color	Item No.	Pack. Unit
MICRO PUSH WIRE® connector for junction boxes, 4-conductor connector		
transparent	243-144	1000 (10x100)



Removing a mounting carrier from the DIN rail.

Dimensions



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

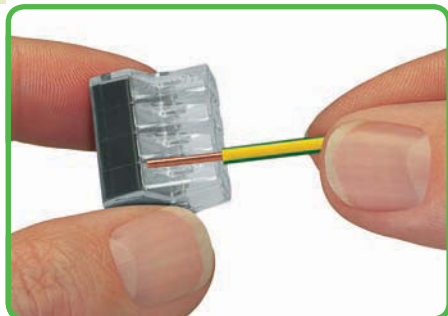
 Approvals are available online at: www.wago.com.

*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, Description and Handling

773 Series

Stripped length

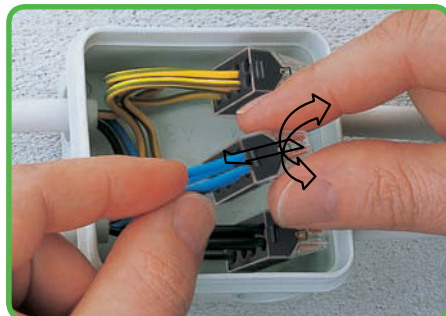


Strip solid conductor to 12 mm / 0.47 in.

PUSH WIRE® connection

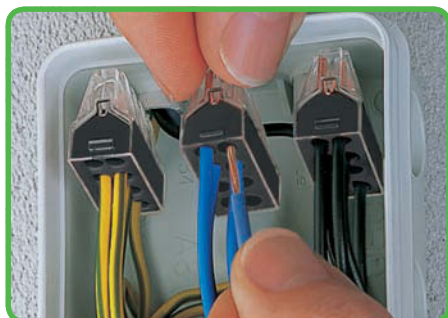


Connection: Insert stripped solid conductor fully!



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

Stranded conductors

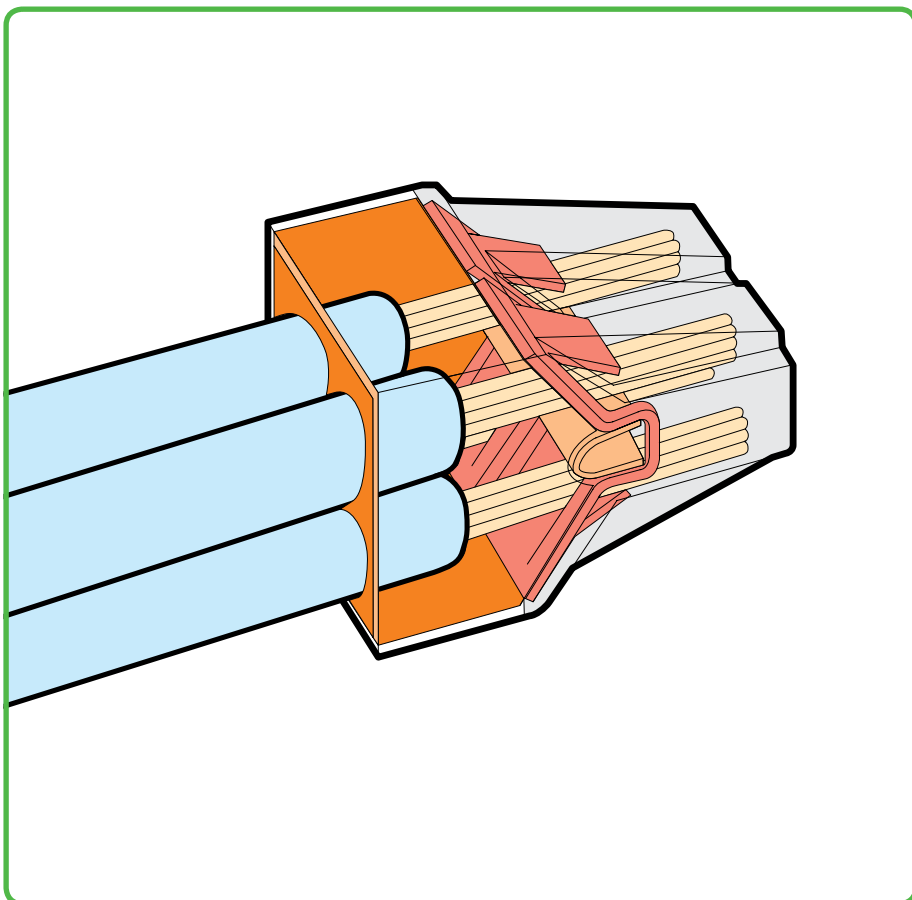


Connection: Insert stripped stranded conductor fully!

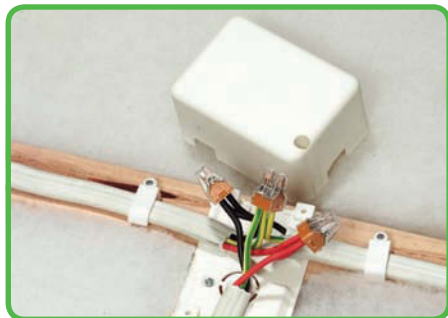
Testing



Testing



Applications



PUSH WIRE® connectors used in a junction box.
(Australia)



PUSH WIRE® connectors used in a junction box.
(Japan)



Mounting carrier.

The PUSH WIRE® connection clamps the following copper conductors:



solid

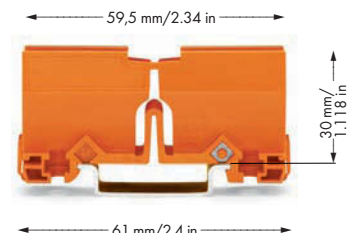


stranded

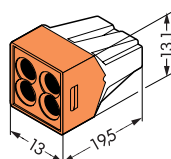
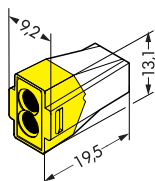
Strip length, see packaging or instructions.

PUSH WIRE® Connectors for Junction Boxes 773 Series

2 x 0.75 - 2.5 mm ² "s" 2 x 1.5 - 2.5 mm ² "st" 400 V/4 kV/2* I _N 24 A  12 mm / 0.47 in ① Approvals	2 x AWG 18 -12 "sol." 2 x AWG 16 -12 "str." 600 V, 20 A   12 mm / 0.47 in ① Approvals	4 x 0.75 - 2.5 mm ² "s" 4 x 1.5 - 2.5 mm ² "st" 400 V/4 kV/2* I _N 24 A  12 mm / 0.47 in ① Approvals	4 x AWG 18 -12 "sol." 4 x AWG 16 -12 "str." 600 V, 20 A  Mounting carrier for 773 Series PUSH WIRE® Connectors for Junction Boxes Carrier width 18 mm / 0.71 in ① Approvals
--	---	--	---



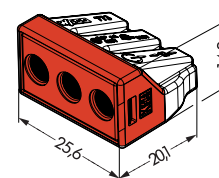
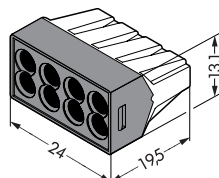
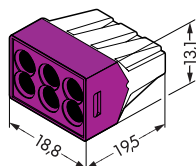
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PUSH WIRE® connector for junction boxes ②, 2-conductor connector, color of housing transparent			PUSH WIRE® connector for junction boxes ②, 4-conductor connector, color of housing transparent			Mounting carrier		
yellow	773-102	500 (10 x 50)	orange	773-104	500 (10 x 50)	orange	773-332	50 (5 x 10)
						Marker strips		
						plain	243-110	1 card



6 x 0.75 - 2.5 mm ² "s" 6 x 1.5 - 2.5 mm ² "st" 400 V/4 kV/2* I _N 24 A  12 mm / 0.47 in ① Approvals	6 x AWG 18 -12 "sol." 6 x AWG 16 -12 "str." 600 V, 20 A   12 mm / 0.47 in ① Approvals	8 x 0.75 - 2.5 mm ² "s" 8 x 1.5 - 2.5 mm ² "st" 400 V/4 kV/2* I _N 24 A  12 mm / 0.47 in ① Approvals	8 x AWG 18 -12 "sol." 8 x AWG 16 -12 "str." 600 V, 20 A  3 x 2.5 - 6 mm ² "s+st" 3 x AWG 14 - 10 "sol.+str." 400 V/4 kV/2* I _N 41 A  12 - 13 mm / 0.53 in ① Approvals
--	---	--	--



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PUSH WIRE® connector for junction boxes ②, 6-conductor connector, color of housing transparent			PUSH WIRE® connector for junction boxes ②, 8-conductor connector, color of housing transparent			PUSH WIRE® connector for junction boxes, 3-conductor connector, color of housing transparent		
violet	773-106	500 (10 x 50)	dark gray	773-108	500 (10 x 50)	red	773-173	500 (10 x 50)



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

② Also available for increased continuous service temperature of 120 °C.

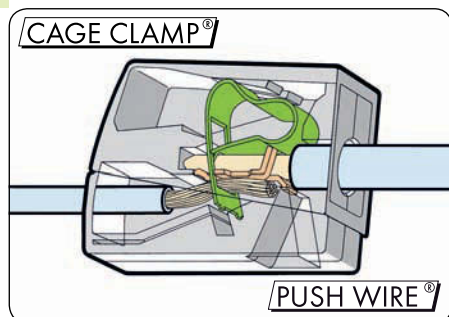
* In grounded (earthed) supply systems

For technical explanations and abbreviations, see technical section.

Lighting Connectors and "Service" Connectors 224 Series

PUSH WIRE®

CAGE CLAMP®



Installation side
1 - 2.5 mm² "sol."
Lighting side
0.5 - 2.5 mm² "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 ①

Installation side
2 x 1.0 - 2.5 mm² "sol."
Lighting side
0.5 - 2.5 mm² "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 ①

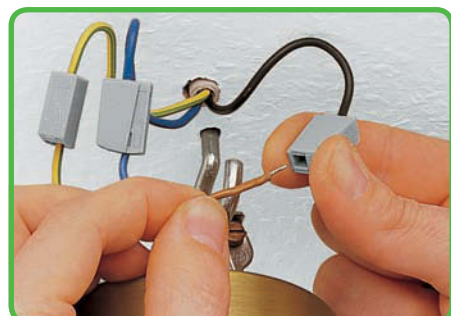


Strip length



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.

CAGE CLAMP® clamps the following copper conductors:



solid



stranded



fine-stranded



tip-bonded



with ferrule ②



with pin terminal

PUSH WIRE® clamps the following copper conductors:



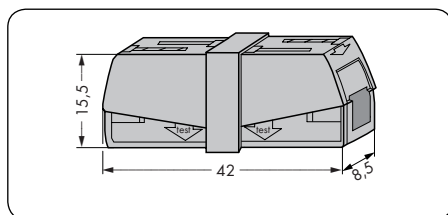
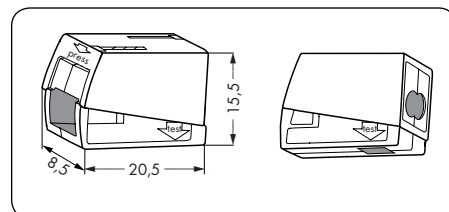
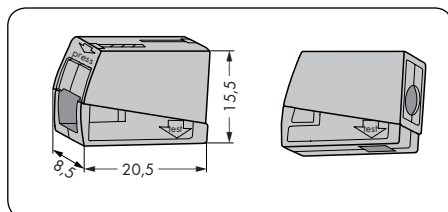
solid

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

Strip length, see packaging or instructions.

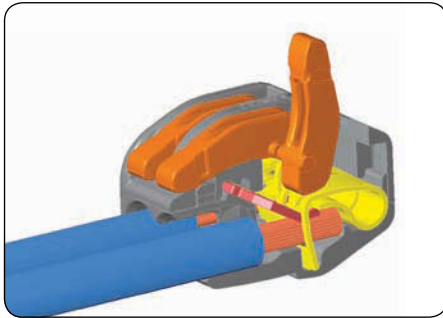
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Lighting connector,			2-conductor lighting connector,		
standard version,			standard version,		
continuous service temperature: 105°C			continuous service temperature: 105°C		
● gray	224-101	1000	○ white	224-112	1000
Version for increased			Version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

Compact Splicing Connectors for Fine-Stranded Conductors 222 Series

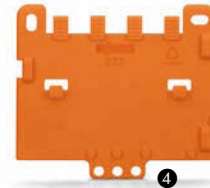


0.08 - 2.5 mm² "s+st"
0.08 - 4 mm² "f-st"
400 V/4 kV/2*
I_N 32 A

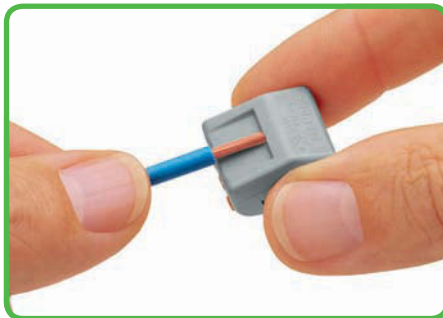
AWG 28 - 14 "s+f-st"
AWG 28 - 12 "f-st"
600 V, 20 A ®

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



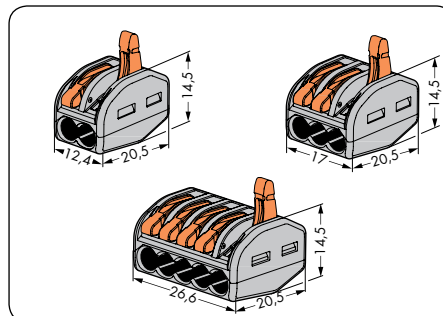
Conductor termination: Open clamping unit using the lever and insert conductor.



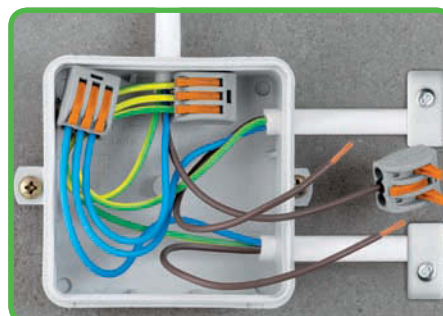
Then, lower lever to close the clamp.

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)			
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:



solid



stranded



fine-stranded



tip-bonded



with ferrule ②



with pin terminal

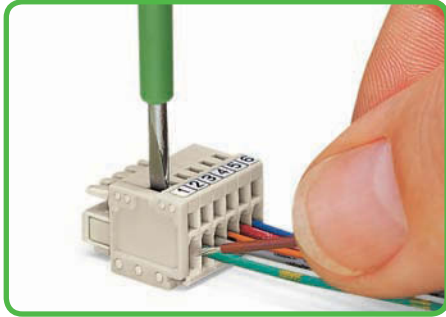
② With ferruled conductors, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.
For technical explanations and abbreviations, see technical section.

* In grounded power lines

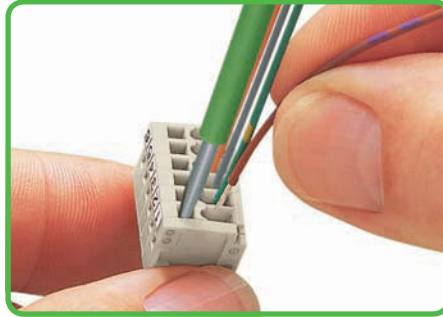
MULTI CONNECTION SYSTEM MICRO, MINI and MIDI

Description and Handling

CAGE CLAMP® connection



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



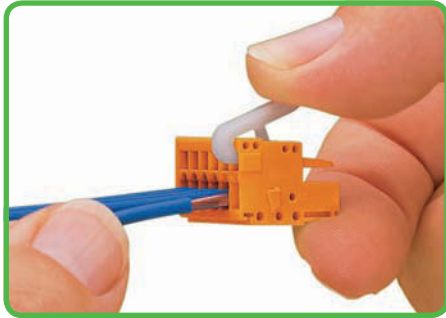
Inserting conductor via (2.5 x 0.4) mm screwdriver.
Operation parallel to conductor entry.

Protection against mismatching

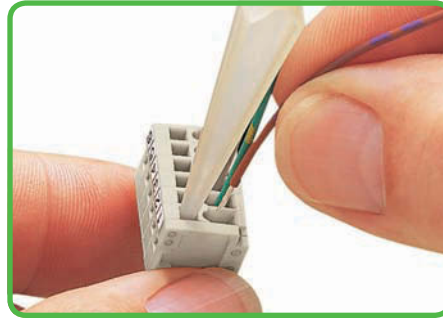


Male header and female connector - 100% protected against mismatching.
Only mating halves with the same pole number can be connected together.

CAGE CLAMP® connection

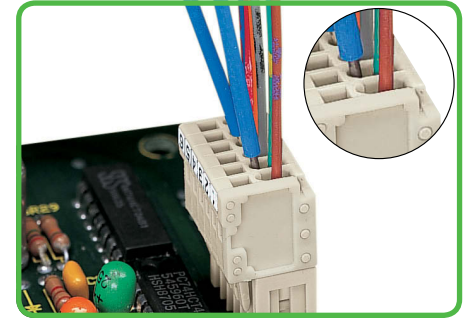


Inserting conductor via 734-230 operating lever.



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

Testing

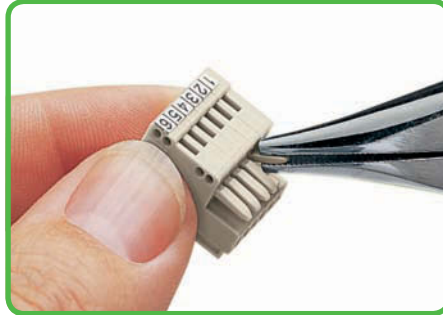


Testing with 1 mm Ø test probe, item no. 735-500, tip contact

Coding

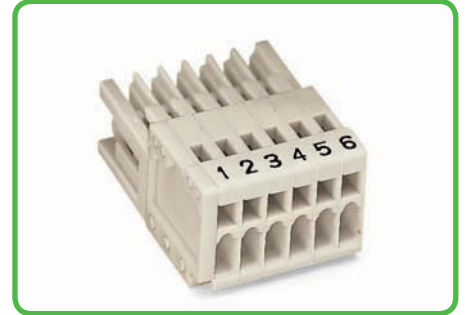


Coding a male header - fitting coding key(s).



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

Marking



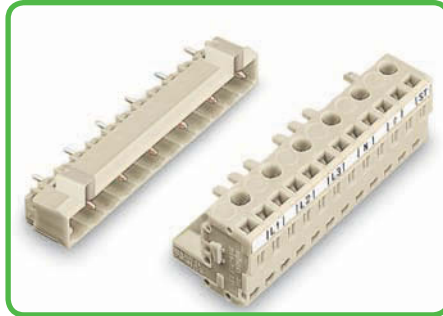
Marking by direct printing or using self-adhesive marker strips.

Insulation stop



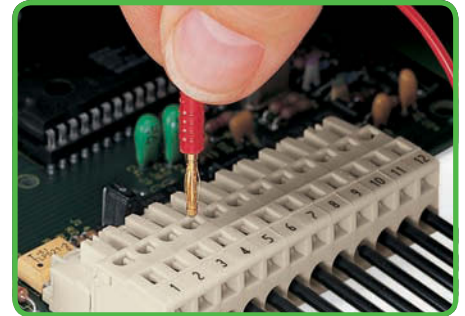
The insulation stop prevents the insulation of smaller conductors from being inserted into the clamping unit.

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.

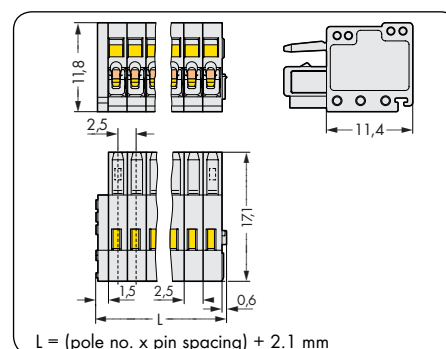
2
952

Accessories, 733 Series

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.

Drilled hole diameter: $1.1^{+0.1}$ mm



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 

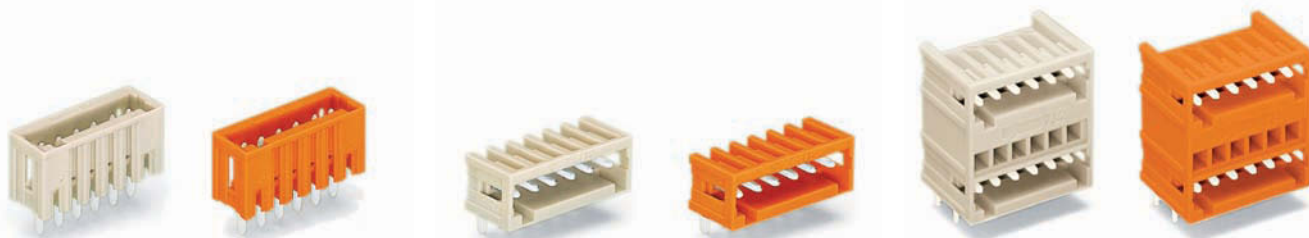
① Approvals

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

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 

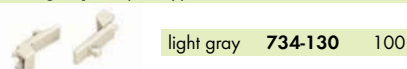
① Approvals



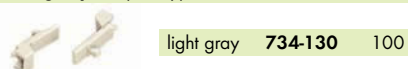
Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit
Male header,				Male header,				Double-deck male header without support,			
100% protected against mismatching,				100% protected against mismatching,				100% protection against mismatching,			
(1 x 1) mm straight solder pins				(1 x 1) mm angled solder pins				(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

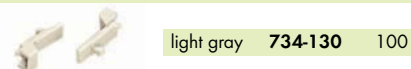
Coding key, snap-on type



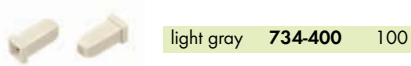
Coding key, snap-on type



Coding key, to be snapped above top level



Coding key, to be snapped in bottom level,

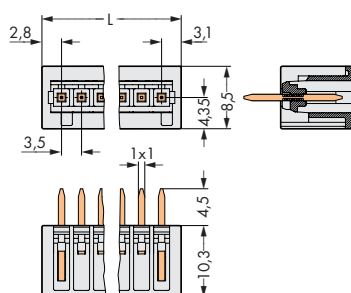


Note: These connectors shall only be mated or unmated at voltages below 42V and in the "no load" condition.

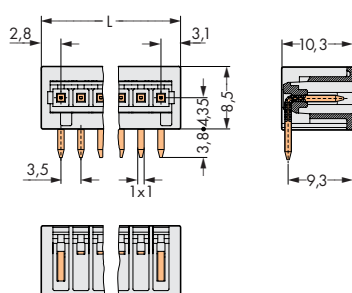
For mating and unmating at low power values, please request data.

Dimensions

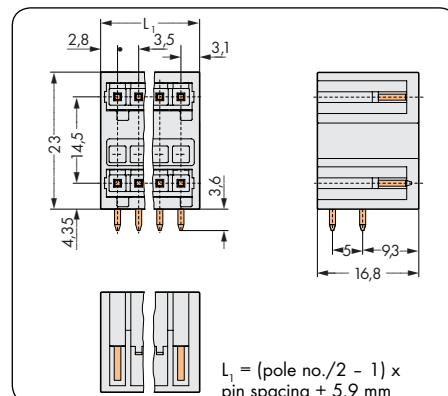
Drilled hole diameter: 1.4^{+0.1} mm



$$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm}$$



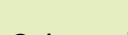
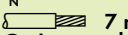
$$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm}$$



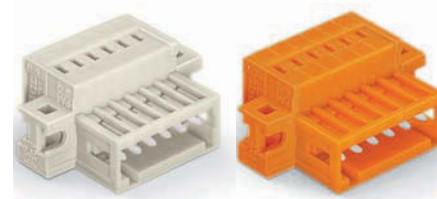
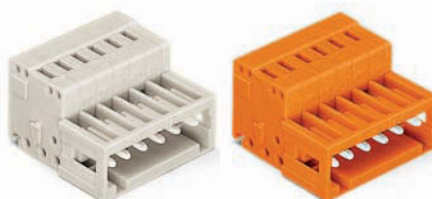
$$L_1 = (\text{pole no.} / 2 - 1) \times \text{pin spacing} + 5.9 \text{ mm}$$

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

2
97

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	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
300 V, 10 A 	300 V, 10 A 	300 V, 10 A 
		
① Approvals	① Approvals	① Approvals

CAGE CLAMP®



2

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	100	2 ○ 734-302	734-332	200	2 ○ 734-302/019-000	734-332/019-000	200
3 ○ 734-403/001-000	734-433/001-000	100	3 ○ 734-303	734-333	200	3 ○ 734-303/019-000	734-333/019-000	200
4 ○ 734-404/001-000	734-434/001-000	100	:	:	:	:	:	:
5 ○ 734-405/001-000	734-435/001-000	100	10 ○ 734-310	734-340	50	10 ○ 734-310/019-000	734-340/019-000	50
6 ○ 734-406/001-000	734-436/001-000	50	11 ○ 734-311	-	50	11 ○ 734-311/019-000	-	50
7 ○ 734-407/001-000	-	50	12 ○ 734-312	734-342	50	12 ○ 734-312/019-000	734-342/019-000	25
8 ○ 734-408/001-000	734-438/001-000	50	13 ○ 734-313	-	50	13 ○ 734-313/019-000	-	25
9 ○ 734-409/001-000	734-439/001-000	50	14 ○ 734-314	734-344	50	14 ○ 734-314/019-000	734-344/019-000	25
10 ○ 734-410/001-000	734-440/001-000	50	16 ○ 734-316	734-346	25	16 ○ 734-316/019-000	734-346/019-000	25
12 ○ 734-412/001-000	734-442/001-000	50	18 ○ 734-318	734-348	25	18 ○ 734-318/019-000	734-348/019-000	25
			20 ○ 734-320	734-350	25	20 ○ 734-320/019-000	734-350/019-000	25
			24 ○ 734-324	-	25	24 ○ 734-324/019-000	-	25

Accessories, Item-Specific

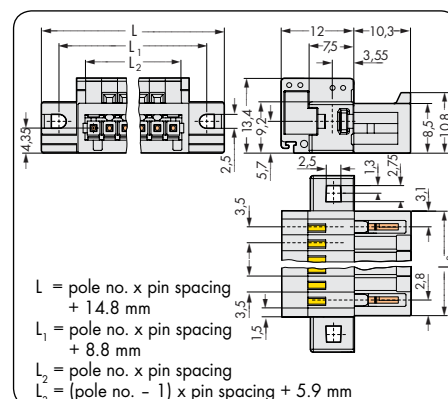
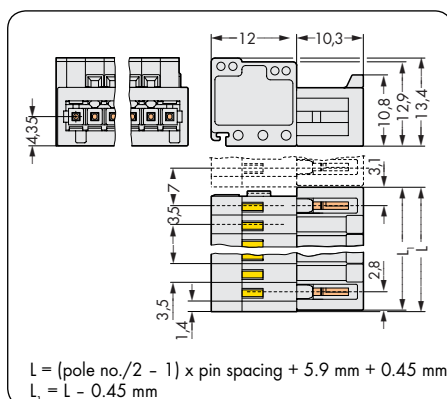
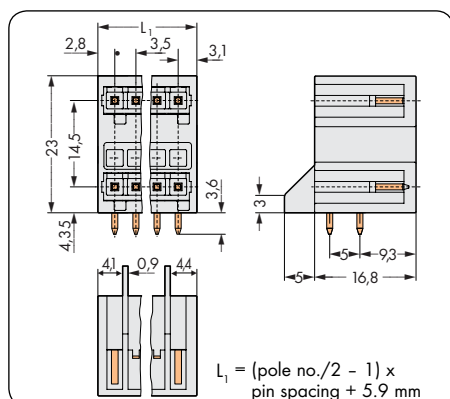
	Coding key, light gray, to be snapped in bottom level		Operating lever, for male connectors		Screw with nut, M 2 x 12 mm
734-400	100	734-230	100(4x25)	231-195	200 (2x100)

Accessories, 734 Series

	Coding key, light gray, to be snapped above top level		Operating tool, with partially insulated shaft, (2.5x0.4)mm blade		Marker cards, 80 self-adhesive strips per card direct printing upon request
734-130	100	210-719	1		
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	Marking	
			735-500	1	
			Strain relief plates, see page 113	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

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
① Approvals

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
① Approvals

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
① Approvals

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

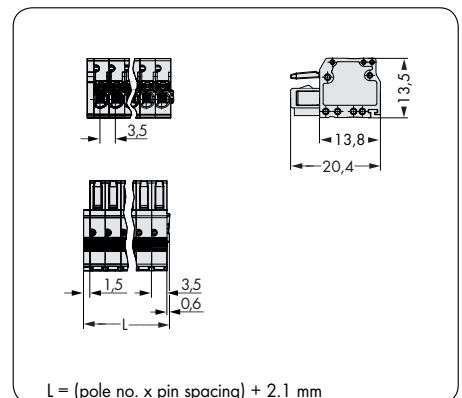
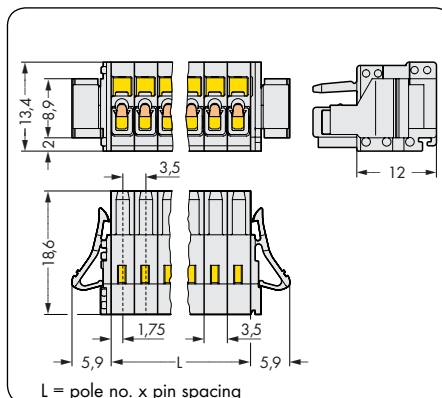
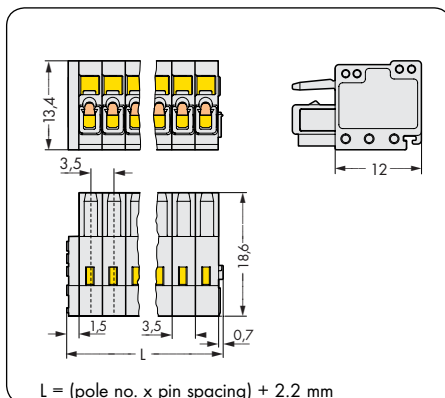
Accessories, Item-Specific

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

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



MULTI CONNECTION SYSTEM MINI HD – 100% Protected Against Mismatching Male Headers and Female Connectors, Pin Spacing 3.5 mm, 713 Series

2
99

Pin spacing 3.5 mm / 0.138 in 160 V/2.5 kV/3 I_N 10 A ① Approvals	Pin spacing 3.5 mm / 0.138 in 160 V/2.5 kV/3 I_N 10 A ① 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 / 0.24 - 0.28 in ① Approvals
--	--	--

CAGE CLAMP®



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

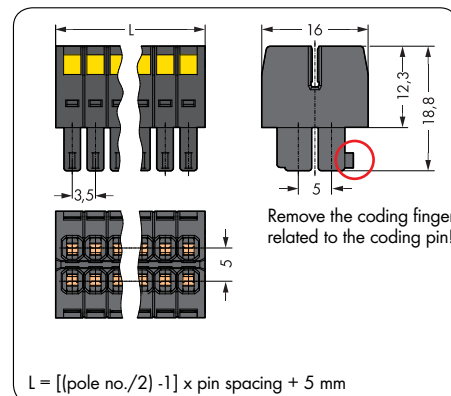
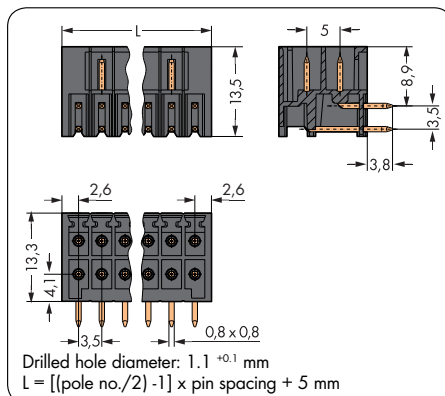
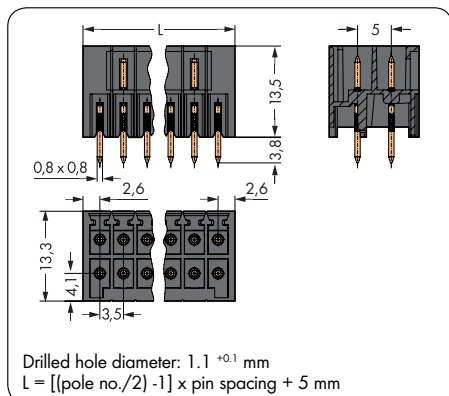


Operating tool with partially insulated shaft, type 1,
(2.5 x 0.4) mm blade **210-719** 1



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



MULTI CONNECTION SYSTEM MINI HD – 100% Protected Against Mismatching

Male Headers and Female Connectors with Levers

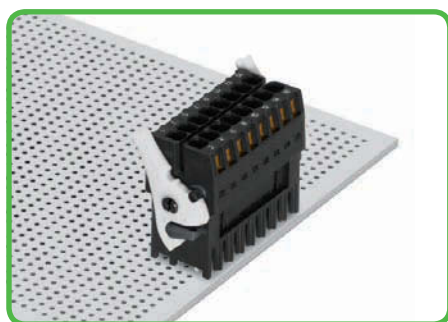
Pin Spacing 3.5 mm; 713 Series

Pin spacing 3.5 mm / 0.138 in 160 V/2.5 kV/3 I_N 10 A ① Approvals	Pin spacing 3.5 mm / 0.138 in 160 V/2.5 kV/3 I_N 10 A ① 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 ① Approvals
--	--	---

CAGE CLAMP®



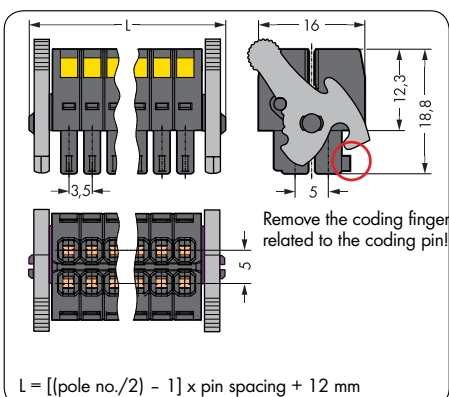
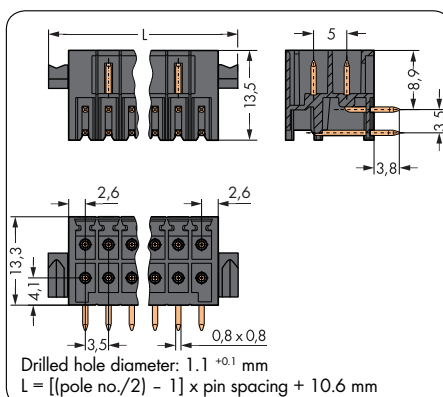
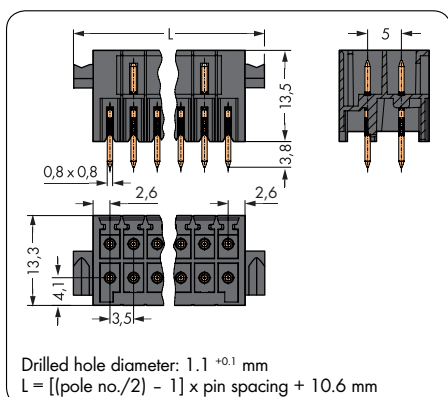
Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Male header, 2-row, with levers, (0.8 x 0.8) mm straight solder pins, black			Male header, 2-row, with levers, (0.8 x 0.8) mm angled solder pins, black			Female connector, 2-row, with levers, with CAGE CLAMP®, with 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

2
101

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 7 mm / 0.28 in Approvals	Accessories
--	---	--------------------

CAGE CLAMP®

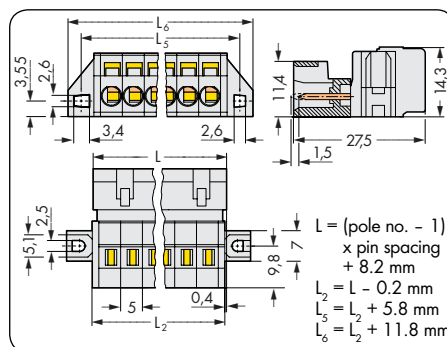
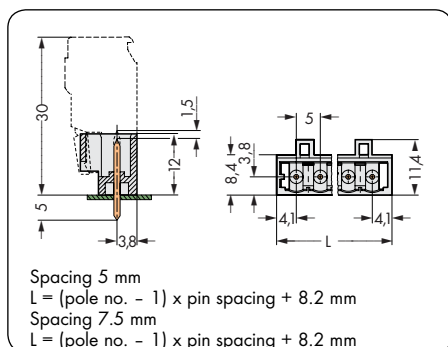


2

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		angled				with fixing flanges		1 - 12 (300x) 210-331/500-103			
2	721-132/001-000	721-432/001-000	200	2	721-602	100	721-602/019-000	100	13 - 24 (300x) 210-331/500-104		
3	721-133/001-000	721-433/001-000	200	3	721-603	100	721-603/019-000	50	Spacing 7.5 mm		
4	721-134/001-000	721-434/001-000	200	4	721-604	100	721-604/019-000	50	1 - 16 (100x) 210-331/750-202		
5	721-135/001-000	721-435/001-000	200	5	721-605	50	721-605/019-000	50	Coding key, snap-on type,		
6	721-136/001-000	721-436/001-000	100	6	721-606	50	721-606/019-000	50	Spacing 5 mm		
7	721-137/001-000	721-437/001-000	100	7	721-607	50	721-607/019-000	50	light gray 231-129 100		
8	721-138/001-000	721-438/001-000	100	8	721-608	50	721-608/019-000	50	Spacing 7.5 mm		
9	721-139/001-000	721-439/001-000	100	9	721-609	50	721-609/019-000	25	light gray 231-130 100		
10	721-140/001-000	721-440/001-000	100	10	721-610	50	721-610/019-000	25	Insulation stop, 5 pcs/strip		
12	721-142/001-000	721-442/001-000	100	12	721-612	25	721-612/019-000	25	Spacing 5 mm		
14	721-144/001-000	721-444/001-000	50	:	:	:	:	:	0.08–0.2mm² 2		
16	721-146/001-000	721-446/001-000	50	16	721-616	25	721-616/019-000	10	white 231-670 200		
20	721-150/001-000	721-450/001-000	50	20	721-620	10	721-620/019-000	10	0.25–0.5 mm²		
Pin spacing 7.5 mm				Pin spacing 7.5 mm				light gray 231-671 200			
straight		angled				with fixing flanges		0.75–1mm²			
2	721-232/001-000	721-832/001-000	200	2	723-602	100	723-602/019-000	50	dark gray 231-672 200		
3	721-233/001-000	721-833/001-000	200	3	723-603	100	723-603/019-000	50	Spacing 7.5 mm		
4	721-234/001-000	721-834/001-000	100	4	723-604	50	723-604/019-000	50	0.08–0.2mm² 2		
5	721-235/001-000	721-835/001-000	100	5	723-605	50	723-605/019-000	50	white 231-673 200		
6	721-236/001-000	721-836/001-000	100	6	723-606	50	723-606/019-000	25	0.25–0.5 mm²		
7	721-237/001-000	721-837/001-000	50	7	723-607	50	723-607/019-000	25	light gray 231-674 200		
8	721-238/001-000	721-838/001-000	50	8	723-608	25	723-608/019-000	25	0.75–1mm²		
9	721-239/001-000	721-839/001-000	50	9	723-609	25	723-609/019-000	25	dark gray 231-675 200		
10	721-240/001-000	721-840/001-000	50	10	723-610	25	723-610/019-000	25	2 0.2 mm² “sol.” (0.14 mm² “f-st”)		
11	721-241/001-000	721-841/001-000	50	11	723-611	25	723-611/019-000	10	Fixing element, horizontal locking device		
12	721-242/001-000	721-842/001-000	50	12	723-612	25	723-612/019-000	10	gray 231-193 100		
Dimensions				Drilled hole diameter: 1.4 +0.1 mm (1x1 mm solder pin)							

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 7.5 mm/0.295 in, light gray
400 V/6 kV/3 | 300 V, 10 A 

① Approvals

Pin spacing 5 mm/0.197 in, light gray
0.08 - 2.5 mm² | 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

① Approvals

Pin spacing 5 mm/0.197 in, light gray
0.2 - 2.5 mm² | AWG 24 - 12*
250 V/4 kV/3 | I_N 16 A

 10 - 11 mm / 0.43 in

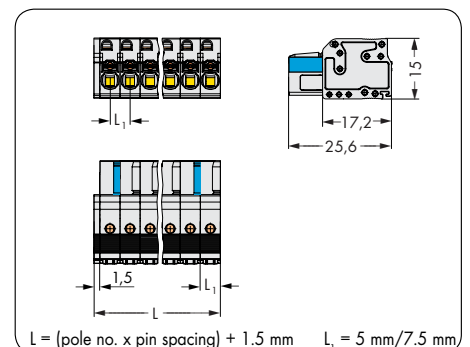
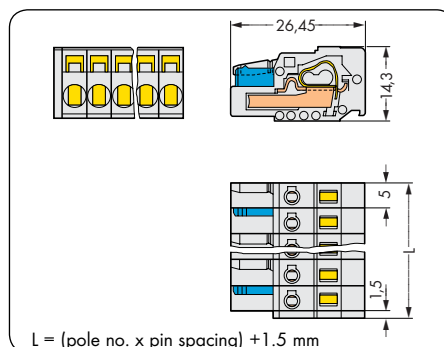
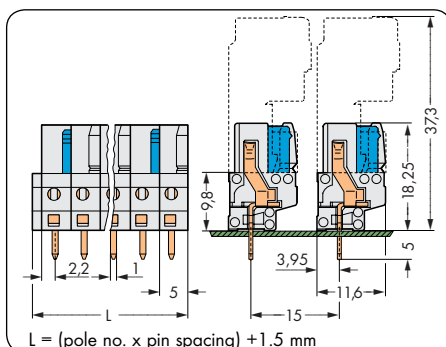
① Approvals

CAGE CLAMP®

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		angled		straight		angled		straight		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		angled		straight		angled		straight		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 +0.1mm							



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

* AWG 12: THHN, THWN

CAGE CLAMP®



Accessories, 721 and 2721 Series	Item No.
Marking strips, 100 self-adhesive strips	
Spacing 5 mm	
1-12 (300x)	210-331/500-103
13-24 (300x)	210-331/500-104
Spacing 7.5 mm	
1-16 (100x)	210-331/750-202

Insulation stop, 5 pcs/strip			
	Spacing 5 mm		
	0.08–0.2mm ² ②		
	white	231-670	200
	0.25–0.5 mm ²		
	light gray	231-671	200
	0.75–1mm ²		
	dark gray	231-672	200

0	Spacing 7.5 mm		
5	0.08–0.2mm ² ②		
	white	231-673	200
5	0.25–0.5 mm ²		
0	light gray	231-674	200
	0.75–1mm ²		
	dark gray	231-675	200

② 0.2 mm² "sol." (0.14 mm² "f-st")

0	Mounting adapter , for DIN 35 rail, 3 or more poles			
0		gray	209-137	1

Tapping screw		
	B 2.2 x 9.5 mm 209-147	100
Drilled hole: 1.8 mm Ø		

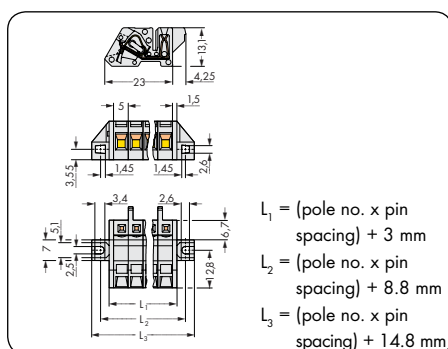
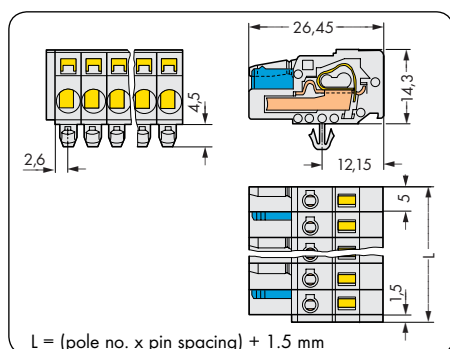
	Drilled hole, 1.8 mm Ø		
	Screw with nut	M 2 x 12 mm 231-195	100

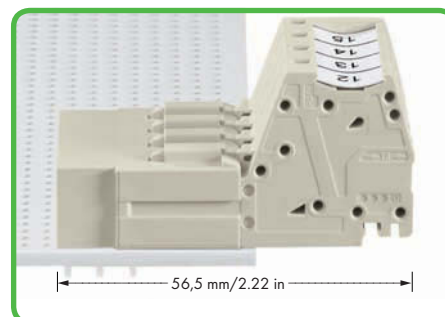
 for fixing flange

	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 2, (3.5 x 0.5) mm blade	310 720	1
---	---	----------------	----------

	210-250	1
Operating tool , for female and male connectors		
	210-250	1

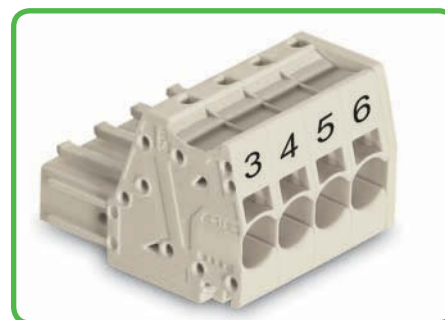
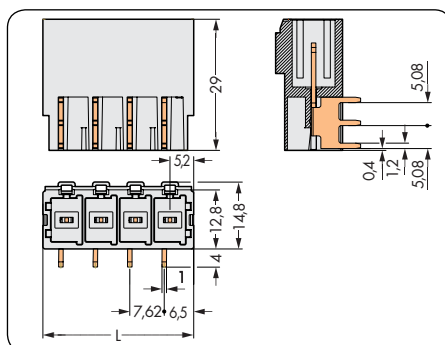
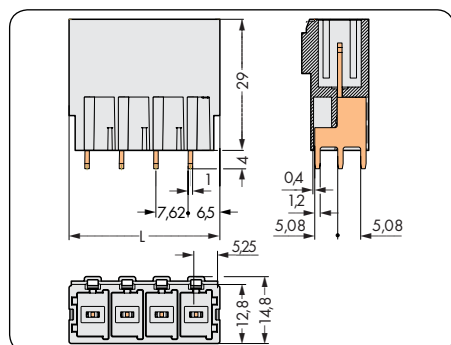


[illegible]

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.

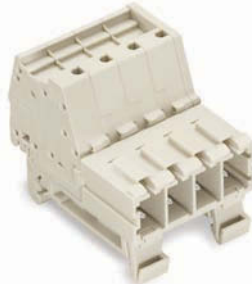
MULTI CONNECTION SYSTEM MAXI – 100% Protected Against Mismatching, Male and Female Connectors, Pin Spacing 7.62 mm

CAGE CLAMP®S

2
105

Pin spacing 7.62 mm/0.3 in, light gray 0.5 - 6 (10) mm² ② 1000 V/8 kV/3 I_N 41 A AWG 20 - 8 600 V, 42 A ③ 600 V, 50 A ④  13 - 15 mm / 0.52 - 0.58 in ① Approvals	Pin spacing 7.62 mm/0.3 in, light gray 0.5 - 6 (10) mm² ② 1000 V/8 kV/3 I_N 41 A AWG 20 - 8 600 V, 42 A ③ 600 V, 50 A ④  13 - 15 mm / 0.52 - 0.58 in ① Approvals	Pin spacing 7.62 mm/0.3 in, light gray 0.5 - 6 (10) mm² ② 1000 V/8 kV/3 I_N 41 A AWG 20 - 8 600 V, 42 A ③ 600 V, 50 A ④  13 - 15 mm / 0.52 - 0.58 in ① Approvals
---	---	---

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"



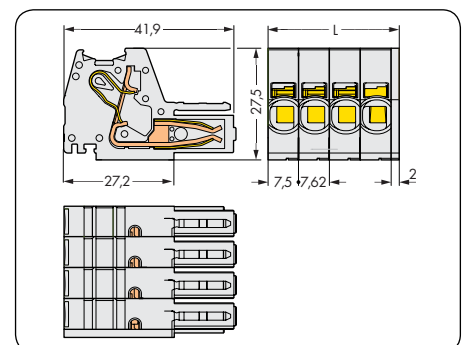
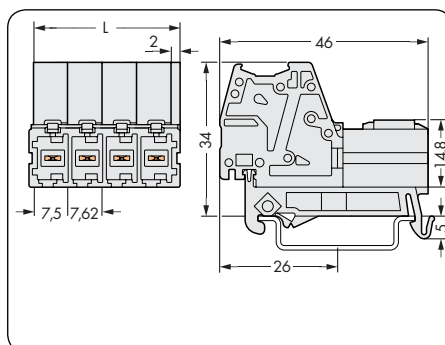
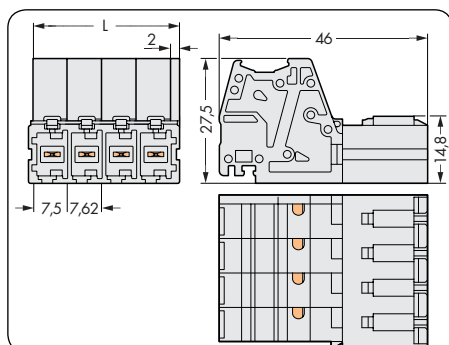
Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Male connector with CAGE CLAMP®S, coding via pins, light gray			Male connector with CAGE CLAMP®S, with integrated adapter for DIN 35-rail mounting, coding via pins, light gray			Female connector with CAGE CLAMP®S, 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

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

Dimensions

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



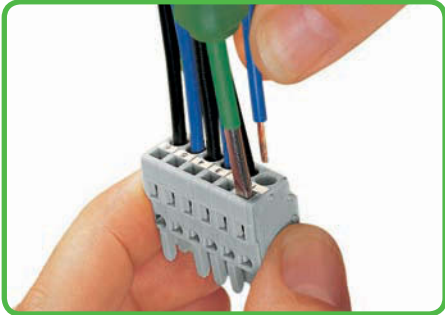
For technical explanations and abbreviations, see technical section.

WAGO®

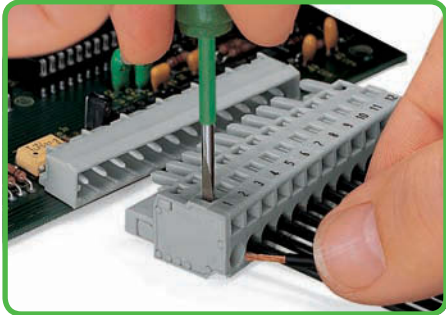
MULTI CONNECTION SYSTEM MIDI Classic

Description and Handling

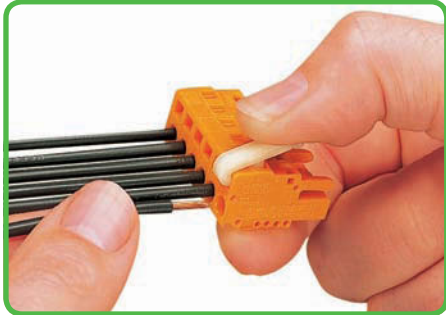
CAGE CLAMP® connection



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

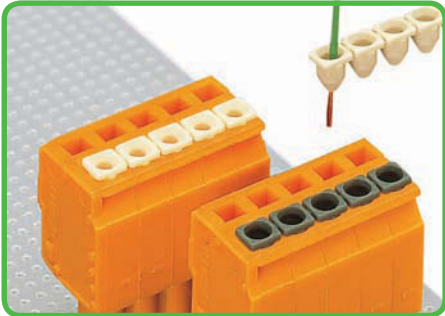


Inserting conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



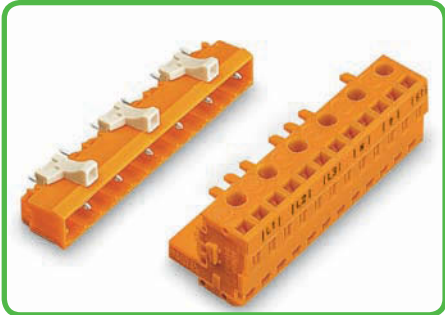
Inserting conductor into CAGE CLAMP® unit via 231-131 operating lever.

Insulation stop

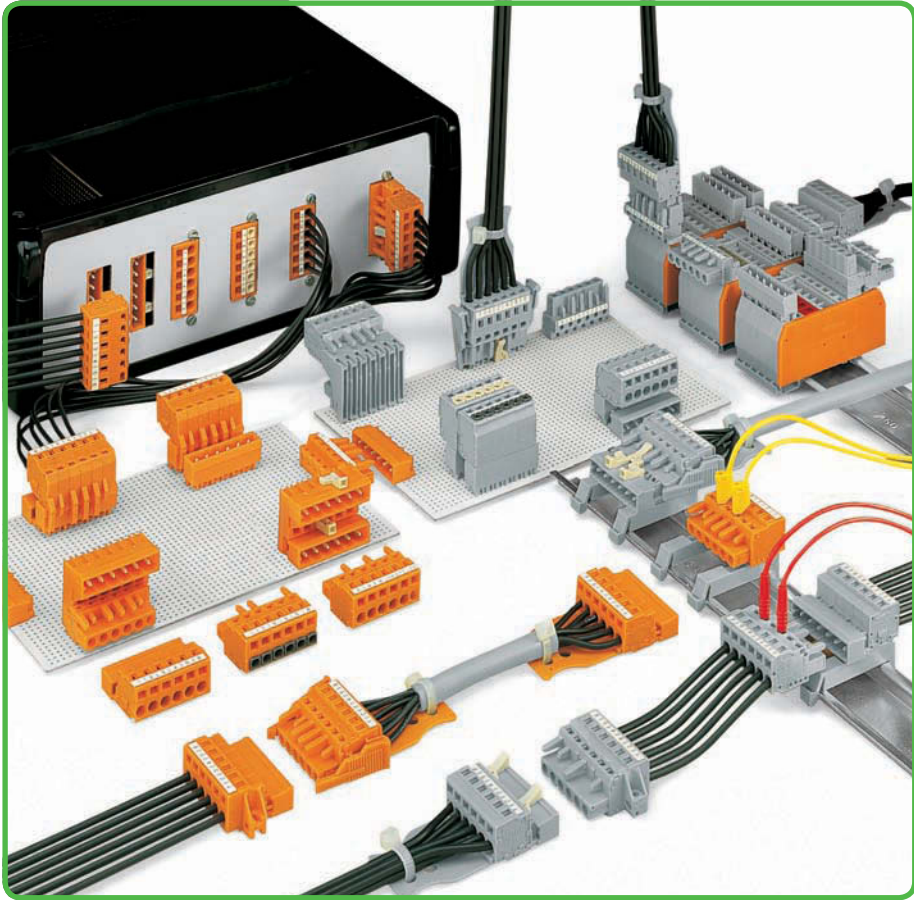


Prevents conductor insulation from being inserted into the clamping unit for CAGE CLAMP® and CAGE CLAMP®S.

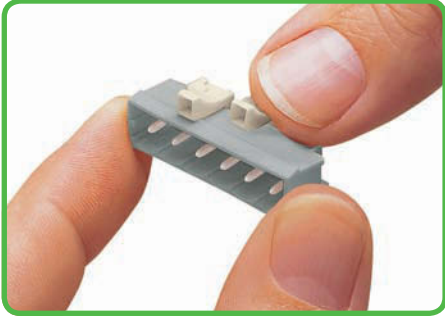
Pin spacing 10 mm and 10.16 mm



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



Coding

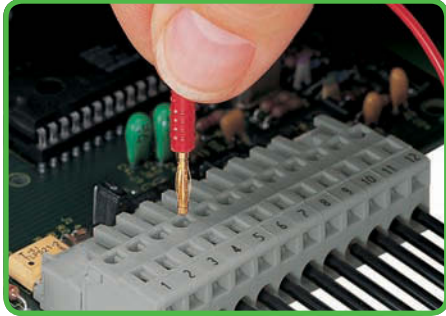


Coding a male header – fitting coding key(s).



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
Strip length, see packaging or instructions.



stranded



fine-stranded



tip-bonded



with ferrule



with pin terminal

MULTI CONNECTION SYSTEM MIDI Classic

Male Headers with Solder Pins

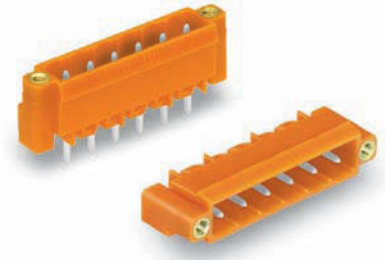
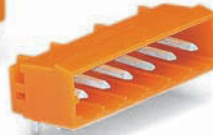
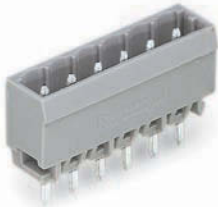
Pin Spacing 5 mm; 5.08 mm; 7.5 mm and 7.62 mm

2
107

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
① 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
① Approvals

Accessories



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,  5 mm and 5.08 mm pin spacing light gray 231-129 100	
Pin spacing 5 mm					Pin spacing 5.08 mm					7.5 mm and 7.62 mm pin spacing light gray 231-130 100	
straight					straight					Fixing element, horizontal,  5 mm and 7.5 mm pin spacing gray 231-193 100	
2	231-132/001-000	231-432/001-000	200		2	231-332/001-000	231-532/001-000	200		Fixing element, horizontal,  5.08 mm and 7.62 mm pin spacing orange 231-393 100	
3	231-133/001-000	231-433/001-000	200		3	231-333/001-000	231-533/001-000	200		Tapping screw,  for 1.8 mm Ø mounting hole B 2.2 x 13 mm 231-194 100	
4	231-134/001-000	231-434/001-000	200		4	231-334/001-000	231-534/001-000	200		Screw with nut,  for fixing element M 2 x 12 mm 231-195 100	
5	231-135/001-000	231-435/001-000	200		5	231-335/001-000	231-535/001-000	200		Separator, for formation of groups  light gray 231-500 100	
:	:	:	:		:	:	:	:			
12	231-142/001-000	231-442/001-000	100		12	231-342/001-000	231-542/001-000	100			
:	:	:	:		:	:	:	:			
21	231-151/001-000	231-451/001-000	50		21	231-351/001-000	231-551/001-000	50			
22	231-152/001-000	231-452/001-000	50		22	231-352/001-000	231-552/001-000	50			
23	231-153/001-000	231-453/001-000	50		23	231-353/001-000	231-553/001-000	50			
24	231-154/001-000	231-454/001-000	50		24	231-354/001-000	231-554/001-000	50			
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								

MULTI CONNECTION SYSTEM MIDI Classic

CAGE CLAMP®

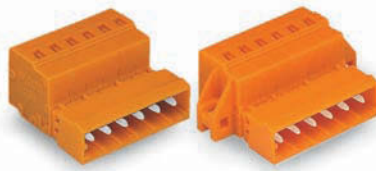
Male Connectors

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

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

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  
Pin spacing 7.62 mm/0.3 in, orange
630 V/6 kV/3 | 300 V, 15 A  
 8 - 9 mm / 0.33 in
① Approvals

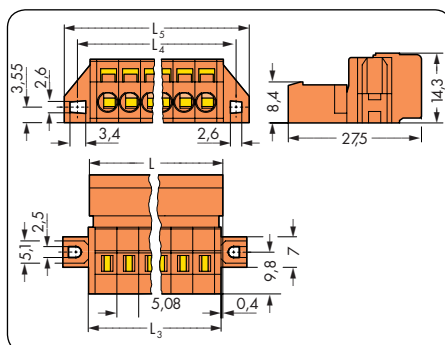
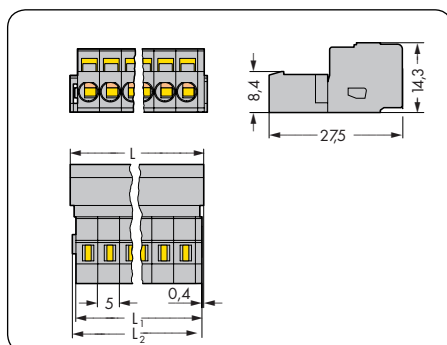
Accessories



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	
3	231-603	100		231-603/019-000	50		3	231-633	100		231-633/019-000	50		Pin spacing 5.08 mm	
4	231-604	100		231-604/019-000	50		4	231-634	100		231-634/019-000	50		1 - 12 (200x) 210-331/508-103	
5	231-605	50		231-605/019-000	50		5	231-635	50		231-635/019-000	50		13 - 24 (200x) 210-331/508-104	
:	:	:		:	:		:	:	:		:	:		Pin spacing 7.5 mm	
12	231-612	25		231-612/019-000	25		12	231-642	25		231-642/019-000	25		1 - 16 (100x) 210-331/750-202	
:	:	:		:	:		:	:	:		:	:		Pin spacing 7.62 mm	
21	231-621	10		231-621/019-000	10		21	231-651	10		231-651/019-000	10		1 - 16 (100x) 210-331/762-202	
22	231-622	10		231-622/019-000	10		22	231-652	10		231-652/019-000	10		Operating tool with partially insulated shaft, type 2, (3.5x0.5) mm blade	
23	231-623	10		231-623/019-000	10		23	231-653	10		231-653/019-000	10		210-720 1	
24	231-624	10		231-624/019-000	10		24	231-654	10		231-654/019-000	10		Coding key, snap-on type,	
Pin spacing 7.5 mm (pole no. - 1) + 5 mm							Pin spacing 7.62 mm (pole no. - 1) + 5.08 mm							5 mm and 5.08 mm pin spacing	
with fixing flanges							with fixing flanges							light gray 231-129 100	
2	731-602	100		731-602/019-000	50		2	731-632	100		731-632/019-000	50		7.5 mm and 7.62 mm pin spacing	
3	731-603	100		731-603/019-000	50		3	731-633	100		731-633/019-000	50		light gray 231-130 100	
4	731-604	50		731-604/019-000	50		4	731-634	50		731-634/019-000	50		Insulation stop, 5 pcs/strip	
5	731-605	50		731-605/019-000	50		5	731-635	50		731-635/019-000	50		5 mm and 5.08 mm pin spacing	
6	731-606	50		731-606/019-000	25		6	731-636	50		731-636/019-000	25		0.08 - 0.2 mm ² ②	
7	731-607	50		731-607/019-000	25		7	731-637	50		731-637/019-000	25		white 231-670 200	
8	731-608	25		731-608/019-000	25		8	731-638	25		731-638/019-000	25		0.25 - 0.5 mm ²	
9	731-609	25		731-609/019-000	25		9	731-639	25		731-639/019-000	25		light gray 231-671 200	
10	731-610	25		731-610/019-000	25		10	731-640	25		731-640/019-000	25		0.75 - 1 mm ²	
11	731-611	25		731-611/019-000	10		11	731-641	25		731-641/019-000	10		dark gray 231-672 200	
12	731-612	25		731-612/019-000	10		12	731-642	25		731-642/019-000	10		7.5 mm and 7.62 mm pin spacing	
13	731-613	10		731-613/019-000	10									0.08 - 0.2 mm ² ②	
16	731-616	10		731-616/019-000	10									white 231-673 200	
														0.25 - 0.5 mm ²	
														light gray 231-674 200	
														0.75 - 1 mm ²	
														dark gray 231-675 200	
														② 0.2 mm ² "sol." (0.14 mm ² "fst")	
														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	

Dimensions

$L = (\text{pole no.} \times \text{pin spacing}) + 3.2 \text{ mm}$ $L_1 = L - 1.7 \text{ mm}$ $L_2 = L - 1.2 \text{ mm}$
 $L_3 = L - 0.2 \text{ mm}$ $L_4 = L_3 + 5.8 \text{ mm}$ $L_5 = L_3 + 11.8 \text{ mm}$



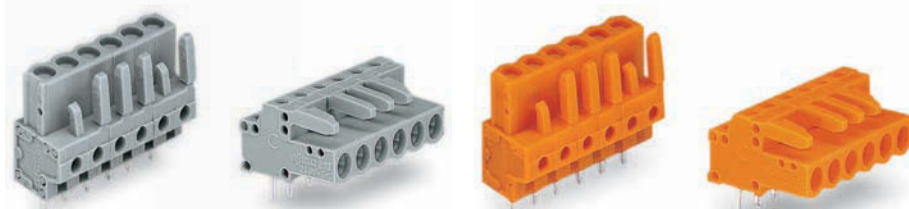
MULTI CONNECTION SYSTEM MIDI Classic

Female Headers with Solder Pins

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

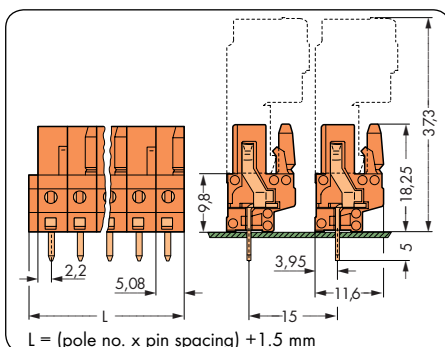
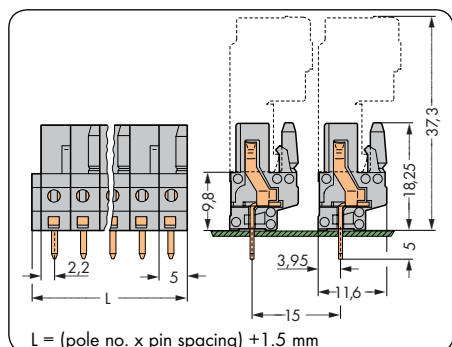
2
109

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
---	---	--------------------



2

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							
straight		angled		straight		angled		Pin spacing 5 mm			
	2** 232-132	232-232	100		2** 232-162	232-262	100	1 - 12 (300 x)	210-331/500-103		
	3** 232-133	232-233	100		3** 232-163	232-263	100	13 - 24 (300 x)	210-331/500-104		
	4 232-134	232-234	100		4 232-164	232-264	100	Pin spacing 5.08 mm			
	5 232-135	232-235	100		5 232-165	232-265	100	1 - 12 (200 x)	210-331/508-103		
:	:	:		:	:	:		13 - 24 (200 x)	210-331/508-104		
	12 232-142	232-242	50		12 232-172	232-272	50	Pin spacing 7.5 mm			
:	:	:		:	:	:		1 - 16 (100 x)	210-331/750-202		
	21 232-151	232-251	10		21 232-181	232-281	10	Pin Spacing 7.62 mm			
	22 232-152	232-252	10		22 232-182	232-282	10	1 - 16 (100 x)	210-331/762-202		
	23 232-153	232-253	10		23 232-183	232-283	10	 Test plug, with 500 mm cable,			
	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				2 mm Ø, red		210-136	50
straight		angled		straight		angled		2.3 mm Ø, yellow		210-137	50
	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

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

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 
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

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
Pin spacing 7.62 mm/0.3 in, orange
630 V/6 kV/3 | 300 V, 15 A
 8 - 9 mm / 0.33 in

① Approvals

Pin spacing 5 mm/0.197 in, gray
0.2 - 2.5 mm² | AWG 24 - 12*
320 V/4 kV/3 | I_N 16 A
 10 - 11 mm / 0.43 in

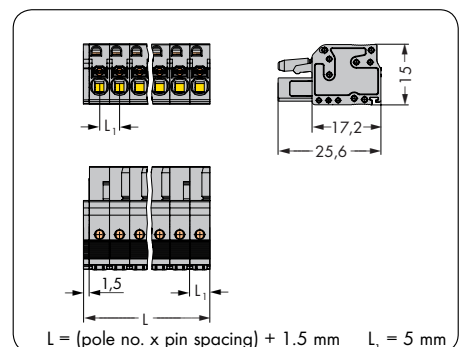
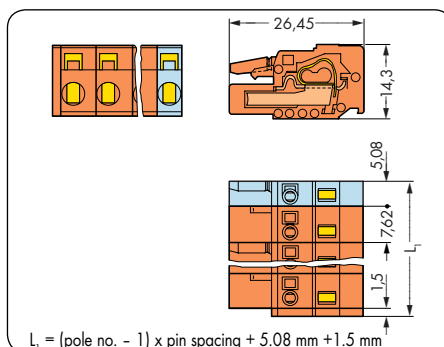
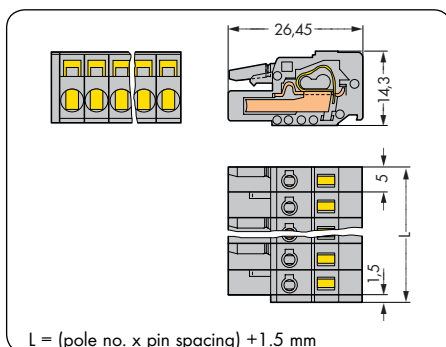
① Approvals

CAGE CLAMP®

CAGE CLAMP®S



Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit
Female connector with CAGE CLAMP®, with coding fingers, with two latches, gray							Female connector with CAGE CLAMP®, with coding fingers, with two latches, orange							Female connector with CAGE CLAMP®S and integrated push-buttons, with coding fingers, with two latches						
Pin spacing 5 mm with locking levers							Pin spacing 5.08 mm with locking levers							Pin spacing 5 mm gray			Pin spacing 5.08 mm orange			
2**	231-102/026-000	100		231-102/037-000	100		2**	231-302/026-000	100		231-302/037-000	100		2**	2231-102/026-000			2231-302/026-000	100	
3**	231-103/026-000	100		231-103/037-000	50		3**	231-303/026-000	100		231-303/037-000	50		3**	2231-103/026-000			2231-303/026-000	100	
4	231-104/026-000	100		231-104/037-000	50		4	231-304/026-000	100		231-304/037-000	50		4	2231-104/026-000			2231-304/026-000	100	
5	231-105/026-000	100		231-105/037-000	50		5	231-305/026-000	100		231-305/037-000	50		5	2231-105/026-000			2231-305/026-000	100	
:	:			:			:	:			:			:	:			:		
12	231-112/026-000	25		231-112/037-000	25		12	231-312/026-000	25		231-312/037-000	25		12	2231-112/026-000			2231-312/026-000	50	
:	:			:			:	:			:			:	:			:		
21	231-121/026-000	10		231-121/037-000	10		21	231-321/026-000	10		231-321/037-000	10		21	2231-121/026-000			2231-321/026-000	10	
22	231-122/026-000	10		231-122/037-000	10		22	231-322/026-000	10		231-322/037-000	10		22	2231-122/026-000			2231-322/026-000	10	
23	231-123/026-000	10		231-123/037-000	10		23	231-323/026-000	10		231-323/037-000	10		23	2231-123/026-000			2231-323/026-000	10	
24	231-124/026-000	10		231-124/037-000	10		24	231-324/026-000	10		231-324/037-000	10		24	2231-124/026-000			2231-324/026-000	10	
Pin spacing 7.5 mm (pole no. - 1) + 5 mm with locking levers							Pin spacing 7.62 mm (pole no. - 1) + 5.08 mm with locking levers							Pin spacing 7.5 mm gray			Pin Spacing 7.62 mm orange			
2**	231-202/026-000	100		231-202/037-000	50		2**	231-702/026-000	100		231-702/037-000	50		2**	2231-202/026-000			2231-702/026-000	100	
3**	231-203/026-000	100		231-203/037-000	50		3**	231-703/026-000	100		231-703/037-000	50		3**	2231-203/026-000			2231-703/026-000	100	
4	231-204/026-000	50		231-204/037-000	50		4	231-704/026-000	50		231-704/037-000	50		4	2231-204/026-000			2231-704/026-000	50	
5	231-205/026-000	50		231-205/037-000	50		5	231-705/026-000	50		231-705/037-000	50		5	2231-205/026-000			2231-705/026-000	50	
6	231-206/026-000	50		231-206/037-000	25		6	231-706/026-000	50		231-706/037-000	25		6	2231-206/026-000			2231-706/026-000	50	
7	231-207/026-000	50		231-207/037-000	25		7	231-707/026-000	50		231-707/037-000	25		7	2231-207/026-000			2231-707/026-000	50	
8	231-208/026-000	25		231-208/037-000	25		8	231-708/026-000	25		231-708/037-000	25		8	2231-208/026-000			2231-708/026-000	25	
9	231-209/026-000	25		231-209/037-000	25		9	231-709/026-000	25		231-709/037-000	25		:	:			:		
10	231-210/026-000	25		231-210/037-000	25		10	231-710/026-000	25		231-710/037-000	25		12	2231-212/026-000			2231-712/026-000	25	
11	231-211/026-000	25		231-211/037-000	10		11	231-711/026-000	10		231-711/037-000	10		13	2231-213/026-000				10	
12	231-212/026-000	25		231-212/037-000	10		12	231-712/026-000	10		231-712/037-000	10		16	2231-216/026-000				10	
13	231-213/026-000	10		231-213/037-000	10															
16	231-216/026-000	10		231-216/037-000	10															
** one latch only							** one latch only							** one latch only						
Dimensions																				



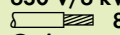
MULTI CONNECTION SYSTEM MIDI Classic

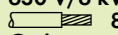
Female Connectors with Snap-In Mounting Feet

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

CAGE CLAMP®

2
111

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 
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

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 
Pin spacing 7.62 mm/0.3 in, orange
630 V/6 kV/3 | 300 V, 15 A 
 8 - 9 mm / 0.33 in
① Approvals

Accessories



2

Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Accessories, 231 and 2231 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							1 - 12 (300x) 210-331/500-103	
with fixing flanges							with fixing flanges							13 - 24 (300x) 210-331/500-104	
with snap-in mounting feet							with snap-in mounting feet							Pin spacing 5.08 mm	
2**	231-102/031-000	100		231-102/008-000	100		2**	231-302/031-000	100		231-302/008-000	100		1 - 12 (200x) 210-331/508-103	
3**	231-103/031-000	50		231-103/008-000	100		3**	231-303/031-000	50		231-303/008-000	100		13 - 24 (200x) 210-331/508-104	
4	231-104/031-000	50		231-104/008-000	100		4	231-304/031-000	50		231-304/008-000	100		Pin spacing 7.5 mm	
5	231-105/031-000	50		231-105/008-000	100		5	231-305/031-000	50		231-305/008-000	100		1 - 16 (100x) 210-331/750-202	
:	:	:	:	:	:	:	:	:	:	:	:	:	:	Pin Spacing 7.62 mm	
12	231-112/031-000	25		231-112/008-000	25		12	231-312/031-000	25		231-312/008-000	25		1 - 16 (100x) 210-331/762-202	
:	:	:	:	:	:	:	:	:	:	:	:	:	:	Insulation stop, 5 pcs/strip,	
22	231-122/031-000	10		231-122/008-000	10		22	231-322/031-000	10		231-322/008-000	10		5 mm and 5.08 mm pin spacing	
23	231-123/031-000	10		231-123/008-000	10		23	231-323/031-000	10		231-323/008-000	10		0.08 - 0.2mm ² ②	
24	231-124/031-000	10		231-124/008-000	10		24	231-324/031-000	10		231-324/008-000	10		white 231-670 200	
Pin spacing 7.5 mm (pole no. - 1) + 5 mm							Pin spacing 7.62 mm (pole no. - 1) + 5.08 mm							0.25 - 0.5 mm ²	
with fixing flanges							with fixing flanges							light gray 231-671 200	
with snap-in mounting feet							with snap-in mounting feet							0.75 - 1mm ²	
2**	231-203/031-000	50		231-203/008-000	100		2**	231-702/031-000	50		231-702/008-000	100		dark gray 231-672 200	
3**	231-204/031-000	50		231-204/008-000	50		3**	231-703/031-000	50		231-703/008-000	100		7.5 mm and 7.62 mm pin spacing	
4	231-205/031-000	50		231-205/008-000	50		4	231-704/031-000	50		231-704/008-000	50		0.08 - 0.2mm ² ②	
5	231-206/031-000	25		231-206/008-000	50		5	231-705/031-000	25		231-705/008-000	50		white 231-673 200	
6	231-207/031-000	25		231-207/008-000	50		6	231-706/031-000	25		231-706/008-000	50		0.25 - 0.5 mm ²	
7	231-208/031-000	25		231-208/008-000	25		7	231-707/031-000	25		231-707/008-000	50		light gray 231-674 200	
8	231-209/031-000	25		231-209/008-000	25		8	231-708/031-000	25		231-708/008-000	25		0.75 - 1mm ²	
:	:	:	:	:	:	:	:	:	:	:	:	:	:	dark gray 231-675 200	
16	231-216/031-000	10		231-216/008-000	10		12	231-712/031-000	10		231-712/008-000	25		② 0.2 mm ² "sol." (0.14 mm ² "f-st")	
** one latch only							** one latch only							Test plug, with 500 mm cable,	
Dimensions							Dimensions							2 mm Ø, red 210-136 50	
$L_1 = (\text{pole no.} \times \text{pin spacing}) + 3 \text{ mm}$							$L_1 = (\text{pole no.} \times \text{pin spacing}) + 3 \text{ mm}$							2.3 mm Ø, yellow 210-137 50	
$L_2 = (\text{pole no.} \times \text{pin spacing}) + 8.8 \text{ mm}$							$L_2 = (\text{pole no.} \times \text{pin spacing}) + 8.8 \text{ mm}$							Mounting adapter, for DIN 35 rail,	
$L_3 = (\text{pole no.} \times \text{pin spacing}) + 14.8 \text{ mm}$							$L_3 = (\text{pole no.} \times \text{pin spacing}) + 14.8 \text{ mm}$							3 or more poles	

Mounting adapter, for DIN 35 rail,

3 or more poles

gray **209-137** 1

Tapping screw,

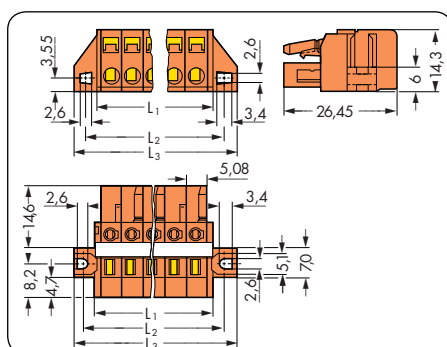
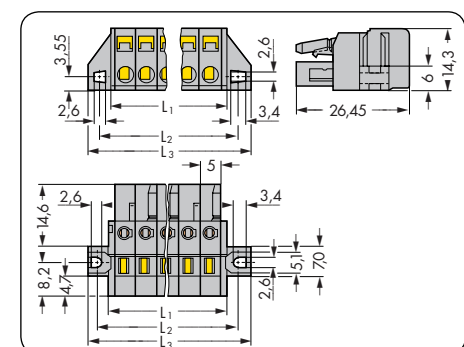
for 1.8 mm Ø mounting hole

B 2.2 x 9.5 **209-147** 100

Operating tool with partially insulated shaft,

type 2, (3.5x0.5) mm blade

210-720 1



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

CAGE CLAMP®

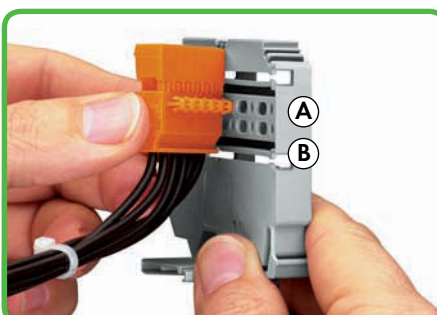
Pin spacing 5 mm/0.197 in, gray
0.08 - 2.5 mm² | AWG 28 - 12*
320 V/4 kV/3, 12 A | 300 V, 15 A 
Pin spacing 7.5 mm/0.295 in, gray
630 V/6 kV/3 | 300 V, 15 A 
 8 - 9 mm / 0.33 in
① Approvals

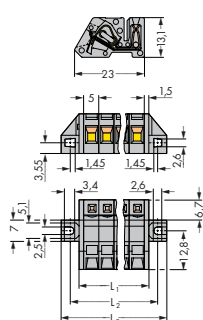
Multi mounting adapter
for male and female connectors
with snap-in mounting feet

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 | 12 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 mm² (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	 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.					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						
5	731-505/031-000	50	731-505/008-000	50						
:	:	:	:	:						
12	731-512/031-000	25	731-512/008-000	25						
:	:	:	:	:						
17	731-517/031-000	10	731-517/008-000	25						
18	731-518/031-000	10	731-518/008-000	25						
19	731-519/031-000	10	731-519/008-000	10						
20	731-520/031-000	10	731-520/008-000	10		Operating lever, for male and female connectors with CAGE CLAMP® 231-131 25				
Pin spacing 7.5 mm (pole no. – 1) + 5 mm										Screw with nut, M 2 x 12, for fixing element 231-195 100
with fixing flanges					with snap-in mounting feet					Operating tool with partially insulated shaft, type 2, (3.5x0.5) mm blade 210-720 1
2	731-532/031-000	50	731-532/008-000	100	 The adapter can be marked either with WMB or miniature WSB markers. For marking accessories, see Section 6.					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
3	731-533/031-000	50	731-533/008-000	50						
4	731-534/031-000	50	731-534/008-000	50						
5	731-535/031-000	50	731-535/008-000	50						
6	731-536/031-000	25	731-536/008-000	50						
7	731-537/031-000	25	731-537/008-000	50						
:	:	:	:	:						
10	731-540/031-000	25	731-540/008-000	25						
11	731-541/031-000	10	731-541/008-000	25						
12	731-542/031-000	10	731-542/008-000	10						
13	731-543/031-000	10	731-543/008-000	10						
16	731-546/031-000	10	731-546/008-000	10						
Dimensions (see also page 103)					Testing MULTI CONNECTION SYSTEM MIDI female					



MULTI CONNECTION SYSTEM MINI and MIDI

Strain Relief Plates and Snap-on Type Strain Relief Housings

2

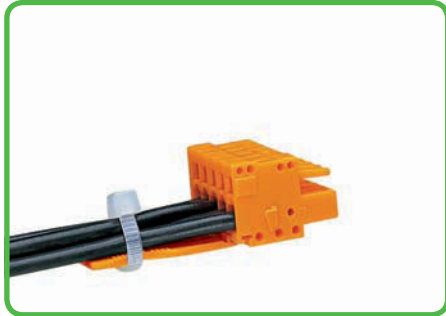
113

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	Width	Item no. suffix	Pole No.	Item No.	Item No.	Pack. Unit
Strain relief plate, pre-assembled, for 734 Series		Strain relief plate, pre-assembled, for 231, 721 and 731 Series		Snap-on type strain relief housing, consists of strain relief support and housing, for 734 Series			
6 mm	.../032-000	11.5 mm	.../032-000	Pin spacing 3.5 mm Pin spacing 3.81 mm			
12.5 mm	.../033-000	20 mm	.../033-000	light gray orange			
25 mm	.../034-000	30 mm	.../034-000	2	734-602 ②	734-632 ②	50
35 mm	.../035-000	50 mm	.../035-000	3	734-603 ②	734-633 ②	25
55 mm	.../036-000			:	:	:	
Ordering example:		Ordering example:		6	734-606	734-636	25
Female connector with strain relief plate, 3.81 mm pin spacing, 5-pole, orange	734-205/033-000	Male connector with strain relief plate, 5 mm pin spacing, 8-pole, light gray,	721-608/034-000	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

Strain relief plate, loose, for 734 Series

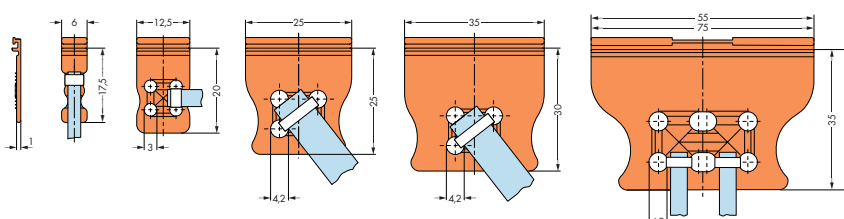
Item No.	Color	Pole No.	Width
734-127	light gray	2 - 4	6 mm
734-227	orange		
734-128	light gray	4 - 8	12.5 mm
734-228	orange		
734-129	light gray	5 - 12	25 mm
734-229	orange		
734-126	light gray	13 - 16	35 mm
734-226	orange		
734-426	light gray	max. 17	55 mm
734-428	orange		

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:

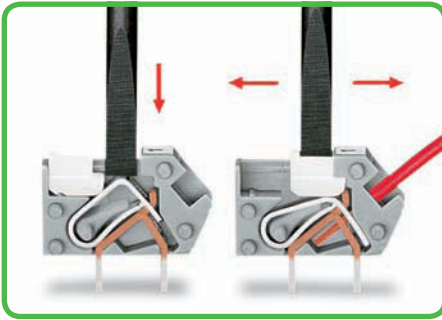


for 231 and 721 Series			
Pin spacing 5 mm Pin spacing 5.08 mm			
2	232-602 ③	232-632 ③	25
3	232-603	232-633	25
:	:	:	
6	232-606	232-636	25
7	232-607	–	25
8	232-608	232-638	25
9	232-609	232-639	25
10	232-610	232-640	25
12	232-612	232-642	25
for 231, 721 and 731 Series			
Pin spacing 7.5 mm Pin Spacing 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			
	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			
	7 or more poles	5 + 5,08	25
	5 or more poles	7,5 + 7,62	
Fixing screws, for cable clamp			
	for pole no.	Spacing in mm	
	4- to 6-pole	5 + 5,08	
	3-pole	7,5 + 7,62	
Fixing screws, for cable clamp			
	6- to 12-pole	3,5 + 3,81	50
Fixing screws, for cable clamp			
	7 or more poles	5 + 5,08	
	5 or more poles	7,5 + 7,62	

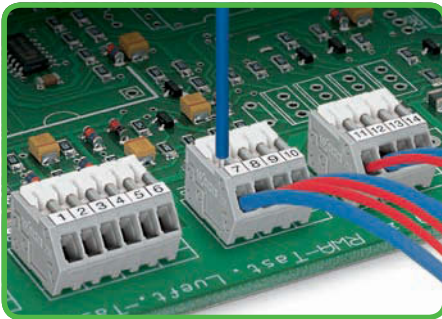
② 2 to 5 poles only suitable for cable ties (734 Series), ③ 2 to 3 poles only suitable for cable ties (231, 721 and 731 Series)

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

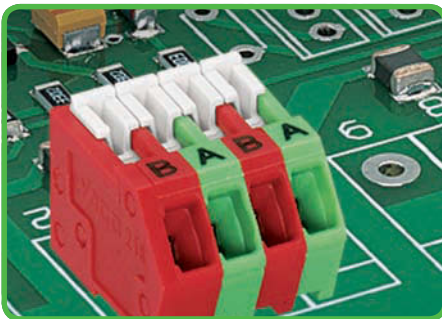
218 Series



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



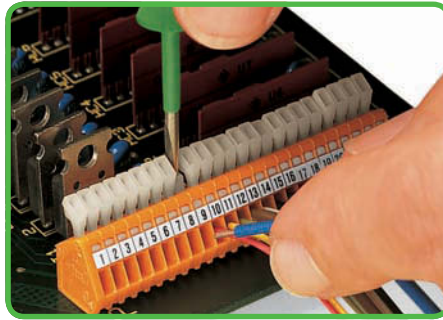
tip-bonded



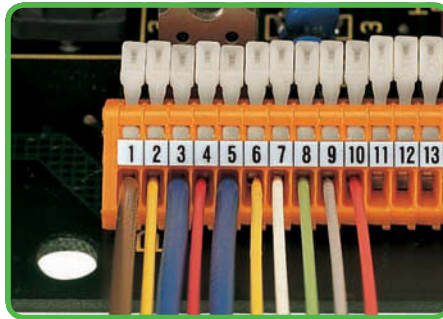
with ferrule

Strip length, see packaging or instructions.

233 Series



Inserting/removing conductor.

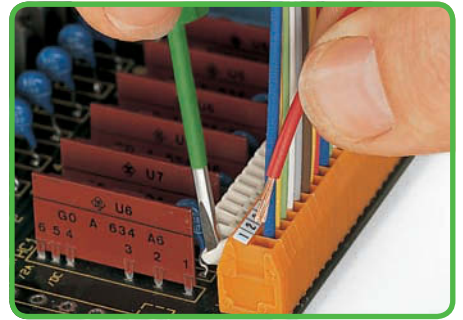


Nominal cross-section 0.5 mm²/AWG 20;
0.75 mm²/AWG 18 only in every other position.

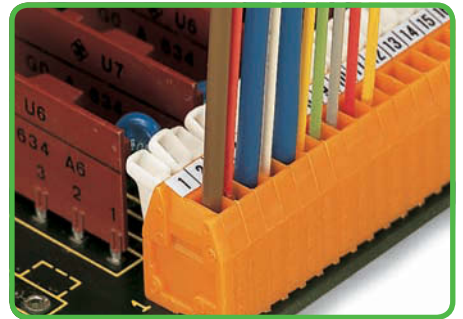


Marking via self-adhesive marking strips (see figure) or
factory direct printing.

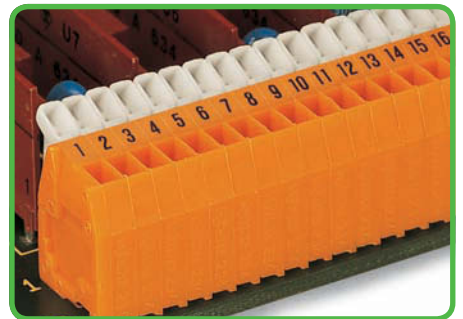
234 Series



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

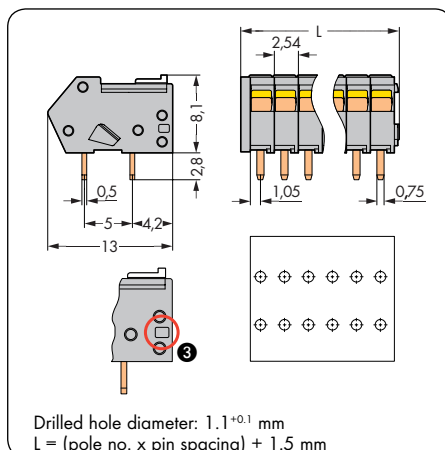
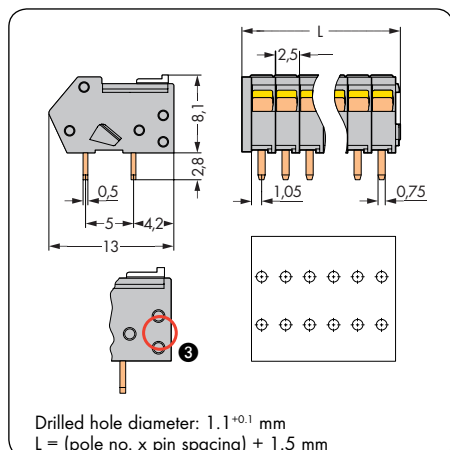
Pin spacing 2.5 mm / 0.098 in 0.08 - 0.5 mm² ① AWG 28 - 20 ① 160 V/2.5 kV/2 150 V, 4 A I_N 6 A  5 - 6 mm / 0.22 in ② Approvals	Pin spacing 2.54 mm / 0.1 in 0.08 - 0.5 mm² ① AWG 28 - 20 ① 160 V/2.5 kV/2 150 V, 4 A I_N 6 A  5 - 6 mm / 0.22 in ② Approvals	Accessories
---	--	--------------------



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,  100 self-adhesive strips per card	
2	218-102	1000 (10x100)	2	218-502	1000 (10x100)		
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 ● red .../000-005 ● blue .../000-006 ● orange .../000-012 ● green .../000-023 Locking slides, white			Ordering example: Terminal strip, 2.5 mm pin spacing, 8-pole, orange 2 solder pins in line 218-108/000-012			Test pin, 1 mm Ø,  with solder connection for test cable 735-500 1	
						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.

WAGO®

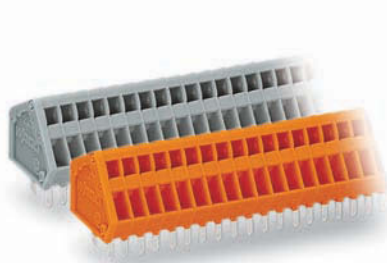
PCB Terminal Strips 0.5 mm² Pin Spacing 2.5 mm and 2.54 mm 233 and 234 Series

CAGE CLAMP®

Pin spacing 2.5 mm / 0.098 in
Pin spacing 2.54 mm / 0.1 in
0.08 - 0.5 mm² ② | AWG 28 - 20 ②
250 V/2.5 kV/2 | 150 V, 4 A ② 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 mm² ② | AWG 28 - 20 ②
160 V/2.5 kV/2 | 150 V, 4 A ② 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 mm² ② | AWG 28 - 20 ②
160 V/2.5 kV/2 | 150 V, 4 A ② ③
I_N 6 A
5 - 6 mm / 0.22 in
① Approvals

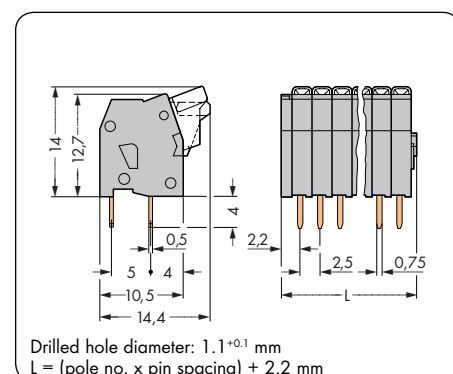
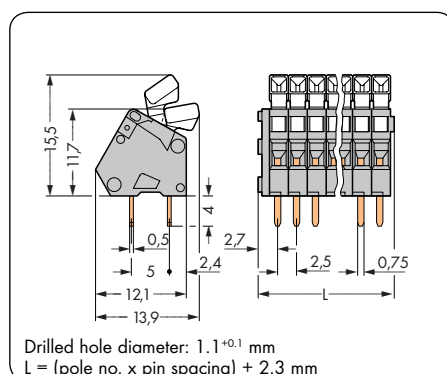
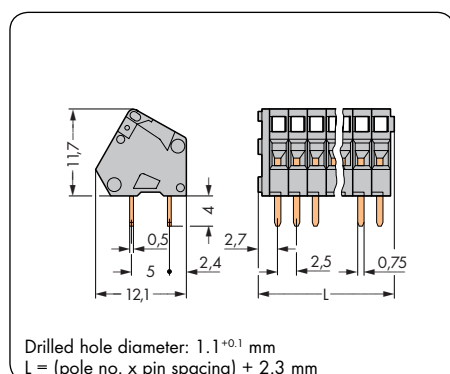


Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit	Pole No.	Item No.	Item No.	Pack. Unit
Terminal strip without push-buttons, standard lengths, other lengths upon request, 2 solder pins/pole				Terminal strip with push-buttons, standard lengths, other lengths upon request, 2 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				Operating tool, for professional wiring of terminal strips			
Marking				partially insulated 233-335 1			
1 - 16 (400 x)				insulated 233-332 25			
17 - 32 (400 x)				Operating tool with partially insulated shaft,			
33 - 48 (400 x)				type 1, (2.5 x 0.4)mm blade			
For direct printing, please contact factory.				210-719 1			

Dimensions

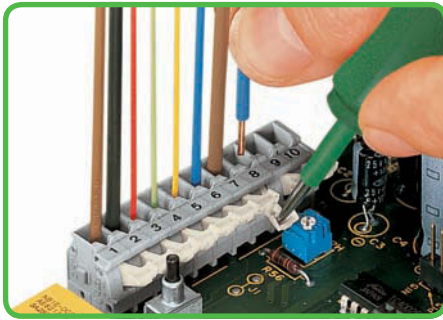


① Approvals are available online at: www.wago.com.
For technical explanations and abbreviations, see technical section.

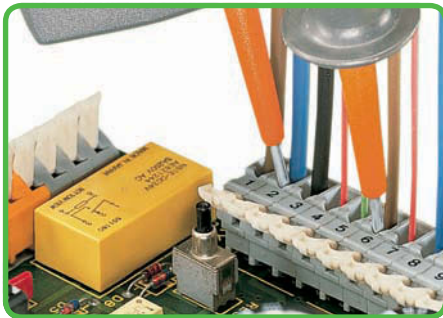
② 0.75 mm²/AWG 18 only in every other position

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

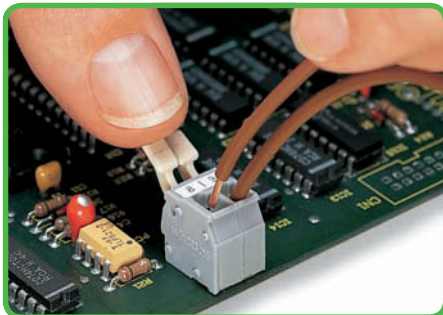
255 Series



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

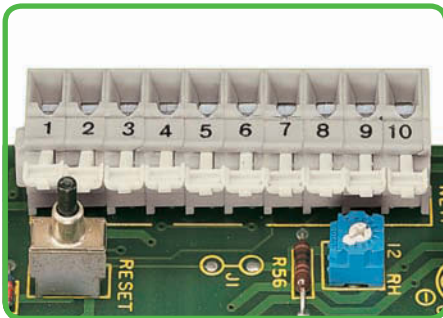


Testing with test probes.



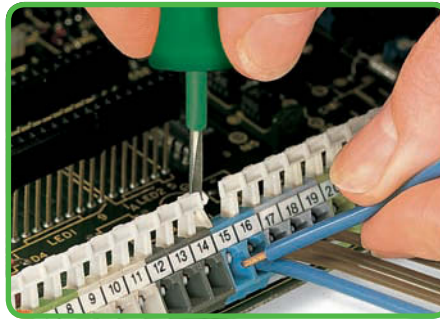
Inserting/removing conductor via finger-operated lever – 255 Series.

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

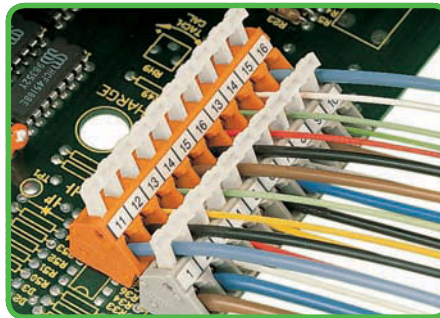


Factory direct printing.

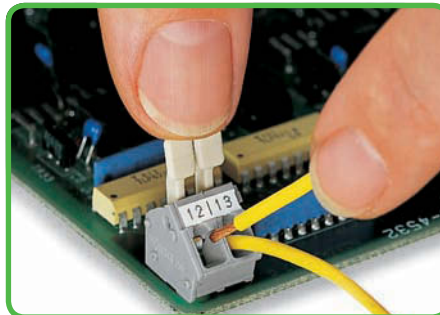
256 Series



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

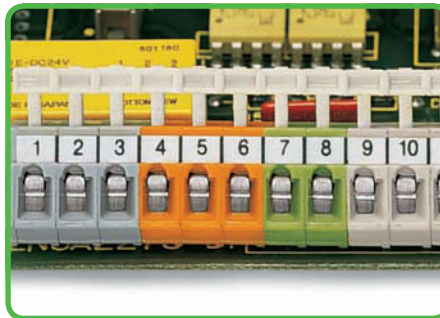


Possible conductor arrangement with terminal strips staggered (for 256 Series only).



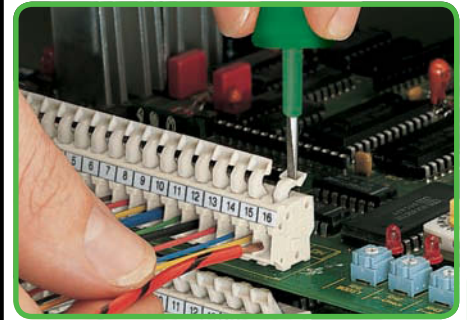
Inserting/removing conductor via finger-operated lever – 256 Series.

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



Marking with self-adhesive marking strips.

257 Series

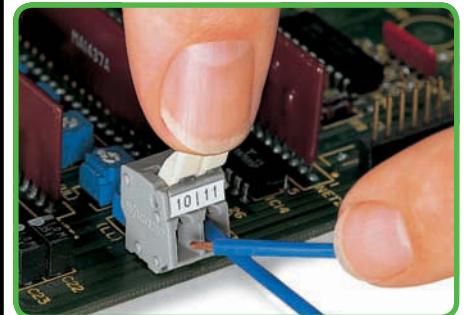


Inserting/removing conductor via push-button – 257 Series.

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

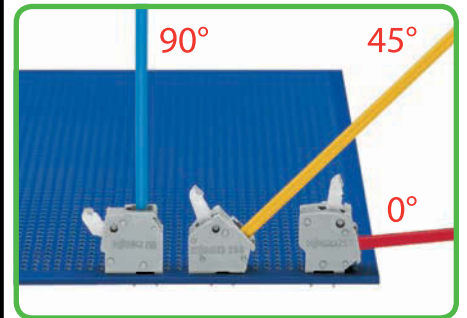


Testing with test plug adapter.



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

Strip length, see packaging or instructions.



stranded



fine-stranded



tip-bonded



with ferrule



with pin terminal

WAGO®

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 255 and 256 Series

Pin spacing 5/5.08 mm / 0.2 in
0.08 - 2.5 mm² | 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

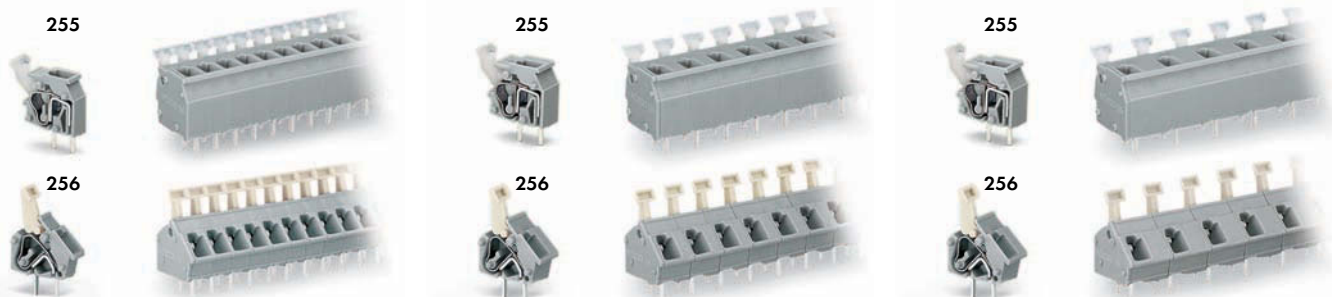
① Approvals

Pin spacing 7.5/7.62 mm / 0.3 in
0.08 - 2.5 mm² | 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

① Approvals

Pin spacing 10/10.16 mm / 0.4 in
0.08 - 2.5 mm² | 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

① Approvals



Color Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Color Pole No.	Item No.	Pack.	Unit	Item No.	Pack.	Unit	Color Pole No.	Item No.	Pack.	Unit	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	255-401	500		256-401	600		gray	255-501	400		256-501	400		gray	255-601	300		256-601	300	
red	255-740	500		256-740	600		red	255-750	400		256-750	400		red	255-760	300		256-760	300	
dark gray	255-742	500		256-742	600		dark gray	255-752	400		256-752	400		dark gray	255-762	300		256-762	300	
light gray	255-743	500		256-743	600		light gray	255-753	400		256-753	400		light gray	255-763	300		256-763	300	
blue	255-744	500		256-744	600		blue	255-754	400		256-754	400		blue	255-764	300		256-764	300	
orange	255-746	500		256-746	600		orange	255-756	400		256-756	400		orange	255-766	300		256-766	300	
light green	255-747	500		256-747	600		light green	255-757	400		256-757	400		light green	255-767	300		256-767	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	255-402	400		256-402	400		2	255-502	280		256-502	280		2	255-602	200		256-602	200	
3	255-403	280		256-403	280		3	255-503	180		256-503	180		3	255-603	140		256-603	140	
4	255-404	200		256-404	200		4	255-504	140		256-504	140		4	255-604	100		256-604	100	
:	:	:		:	:		:	:	:		:	:		:	:	:		:	:	
9	255-409	100		256-409	100		7	255-507	80		256-507	80		7	255-607	60		256-607	60	
10	255-410	80		256-410	80		8	255-508	60		256-508	60		8	255-608	60		256-608	60	
12	255-412	60		256-412	60		9	255-509	60		256-509	60		9	255-609	40		256-609	40	
16	255-416	60		256-416	60		10	255-510	60		256-510	60		10	255-610	40		256-610	40	
24	255-424	40		256-424	40		12	255-512	40		256-512	40		12	255-612	40		256-612	40	
36	255-436	20		256-436	20		16	255-516	40		256-516	40		16	255-616	20		256-616	20	
48	255-448	20		256-448	20		24	255-524	20		256-524	20		24	255-624	20		256-624	20	

Accessories, 255 and 256 Series

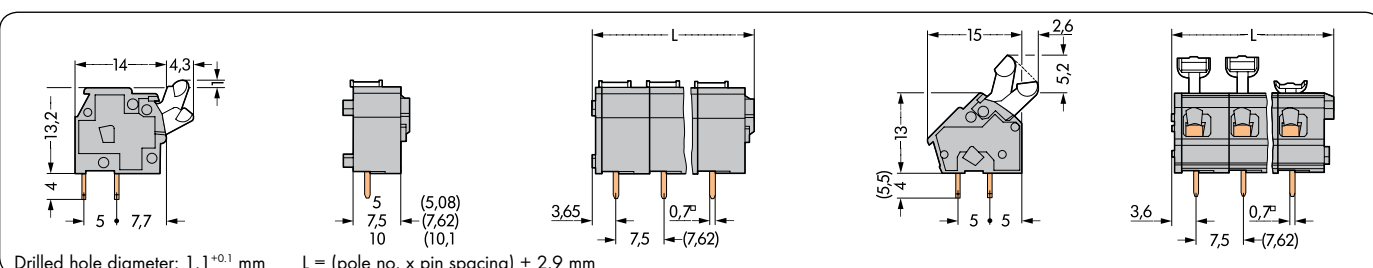
(Marking strips, see Section 6)

**Item no. suffix for colored terminal strips, see page 119

Spacer, 5/5.08 mm thick, doubles pin spacing gray 255-801 100			Spacer, 7.5/7.62 mm thick, doubles pin spacing gray 255-811 100			Spacer, 10/10.16 mm thick, doubles pin spacing gray 255-821 100		
End plates, snap-on type, 1 mm thick 255 Series gray 255-100 100 dark gray 255-200 100 light gray 255-300 100 blue 255-400 100 red 255-500 100 orange 255-600 100 light green 255-700 100			End plates, snap-on type, 1 mm thick 256 Series gray 256-100 100 dark gray 256-200 100 light gray 256-300 100 blue 256-400 100 red 256-500 100 orange 256-600 100 light green 256-700 100			End plates, snap-on type, 1 mm thick 256 Series gray 256-100 100 dark gray 256-200 100 light gray 256-300 100 blue 256-400 100 red 256-500 100 orange 256-600 100 light green 256-700 100		

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

Terminal blocks for Ex e II applications see Full Line Catalog, Volume 2



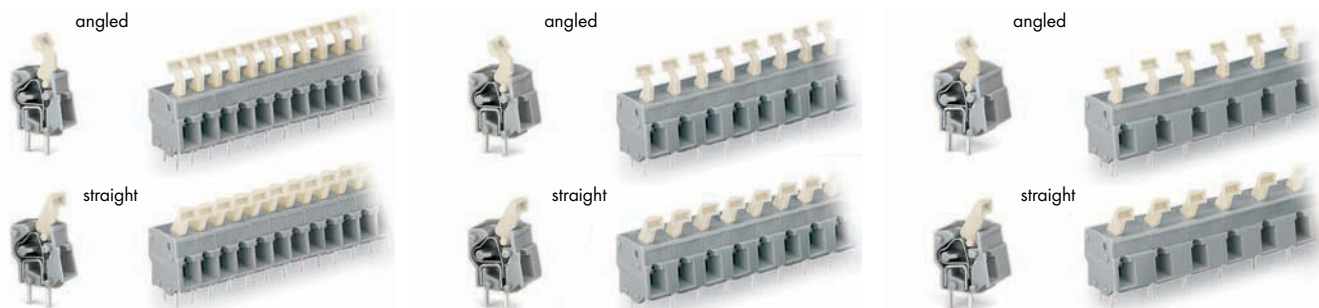
PCB Modular Terminal Blocks and Terminal Strips 2.5 mm² Pin Spacing 5/5.08 mm, 7.5/7.62 mm and 10/10.16 mm 257 Series

CAGE CLAMP®

2

119

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 ① 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 ① 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 ① Approvals
--	--	---



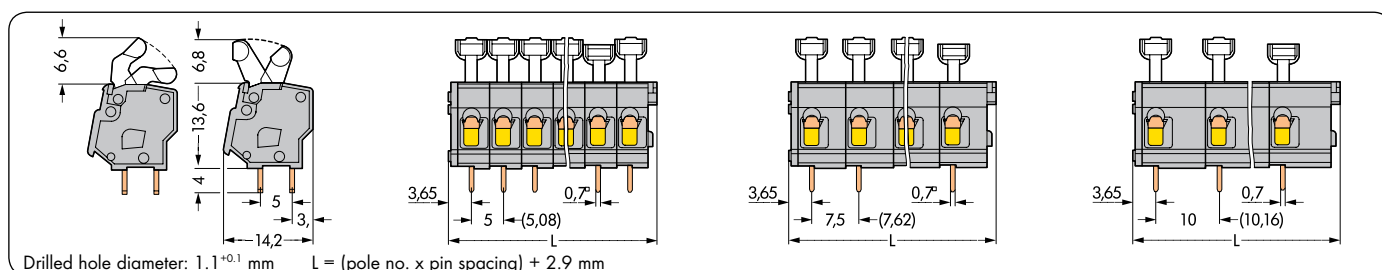
Color Pole No.	Item No.	Item No.	Pack. Unit	Color Pole No.	Item No.	Item No.	Pack. Unit	Color Pole No.	Item No.	Item No.	Pack. Unit
Modular terminal block, 2 solder pins/pole				Modular terminal block, 2 solder pins/pole				Modular terminal block, 2 solder pins/pole			
	Push-button	Push-button			Push-button	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
:	:	:		4	257-554	257-504	140	4	257-654	257-604	100
10	257-460	257-410	80	:	:	:		:	:	:	
12	257-462	257-412	80	9	257-559	257-509	60	9	257-659	257-609	40
16	257-466	257-416	60	10	257-560	257-510	60	10	257-660	257-610	40
24	257-474	257-424	40	12	257-562	257-512	40	12	257-662	257-612	40
36	257-486	257-436	20	16	257-566	257-516	40	16	257-666	257-616	20
48	257-498	257-448	20	24	257-574	257-524	20	24	257-674	257-624	20

Accessories, 257 Series

(Marking strips, see Section 6)

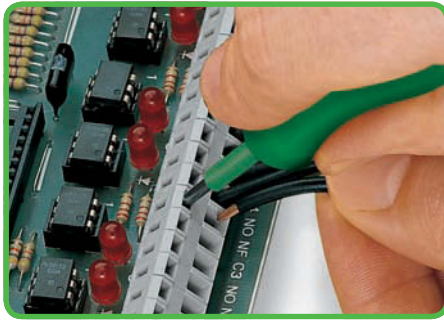
Spacer, 5/5.08 mm thick, doubles pin spacing gray 257-801 100	Spacer, 7.5/7.62 mm thick, doubles pin spacing gray 257-811 100	Spacer, 10/10.16 mm thick, doubles pin spacing gray 257-821 100
End plates, snap-on type, 1 mm thick 257 Series gray 257-100 100 dark gray 257-200 100 light gray 257-300 100 blue 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 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).

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

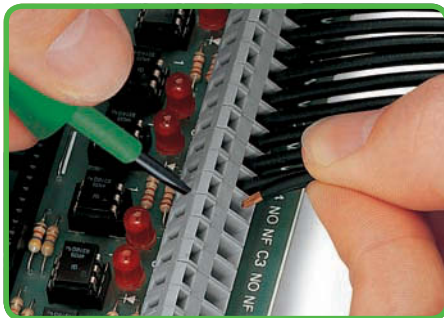


PCB Terminal Strips, Description and Handling 236, 736, 737, 738, 742 and 745 Series

236 Series



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

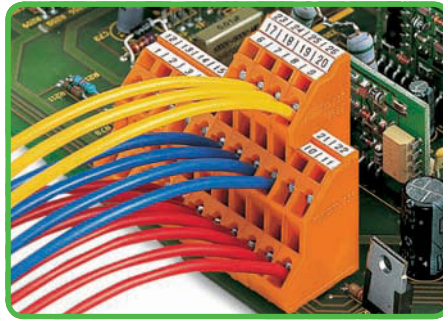


Inserting conductor via 3.5 mm screwdriver.
Screwdriver actuation perpendicular to conductor entry.

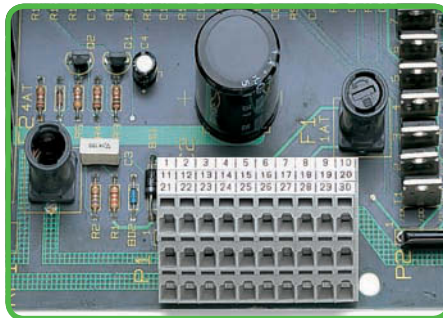


Mixed-color terminal strips with factory direct printing.

736, 737 and 738 Series



Combining double- and triple-deck terminal strips.

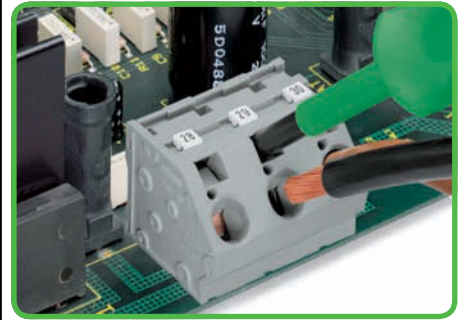


Space-saving triple-deck terminal strip.



Wiring 4-conductor sensors.

745 Series

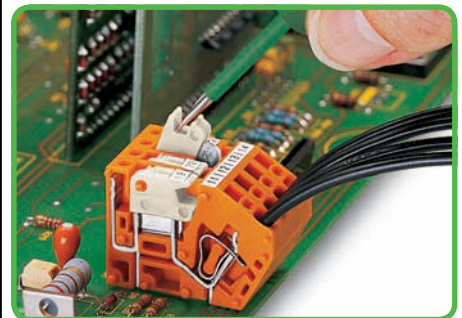


Inserting conductor via 5.5 mm screwdriver.



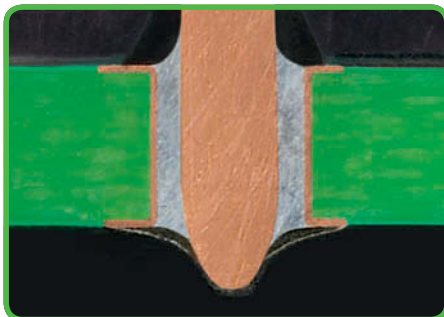
For terminal strips in other colors, please contact factory.

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®

2
121

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



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			1 solder pin / pole, rear ③			1 solder pin / pole, rear ③		
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			1 solder pin / pole, rear ③			1 solder pin / pole, rear ③		
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

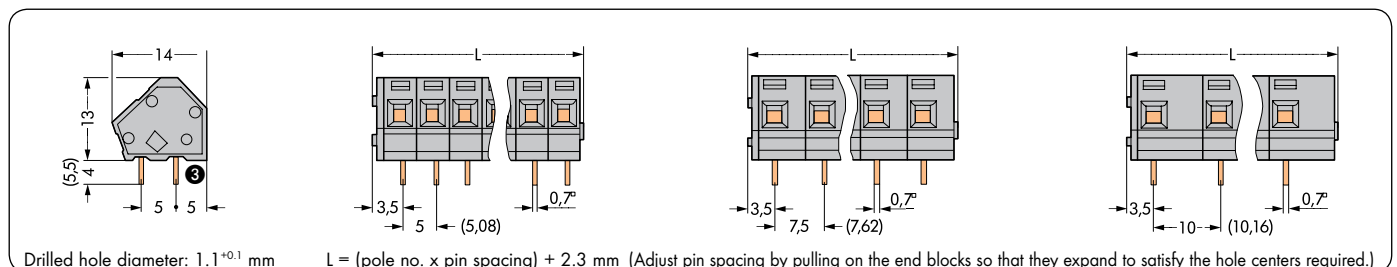
(Marking strips, see Section 6)

	Operating tool ④, plastic 236-332 1 metal 236-335 1		Item no. suffix for terminal strips in: ● black ... / ...-004 ② blue ... / ...-006 ● dark gray ... / ...-008 ○ light gray ... / ...-009 ● orange ... / ...-012 ● light green ... / ...-017 ● green ... / ...-023
	End plates, snap-on type, 1 mm thick gray 236-100 100 dark gray 236-200 100 light gray 236-300 100 blue 236-400 100 green 236-500 100 orange 236-600 100 light green 236-700 100 black 236-850 100		

Terminal blocks for Ex e II applications
see Full Line Catalog, Volume 2

② 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)

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.

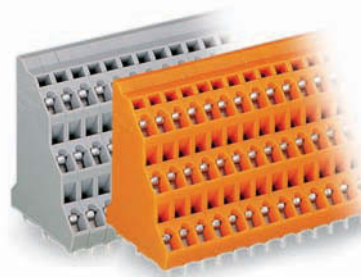
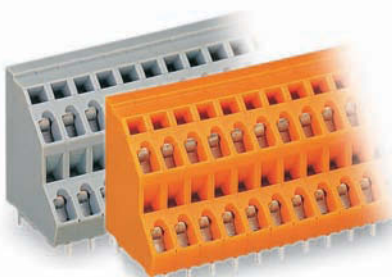
WAGO

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 mm² | AWG 28 - 12*
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
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 mm² | AWG 28 - 12*
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
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 mm² | AWG 28 - 12*
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
5 - 6 mm / 0.22 in
② 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
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	736-102	736-302	161	2 x 2	736-202	736-402	161	2 x 3	737-102	737-302	92
3 x 2	736-103	736-303	112	3 x 2	736-203	736-403	112	3 x 3	737-103	737-303	64
4 x 2	736-104	736-304	84	4 x 2	736-204	736-404	84	4 x 3	737-104	737-304	48
6 x 2	736-106	736-306	56	6 x 2	736-206	736-406	56	6 x 3	737-106	737-306	32
8 x 2	736-108	736-308	42	8 x 2	736-208	736-408	42	8 x 3	737-108	737-308	24
12 x 2	736-112	736-312	28	12 x 2	736-212	736-412	28	12 x 3	737-112	737-312	16
16 x 2	736-116	736-316	21	16 x 2	736-216	736-416	21	16 x 3	737-116	737-316	12
24 x 2	736-124	736-324	14	24 x 2	736-224	736-424	14	24 x 3	737-124	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

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

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, (2.5x0.4)mm blade
210-719 1

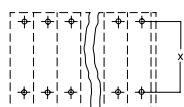
Dimensions

Drilled hole diameter: 1.3^{+0.1}mm

Solder pins
in line

①

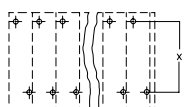
x = Voltage rating
between adjacent poles
320 V/4 kV/3
630 V/4 kV/2



Solder pins staggered
by half the pin spacing

①

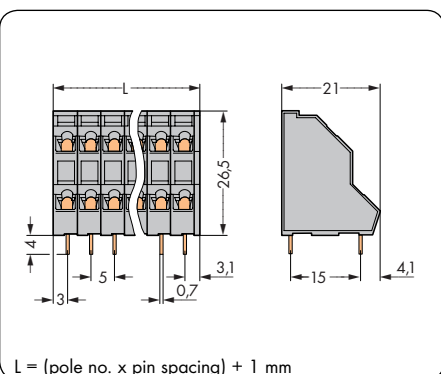
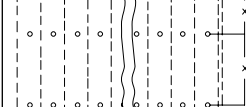
x = Voltage rating
between adjacent poles
320 V/4 kV/3
630 V/4 kV/2



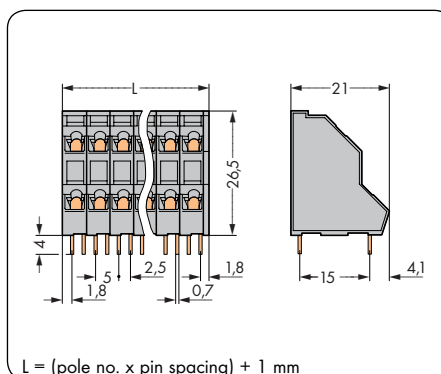
Solder pins
in line

①

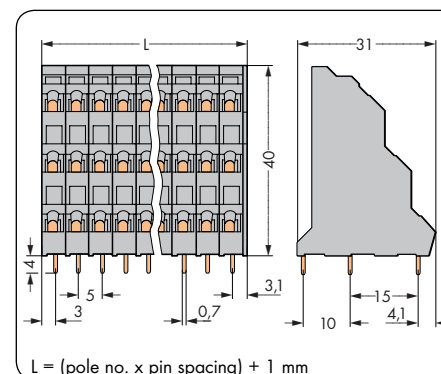
x = Voltage rating
between adjacent poles
320 V/4 kV/3
630 V/4 kV/2



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



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



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

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

CAGE CLAMP®

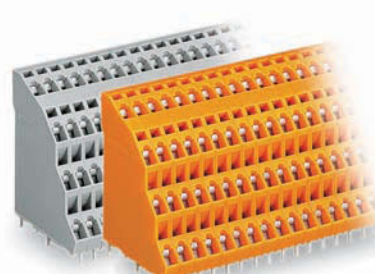
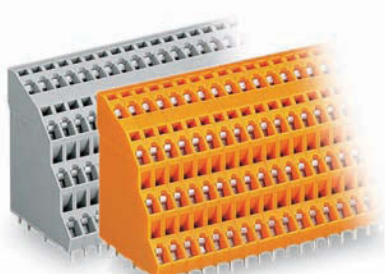
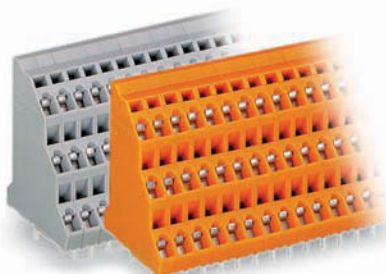
2

123

Pin spacing 5 mm / 0.197 in
Pin spacing 5.08 mm / 0.2 in
0.08 - 2.5 mm² | AWG 28 - 12*
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
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 mm² | AWG 28 - 12*
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
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 mm² | AWG 28 - 12*
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
5 - 6 mm / 0.22 in
② Approvals



2

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

Marker cards, 80 self-adhesive

strips per card

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

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,

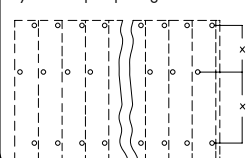
type 1, (2.5x0.4)mm blade
210-719 1

Dimensions

Drilled hole diameter: 1.3^{+0.1}mm

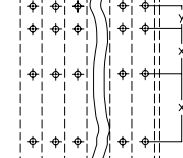
solder pins for deck 2 staggered by half the pin spacing ①

x = Voltage rating
between adjacent poles
320 V/4 kV/3
630 V/4 kV/2



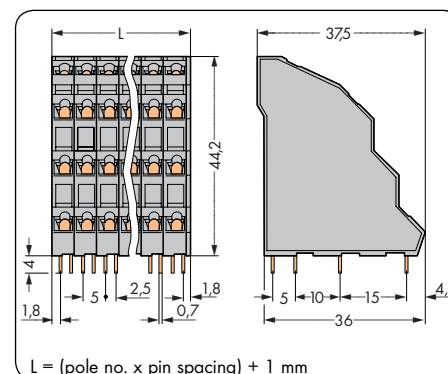
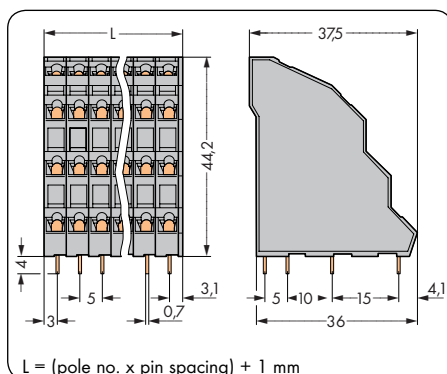
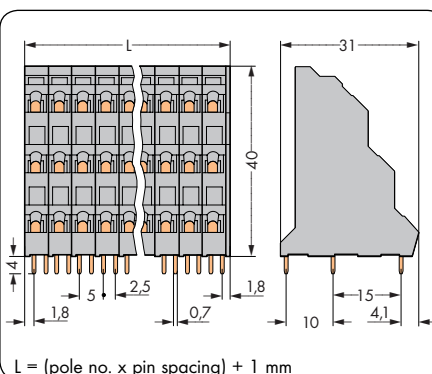
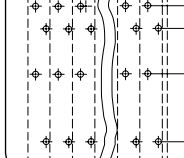
Solder pins
in line

① Voltage rating
between adjacent poles
x 320 V/4 kV/3
630 V/4 kV/2
y 320 V/4 kV/3
630 V/4 kV/2



Solder pins for deck
2 and 4 staggered by
half the pin spacing

① Voltage rating
between adjacent poles
x 320 V/4 kV/3
630 V/4 kV/2
y 320 V/4 kV/3
630 V/4 kV/2



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

WAGO®

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 ² 320 V/4 kV/3 I _N 32 A  8 - 9 mm / 0.33 in Approvals	Pin spacing 7.5 mm / 0.295 in 0.08 - 4 mm ² 500 V/6 kV/3 I _N 32 A  8 - 9 mm / 0.33 in Approvals	Pin spacing 10 mm / 0.394 in 0.08 - 4 mm ² 630 V/8 kV/3 I _N 32 A  8 - 9 mm / 0.33 in Approvals
---	---	--

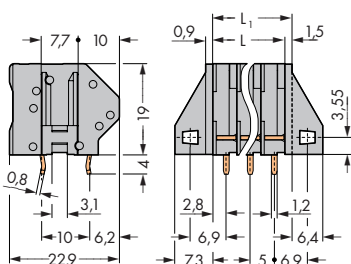
Color	Item No.	Pack.	Unit	Color	Item No.	Pack.	Unit	Color	Item No.	Pack.	Unit
Modular terminal block,				Modular terminal block,				Modular terminal block,			
2 solder pins/pole				2 solder pins/pole				2 solder pins/pole			
	gray	745-801	200		gray	745-811	200		gray	745-821	200
	light gray	745-803	200		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
Pole No.	Item No.	Pack.	Unit	Pole No.	Item No.	Pack.	Unit	Pole No.	Item No.	Pack.	Unit
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

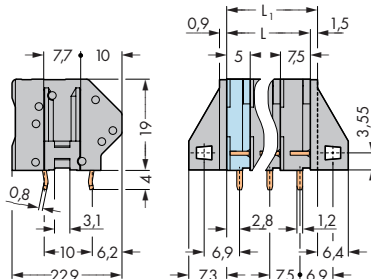
Appropriate marking systems: **WMB/Mini-WSB**

	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 mm Ø, red	210-136	50
	2.3 mm Ø, yellow	210-137	50						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

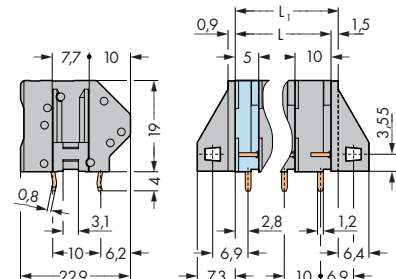
Dimensions



Drilled hole diameter: 1.5^{+0.1} mm
L = (pole no. - 1) x pin spacing + 5 mm
L1 = L + 1.5 mm (without fixing flanges)



Drilled hole diameter: 1.5^{+0.1} mm
L = (pole no. - 1) x pin spacing + 5 mm
L1 = L + 1.5 mm (without fixing flanges)



Drilled hole diameter: 1.5^{+0.1} mm
L = (pole no. - 1) x pin spacing + 5 mm
L1 = L + 1.5 mm (without fixing flanges)

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

CAGE CLAMP®

2
125

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 ① 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 ① Approvals	
---	--	--

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
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



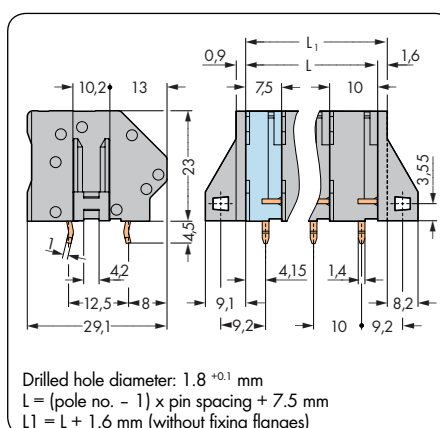
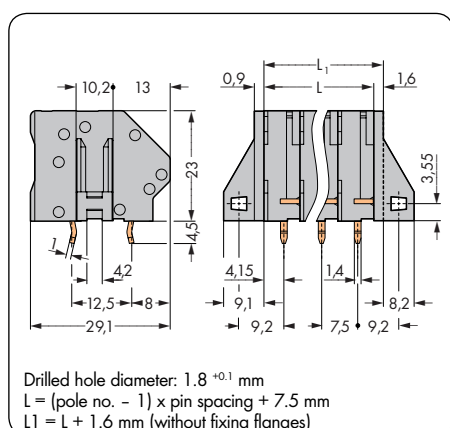
Item no. suffix for terminal strips, end plates in different colors:	
	blue .../...-006
	light gray .../...-009
	green-yellow .../...-016
	light green .../...-017

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	Ordering examples: Terminal strip, 7.5 mm pin spacing, 8-pole, light gray: 745-308/000-009 Terminal strip with fixing flanges, 10 mm pin spacing, 12-pole, blue: 745-362/005-006
	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



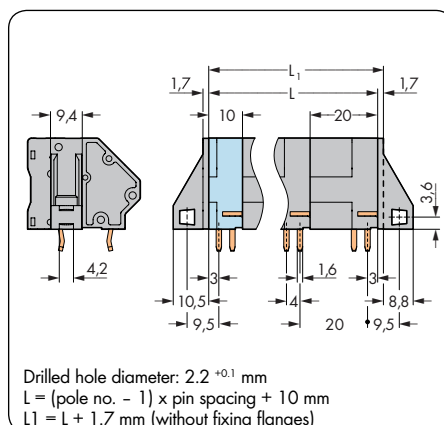
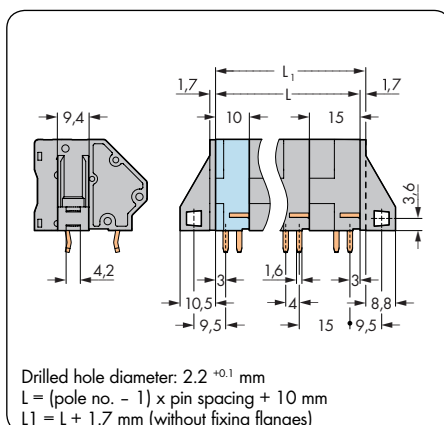
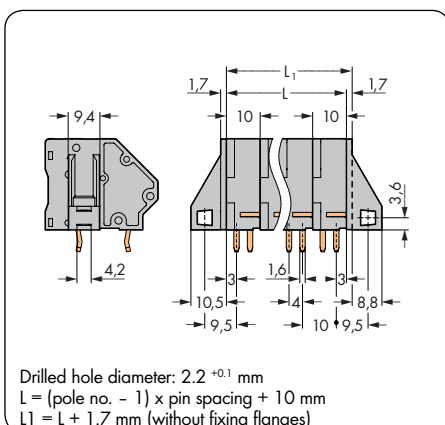
2 PCB Modular Terminal Blocks and Terminal Strips 16 mm² Pin Spacing 10mm, 15 mm and 20 mm 745 Series

126

Pin spacing 10 mm / 0.394 in 0.2 - 16 mm ² 320 V/4 kV/3 I _N 76 A ①  12 - 13 mm / 0.49 in ③ Approvals	Pin spacing 15 mm / 0.591 in 0.2 - 16 mm ² 630 V/8 kV/3 I _N 76 A ①  12 - 13 mm / 0.49 in ③ Approvals	Pin spacing 20 mm / 0.787 in 0.2 - 16 mm ² 1000 V/12 kV/3 I _N 76 A ①  12 - 13 mm / 0.49 in ③ Approvals
--	---	---

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Modular terminal block,  2 solder pins/pole - gray 745-851/006-000 100 - light gray 745-853/006-000 100 - blue 745-854/006-000 100 - green-yellow 745-857/006-000 100 - light green 745-858/006-000 100			Modular terminal block,  2 solder pins/pole - gray 745-871/006-000 100 - light gray 745-873/006-000 100 - blue 745-874/006-000 100 - green-yellow 745-877/006-000 100 - light green 745-878/006-000 100			Modular terminal block,  2 solder pins/pole - gray 745-881/006-000 50 - light gray 745-883/006-000 50 - blue 745-884/006-000 50 - green-yellow 745-887/006-000 50 - light green 745-888/006-000 50		
Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Terminal strip without fixing flanges,  4 solder pins/pole, gray 2 745-502/006-000 48 3 745-503/006-000 32 4 745-504/006-000 24 5 745-505/006-000 20			Terminal strip without fixing flanges,  4 solder pins/pole, gray 2 745-602/006-000 36 3 745-603/006-000 24 4 745-604/006-000 16 5 745-605/006-000 12			Terminal strip without fixing flanges,  4 solder pins/pole, gray 2 745-652/006-000 32 3 745-653/006-000 20 4 745-654/006-000 12 5 745-655/006-000 8		
Accessories, 745 Series			Accessories, 745 Series			Accessories, 745 Series		
End plate, snap-on type, 1.7 mm thick gray 745-500 50			End plate, snap-on type, 1.7 mm thick gray 745-500 50			End plate, snap-on type, 1.7 mm 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		
Dimensions			Dimensions			Dimensions		

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



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

CAGE CLAMP®

2
127

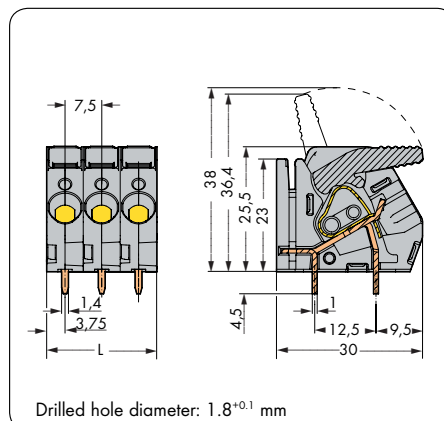
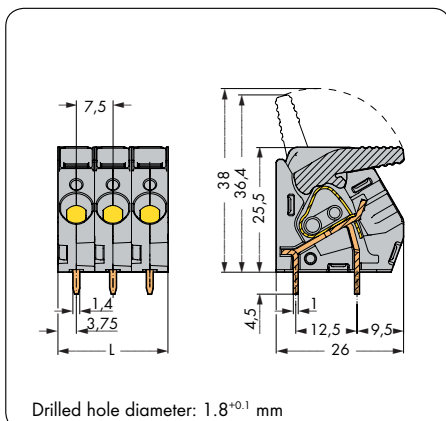
0.5 - 6 mm ² 500 V/6 kV/3, 41 A 800 V/8 kV/3, 41 A 1000 V/8 kV/3, 41 A	AWG 20 - 10	0.5 - 6 mm ² 500 V/6 kV/3, 41 A 630 V/8 kV/3, 41 A	AWG 20 - 10
 11 - 12 mm / 0.45 in		 11 - 12 mm / 0.45 in	
③ Approvals		③ Approvals	



2

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		
● 2	2706-202	70	● 2	2706-252	70	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)
● 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					
● 2	2706-302	65				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
● 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

1.5 - 16 mm²
320 V/4 kV/3, 76 A
800 V/8 kV/3, 76 A

AWG 16 - 6

1.5 - 16 mm²
320 V/4 kV/3, 76 A
800 V/8 kV/3, 76 A

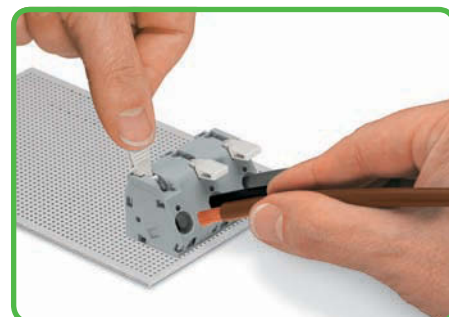
AWG 16 - 6

12 - 13 mm / 0.49 in

1 Approvals

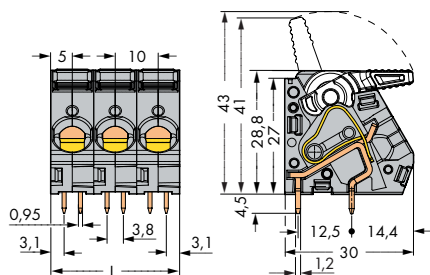
12 - 13 mm / 0.49 in

1 Approvals

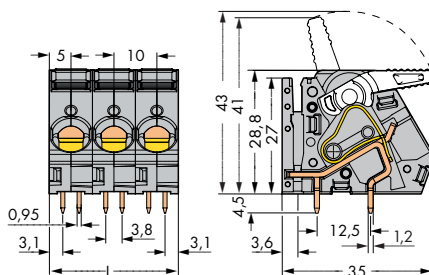


Pole No. Color	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit	Accessories, 2716 Series
Terminal strip with operating levers, gray			Terminal strip with operating levers, with jumper slot, gray			Test plug, with 500 mm cable
Pin Spacing 10 mm L = (pole no. x pin spacing)			Pin Spacing 10 mm L = (pole no. x pin spacing)			2 mm Ø 210-136 red
2	2716-102	65	2	2716-152	52	2.3 mm Ø 210-137 yellow
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	
8	2716-108	15	8	2716-158	12	
Pin Spacing 15 mm L = (pole no. x pin spacing) - 5 mm			Pin Spacing 15 mm L = (pole no. x pin spacing) - 5 mm			Comb-style jumper bar, for 7.5 mm pin spacing
2	2716-202	50	2	2716-252	40	1 to 3 745-682 400 (8x50)
3	2716-203	30	3	2716-253	24	
4	2716-204	20	4	2716-254	16	
5	2716-205	15	5	2716-255	12	
6	2716-206	15	6	2716-256	12	
7	2716-207	10	7	2716-257	8	
8	2716-208	10	8	2716-258	8	
						Comb-style jumper bar, for 10 mm pin spacing
						1 to 3 745-631 200 (4x50)
						2-way 745-632 200 (4x50)
						3-way 745-633 200 (4x50)
						4-way 745-634 200 (4x50)
						5-way 745-635 200 (4x50)
						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

Dimensions



Drilled hole diameter: 1.6^{+0.1} mm



Drilled hole diameter: 1.6^{+0.1} mm

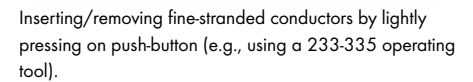
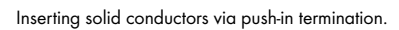


Testing with 2 mm Ø test plug.

CAGE CLAMP® S

129

1 Approvals

[illegible]

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 mm²
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 mm² "s+f-st"
250 V/4 kV/3, 24 A
320 V/4 kV/2, 24 A

10 - 11 mm / 0.41 in

① Approvals

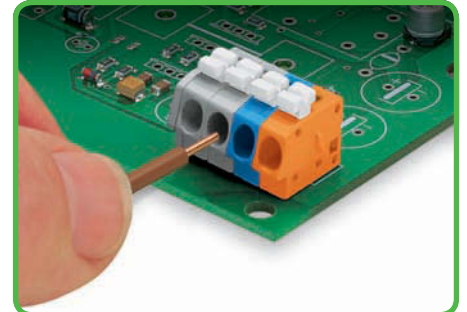
Application notes

Accessories

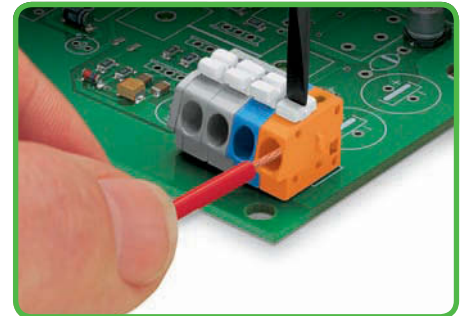
CAGE CLAMP®S



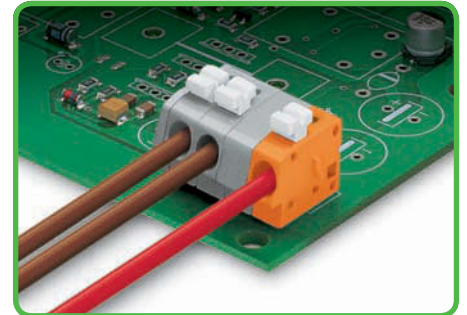
CAGE CLAMP®



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



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

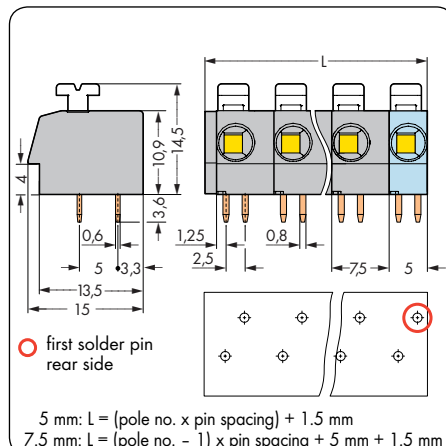
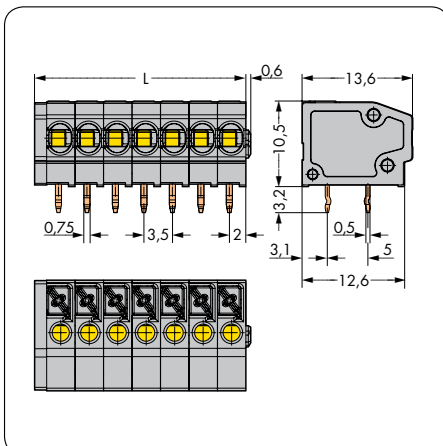


For terminal strips with and without spacers, please contact factory.

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		
2-pole	805-102	600 (4x150)	Pin spacing 5 mm		
3-pole	805-103	420 (4x105)	2	804-102	420 (4x105)
4-pole	805-104	300 (4x75)	3	804-103	280 (4x70)
5-pole	805-105	260 (4x65)	4	804-104	220 (4x55)
:	:		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	
			② Terminal blocks with blue insulation are suitable for Ex i applications (only for pin spacing 7.5 mm and 10 mm).		

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 (300 x) 210-331/0500-0103

13 - 24 (300 x) 210-331/0500-0104

Spacing 7.5 mm

1 - 16 (100 x) 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

CAGE CLAMP®S

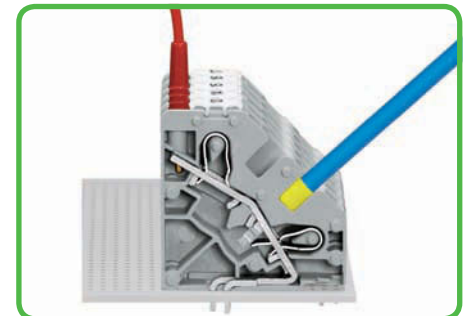
2
131

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 1 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 13 - 15 mm / 0.55 in 1 Approvals	Application notes
---	--	--------------------------

- 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"

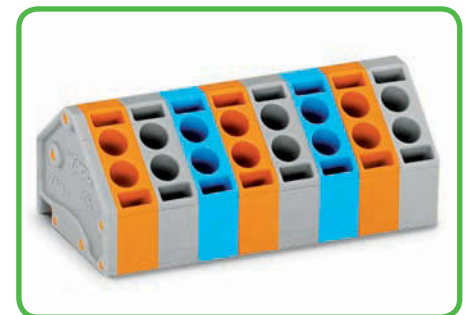


Inserting fine-stranded conductors via 5.5 mm screwdriver.



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

Testing with 2 mm Ø test plug.

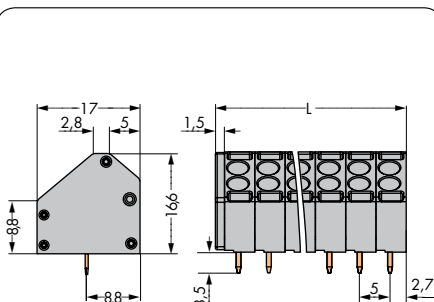


For mixed-color terminal strips, please contact factory.

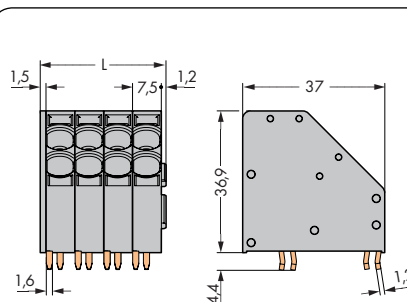
Pole No. Color	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit
Terminal strip with CAGE CLAMP®S, gray			2-conductor terminal strip with CAGE CLAMP®S, 2 staggered solder pins/pole, gray		
2	816-102	400	2	746-2302	60
3	816-103	250	3	746-2303	40
4	816-104	200	4	746-2304	32
5	816-105	175	5	746-2305	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,			Operating tool with partially insulated shaft,		
type 2, (3.5 x 0.5) mm blade			type 3, (5.5 x 0.8) mm blade		
210-720 1			210-721 1		
Marker card, 80 self-adhesive			Test plug, with 500 mm cable,		
strips per card			2 mm Ø, red		
1 - 16 (160 x) 210-332/500-202 1 card			210-136 50		
For direct printing, please contact factory.					

Dimensions

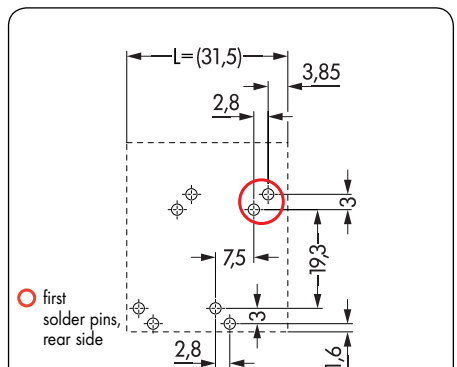
PCB hole pattern, 746 Series



Drilled hole diameter: 1.1 +0.1 mm
 L = (pole no. x pin spacing) + 1.5 mm



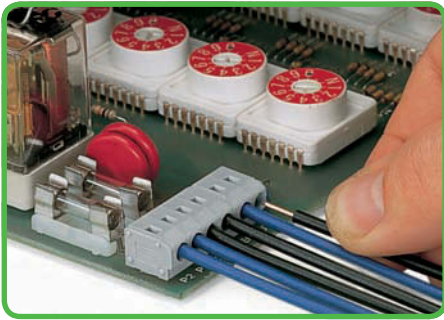
Drilled hole diameter: 2.2 +0.1 mm
 L = (pole no. x pin spacing) + 2.7 mm



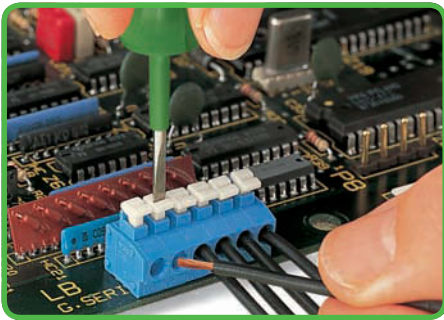
first solder pins, rear side

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

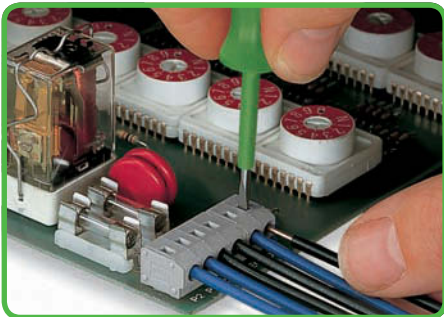
235 Series



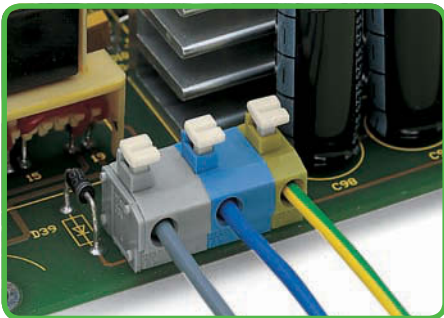
Inserting solid conductor via push-in termination.
Terminal strip without push-buttons.



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

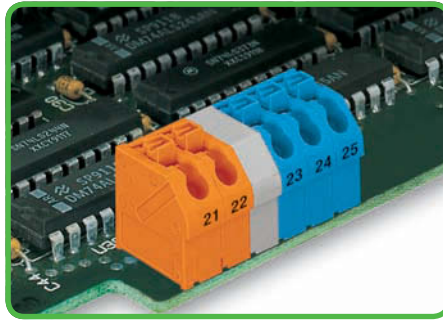


Removing conductor using a screwdriver.
Terminal strip without push-buttons.

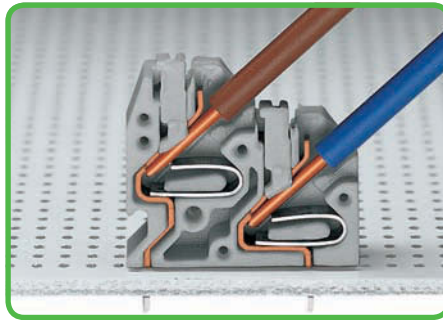


Application example: power supply terminal strip.

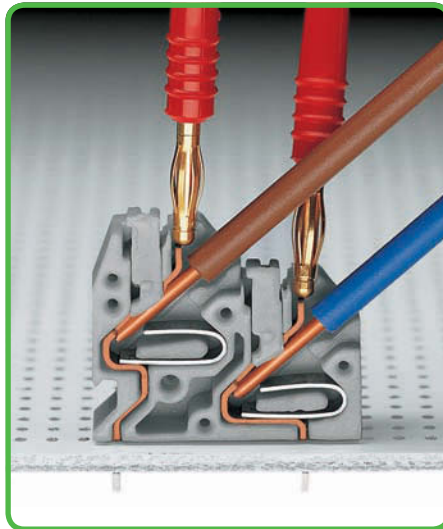
250 Series



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

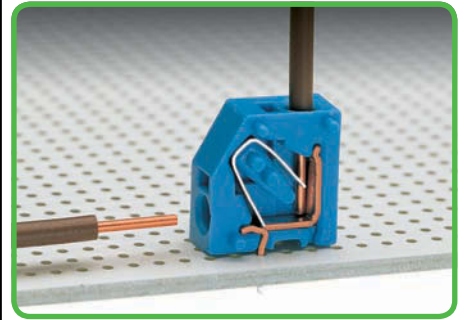


Space-saving wiring.
Push-in termination of solid conductors.

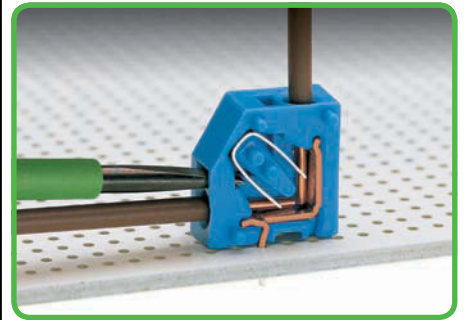


Testing with 2 mm Ø test plug.

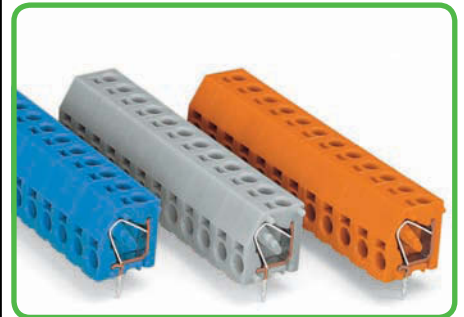
253 Series



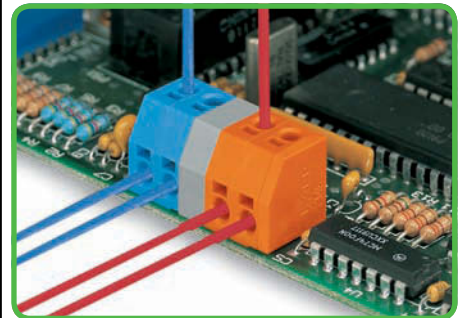
Inserting solid conductor via push-in termination.
Front-entry/side-entry wiring.



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:

Strip length, see packaging or instructions.



solid



① fine-stranded,
see following pages

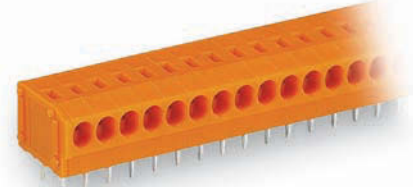
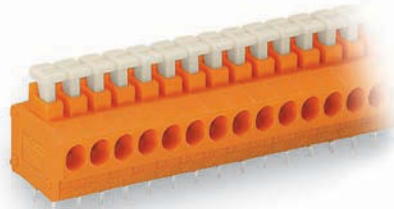
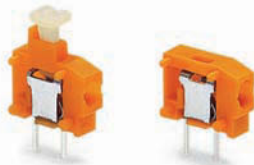
PCB Modular Terminal Blocks and Terminal Strips 1.5 mm² Pin Spacing 3.81 mm 235 Series

PUSH WIRE®

2

133

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 500 V/4 kV/2, 17.5 A 9 - 10 mm / 0.37 in ② Approvals	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 500 V/4 kV/2, 17.5 A 9 - 10 mm / 0.37 in ② Approvals	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 400 V/4 kV/2, 10 A 9 - 10 mm / 0.37 in ② Approvals
---	---	---



2

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.		

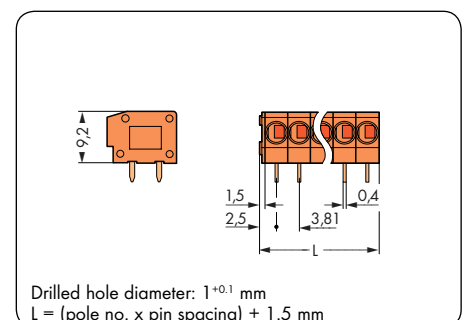
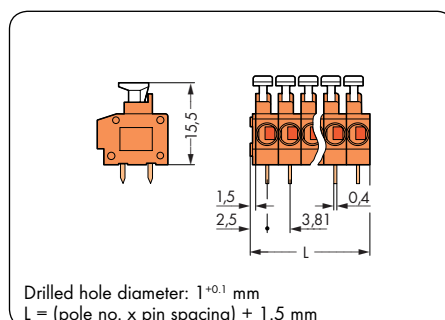
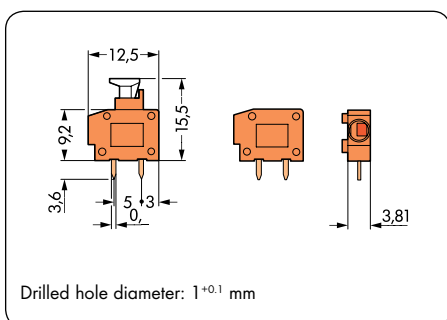
Accessories, 235 Series

(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.
	Spacer, doubles pin spacing orange 235-316 100	 Operating tool with partially insulated shaft, type 1, (2.5x0.4) mm blade 210-719 1

① Fine-stranded conductor sizes:
0.75 mm² - 1.5 mm², 4 A

Dimensions



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

For technical explanations and abbreviations, see technical section.

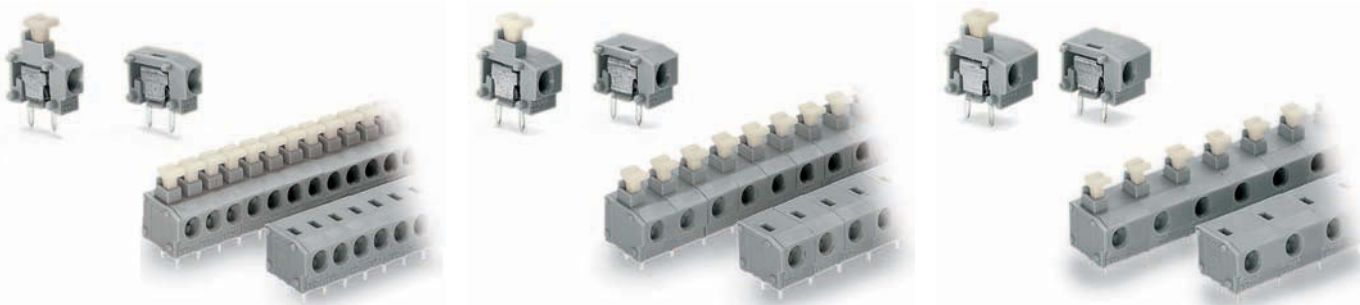
WAGO

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 mm² "sol." | AWG 20 - 14 "sol."
(1.5 mm² "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 mm² "sol." | AWG 20 - 14 "sol."
(1.5 mm² "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 mm² "sol." | AWG 20 - 14 "sol."
(1.5 mm² "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



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 without					with push-button without					with push-button 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														
 black	235-748/331-000		800		1-conductor terminal strip without push-buttons,					1-conductor terminal strip without push-buttons,							
 violet	235-749/331-000		800		2 solder pins/pole, standard lengths, gray					2 solder pins/pole, standard lengths, gray							
1-conductor terminal strip without push-buttons,																	
2 solder pins/pole, standard lengths, gray																	
 2	235-402	420	12	235-412	60	 2	235-502	280	8	235-508	60	 2	235-802	220	8	235-808	40
 3	235-403	280	16	235-416	60	 3	235-503	200	9	235-509	60	 3	235-803	140	9	235-809	40
:	:	:	24	235-424	40	 4	235-504	140	10	235-510	60	 4	235-804	120	10	235-810	40
 9	235-409	100	36	235-436	20	 5	235-505	120	12	235-512	40	 5	235-805	80	12	235-812	40
:	:	:			40	 6	235-506	100	16	235-516	40	 6	235-806	80	16	235-816	20
 10	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.							

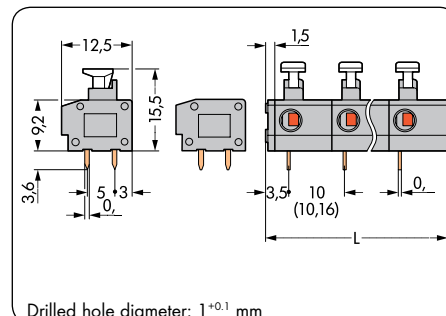
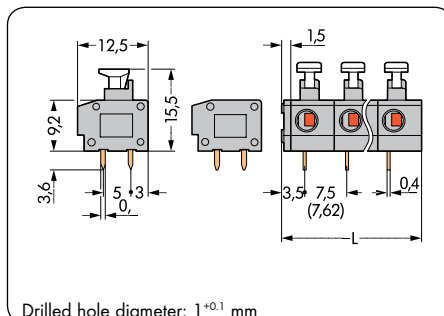
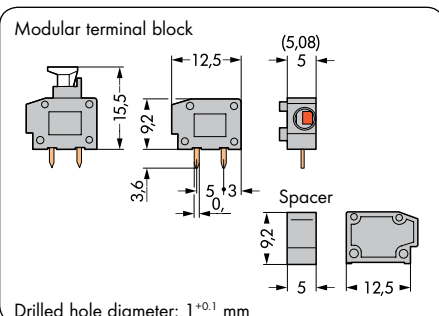
Accessories, 235 Series Modular Terminal Blocks and Terminal Strips (Marking strips, see Section 6)

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 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			Fine-stranded conductor sizes: 0.25 mm ² - 0.5 mm ² , 2 A 0.75 mm ² - 1.5 mm ² , 6 A		

Dimensions

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

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

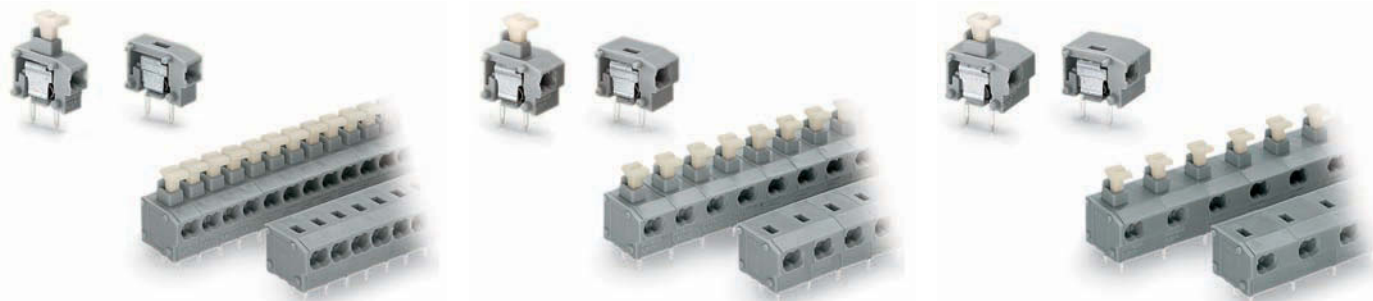


PCB 2-Conductor Modular Terminal Blocks 0.75 mm² Pin Spacing 5/5.08 mm, 7.5/7.62 mm and 10/10.16 mm 235 Series

PUSH WIRE®

2
135

Pin spacing 5/5.08 mm / 0.2 in $2 \times 0.25 - 0.75 \text{ mm}^2$ "sol." $2 \times \text{AWG } 24 - 18$ "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 1 Approvals	Pin spacing 7.5/7.62 mm / 0.3 in $2 \times 0.25 - 0.75 \text{ mm}^2$ "sol." $2 \times \text{AWG } 24 - 18$ "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 1 Approvals	Pin spacing 10/10.16 mm / 0.4 in $2 \times 0.25 - 0.75 \text{ mm}^2$ "sol." $2 \times \text{AWG } 24 - 18$ "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 1 Approvals
--	---	---



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					2-conductor modular terminal block, 2 solder pins/pole					2-conductor modular terminal block, 2 solder pins/pole										
with push-button					with push-button					with push-button										
without					without					without										
	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 terminal strips in: blue ... / ... -006 dark gray ... / ... -008 light gray ... / ... -009 orange ... / ... -012 light green ... / ... -017
	Spacer, doubles pin spacing gray 235-701 100		Item no. suffix for 2-conductor terminal strips with push-buttons ... / 331-000

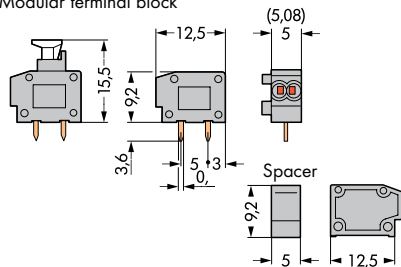
2 Terminal blocks with blue insulation are suitable for Ex i applications (only for 7.5/7.62 mm and 10/10.16 mm pin spacing).

Dimensions

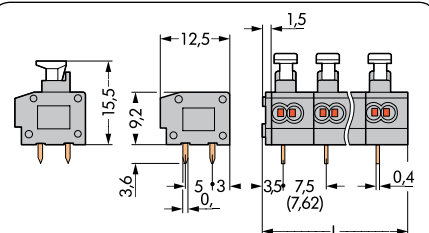
(Adjust pin spacing by pulling on the end blocks so that they expand to satisfy the hole centers required.)

L = (pole no. x pin spacing) + 1.5 mm

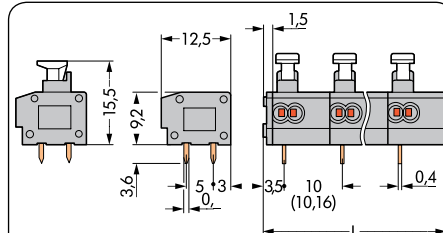
Modular terminal block



Drilled hole diameter: $1^{+0.1}$ mm



Drilled hole diameter: $1^{+0.1}$ mm



Drilled hole diameter: $1^{+0.1}$ 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

Pin spacing 2.5 mm / 0.098 in Pin spacing 2.54 mm / 0.1 in 0.4 - 0.8 mm Ø "sol." ① 160 V/2.5 kV/2 I _N 4 A 8.5 - 9.5 mm / 0.34 in ③ Approvals	Pin spacing 3.5 mm / 0.138 in 0.2 - 1.5 mm ² "s+st" AWG 24 - 16 "sol." 160 V/2.5 kV/2 300 V, 5 A ② I _N 8 A ② 8.5 - 9.5 mm / 0.34 in ③ Approvals	Pin spacing 3.5 mm / 0.138 in 0.2 - 1.5 mm ² "s+st" AWG 24 - 16 "sol." 320 V/4 kV/2 300 V, 5 A ② I _N 8 A ② 8.5 - 9.5 mm / 0.34 in ③ Approvals
---	---	---

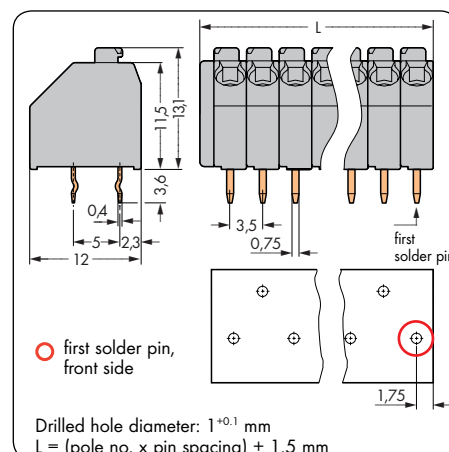
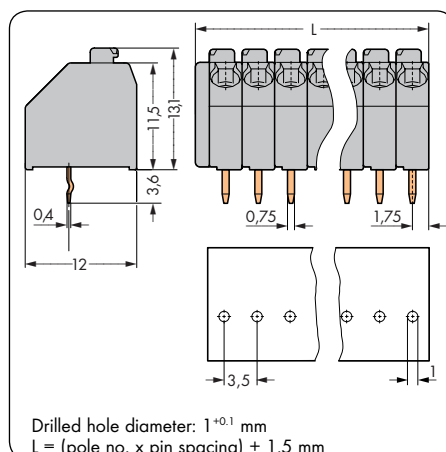
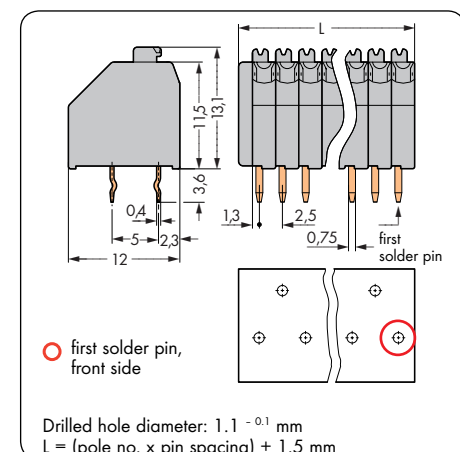


Pole No. Color	Item No.	Pack. Unit	Item No.	Pack. Unit	Pole No. Color	Item No.	Pack. Unit
1-conductor terminal strip with push-buttons, 1 staggered solder pin/pole, with test slot for test pin up to 1.3 mm Ø, gray				1-conductor terminal strip with push-buttons, 1 front solder pin/pole, with test slots for test pin up to 1.3 mm Ø, gray			
Pin spacing	2.5 mm/0.098 in		2.54 mm/0.1 in		Pin spacing	3.5 mm/0.138 in	
2	250-402	720	250-1402	720	2	250-202	560 (4x140)
3	250-403	520	250-1403	520	3	250-203	400 (4x100)
4	250-404	400	250-1404	400	4	250-204	300 (4x75)
:	:	:	:	:	5	250-205	240 (4x60)
11	250-411	160	250-1411	160	11	250-211	120 (4x30)
12	250-412	140	250-1412	140	12	250-212	100 (4x25)
:	:	:	:	:	:	:	:
19	250-419	80	250-1419	80	17	250-217	80 (4x20)
20	250-420	80	250-1420	80	18	250-218	60 (4x15)
21	250-421	80	250-1421	80	19	250-219	60 (4x15)
22	250-422	80	250-1422	80	20	250-220	60 (4x15)
23	250-423	80	250-1423	60	21	250-221	60 (4x15)
24	250-424	60	250-1424	60	22	250-222	60 (4x15)
For 2.5 mm and 2.54 mm pin spacing				For 3.5 mm pin spacing			
Item no. suffix for terminal strips in:				Item no. suffix for terminal strips in:			
● black .../000-004				● yellow .../000-002			
● red .../000-005				● black .../000-004			
● blue .../000-006				● red .../000-005			
● light gray .../000-009				● blue .../000-006			
● orange .../000-012				● light gray .../000-009			
● violet .../000-024				● orange .../000-012			
● white .../000-050				● brown .../000-014			
For other colors, please contact factory.				● light green .../000-017			
				● violet .../000-024			
				● white .../000-050			
				For other colors, please contact factory.			

Accessories, 250 Series

(Marking strips, see Section 6)

① Fine-stranded conductor sizes: 0.2 mm ² - 0.5 mm ²	 Test pin, 1 mm Ø, with solder connection for test cable 735-500 1	 Operating tool with partially insulated shaft, type 1, (2.5x0.4) mm blade 210-719 1
---	--	--



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

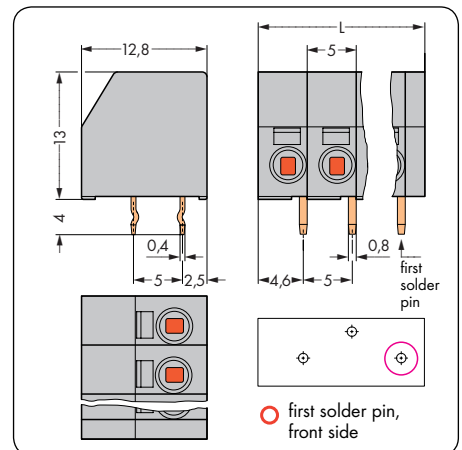
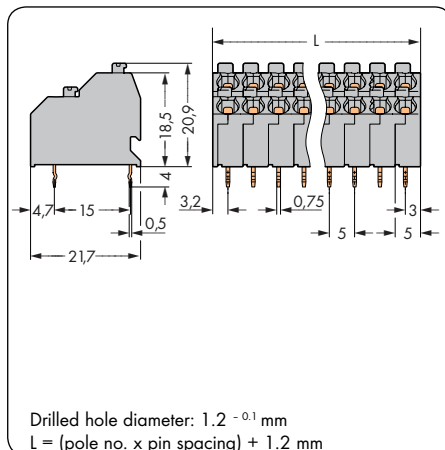
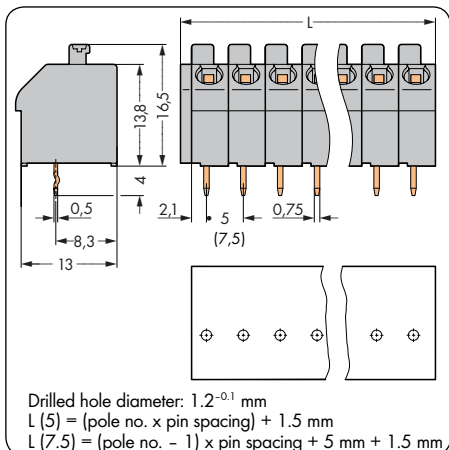
250 and 253 Series

2
137

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." ① 800 V/4 kV/2 I _N 10 A 9 - 10 mm / 0.37 in	Pin spacing 5 mm / 0.197 in 0.5 - 1.5 mm ² "sol." ① 400 V/4 kV/2 I _N 10 A 9 mm / 0.35 in ② Approvals	Pin spacing 5 mm / 0.197 in 2 x 0.5 - 1.5 mm ² "sol." ① 500 V/4 kV/2 I _N 10 A 8.5 - 9.5 mm / 0.34 in for wiring on both sides 7 - 8 mm / 0.3 in 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			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		
Pin spacing	5 mm/0.197 in	7.5 mm/0.295 in						
2	250-502	400	250-602	340		2	253-102	400 (4x100)
3	250-503	280	250-603	200		3	253-103	280 (4x70)
:	:	:				4	253-104	200 (4x50)
8	250-508	100	250-608	80		5	253-105	160 (4x40)
9	250-509	100	250-609	60		6	253-106	140 (4x35)
10	250-510	80	250-610	60		7	253-107	120 (4x30)
11	250-511	80	250-611	40		8	253-108	100 (4x25)
12	250-512	60	250-612	40		9	253-109	100 (4x25)
13	250-513	60				10	253-110	80 (4x20)
14	250-514	60				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.			① Fine-stranded conductor sizes: 0.5 mm ² , 2 A 0.75 mm ² - 1.5 mm ² , 4 A			white		
Accessories, 250 Series			Test plug, with 500 mm cable, 2 mm Ø			Dimensions (in mm), 253 Series		
red 210-136 50 (5x10)			2 mm Ø, red 210-136 50			Drilled hole diameter: 1.1 ^{+0.1} mm		
			2.3 mm Ø, yellow 210-137 50			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

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

1 Approvals

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

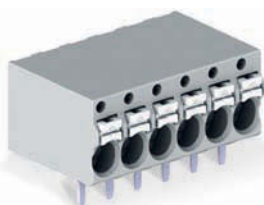
8 - 9 mm / 0.33 in

1 Approvals

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

1 Approvals



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					

4-Conductor Modular PCB Connectors, Pin Spacing 5.75 mm, 243 Series 2-Conductor Compact PCB Connectors, Pin Spacing 3.5 mm, 252 Series

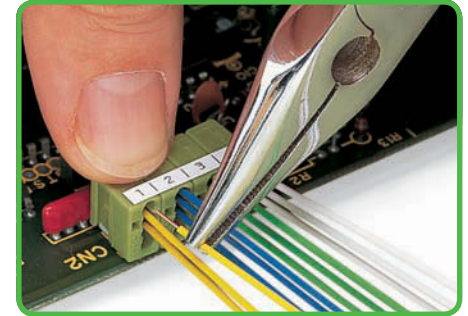
Pin spacing 5.75 mm / 0.226 in 4 x 0.5 Ø / 4 x 0.6 Ø / 4 x 0.8 Ø / 4 x 1 mm Ø "sol." 4 x AWG 24/4 x AWG 22/4 x AWG 20/ 4 x AWG 18 "sol." 125 V 100 V/1.5 kV/2, 6 A 150 V 5 - 6 mm / 0.22 in Approvals	Pin spacing 3.5 mm / 0.138 in 2 x 0.4 - 0.8 mm Ø "sol." 2 x AWG 26 - 20 "sol." 320 V/4 kV/2, 2 A 300 V,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



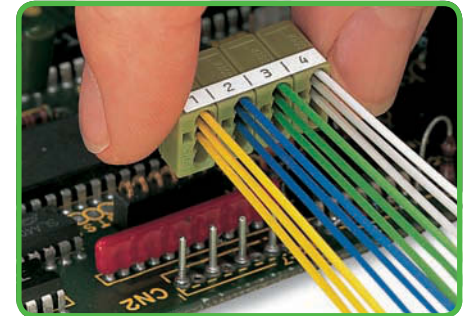
11 mm high

13.1 mm high

243 Series

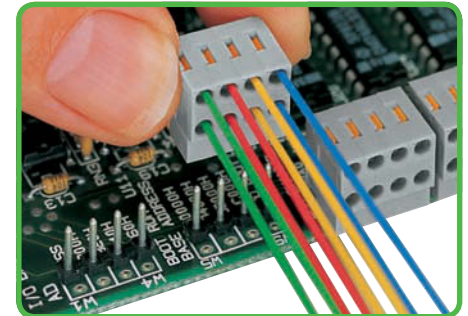


Inserting conductor using pliers until it hits backstop – directly on the PCB . . .
. . . or wiring prior to mounting on PCB.

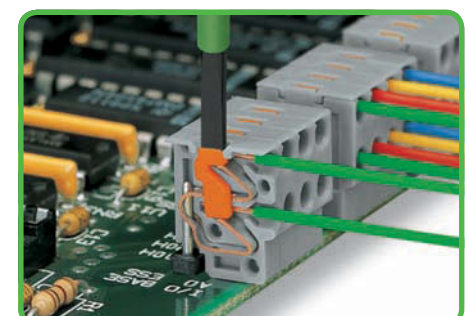


Removing modular PCB connector strip to replace the board.

252 Series



Removing modular PCB connector strip to replace the board.



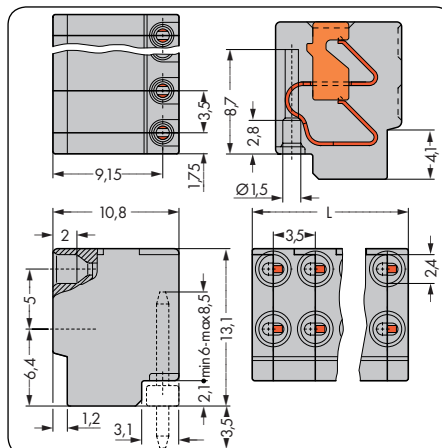
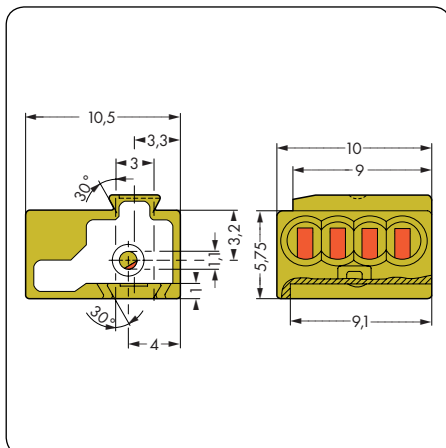
Removing conductor.

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				
gray	243-721	400	2	252-102	600	252-152	600
blue	243-722	400	3	252-103	400	252-153	400
orange	243-723	400	4	252-104	300	252-154	300
light green	243-724	400	5	252-105	300	252-155	300
			6	252-106	200	252-156	200
			7	252-107	200	252-157	200
			8	252-108	200	252-158	200
			9	252-109	200	252-159	200
			10	252-110	150	252-160	150
4-conductor PCB connector strip, with test slots, for solid conductors, light green			Accessories, 252 Series				
2	243-742	50	Solder pin, 1 x 8.5 mm Ø for PCBs up to 2 mm thick for 11 mm high version 243-131 1000				
3	243-743	50	Solder pin strip, 2- to 10-pole, for 13.1 mm high version 252-902 to 252-910 500				
4	243-744	50	Solder pin strip with strain relief, 4-pole, for 13.1 mm high version 252-954 1000				
5	243-745	50	Marker card, 80 self-adhesive strips per card 1 - 12 (160 x) 210-332/0575-0103 1 card				
6	243-746	50	Marker cards, 80 self-adhesive strips per card 1 - 16 (240 x) 210-332/0350-0202 17 - 32 (240 x) 210-332/0350-0204				
7	243-747	50					
8	243-748	50					
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							

Dimensions

Drilled hole diameter: 1.2 ±0.05 mm

L = pole no. x pin spacing



For technical explanations and abbreviations, see technical section.

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

140

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

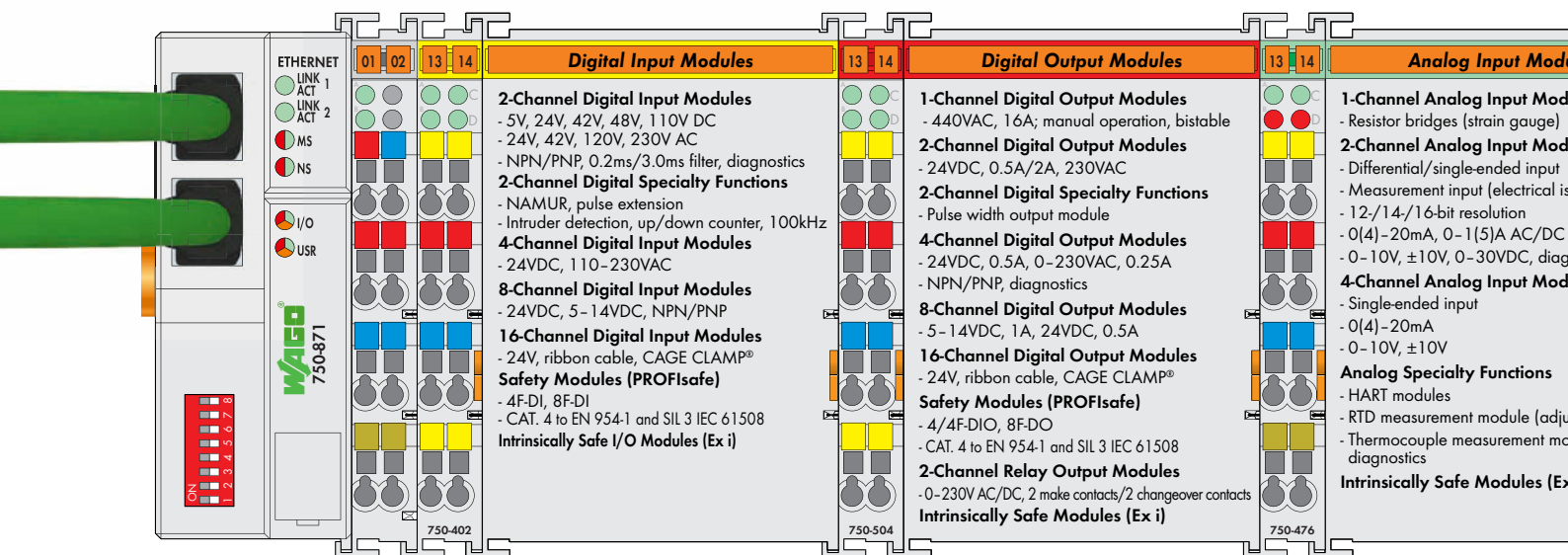
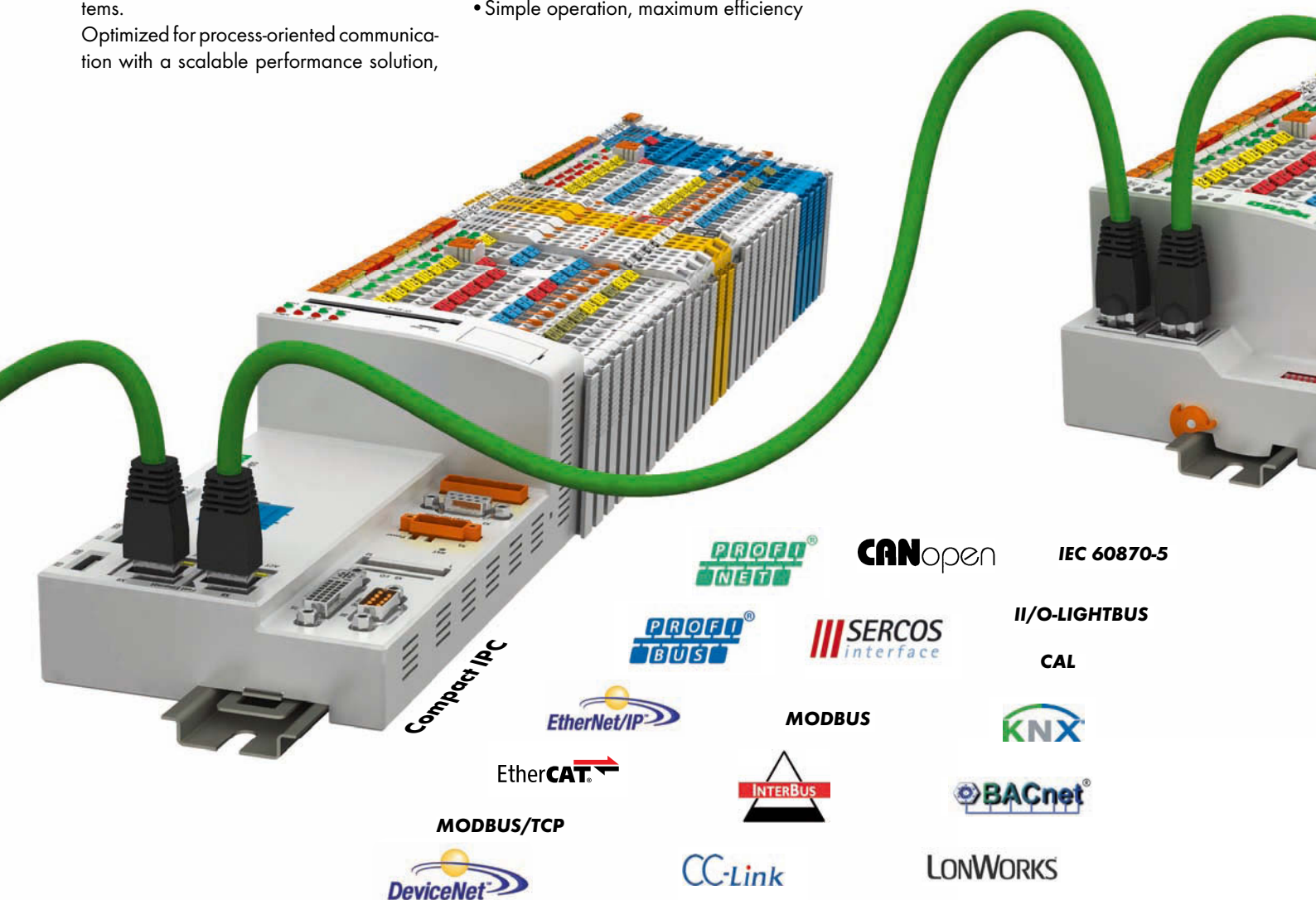
Fine modularity and fieldbus-independence are hallmarks of the WAGO-I/O-SYSTEM, which boasts worldwide approvals for a diverse range of applications. During development, great care was taken to ensure the system could account for all the requirements placed on decentralized fieldbus systems.

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.



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



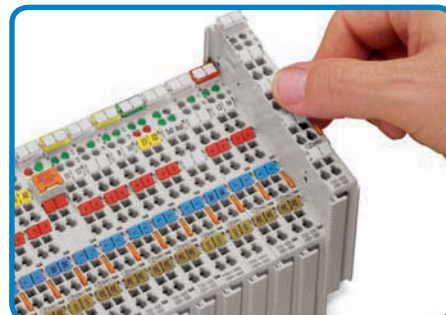
① locking ② releasing

Accessing programming interface



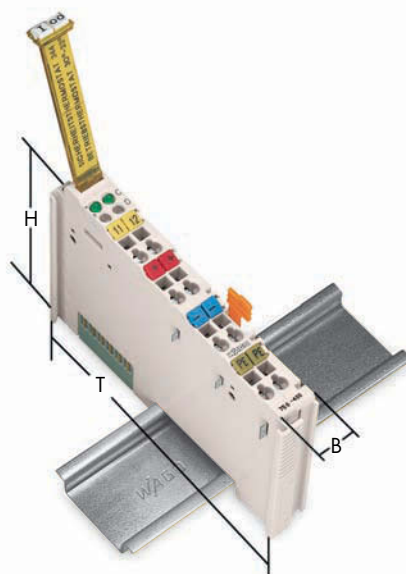
Accessing the programming interface. Programming a fieldbus controller via WAGO-I/O-CHECK or WAGO-I/O-PRO CAA.

End module required



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

WxH*xL (mm) 12x65x100
* from upper-edge of
DIN 35 rail

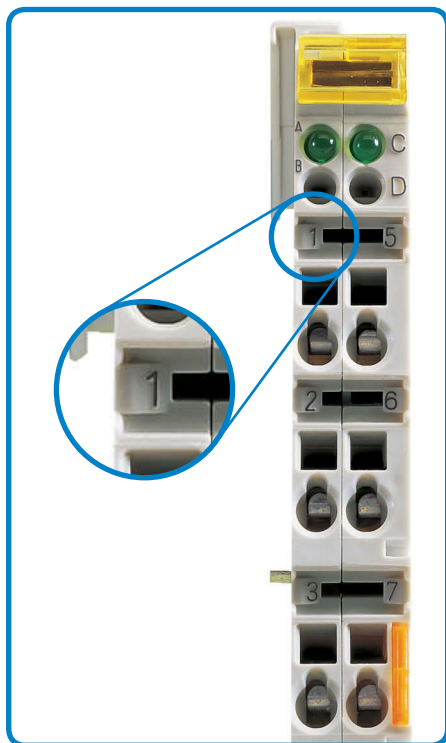


750 Series

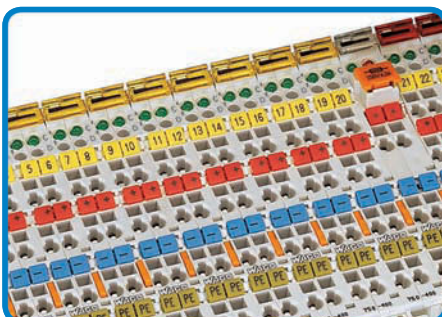


753 Series

Color-coded for simplicity



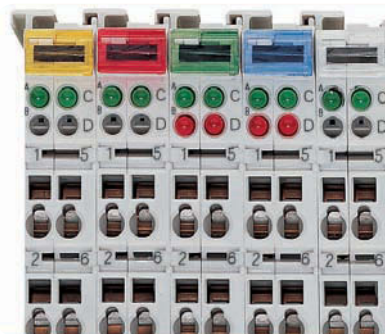
Printed clamping unit marking



Marking clamping units via colored miniature WSB markers.



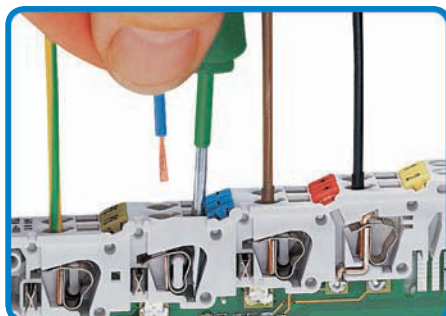
Pullout group marker carrier with large area for self-marking



- 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

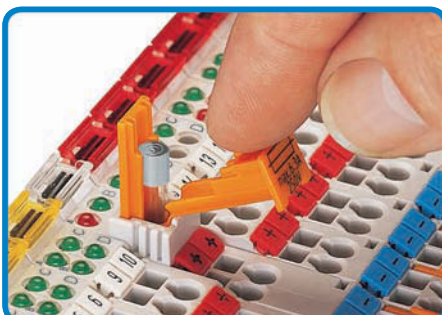


Signal tracing with wired conductors

Fuse holder



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



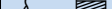
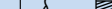
Function at locked position 2:
Easy fuse replacement via hinged cover.
Use UL-recognized fuses only!

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

ECO Fieldbus Couplers* for digital and analog signals 0.08 - 1.5 mm ² / AWG 28 - 16 Voltage supply: 24 V (-15 % ... +20 %) Width: 50 mm  5 - 6 mm / 0.24 in	Fieldbus Couplers* for digital and analog signals 0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 51 mm  8 - 9 mm / 0.33 in	PLC – Programmable Fieldbus Controllers* for digital and analog signals 0.08 - 2.5 mm ² / AWG 28 - 14 Voltage supply: 24 V (-15 % ... +20 %) Width: 51 mm 62 mm ①  8 - 9 mm / 0.33 in
--	---	--



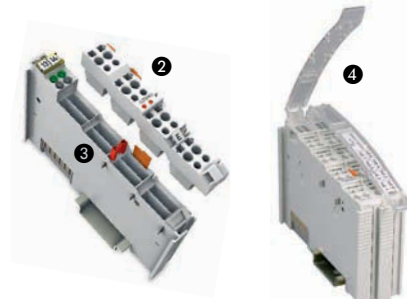
Designation	Baud Rate	Item No.	Designation	Baud Rate	Item No.	Designation	Baud Rate	Item No.
PROFIBUS DP ECO	12 Mbaud	750-343 	PROFINET IO	100 Mbit/s	750-340 	PROFIBUS DP/V1	12 Mbaud	750-833 
			PROFINET IO	100 Mbit/s	750-370			
INTERBUS ECO	500 kbaud	750-344 	2 ports			ETHERNET TCP/IP	10/100 Mbit/s	750-871 
						2 ports		
INTERBUS ECO	2 Mbaud	750-345 	PROFIBUS DP/FMS	12 Mbaud	750-303 	ETHERNET TCP/IP	10/100 Mbit/s	750-873 
			PROFIBUS DP/V1	12 Mbaud	750-333 	RS-232		
DeviceNet ECO	500 kbaud	750-346 	PROFIBUS	1.5 Mbaud	750-331	ETHERNET TCP/IP	10/100 Mbit/s	750-841 
			with fiber-optic connection			ETHERNET TCP/IP	10 Mbit/s	750-842 
CANopen ECO MCS	10 kBd – 1 MBd	750-347 				ETHERNET TCP/IP	10 Mbit/s	750-843 
CANopen ECO	10 kBd – 1 MBd	750-348 	ETHERNET TCP/IP	100 Mbit/s	750-341 			
			ETHERNET TCP/IP	10 Mbit/s	750-342 	ETHERNET	10/100 Mbit/s	750-880 
ETHERNET TCP/IP ECO			ETHERNET TCP/IP	10/100 Mbit/s	750-352	2 ports		
100 MBit/s	750-352/020-000		EtherCAT®	100 Mbit/s	750-354	ETHERNET	10/100 Mbit/s	750-881 
						2 ports		
			SERCOS III	100 Mbit/s	750-351	ETHERNET MR	10/100 Mbit/s	750-882
			2 ports					
			DeviceNet	500 kbaud	750-306 	DeviceNet	500 kbaud	750-806 
			CANopen	10 kBd – 1 MBd	750-307 	CANopen	10 kBd – 1 MBd	750-837 
			CANopen	10 kBd – 1 MBd	750-337 	MCS		
			CANopen	10 kBd – 1 MBd	750-338 	CANopen	10 kBd – 1 MBd	750-838 
						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 			
			INTERBUS	500 kbaud	750-334 	IEC 60870-5	10/100 Mbit/s	750-872
			with fiber-optic connection			for telecontrol technology		
			CC-Link	156 kBd - 10 MBd	750-310 	KNX	10/100 Mbit/s	750-849
			II/O-LIGHTBUS	2.5 Mbaud	750-300 	BACnet	10/100 Mbit/s	750-830 
			Digital and analog signals					
			II/O-LIGHTBUS	2.5 Mbaud	750-320 	LonWorks®	78 kbps	750-819 
			Digital signals					
			LonWorks®	78 kbps	750-319 	Linux®	10/100 Mbit/s	750-860 
						Linux®	10/100 Mbit/s	750-863
			LON Data Exchange Coupler		750-319/004-000 	RS-232		
			(Peer-to-Peer)	78 kbps				
			 ATEX/IEC Ex approval					

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

*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

Analog Inputs and Analog Outputs 750 and 753 Series

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



Designation			Item No.			Designation			Item No.																																																					
1-Channel AI			DMS**			750-491			2-Channel AO			0-20mA			750-552			 ①																																												
2-channel AI			Differential inputs			0-20mA			750-452			 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																																						
4-Channel AO			0-20mA			750-553			 ①			4-20mA			750-555			 ①																																												
																					0-10V			750-559			 ①																																			
																														± 10V			750-557			 ①																										
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																				
																																													short-circuit protected			750-473			 ①											
																																																						4-20mA, 16 bits			750-474			 ①		
0-10VDC			750-467			 ①																																																								
									0-10VDC, 16 bits			750-478			 ①																																															
																		±10VDC, 16 bits			750-476			 ①																																						
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																							
2-channel AI			Pt100/RTD			750-461			 ①																																																					
2-channel AI			Thermocouple			750-469			 ①																																																					
																					K/Diagnostics																																									
2/4-Channel AI			RTD			750-464																																																								
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														
4-Channel AI			Pt100/RTD			750-460																																																								
3-Phase Power Measurement Module			750-493																																																											



3 Specialty Modules and System Modules 750 and 753 Series

148

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	750-404  ①	Stepper Controller	750-670 	End Module	
24VDC, 100kHz		RS-422, 24V, 20mA		for internal data bus extension	750-627
2-Channel Up/Down Counter	750-638  ①	Stepper Controller	750-671 	Coupler Module	
24VDC, 500Hz		24VDC/1.5A		for internal data bus extension	750-628
2-Channel Pulse Width Output Module	750-511 	Stepper Controller	750-672	Supply Modules	750-602
24VDC, 0.1A		70V/7.5A, 6 IN, 2 OUT		24VDC, without fuse	
SSI Transmitter Interface	750-630 	Servo Stepper Controller	750-673	Supply Modules	750-601
24 bits, 125kHz, gray		70V/7.5A, 6 IN, 2 OUT		24VDC, with fuse carrier	
Incremental Encoder Interface	750-631/000-004 			Supply Modules	750-610
16-bit counter				24VDC, with fuse carrier, diagnostics	
Incremental Encoder Interface	750-637 	DC Drive Controller	750-636	Supply Modules	750-623
32-bit counter, RS-422 interface		24VDC/5A		24V, 5 - 15V DC	
				Supply Modules	750-613
				24VDC, passive	
Digital Impulse Interface	750-635  ①			Supply Modules	750-615
for magnetostrictive distance measurement sensors				120VAC, with fuse carrier	
				Supply Modules	750-612
				0-230V AC/DC, without fuse	
RS-232 C Serial Interface	750-650  ①			Supply Modules	750-609
1200-19200 baud				230VAC, with fuse carrier	
RS-485 Serial Interface	750-653  ①			Supply Modules	750-611
1200-19200 baud				230VAC, with fuse carrier, diagnostics	
RS-232/RS-485 Serial Interface	750-652			Filter Module	750-624
300-115200 baud, configurable				for field-side power supply	
TTY Interface 20mA	750-651 			Filter Module	750-626
Current loop				for system and field-side power supply	
				Field Side Connection Module	750-604 ①
				0VDC	
Data Exchange Module	750-654			Field Side Connection Module	750-603 ①
62500 baud				24VDC	
DALI/DSI Master Module	750-641 			Field Side Connection Module	750-1605 ①
				24VDC	
Radio Receiver Module	750-642 			Field Side Connection Module	750-1606 ①
EnOcean				0VDC	
Bluetooth®/RF Transceiver	750-644			Field Side Connection Module	750-1607 ①
				24V/0V DC	
MP-Bus Master Module	750-643 			Field Side Connection Module	750-614 ①
				0-230V AC/DC	
KNX/EIB/TP1 Module	750-646			Separation Module	750-616
RTC Module	750-640 			Separation Module	750-621
Real-time clock				with power jumper contacts	
AS-Interface Master Module	750-655  ①			Binary Spacer Module	750-622
				with supply module	
4-Channel IO-Link Master	750-657			End module	750-600
Vibration Monitoring	750-645	 ATEX/IEC Ex approval			
2-channel vibration velocity/bearing condition monitoring					
Tandem-Piezo acceleration sensor	750-925				

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*

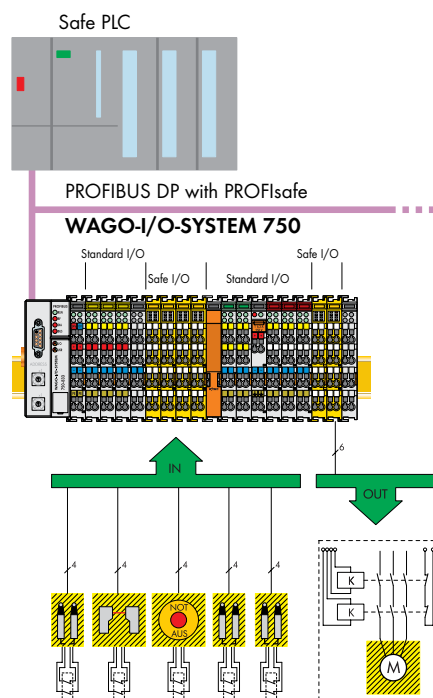
0.08 - 2.5 mm² / AWG 28 - 14
Voltage supply: 24 V (-15 % ... +20 %)
Width: 12 mm 24 mm
8 - 9 mm / 0.33 in

Ex i Intrinsically Safe Modules*

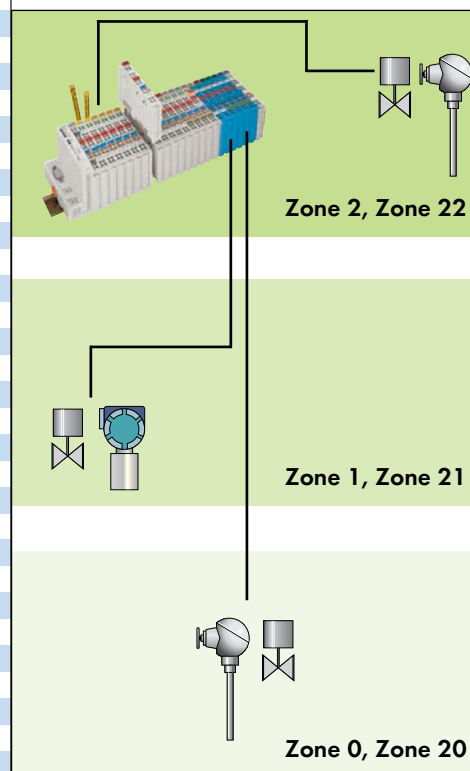
0.08 - 2.5 mm² / AWG 28 - 14
Voltage supply: 24 V (-15 % ... +20 %)
Width: 12 mm 24 mm
8 - 9 mm / 0.33 in



Designation	Item No.	Designation	Item No.
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 ①	2-Channel Digital Output	750-535
4 inputs and 4 outputs, cat. 4/SIL 3, PROFIsafe 2.0		24VDC, Ex i	
8-Channel Input Module	750-660/000-001	2-Channel Analog Input	750-485
8 inputs, cat. 4/SIL 3, PROFIsafe 1.3		Single-ended, 4-20mA, Ex i	
4-Channel Input/Output Module	750-665/000-001	2-Channel Analog Input	750-484
4 inputs and 4 outputs, cat. 4/SIL 3, PROFIsafe 1.3		Single-ended, 4-20mA, HART, Ex i	
4/2-Channel Input/Output Module	750-666/000-003 ①	2-Channel Analog Input	750-481/003-000
4 inputs and 2 outputs (10A), PROFIsafe V2 iPar		RTD Ex i	
		2-Channel Analog Input	750-487/003-000
		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.

WAGO SPEEDWAY 767

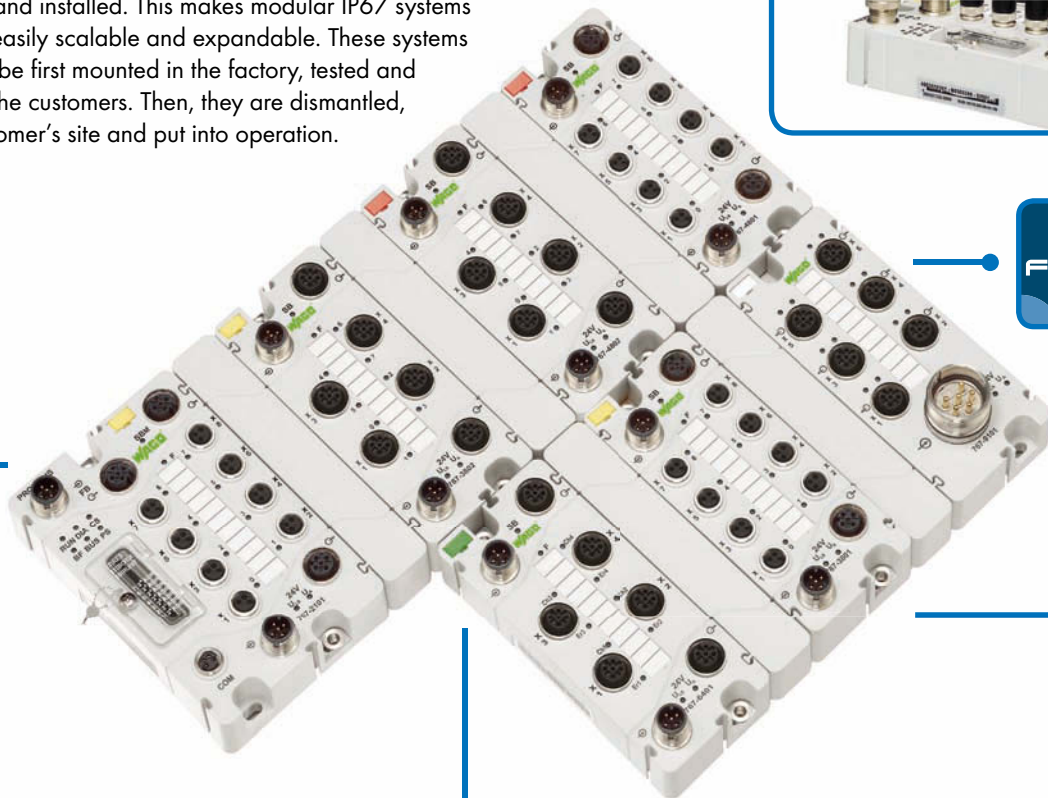
The New Performance Standard for Cabinet-Free Automation

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 $+60^{\circ}\text{C}$
- IP67 degree of protection, fully encapsulated
- Screw and DIN-rail mount options
- Ergonomic design

Couplers, Programmable Couplers



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

3
151

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



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
Programmable Fieldbus Coupler		8 outputs (4 x M12, two outputs per connector)	767-4802		
PROFIBUS DP/ V1	767-2101	8 outputs (8 x M8, LS*)	767-4805	M12 Sensor/Actuator Box with 5m Connecting Cable	
ETHERNET	767-2301	8 outputs (4 x M12, two outputs per connector, LS*)	767-4806	4-pole, 4-port	757-244/000-005
CANopen	767-2501	8 outputs (8 x M12)	767-4807	4-pole, 6-port	757-264/000-005
		Digital Output Module, 24 VDC, 2 A		4-pole, 8-port	757-284/000-005
		8 outputs (8 x M8)	767-4803	5-pole, 4-port	757-245/000-005
		8 outputs (4 x M12, two outputs per connector)	767-4804	5-pole, 6-port	757-265/000-005
		Digital Input/Output Module, 24 VDC, 0.5 A		5-pole, 8-port	757-285/000-005
		8 inputs/outputs (8 x M8)	767-5801		
		8 inputs/outputs (4 x M12, two outputs per conn.)	767-5802	M8 Sensor/Actuator Box with M16 Connector	
		8 inputs/outputs (8 x M12)	767-5803	3-pole, 4-port	757-343
		Analog Input Module		3-pole, 6-port	757-363
		Voltage/current (4 x M12)	767-6401	3-pole, 8-port	757-383
		Resistance temperature device (4 x M12)	767-6402	3-pole, 10-port	757-303
		Thermocouple (TC) (4 x M12)	767-6403		
		Analog Output Module		M8 Sensor/Actuator Box with 5m Connecting Cable	
		Voltage/current (4 x M12)	767-7401	3-pole, 4-port	757-443/000-005
		Power Divider, 24 VDC		3-pole, 6-port	757-463/000-005
		6 outputs (6 x M12)	767-9101	3-pole, 8-port	757-483/000-005
		Serial interface (RS-232, RS-422/-485)	767-5203	3-pole, 10-port	757-403/000-005
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**

152

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)
---	--	--



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)



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
---	---	---



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



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 mm ² / AWG 28 - 14	EPSITRON® ECO Power Open/short circuit protected, adjustable output voltage, LED status indication, for DIN 35 rail 0.08 - 4 mm ² / AWG 28 - 12	EPSITRON® CLASSIC Power Open/short circuit protected, adjustable output voltage, LED status indication, for DIN 35 rail 0.08 - 2.5 mm ² / AWG 28 - 14
---	---	---

[illegible]

3

Shield Connecting System 790 and 791 Series



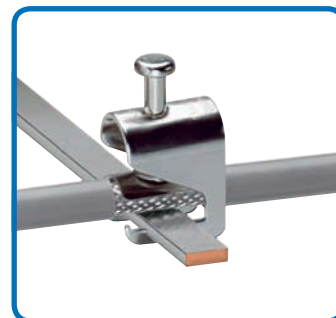
Snap into any metal plate up to max. thickness 3 mm.



790 Series



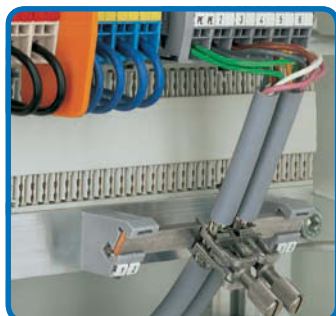
791 Series



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

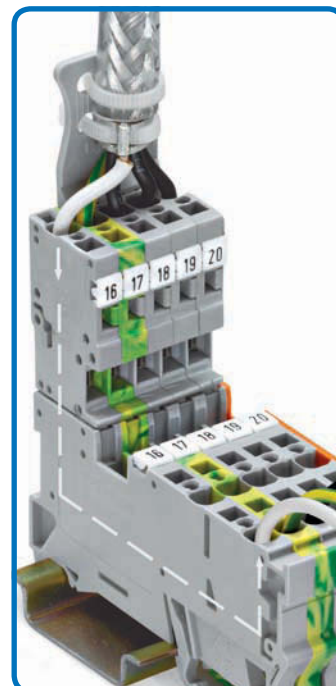
Saddle Width	Cable Diameter	Item No.	Saddle Width	Cable Diameter	Item No.
11 mm	8	790-108	10 mm	1,5 - 6,5	791-107
19 mm	7 - 16	790-116	17 mm	5 - 11	791-111
27 mm	6 - 24	790-124	23 mm	10 - 17	791-117
43 mm	22 - 40	790-140	30 mm	16 - 24	791-124

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	210-133	20 (20x1)
	Straight busbar , copper, (10 x 3) mm, 30 mm	790-133	20 (20x1)
	Straight busbar , copper, (10 x 3) mm, 50 mm	790-134	20 (20x1)
	Insulated mounting foot , for busbar with M4 x 8 mm screw	790-100	50 (2x25)
	Insulated mounting foot , for busbar with (3.5 x 9) mm sheet metal screw	790-101	50 (2x25)
	U-shaped busbar , for I/O modules, 750 Series		
	U-shaped busbar , copper, (10 x 3) mm for 5 I/O	790-190	25 (5x5)
	U-shaped busbar , copper, (10 x 3) mm for 8 I/O	790-191	25 (1x25)
	Busbar carrier , for (10 x 3) mm copper busbars, straight	790-300	10
	Busbar carrier , for (10 x 3) mm copper busbars, angled	790-301	10
	Shield termination , incl. cable tie for 5 - 10 mm Ø, 55 mm long	709-350	100 (4x25)
	Shield termination , incl. cable tie for 5 - 10 mm Ø, 150 mm long	709-352	100 (4x25)

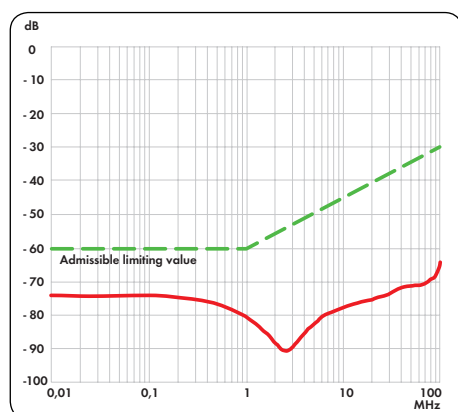


Removing the busbar carrier.



Shield termination

Negative Shield Attenuation

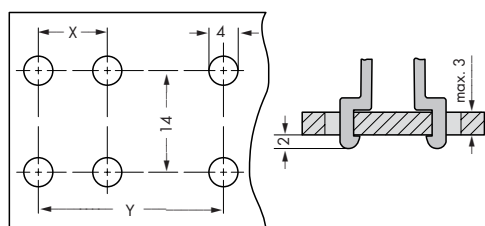


The WAGO shield connecting system is highly effective because the clamping unit can be brought very close to the unshielded part of the cable. Additionally, the spring material is part of the clamping saddle, providing a good electrical connection (the system also acts as a partial strain relief). The 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)

Shield (screen) clamping saddle size

Distance X	
11 mm	9.5 mm
Distance Y	
19 mm	17.5 mm
27 mm	25.5 mm
43 mm	41.5 mm



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.

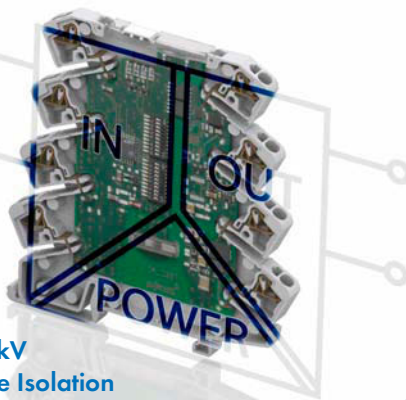
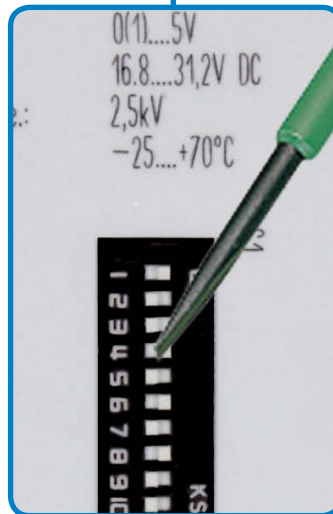
Clear Identification

Clear marking via WMB Multi markers.



Flexibility At Its Finest

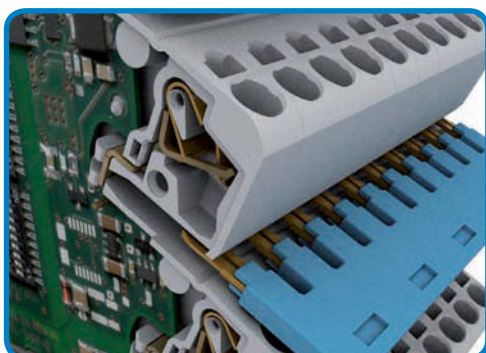
Configuration via DIP switch.
 Temperature transducers can also be configured via software.



2.5kV
 Safe Isolation

Maximum Safety

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



Simple Handling

Removing relay via 3.5mm screwdriver.



CAGE CLAMP®

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 mm² "sol." / 0.34 - 2.5 mm² "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

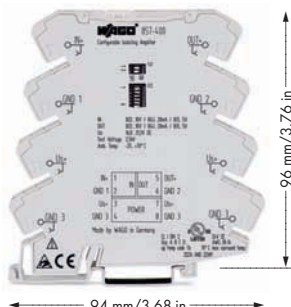
0.08 - 0.2 mm² "sol." / 0.34 - 2.5 mm² "f-st"
Voltage supply: 16.8 - 31.2 V
Temperature range: -25 °C to +70 °C
Width: 6 mm

 9 - 10 mm / 0.37 in

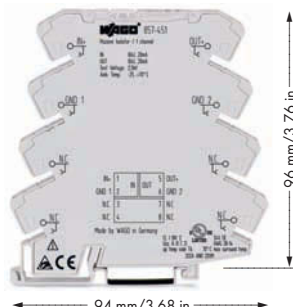
Transducers

0.08 - 0.2 mm² "sol." / 0.34 - 2.5 mm² "f-st"
Voltage supply: 16.8 - 31.2 V
Temperature range: -25 °C to +60 °C
Width: 6 mm

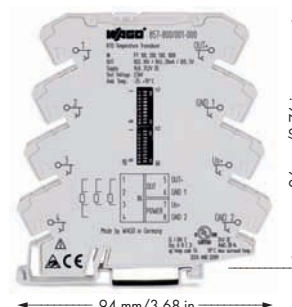
 9 - 10 mm / 0.37 in



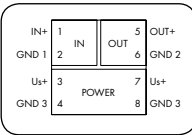
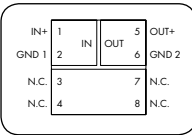
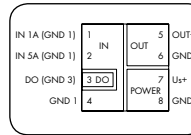
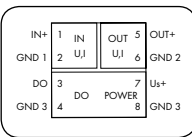
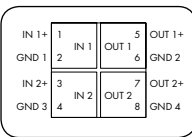
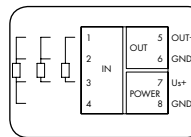
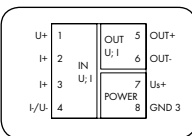
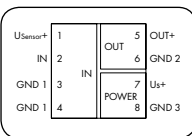
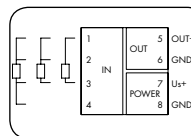
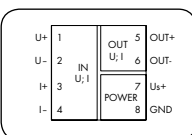
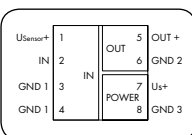
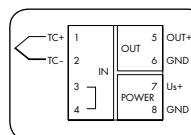
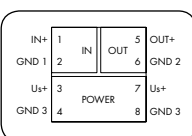
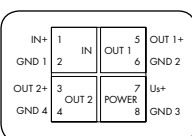
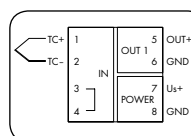
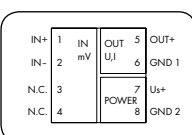
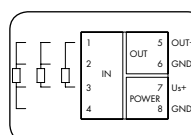
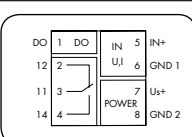
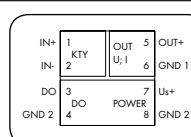
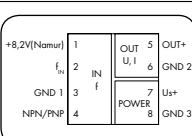
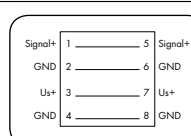
94 mm/3.68 in



94 mm/3.68 in



94 mm/3.68 in

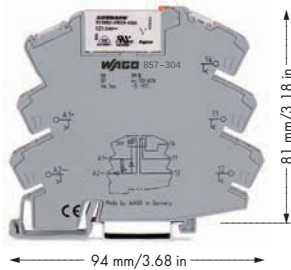
Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
 Isolation amplifier, configurable, with zero/span adjustment 857-400 1		 Passive isolator, 1-channel 857-451 1		 Current transducer 0 - 1 A, 0 - 5 A AC/DC 857-550 1	
 Isolation amplifier, configurable, with digital output 857-401 1		 Passive 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	
857-412 1 Input: 0(2) - 10 V Output: 0(2) - 10 V		 Millivolt transducer 857-819 1		 Temperature transducer for Ni sensors 857-818 1	
857-413 1 Input: 0 - 10 V Output: 0 - 20 mA		 Threshold value switch 857-531 1		 Temperature transducer for KTY sensors 857-820 1	
857-415 1 Input: 0 - 20 mA Output: 0 - 10 V		 Frequency transducer 0.1 - 120 KHz 857-500 1		 Supply and through module 857-979 1	
857-416 1 Input: 4 - 20 mA Output: 0 - 10 V					

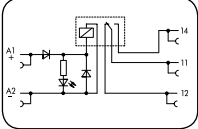
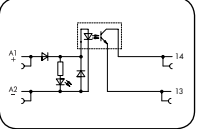
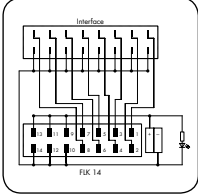
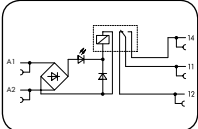
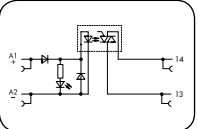
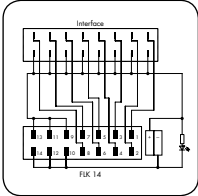
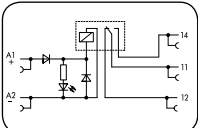
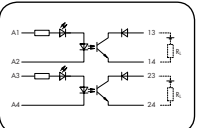
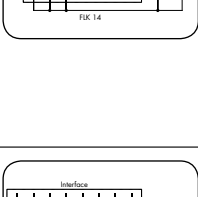
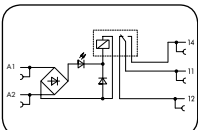
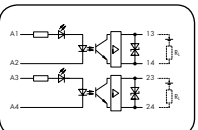
JUMPFLEX®

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
--	--	--



 Socket with miniature switching relay 857-303 12 VDC 1 857-304 24 VDC 1 857-305 48 VDC 1 857-306 60 VDC 1 857-307 110 VDC 1 857-308 220 VDC 1	 Optocoupler, with plugged solid-state relay Switching voltage ① 857-724 24 VDC 1 857-727 115 V AC/DC 1 857-728 230 V AC/DC 1 Optocoupler, with plugged solid-state relay Switching voltage ② 857-704 24 VDC 1 857-707 115 V AC/DC 1 857-708 230 V AC/DC 1	 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 857-981 1
 Socket with miniature switching relay 857-354 24 V AC/DC 1 857-357 115 V AC/DC 1 857-358 230 V AC/DC 1	 Optocoupler, with plugged solid-state relay Switching voltage ③ 857-714 24 VDC 1 857-717 115 V AC/DC 1 857-718 230 V AC/DC 1 Optocouplers Input: 2 x 24 VDC Output: 2 x 9 - 60 VDC Max. switching current: 2 x 0.1 A 857-1494 1	 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 857-982 1
 Socket with miniature switching relay, with gold contacts 857-314 24 VDC 1 857-317 110 VDC 1 857-318 220 VDC 1	 Optocouplers Input: 2 x 24 VDC Output: 2 x 3 - 30 VDC Max. switching current: 2 x 3 A 857-1430 1	 8-channel adapter for system wiring, with D-sub male connector Supply voltage: 24 VDC Current carrying capacity: 1 A 857-986 1
 Socket with miniature switching relay 857-1330 24 V AC/DC 1	 Optocouplers Input: 24 VDC Output: 2 changeover contacts, 2 x 9 - 60 VDC Max. switching current: 2 x 0.5 A 857-1432 1	

Accessories, 857 Series

Appropriate marking system: **WMB**

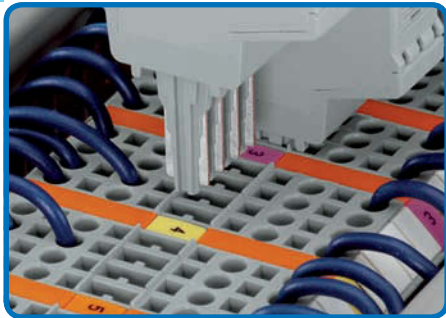
	Push-in type jumper bars, light gray, insulated, I _N 18 A	
	2-way 859-402 200 (8x25)	
	3-way 859-403 200 (8x25)	
	4-port 859-404 200 (8x25)	
	10-port 859-410 100 (4x25)	

	WAGO USB communication cable, connects a PC (notebook) to the 857 Series transducer interface	
	750-923 1	



INTERFACE ELECTRONIC . . .

Plugging



Coding ensures correct polarity.

Testing



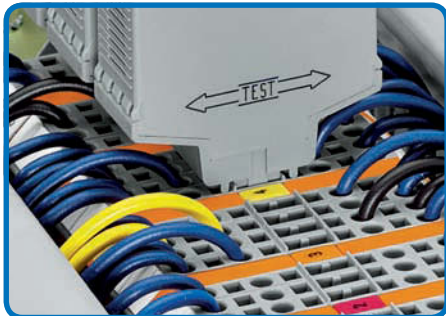
Function testing via touch-proof test slots

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.

Marking

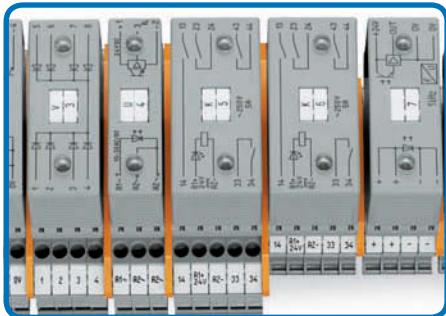


Marking plate, for group or block marking

Pluggable function modules on carrier terminal blocks

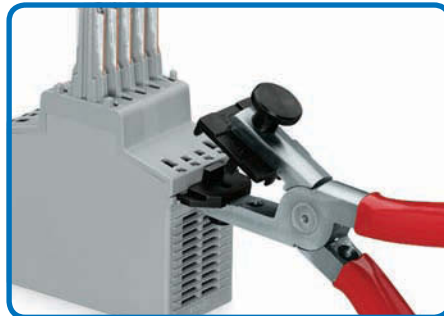


System circuits

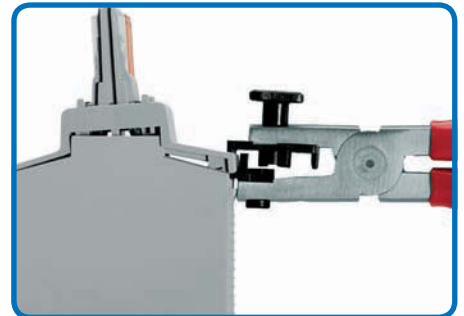


Printed system circuits for quick function recognition

Service



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



CAGE CLAMP® 1
clamps the following
copper conductors:

solid

Strip length, see packaging or instructions.



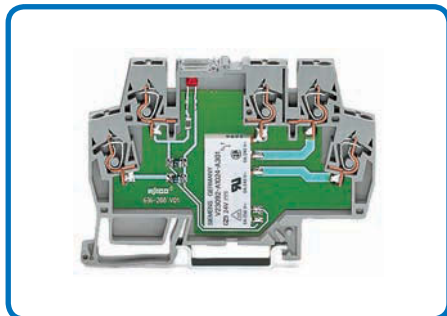
stranded



fine-stranded,
also with tinned
single strands

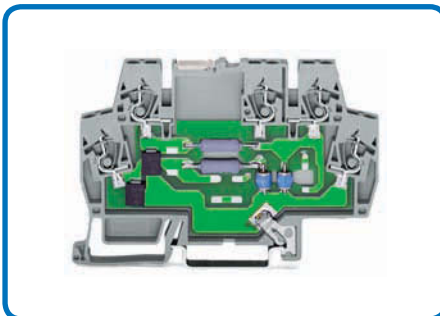
... Description and Handling

859 Series



Relay and optocoupler modules

Overvoltage protection

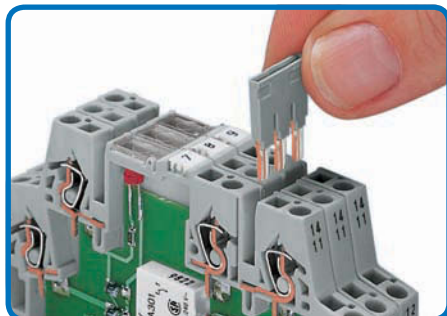


Rail-mounted terminal blocks with overvoltage protection

Interface Modules



Commoning

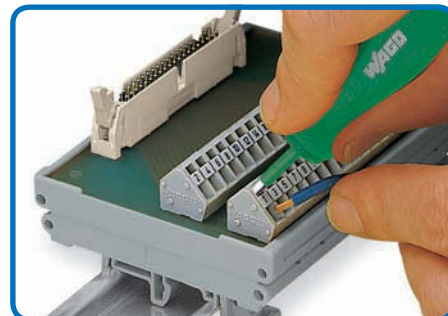


Commoning using a 3-way push-in type jumper bar. 2-way to 10-way jumper bars are also available.



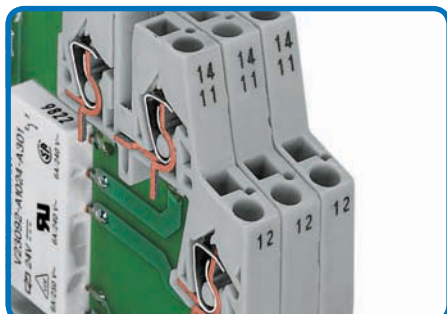
Rail-Mounted Terminal Blocks with Overvoltage Protection

CAGE CLAMP® connection



"Front-entry" conductor termination

Marking

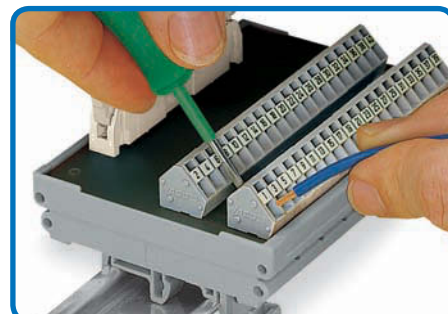


Each clamping unit is marked individually.



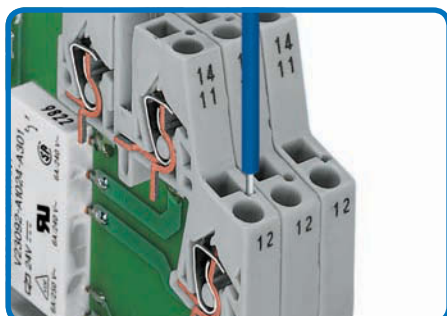
Pluggable surge suppression modules

CAGE CLAMP® connection



"Side-entry" conductor termination

Testing

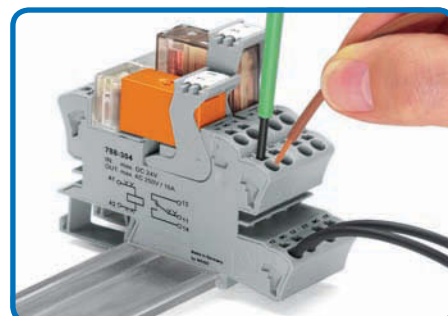


Testing with test pin.



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 ③
(gastight crimped)

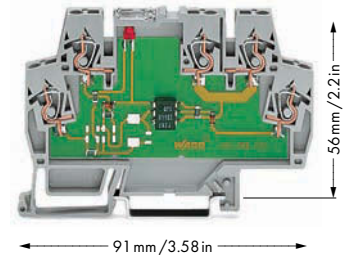
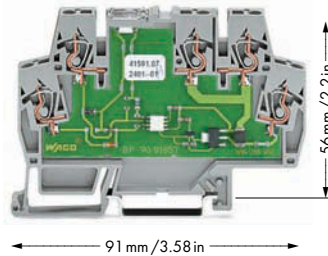
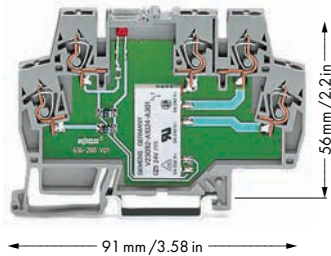


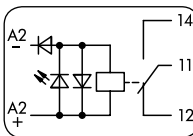
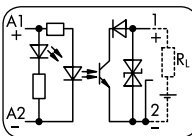
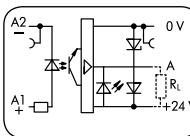
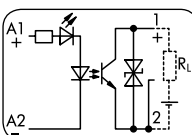
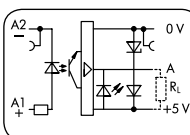
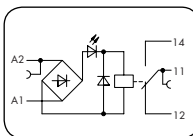
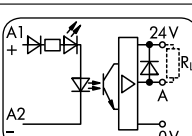
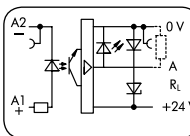
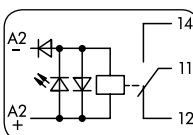
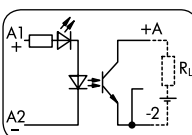
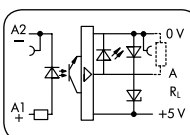
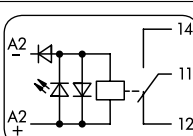
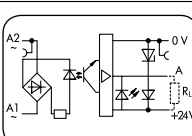
fine-stranded,
with pin terminal
(gastight crimped)

③ 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)	Optocouplers	Optocouplers
0.08 - 2.5 mm ² AWG 28 - 14 Terminal block width: 6 mm  5 - 6 mm / 0.22 in	0.08 - 2.5 mm ² AWG 28 - 14 Terminal block width: 6 mm  5 - 6 mm / 0.22 in	0.08 - 2.5 mm ² AWG 28 - 14 Terminal block width: 6 mm  5 - 6 mm / 0.22 in



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

Rail-mounted terminal blocks with overvoltage protection 792 Series

Overvoltage protection for information technology systems

0.08 – 2.5 mm² AWG 28 – 14

Terminal block width: 6 mm

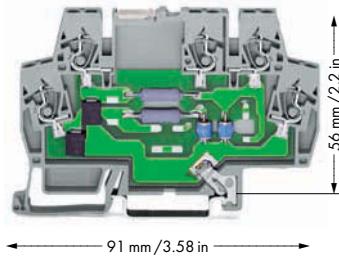
 5 – 6 mm / 0.22 in

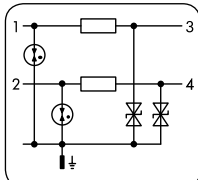
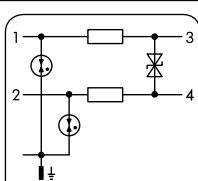
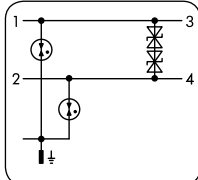
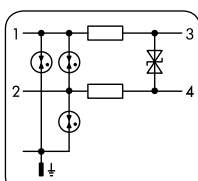
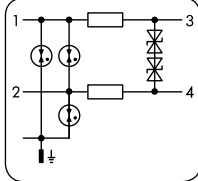
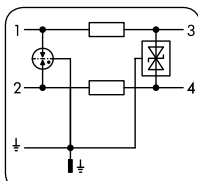
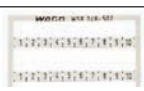
Accessories for:

- Relay and optocoupler modules
- Rail-mounted terminal blocks with overvoltage protection

Accessories for:

- Relay and optocoupler modules
- Rail-mounted terminal blocks with overvoltage protection



Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
	792-800 1		End and intermediate plate, 1 mm thick gray 859-525 100 (4x25)		Screwless end stop, 6 mm wide 249-116 100 (4x25) 10 mm wide 249-117 50 (2x25)
	792-801 1		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)		Adjustable height group marker carriers, for 249-116 and 249-117 end stops for 1 marker card 1 249-119 50 (2x25)
	792-802 1		Item no. suffix for colored push-in type jumper bars: yellow .../000-029 blue .../000-006		for 2 WSB Quick markers or 1 x continuous marking strip 2 249-118 100 (4x25)
	792-803 1		Test pin, 1 mm Ø, with solder connection for test cable 859-500 1		Operating tool with partially insulated shaft, type 2, (3.5 x 0.5) mm blade 210-720 1
	792-804 1		Marking pen, for permanent marking 210-110 1		
	792-805 1		Miniature WSB Quick marking cards, 10 strips with 10 markers each, white with black printing	Marking: plain 1 ... 10 (10x) 11 ... 20 (10x) 21 ... 30 (10x) 31 ... 40 (10x) 41 ... 50 (10x) 1 ... 50 (2x) K 1 ... K 10 (10x) K 11 ... K 20 (10x) K 100 (10x) U 1 ... U 10 (10x) U 11 ... U 20 (10x) U 100 (10x)	248-501 5 248-502 5 248-503 5 248-504 5 248-505 5 248-506 5 248-566 5 248-450 5 248-451 5 248-452 5 248-453 5 248-454 5 248-455 5

Sockets with Miniature Switching Relay, 788 Series

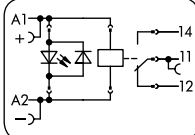
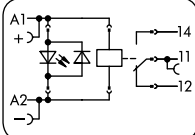
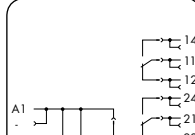
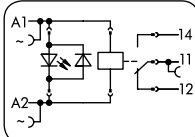
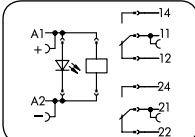
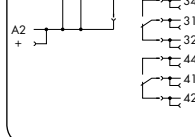
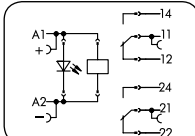
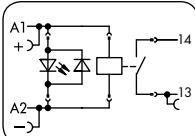
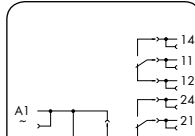
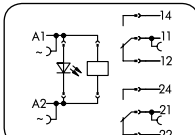
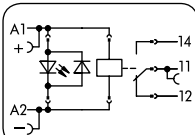
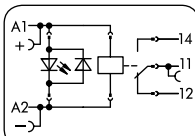
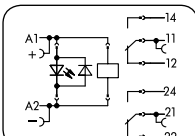
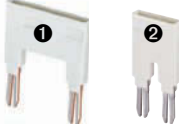
Relay Sockets with Industrial Relay, 858 Series

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

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

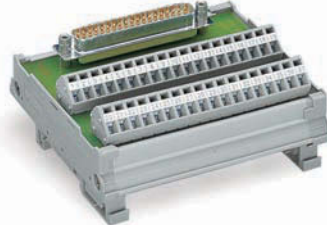
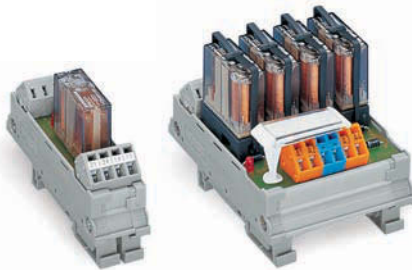
Sockets with relay and integrated status indication,
free-wheeling diode and manual operation
4 changeover contacts / 5 A, gold-plated 50 mA
2 x 0.34 - 2 x 2.5 mm² AWG 22 - 14
Socket width: 31 mm / Relay height: 35 mm
 9 - 10 mm / 0.37 in

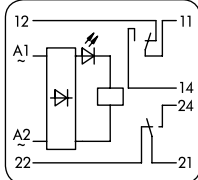
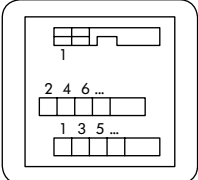
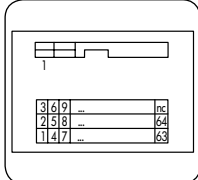
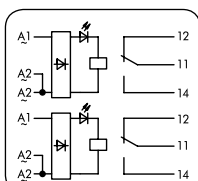
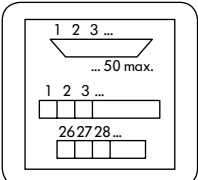
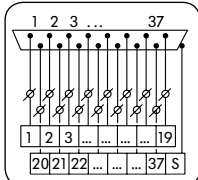
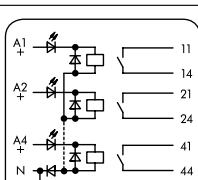
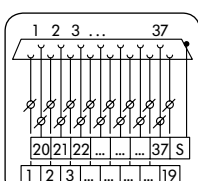
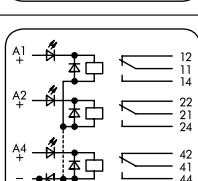
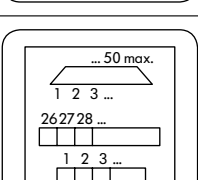
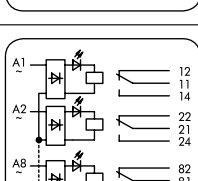
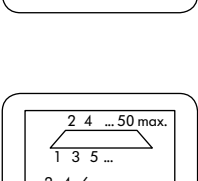
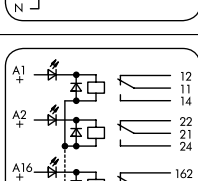
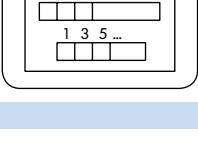
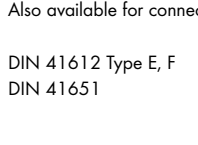
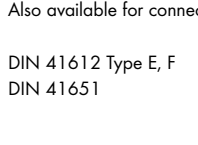
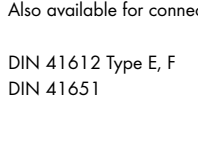
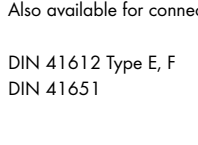
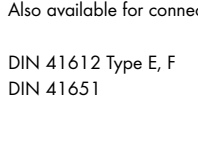
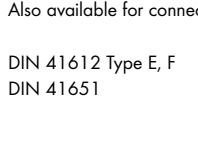
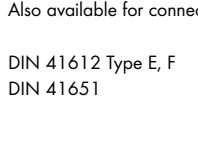
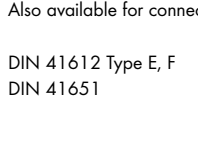
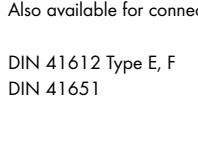
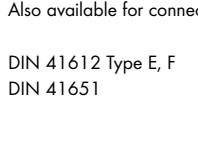
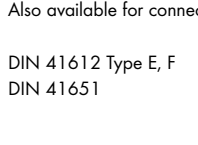
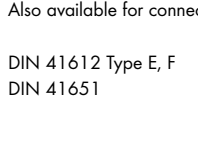
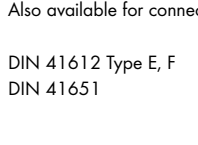
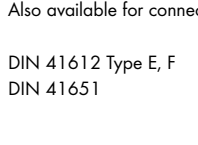
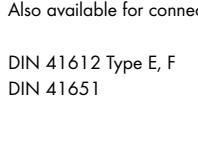
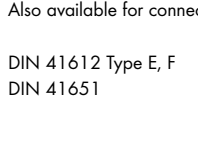
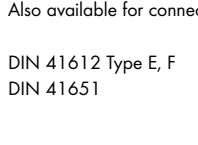
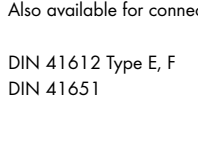
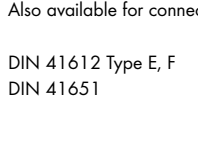
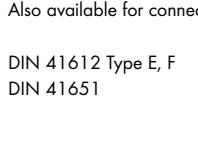
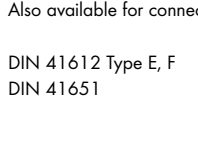
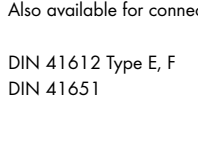
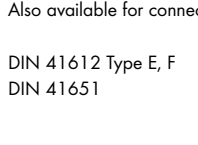
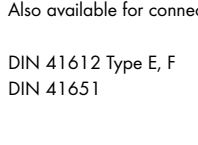
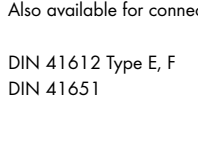
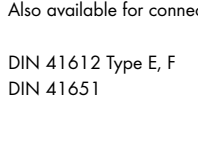
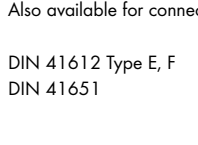
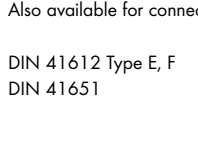
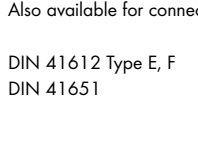
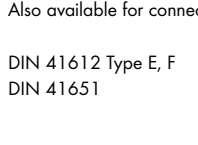
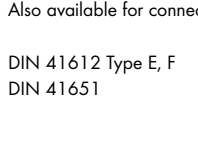
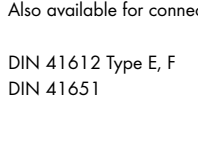
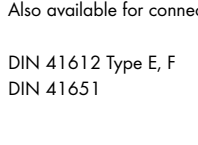
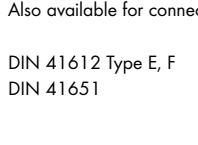
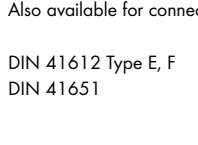
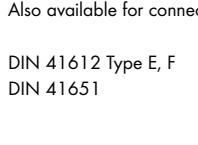
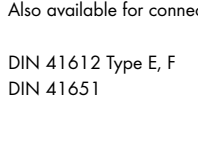
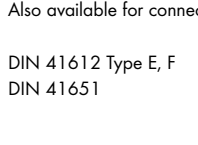
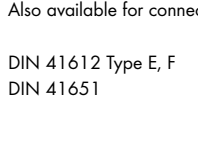
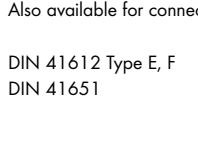
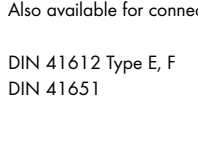
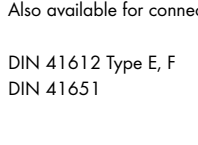
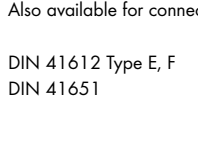
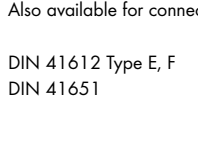
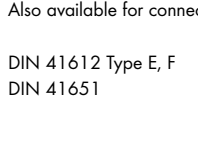
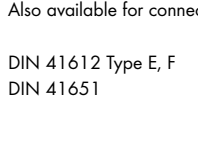
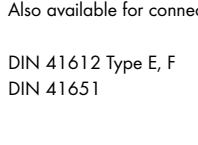
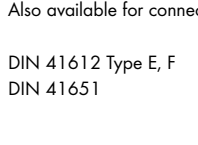
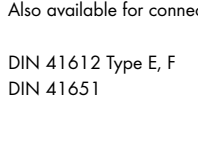
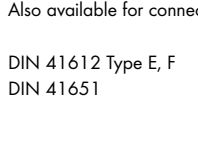
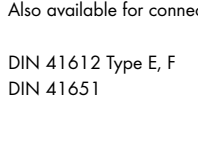
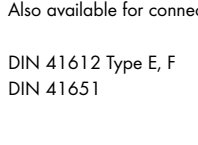
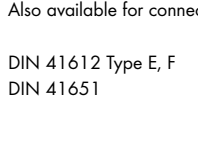
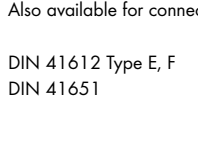
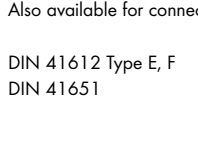
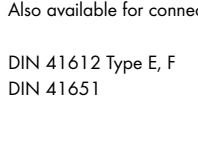
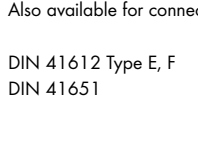
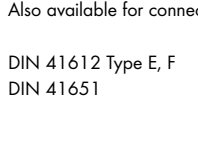
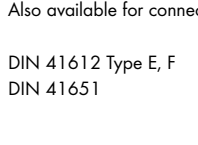
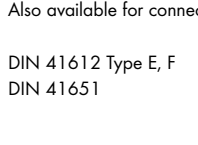
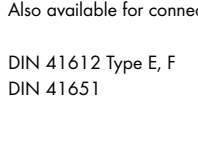
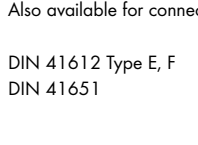
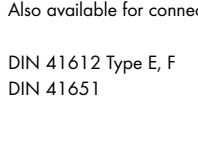
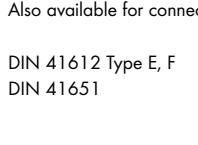
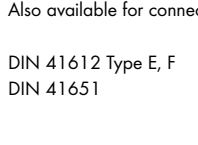
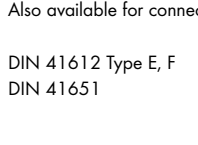
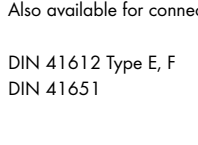
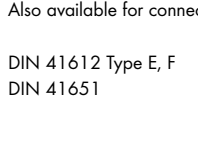
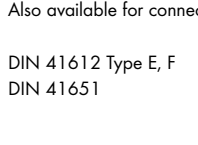
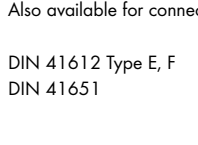
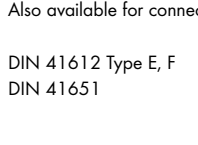
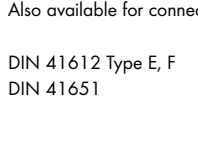
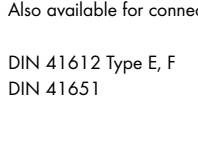
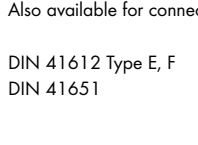
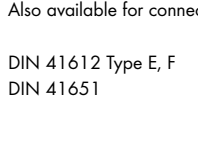
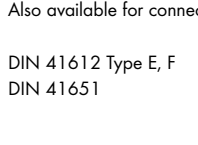
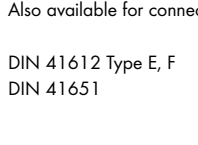
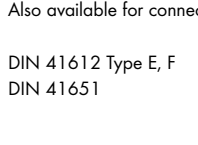
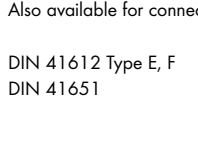
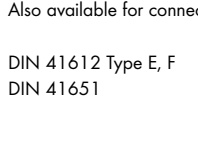
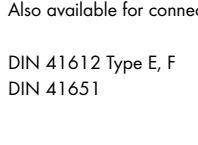
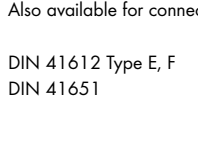
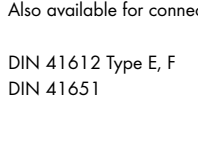
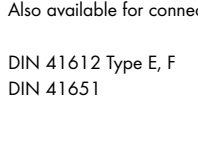
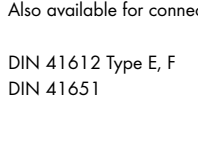
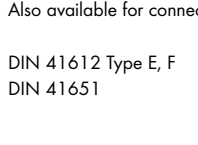
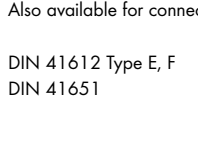
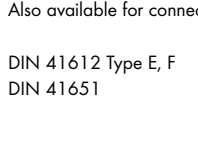
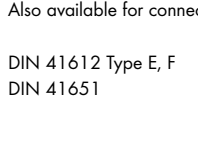
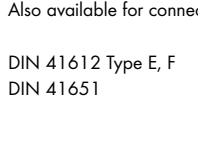
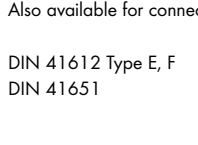
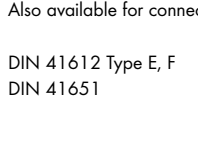
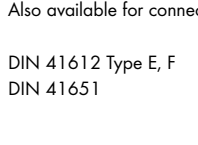
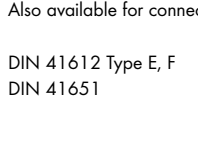
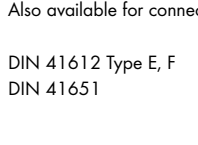
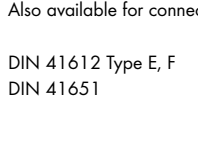
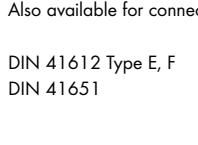
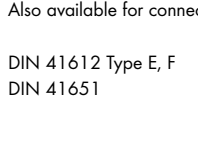
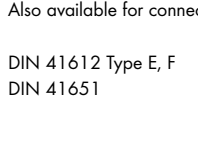
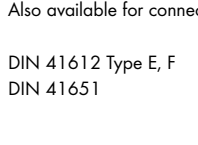
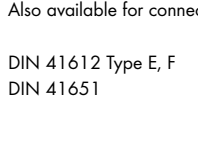
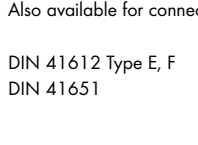
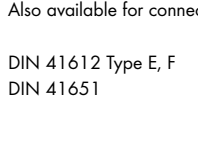
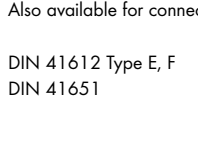
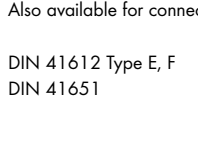
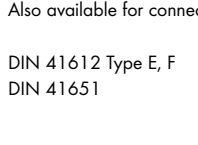
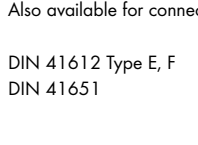
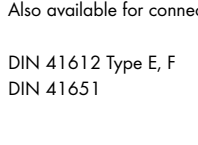
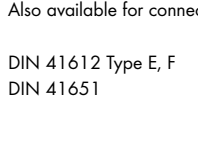
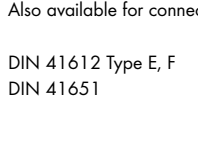
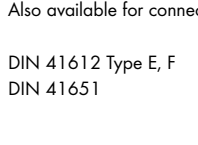
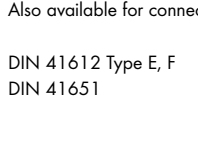
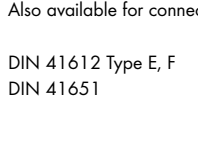
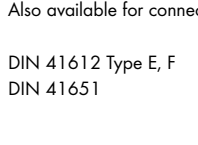
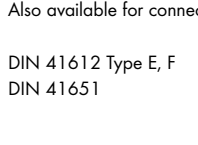
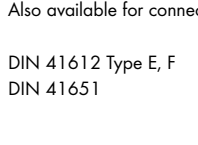
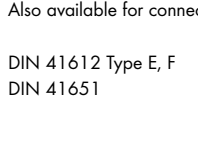
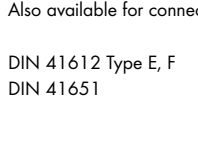
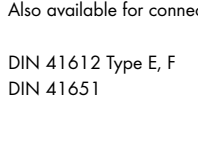
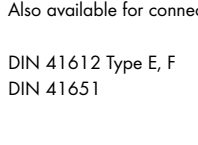
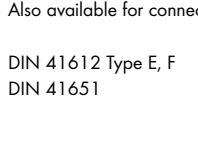
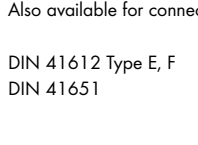
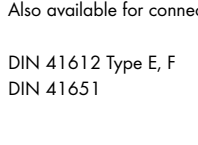
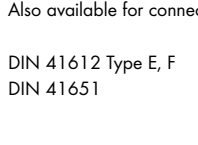
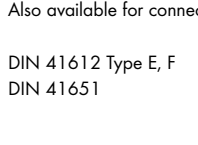
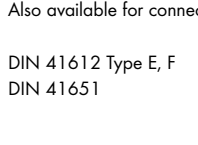
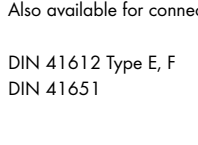
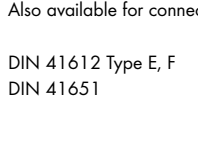
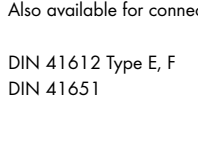
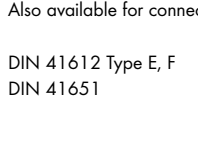
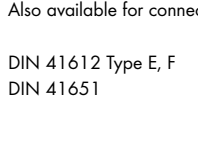
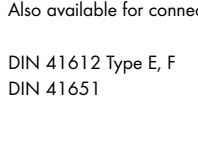
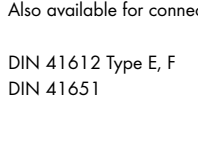
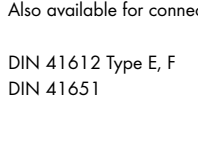
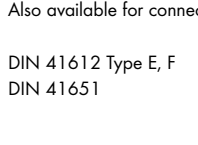
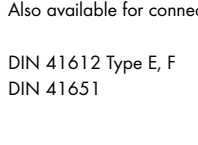
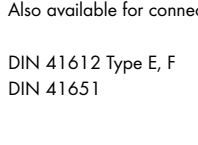
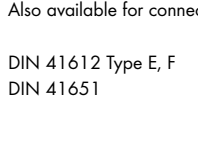
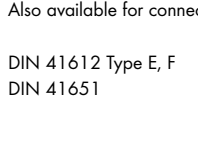
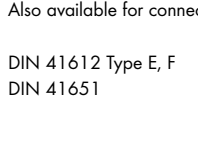
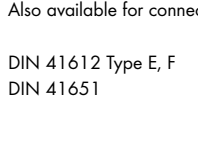
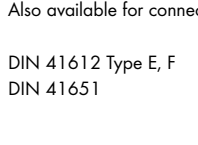
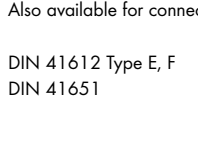
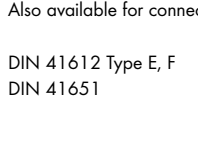
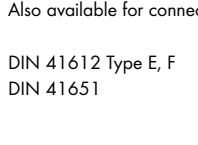
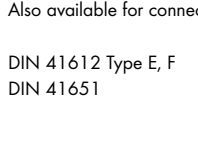
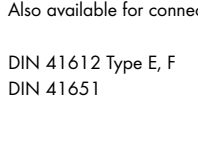
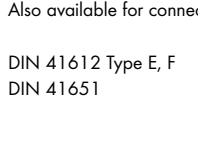
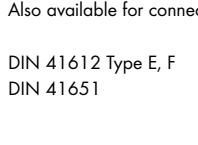
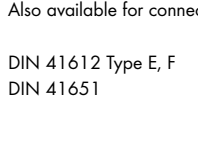
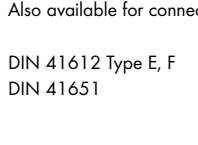
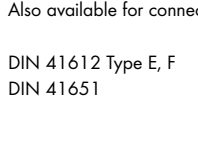
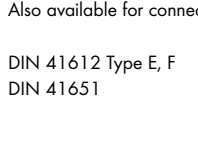
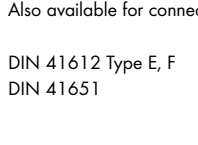
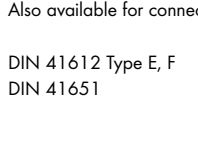
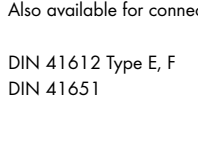
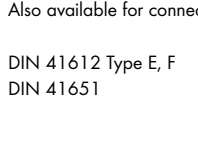
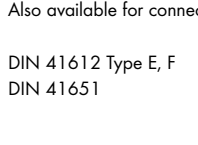
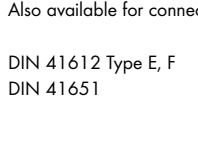
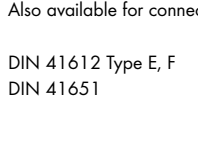
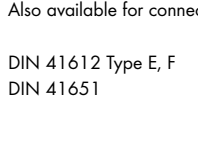
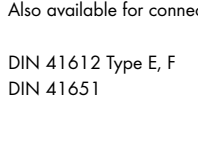
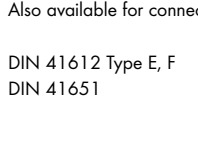
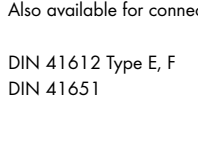
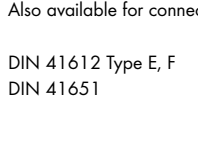
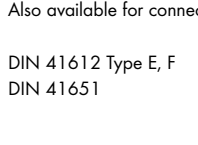
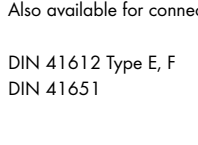
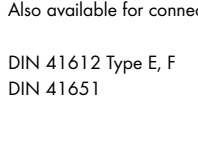
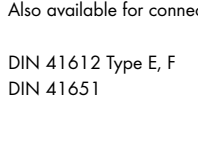
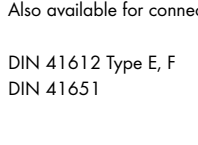
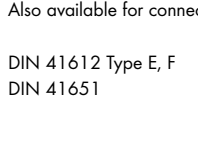
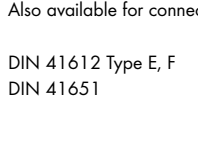
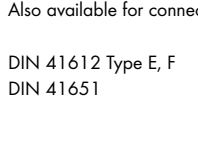
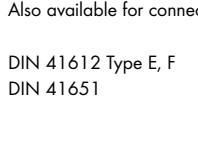
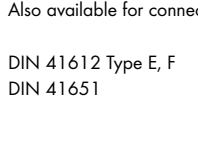
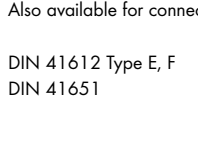


Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
					
1 changeover contact		1 changeover contact		4 changeover contacts	
788-303 12 VDC 20		788-324 20		858-304 1	
788-304 24 VDC 20		24 VDC		24 VDC	
788-305 48 VDC 20		788-528 20			
788-306 60 VDC 20		230 VAC			
788-307 110 VDC 20		(no illustration)			
					
1 changeover contact		2 changeover contacts		4 changeover contacts, gold-plated	
788-506 24 VAC 20		788-334 20		858-314 1	
788-507 115 VAC 20		24 VDC		24 VDC	
788-508 230 VAC 20		788-538 20			
		230 VAC			
		(no illustration)			
					
2 changeover contacts		1 make contact		4 changeover contacts	
788-311 12 VDC 20		788-355 20		858-508 1	
788-312 24 VDC 20		24 VDC		230 VAC	
788-313 48 VDC 20					
788-314 60 VDC 20				4 changeover contacts, gold-plated	
788-315 110 VDC 20				858-518 1	
				230 VAC	
					
2 changeover contacts		1 changeover contact, manual operation			
788-512 24 VAC 20		788-374 20			
788-515 115 VAC 20		24 VDC			
788-516 230 VAC 20					
					
1 changeover contact, with gold contacts		2 changeover contacts, manual operation			
788-404 24 VDC 20		788-375 20			
2 changeover contacts, with gold contacts		24 VDC			
788-412 24 VDC 20					
Accessories, 788 Series Appropriate marking system: WMB			Accessories, 858 Series Appropriate marking systems: WMB/Marking Strips		
					
Comb-style jumper bar,		Status indicator,		Holding bracket,	
2-way		with recovery diode		for industrial relays	
788-113 ① 200		788-120 24 VDC 1		858-110 8	
859-402 ② 200		788-121 48 VDC 1			
		788-122 110 VDC 1			
					
WMB Multi marking system		Status indicator,		Push-in type jumper bar,	
plain		with recovery diode		for the coil side	
793-501 5 cards		788-123 24 VAC 1		858-402 200	
1 ... 10 (10x)		788-124 115 VAC 1			
793-502 5 cards		788-125 230 VAC 1			
Socket, for relay (15 mm high)		Socket, for relay (25 mm high)		Socket, for relay (35 mm high)	
788-100 1		788-101 1		858-100 1	
RT 15, 1 changeover contact		RT 25, 1 changeover contact		RT 25, 4 changeover con-	
788-102 1		788-103 1		tacts	
RT 15, 2 changeover contacts		RT 25, 2 changeover contacts			

Rail-Mounted Relay Modules, 287 and 288 Series Interface Modules, 289 Series

Relay soldered/plugged	Interface module Terminal strips with CAGE CLAMP® (236 Series) Mounting carrier for DIN rail 35	Interface module Terminal strips with CAGE CLAMP® (736 and 737 Series) Mounting carrier for DIN rail 35
0.08 - 2.5 mm ² AWG 28 - 14	0.08 - 2.5 mm ² AWG 28 - 12	0.08 - 2.5 mm ² AWG 28 - 12
 5 - 6 mm / 0.22 in	 5 - 6 mm / 0.22 in	 5 - 6 mm / 0.22 in



Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit												
	2 changeover contacts Relay, soldered 288-512 1 24 VUC / 6 A 288-312 1 24 VDC / 6 A (no illustration)		Interface module with male header to DIN 41 651 289-501 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		Interface module for ribbon cable connector 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												
	2 relays, 1 changeover contact each , Relay, soldered 288-758 1 24 VUC / 6 A 288-761 1 115 VUC / 6 A 288-762 1 230 VAC / 6 A		Interface module with D-subminiature male connector for mating connectors with solder connection 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		Interface module with D-subminiature male connector 289-720 9-pole 1 289-721 15-pole 1 289-722 25-pole 1 289-723 37-pole 1												
	4 relays, 1 make contact each , Relay, soldered 287-474 1 24 VDC / 16 A					for mating connectors with IDC 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		Interface module with D-subminiature female connector 289-725 9-pole 1 289-726 15-pole 1 289-727 25-pole 1 289-728 37-pole 1									
	4 relays, 1 changeover contact each Relay, plugged 287-774 1 24 VDC / 6 A																
	8 relays, 1 changeover contact each Relay, plugged 287-834 1 24 VUC / 6 A 287-824 1 24 VDC / 6 A (no illustration)																
	16 relays, 1 changeover contact each Relay, plugged 287-853 1 12 VDC / 6 A 287-854 1 24 VDC / 6 A (no illustration)																
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	
																	

Pluggable Modules for Carrier Terminal Blocks 286 Series

Relays

- ① Module width: 10 mm / 0.394 in
- ② Module width: 15 mm / 0.591 in

Relays

- ② Module width: 15 mm / 0.591 in
- ② Module width: 20 mm / 0.787 in
- ④ Module width: 35 mm / 1.378 in

Optocouplers

- ② Module width: 15 mm / 0.591 in



Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
	① Relay with 1 make contact 286-364 1 24 VDC / 5 A 286-365 1 48 VDC / 5 A 286-366 1 60 VDC / 5 A		② Relay with 1 change-over contact 286-502 1 5 V AC/DC / 7 A 286-504 1 24 V AC/DC / 7 A 286-508 1 230 V AC/DC / 7 A		② 24 VDC input negative switching 286-700 1 5 VDC / 500 mA 286-701 1 15 VDC / 500 mA 286-702 1 24 VDC / 500 mA
	① Relay with 1 make contact 286-564 1 24 VAC / 5 A 286-566 1 115 VAC / 5 A 286-567 1 230 VAC / 5 A		③ Relay with 2 change-over contacts 286-310 1 5 VDC / 7 A 286-312 1 24 VDC / 7 A 286-316 1 24 VDC / 7 A		② 24 VDC input positive switching 286-750 1 5 VDC / 500 mA 286-751 1 15 VDC / 500 mA 286-752 1 24 VDC / 500 mA
	① Relay with 1 break contact 286-368 1 24 VDC / 5 A 286-369 1 48 VDC / 5 A 286-370 1 60 VDC / 5 A		③ Relay with 2 change-over contacts 286-510 1 5 VAC / 7 A 286-512 1 24 VAC / 7 A 286-516 1 230 VAC / 7 A		② 230 VAC input negative switching 286-704 1 5 VDC / 500 mA 286-706 1 15 VDC / 500 mA 286-708 1 24 VDC / 500 mA
	① Relay with 1 break contact 286-568 1 24 VAC / 5 A		④ Relay with 4 change-over contacts 286-375 1 24 VDC / 4 A		② 230 VAC input positive switching 286-754 1 5 VDC / 500 mA 286-756 1 15 VDC / 500 mA 286-758 1 24 VDC / 500 mA
	② Relay with 1 changeover contact 286-302 1 5 VDC / 7 A 286-304 1 24 VDC / 7 A 286-308 1 24 VDC / 7 A		④ Relay with 4 change-over contacts 286-578 1 110/120 VAC / 4 A 286-579 1 230 VAC / 4 A		② 24 VDC input 286-720 1 24 VDC / 2 A 286-721 1 24 VDC / 5 A

Accessories, 286 Series

Appropriate marking system: **WMB**



Terminal block for pluggable modules
0.08 - 2.5 mm²/
AWG 28 - 14

Strip length:
8 - 9 mm / 0.33 in

with 2-conductor terminal blocks, orange separator

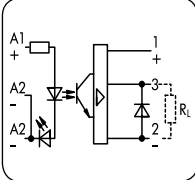
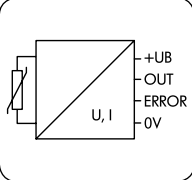
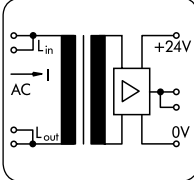
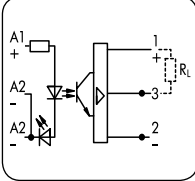
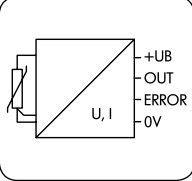
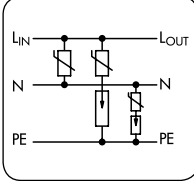
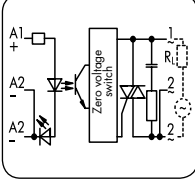
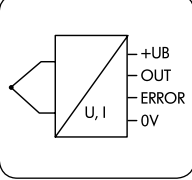
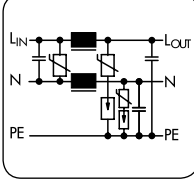
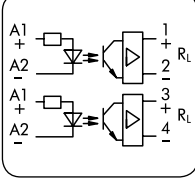
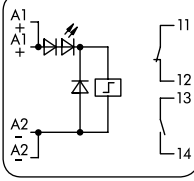
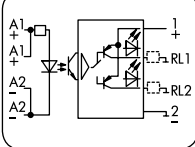
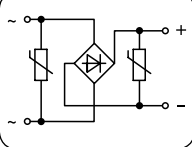
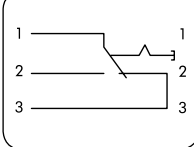
12 mm wide ①	280-618	1
17 mm wide ②	280-619	1
22 mm wide ③	280-638	1

with 4-conductor terminal blocks, orange separator

12 mm wide ①	280-608	1
17 mm wide ②	280-609	1
22 mm wide ③	280-628	1
37 mm wide ④	280-636	1

Optocouplers ② Module width: 15 mm / 0.591 in ② Module width: 20 mm / 0.787 in	Temperature transducers Bridge rectifiers ② Module width: 15 mm / 0.591 in ② Module width: 20 mm / 0.787 in	Overvoltage protection Latching relays Switching modules ② Module width: 15 mm / 0.591 in ② Module width: 20 mm / 0.787 in
---	--	---



Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
	② 24 VDC input positive switching 286-723 1 24 VDC / 4 A		⑥ Temperature transducer 2 conductors 286-860 1 0 - 10 V 286-861 1 0 - 20 mA 286-862 1 4 - 20 mA		③ AC current flow monitoring module 80 mA - 6 A AC 286-661 1
	② 110 VDC output negative switching 286-726 1 5 VDC 286-728 1 12 VDC 286-730 1 24 VDC		⑥ Temperature transducer 3 conductors 286-870 1 0 - 10 V 286-871 1 0 - 20 mA 286-872 1 4 - 20 mA		② Surge suppression device Single-stage suppression 286-836 1 24 V AC/DC 286-835 1 230 VAC 286-835/115-000 1 115 VAC
	② 230 VAC output 286-732 1 5 VDC 286-733 1 12 VDC 286-734 1 24 VDC		⑥ Temperature transducer Thermocouple J: 0-750°C 286-863 1 0 - 10 V 286-865 1 0 - 20 mA 286-867 1 4 - 20 mA		③ Surge suppression device Two-stage suppression 286-843 1 110/120 VAC 286-841 1 230 VDC 286-842 1 230 VAC
	③ 2 inputs 2 x 24 VDC 286-792 1 2 x 24 VDC / 2 x 500 mA		Thermocouple K: 0-1000°C 286-864 1 0 - 10 V 286-866 1 0 - 20 mA 286-868 1 4 - 20 mA		③ Latching relay 1 break and 1 make contact 286-571 1 24 VDC 286-570 1 230 VAC (no illustration)
	③ 24 VDC input 2 inverted outputs 286-790 1 2 x 24 VDC / 500 mA		② Bridge rectifier with varistor 286-830 1 24 VAC / 1 A 286-840 1 250 VAC / 1 A		② Switching module with changeover rocker switch 286-895 1 with momentary switch 286-896 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		X = 2-conductor, 50 mm/1.97 in
	Strip length: 8 - 9 mm / 0.33 in	20 mm wide ②		4-conductor, 73 mm/2.87 in
		25 mm wide ③		

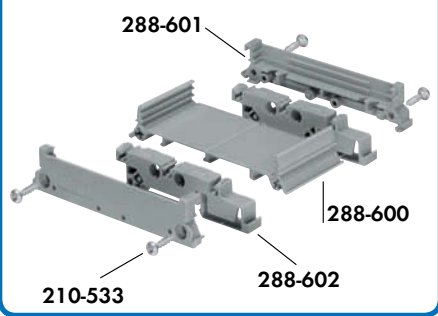
Mounting Carriers for DIN-Rail Mounting PCBs 288 Series

Mounting carrier,
type 1, 85 mm wide,
for DIN-rail mounting of
71.2 mm wide PCBs

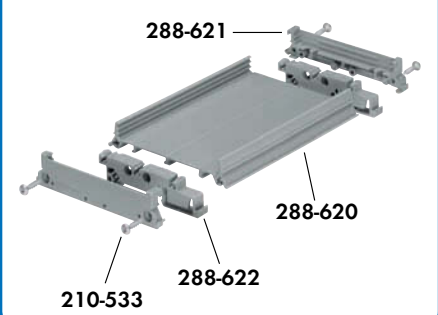
Mounting carrier,
type 2, 106 mm wide,
for DIN-rail mounting of
100 mm wide PCBs



Mounting carrier, type 1



Mounting carrier, type 2



Mounting carrier, type 2, high, with cover



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	
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.	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.	210-533 25
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			

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

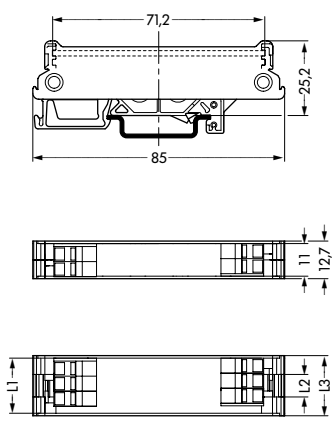
Free space between profile and PCB: 5 mm (when using upper groove)

PCB length: L1
Rail-mount profile length: L2 = L1 - 15.8 mm
Mounting carrier length: L3 = L1 + 2 mm
Cover length: L4 = L1

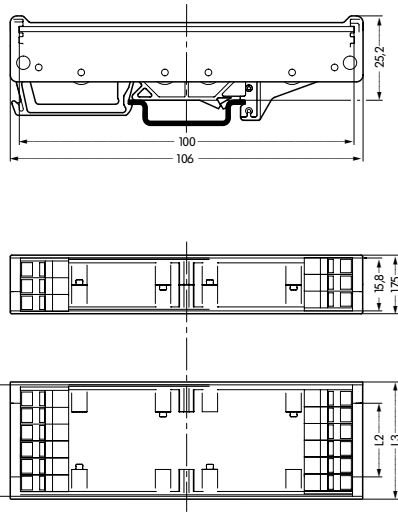
Lateral cover, type 2: 8.75 mm thick

Free space between profile and PCB: 5 mm

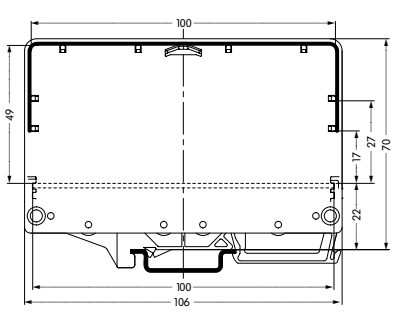
Mounting carrier, type 1



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.
---	---	--



Type 1



2



Type 4 3 2 1



Type 12 11 10 9

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			4-pole, 10 mm / 0.394 in wide		
			Plug inside dimensions: W/H/L (3.2/15/15) mm					
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			6-pole, 15 mm / 0.591 in wide		
			Plug inside dimensions: W/H/L (8.2/15/15) mm					
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			8-pole, 20 mm / 0.787 in wide		
			Plug inside dimensions: W/H/L (8.2/15/15) mm					
Empty component plug for through terminal blocks, 2002, 2004 and 2006 Series			Empty component plug for through terminal blocks			Type 12	286-113	1
Type 4	2002-880	50	Type 4	280-803	50	10-pole, 25 mm / 0.984 in wide		
2-pole, 10.4 mm/0.409 in wide			2-pole, 10 mm / 0.394 in wide			For PCB dimensions and component height, see drawing and table.		
			Plug inside dimensions: W/H/L (8.2/15/15) mm					

Accessories, 280, 286 and 2002 Series

2-cond. carrier terminal block, 5.2 mm wide		2-cond. carrier terminal block, 5 mm wide		Terminal block for pluggable modules, 2-cond., polarized, with orange separator	
	0.25 - 2.5 (4) mm ² /AWG 22 - 12 10 - 12 mm / 0.43 in gray 2002-1661 50		0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-916 100		0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in
4-cond. carrier terminal block, 5.2 mm wide		3-cond. carrier terminal block, 5 mm wide		4-pole, 12 mm wide 280-618 1	
	0.25 - 2.5 (4) mm ² /AWG 22 - 12 10 - 12 mm / 0.43 in gray 2002-1861 50		0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-610 100	6-pole, 17 mm wide 280-619 1	
2-cond. through terminal block, 5.2 mm wide		4-cond. carrier terminal block, 5 mm wide		8-pole, 22 mm wide 280-638 1	
	0.25 - 2.5 (4) mm ² /AWG 22 - 12 10 - 12 mm / 0.43 in gray 2002-1201 100		0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-686 100	10-pole, 27 mm wide 280-639 1	
3-cond. through terminal block, 5.2 mm wide		2-cond. through terminal block, 5 mm wide		Terminal block for pluggable modules, 4-cond., polarized, with orange separator	
	0.25 - 2.5 (4) mm ² /AWG 22 - 12 10 - 12 mm / 0.43 in gray 2002-1301 100		0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-901 100		0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in
4-cond. through terminal block, 5.2 mm wide		3-cond. through terminal block, 5 mm wide		4-pole, 12 mm wide 280-608 1	
	0.25 - 2.5 (4) mm ² /AWG 22 - 12 10 - 12 mm / 0.43 in gray 2002-1401 100		0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-681 100	6-pole, 17 mm wide 280-609 1	
		4-cond. through terminal block, 5 mm wide		8-pole, 22 mm wide 280-628 1	
			0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-833 100	10-pole, 27 mm wide 280-629 1	
		2-cond. terminal block, side-entry, 5 mm wide		1-cond./1-cond. block for pluggable modules, with orange separator	
			0.08 - 2.5 mm ² /AWG 28 - 14 8 - 9 mm / 0.33 in gray 280-101 100		0.08 - 4 mm ² /AWG 28 - 12 8 - 9 mm / 0.33 in
				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	
				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

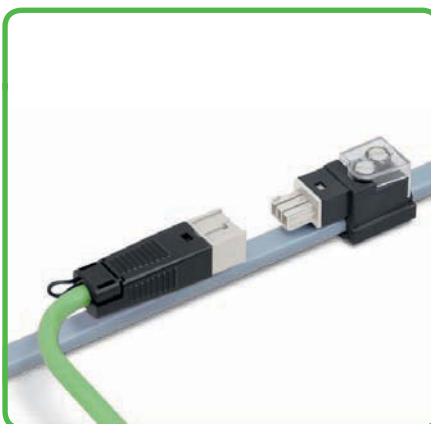
- KNX/EIB
- Control signals
- 0.8 mm Ø, 50 V, 3 A



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

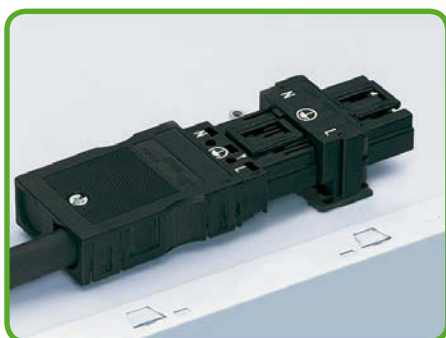
For round conduits and ducts

- 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

WINSTA® – The Connection System System Partners – A Strong Alliance



König + Neurath AG
Büromöbel-Systeme
Phone: +49 (0) 60 39/4 83-0
www.koenig-neurath.de
info@koenig-neurath.de



Lenneper GmbH & Co. KG
Phone: +49 (0) 22 61/54 09-0
www.lenneper.de
verkauf@lenneper.de



Cenit Leuchten GmbH
Phone: +49 (0) 23 35/
681381
www.cenit-leuchten.de
info@cenit-leuchten.de



Herbert Waldmann GmbH & Co. KG
Phone: +49 (0) 77 20/601-0
www.waldmann.com
info@waldmann.com



PUK-WERKE KG
Phone: +49 (0) 30/
6 82 83-01
www.puk-werke.de
vertrieb@puk-werke.de



Gera Leuchten GmbH
Phone: +49 (0) 3 66 06/
8 21-0
www.gera-leuchten.de
info@gera-leuchten.de



Andreas KARL GmbH & Co. KG
Phone: +49 (0) 81 33/17-0
www.karl.net.de
sales@karl.eu



Kontaktsysteme GmbH
Phone: +49 (0) 71 50/
95 50-0
www.kontaktsysteme.de
info@kontaktsysteme.de



Siteco Beleuchtungstechnik GmbH
Phone: +49 (0) 86 69/33-0
www.siteco.de
info@siteco.de



TEHALIT GmbH
Phone: +49 (0) 63 33/
9 92-0
www.tehalit.de
info@hager.de



LITE-LIGHT GmbH
Phone: +49 (0) 52 45/
4 43-0
www.lite-licht.de
info@lite-licht.com



Ludwig Leuchten KG
Phone: +49 (0) 82 33/
3 87-0
www.ludwig-leuchten.de
zen@ludwig-leuchten.de



Philips GmbH
Corporate Sector Lighting
Business Sector Lighting
Phone: +49 (0) 18 02/5 42 48
www.philips.de/leuchten
infocenter@philips.com



Electraplan Solutions GmbH
Phone: +49 (0) 40/8 39 90-0
www.electraplan-solutions.com
info@electraplan-solutions.de



norton armaturen
The Netherlands
Phone: +31 (0) 348/
471734
www.norton.nl



REGIOLUX GmbH
Phone: +49 (0) 95 25/89-0
www.regiolux.de
info@regiolux.de



RIDI Leuchten GmbH
Phone: +49 (0) 74 77/
8 72-0
www.ridi.de
info@ridi.de



Schulte-Elektrotechnik GmbH & Co KG
Phone: +49 (0) 23 51/94 81-0
www.schulte.com
info@schulte.com



Fagerhult Belysning Svenska AB
Sweden
Phone: +46 (0) 36/10 85 00
www.fagerhult.se
info@fagerhult.se



PROTON Lighting AB
Sweden
Phone: +46 (0) 370/
69 07 00
www.proton.se
lighting@proton.se



TRILUX GmbH + Co. KG
Phone: +49 (0) 29 32/
3 01-0
www.trilux.de
info@trilux.de



WILA Lichttechnik GmbH
Phone: +49 (0) 23 71/
8 23-0
www.wila.com
wila@wila.com



LICHTWERK GmbH
Phone: +49 (0) 9525/
98 27 0
www.lichtwerk.de
info@lichtwerk.de



ZUMTOBEL Lighting GmbH
Austria
Phone: +43 (0) 55 72/3 90-0
www.zumtobel.com
info@zumtobel.info



Veko Lichtsystems International BV
The Netherlands
Phone: +31 (0) 224/273273
www.veko.nl
info@veko.nl

Office buildings



Lab work stations



Rolling stock



Prefabricated houses



Shipbuilding



Trade show design



Airports

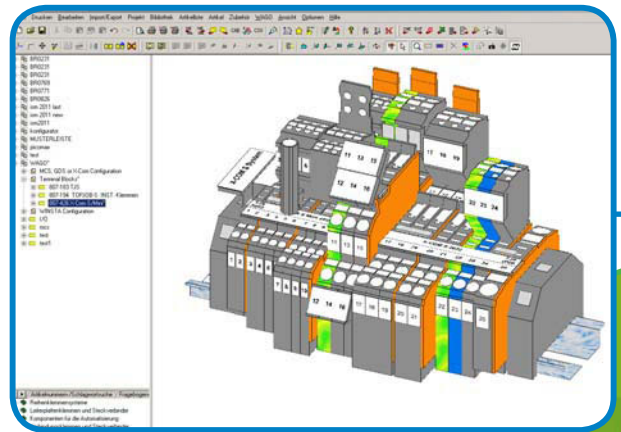
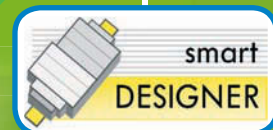


Motor homes



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!**ProServe® – Planning at****a New Level****smartDESIGNER****productLOCATOR****RUPLAN****ePLAN®****Engineering Base****E³
series****ELCAD**

smartDESIGNER and productLOCATOR

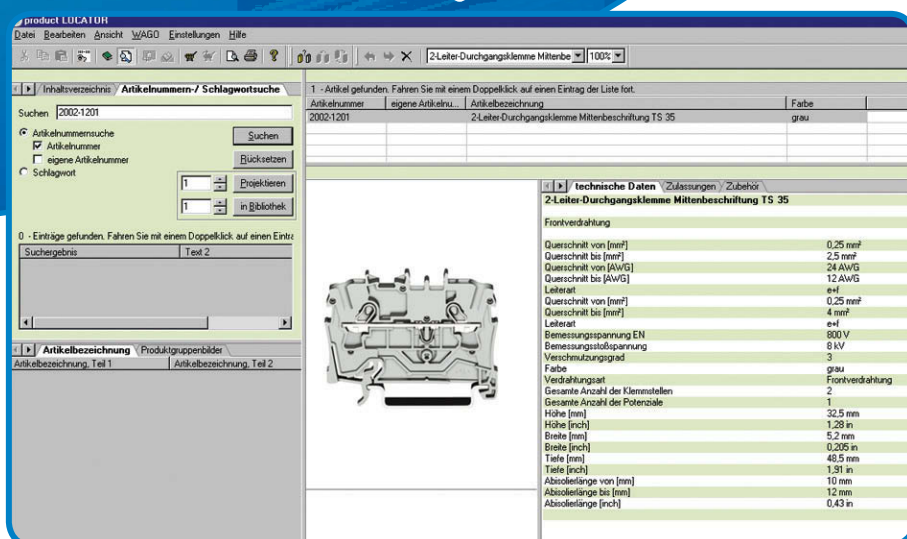
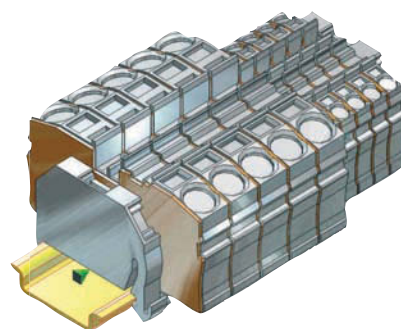
- Interfaces to CAE and M-CAD programs
- Output in PDF and HTML format
- Different search functions provide quick item selection
- Creation of part lists including product pictures and custom part numbers
- Complex rail assemblies can be easily designed in 3D
- Easy creation of custom part numbers
- Creating custom items to design third-party products
- 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

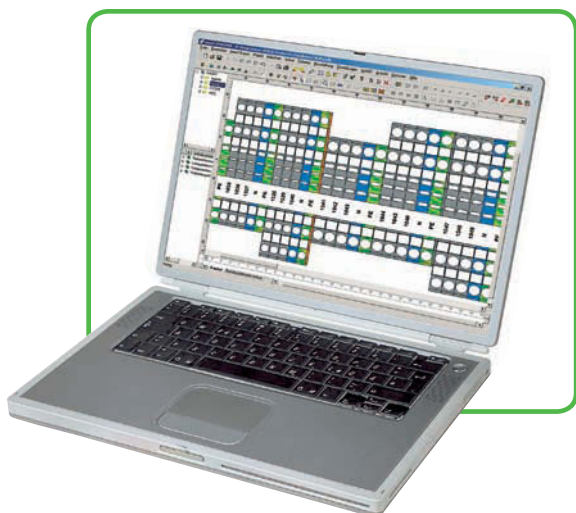
STEP – IGES – DXF – DWG

CAD



ProServe® Marking – Now Easier Than Ever

Configuration and marking of rail assemblies, stand-alone or in combination with CAE systems.



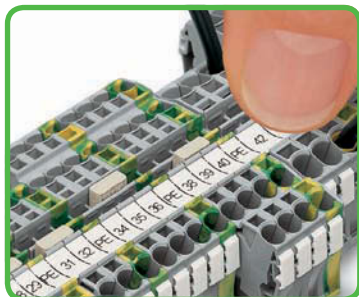
Designing:

Custom rail assemblies and markings can be designed easily via WAGO ProServe® Software.



Snapping:

Marker strip is snapped into center marker slot.



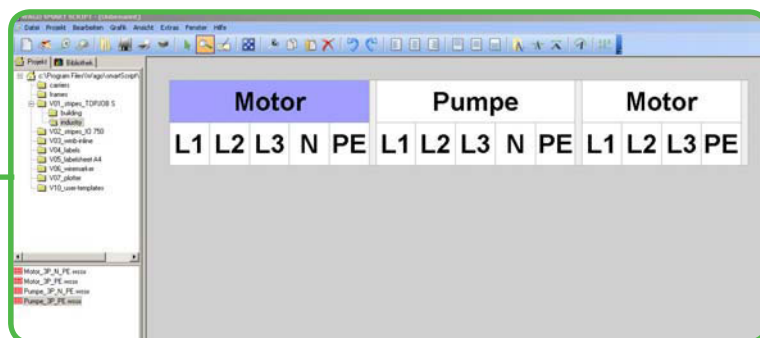
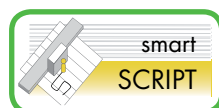
Combining marker strips
with single WMB markers.



Alternative:
Miniature WSB markers
can be printed on a plotter.

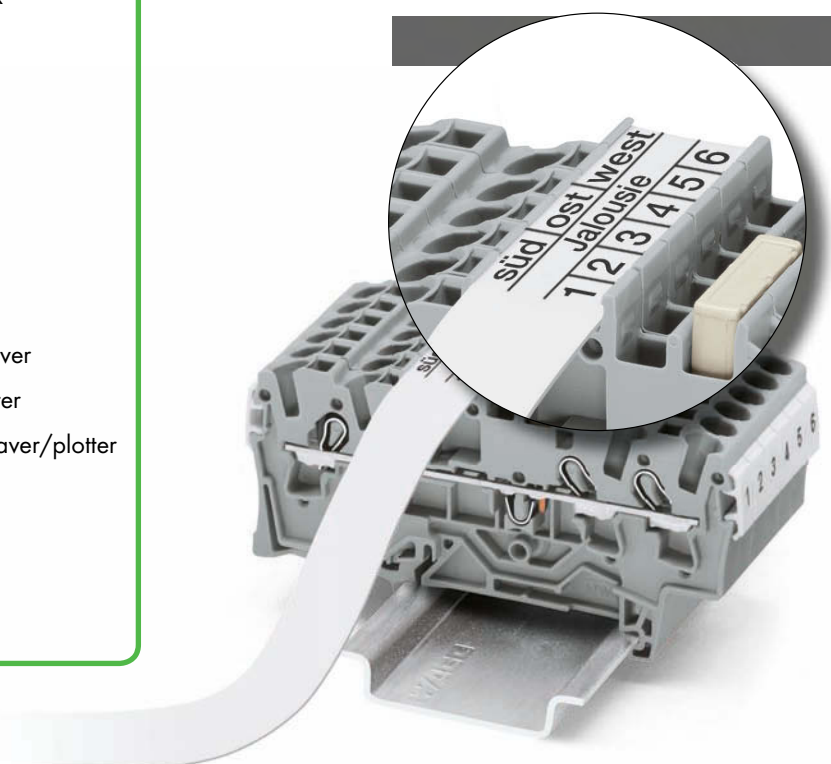


WMB Inline markers on continuous reel can be used in three positions:
in the center and on each side.



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.

Thermal Transfer Printers Plotters

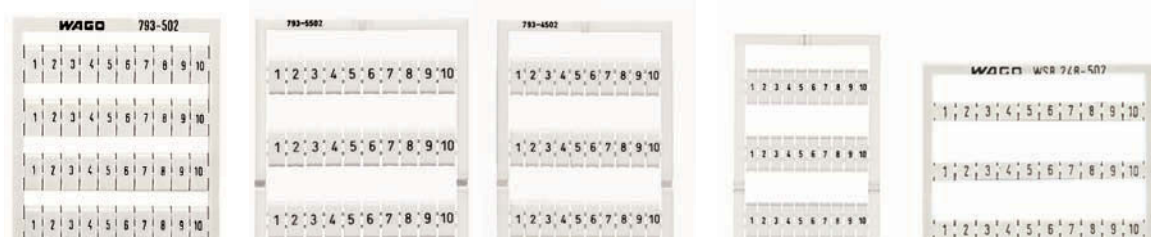
TP 343+ Thermal Transfer Printer Resolution: 300 dpi incl. ProServe® Software Dimensions (W x H x L): 230 x 200 x 290 mm	TP 298+ Thermal Transfer Printer Resolution: 300 dpi incl. ProServe® Software Dimensions (W x H x L): 242 x 274 x 446 mm	IP 350 A3 / IP 350 A4 Plotters EG 450 Engraver incl. ProServe® Software Dimensions (W x H x L): 125 x 660 x 440 mm
--	--	--



Description	Item No.	Description	Item No.	Description	Item No.
TP 343+ Thermal Transfer Printer	258-343	TP 298+ Thermal Transfer Printer	258-298	IP 350 A3 Plotter	258-350
		incl. print roller (258-178) for WMB Inline markers		IP 350 A4 Plotter	258-451
Printing method	Thermal/thermal transfer	Printing method	Thermal/thermal transfer	Maximum plot area	440 x 305 mm (A3)
Print head	Thin-film transfer head	Print head	Thick-film transfer head		220 x 305 mm (A4)
Print resolution	300 dpi	Print resolution	300 dpi	Interfaces	Parallel Centronics (LPT), USB 1.1
Print speed	up to 76 mm/sec.	Print speed	100 mm/sec.	Control language	based on HP-GL 7475A
Print width	6 - 104 mm (0.25" - 4.09")	Print width	108.4 mm	Data buffer	16 MB
Print length	up to 990 mm (39")	See-through/ reflective sensor	Standard	Speed	max. 400 mm/sec.
Memory	2 MB DRAM, 1 MB Flash	Processor (32-bit, ColdFire) /		Drive system	Two-phase stepper motor
Interfaces	ETHERNET 10/100, RS-232 (COM), USB	Clock rate	64 MHz	Pen storage unit	max. 4 pens (optimum seal)
Sensors	Label sensor (material end, foil end, bottom reflective sensor)	RAM	8 MB	Plotter pen	Special plotter pens with HP receptacle
Power supply	via external power supply unit	ROM	4 MB Flash	Addressable resolution	0.01 mm
Operating voltage	100 - 240 VAC	Slot for memory card	CompactFlash, Type 1	Repeat accuracy	0.05 mm
	50 - 60 Hz	Interfaces	ETHERNET 10/100 Base T, RS-232 (COM), USB	Power supply	via separate desktop power supply unit,
Dimension with unwinder	approx. 450 mm depth	Accessories (optional)	Cutter		equipped with exchange- able supply line
Housing	Double-walled plastic	Power supply	via external power supply unit	Operating voltage	120 - 240 VAC
Weight	approx. 1800 g	Operating voltage	100 - 240 VAC		50 - 60 Hz
Software	ProServe® Software; smartMARKING	Weight	approx. 1800 g	Voltage range	90 - 264 VAC
				Current consumption (internal)	0.3 A max. at 220 VAC
				Weight	approx. 8,000 g/17.63 lbs
Ink ribbon for marking strips		Ink ribbon for marking strips		WAGO disposable plotter pen	
Resin, 38 mm x 300 m	258-145	Resin, 38 mm x 300 m	258-145	0.18 mm line width	258-326
Resin, 50 mm x 300 m	258-149	Resin, 50 mm x 300 m	258-149	0.25 mm line width	258-327
Ink ribbon for labels		Ink ribbon for labels		0.35 mm line width	258-328
Resin/wax,		Resin/wax,		Carrier plate for:	
Width: 60 mm x 300 m	258-143	Width: 60 mm x 300 m	258-143	WSB 5 mm	258-361
Width: 100 mm x 300 m	258-144	Width: 100 mm x 300 m	258-144	WSB 4 mm	258-362
Ink ribbon for wire markers		Ink ribbon for wire markers		Miniature WSB	258-363
76 mm wide x 300 m	258-150	76 mm wide x 300 m	258-150	Group marker carrier (209-112)	258-364
100 mm wide x 300 m	258-157	100 mm wide x 300 m	258-157	WMB (3.5 mm/4 mm /5 mm)	258-368
Carrying case for TP 343		Cutter for TP 298+	258-161	Marker tags (210-199/200)	258-369
Retractable handle for carrying case		Spare roller for TP 298+ labels	258-177	WAGO marker cards (210-110/120)	258-370
Software for Printers		Spare roller for TP 298+ WMB Inline		For other receptacles, please contact factory.	
ProServe® Software,		Carrying case for TP 298+			
WAGO smartDESIGNER		Retractable handle for carrying case			
WAGO smartSCRIPT					
WAGO productLOCATOR					
CD-ROM 888-402/510-000					

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
--	--	---



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
for triple-deck terminal blocks				light green	... /000-017
1, 4, 7, ..., 88 and 2, 5, 8, ..., 89 and 3, 6, 9, ..., 90 and 91, 94, 97, ..., 99 (1x)	794-557	794-5557	–	green	... /000-023
				violet	... /000-024

WMB marker slot



WMB

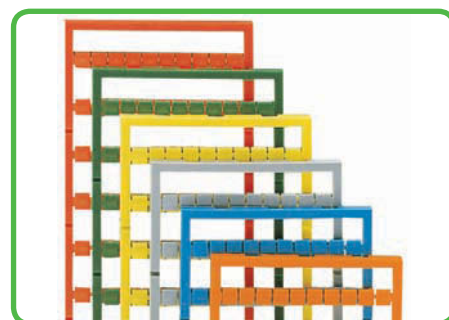
Miniature WSB marker slot



Miniature WSB



WMB



Marking Strips Marker Cards Computer Marking

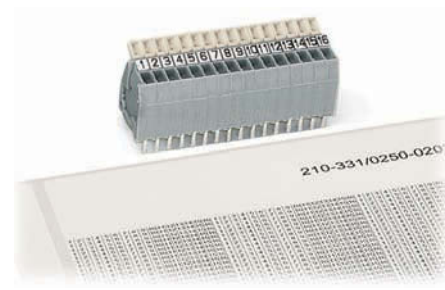
Thermal Transfer Printers
Plotters

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



Description	Item No.	Marking	Item No.	Pack. Unit	Marking	Item No.	Pack. Unit
Marking strip, for TOPJOB®S,		for 2-conductor terminal strips (260 Series)			suitable for terminal strips with		
white, plain, 11 mm wide,		1 - 10 (120x)	210-333/0500-0002	1 card	2.5 mm pin spacing, 2.3 mm strip height/100 strips		
50 m coil	2009-110	11 - 20 (120x)	210-333/0500-0003	1 card	1 - 16 (400x)	210-331/0250-0202	1 card
		21 - 30 (120x)	210-333/0500-0004	1 card	17 - 32 (400x)	210-331/0250-0204	1 card
		31 - 40 (120x)	210-333/0500-0005	1 card	33 - 48 (400x)	210-331/0250-0206	1 card
		41 - 50 (120x)	210-333/0500-0006	1 card			
Marking strip,					2.54 mm pin spacing, 2.3 mm strip height/100 strips		
for 870, 869, 862, 270 Series		for 4-conductor terminal strips (260 Series)			1 - 16 (400x)	210-331/0254-0202	1 card
white, plain, 7.5 mm wide,		1 - 10 (80x)	210-333/0800-0002	1 card	17 - 32 (400x)	210-331/0254-0204	1 card
50 m coil	709-178	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			
		31 - 40 (80x)	210-333/0800-0005	1 card	3.5 mm pin spacing, 3 mm strip height/80 strips		
		41 - 50 (80x)	210-333/0800-0006	1 card	1 - 16 (240x)	210-332/0350-0202	1 card
					17 - 32 (240x)	210-332/0350-0204	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		
		13 - 24 (80x)	210-333/0600-0104	1 card	1 - 16 (160x)	210-332/0381-0202	1 card
		25 - 36 (80x)	210-333/0600-0105	1 card	17 - 32 (160x)	210-332/0381-0204	1 card
		37 - 48 (80x)	210-333/0600-0106	1 card	33 - 48 (160x)	210-332/0381-0206	1 card
WMB Inline,		for 4-conductor terminal strips (261 Series)					
5 mm pitch, stretchable 5 - 5.2 mm, on roll		1 - 16 (40x)	210-333/1000-0202	1 card	5 mm pin spacing, 3 mm strip height/80 strips		
		17 - 32 (40x)	210-333/1000-0204	1 card	1 - 16 (160x)	210-332/0500-0202	1 card
		33 - 48 (40x)	210-333/1000-0206	1 card	17 - 32 (160x)	210-332/0500-0204	1 card
					33 - 48 (160x)	210-332/0500-0206	1 card
		for 2-conductor terminal strips (262 Series)					
		1 - 20 (40x)	210-333/0700-0020	1 card	5.08 mm pin spacing, 3 mm strip height/80 strips		
		21 - 40 (40x)	210-333/0700-0108	1 card	1 - 16 (160x)	210-332/0508-0202	1 card
		41 - 60 (40x)	210-333/0700-0109	1 card	17 - 32 (160x)	210-332/0508-0204	1 card
					33 - 48 (160x)	210-332/0508-0206	1 card
		for 4-conductor terminal strips (262 Series)					
		1 - 12 (40x)	210-333/1200-0103	1 card	7.5 mm pin spacing, 3 mm strip height/80 strips		
		13 - 24 (40x)	210-333/1200-0104	1 card	1 - 20 (80x)	210-332/0750-0020	1 card
		25 - 36 (40x)	210-333/1200-0105	1 card			
		37 - 48 (40x)	210-333/1200-0106	1 card	7.62 mm pin spacing, 3 mm strip height/80 strips		
					1 - 20 (80x)	210-332/0762-0020	1 card
					10 mm pin spacing, 3 mm strip height/80 strips		
					1 - 16 (80x)	210-332/1000-0202	1 card
					17 - 32 (80x)	210-332/1000-0204	1 card
					33 - 48 (80x)	210-332/1000-0206	1 card
		Self-adhesive marking strips					
		on DIN A4 cards,			10.16 mm pin spacing, 3 mm strip height/80 strips		
		plain, 182 mm long,			1 - 16 (80x)	210-332/1016-0202	1 card
		selectable pin spacing			17 - 32 (80x)	210-332/1016-0204	1 card
		2.3 mm strip height/100 strips	210-331		33 - 48 (80x)	210-332/1016-0206	1 card
		3 mm strip height/80 strips	210-332				
		5 mm strip height/48 strips	210-334				
		6 mm strip height/40 strips	210-333				
		9 mm strip height/40 strips	210-335				

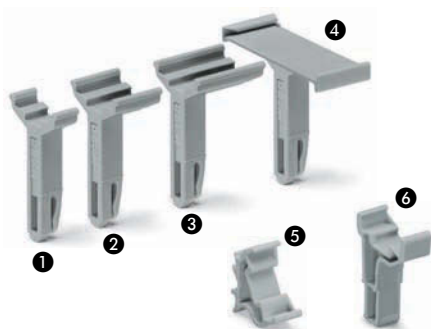


Group Marker Carriers End Stops

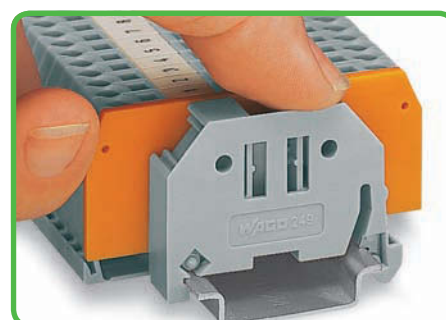
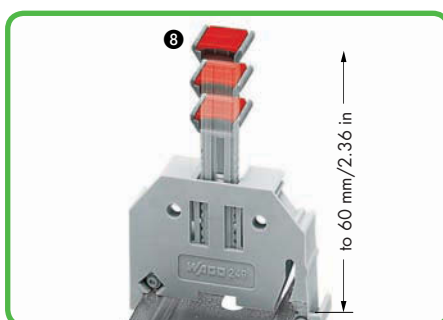
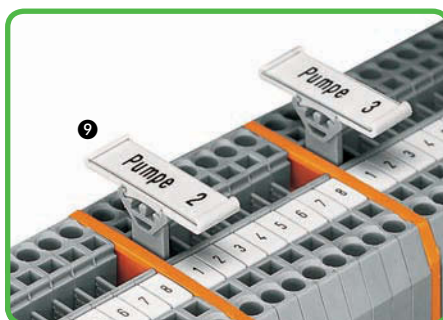
6

185

TOPJOB®S Group Marker Carriers	Group Marker Carriers	Screwless End Stops for DIN 35 Rail
--------------------------------	-----------------------	--



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	
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	
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)			
TOPJOB®S group marker carrier snap-on type for jumper slot, for marking strips		249-118 ⑧	100 (4x25)		
10 mm wide 2009-196 ④	50 (2x25)	Group marker carrier, fits into jumper slot of rail- mounted terminal blocks, for up to 3 WMB markers			
		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			
5 mm wide 2002-161 ⑥	100 (4x25)	209-113 ⑪	1 sheet		
		Sticker, for self-marking, 100 markers per sheet			
		210-345	1 sheet		
		Protection cover, transparent			
		209-114 ⑫	50		



6

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

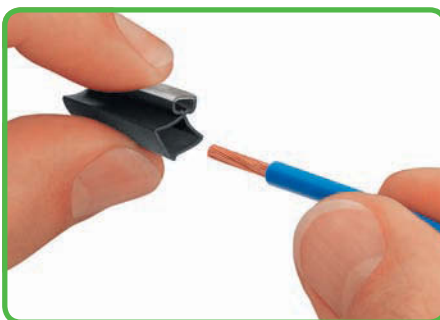
Marking sleeve, halogen-free,
for cable tie,
for one marker,
can also be fitted after install



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	 Slide the plotted or printed marker into the marking sleeve receptacle. Exchanging the marker is also possible after the conductor has been terminated.	
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		Carrier plate for marker cards for IP 350 plotter			
 258-370	1	 258-370	1		
Applications					



Conductor marking using marking sleeves.



Compress the sleeve and slide it onto the conductor to be marked.



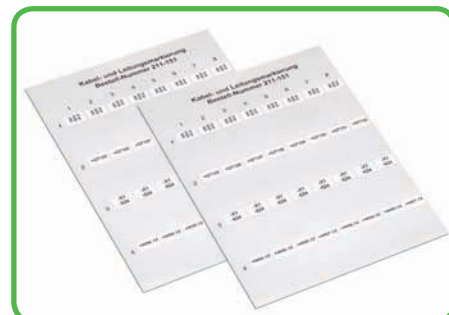
Attach the 211-129 marking sleeve to individual cables or conductors via cable ties.

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



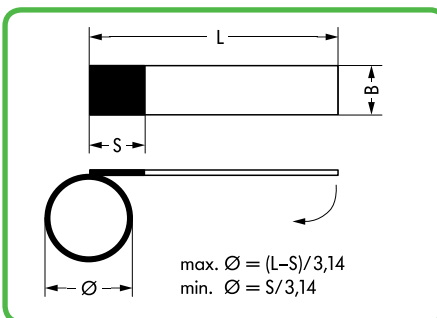
Self-laminating labels are available on A4 sheets for laser printers (plotters) or are supplied on roll for thermal transfer printers.

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

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

Cover and cover carrier, type 1, suitable for: 279 to 282 Series rail-mounted terminal blocks 264 Series miniature rail-mounted terminal blocks	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 trans- former circuits	Switchgear cabinet outlet Switchgear cabinet drawer Collective carrier for adjacent jumpers
---	---	---



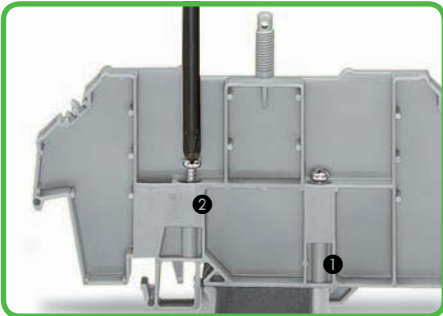
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Cover, type 1, 1 m long, for cover carrier (type 1), transparent			Cover, type 2, 1 m long, for cover carrier (type 2), transparent			Switchgear cabinet outlet, DIN 35-rail mount SCHUKO outlet, with green operating LED		
	709-153	10		709-154	1		709-581	1
						Switchgear cabinet drawer, DIN 35-rail mount drawer		
							709-591	1



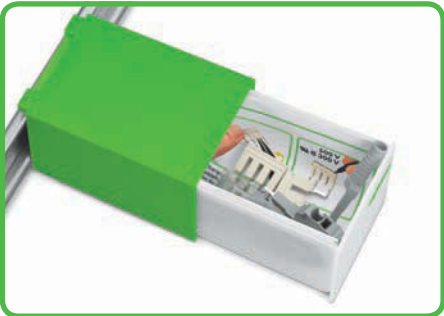
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Cover carrier, type 1, incl. mounting/securing screws and knurled nuts gray			Cover carrier, type 2, incl. mounting/securing screws and knurled nuts gray			Collective carrier for adjacent jumpers gray		
	709-167	10		709-168	10		209-100	50 (2x25)
						Suitable for 279, 280, 281, 282 and 284 Series adjacent jumpers and 215 Series banana plugs		
Accessories, 709 Series								
Spare mounting/securing screw 			Marking card with 6 marking strips, 					
	209-196	200 (8x25)		plain 709-183	1			
Spare knurled nut 								
	210-549	100 (4x25)						



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

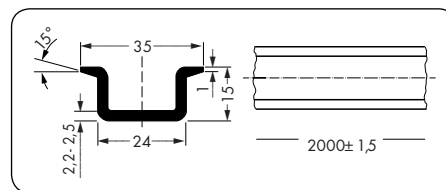
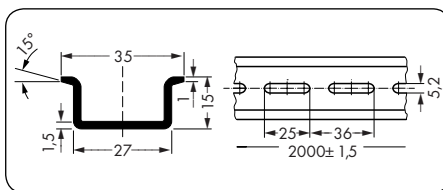
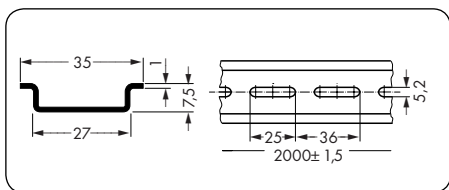
Carrier rail 35 x 7.5 mm,
1 mm thick,
acc. to IEC 60715,
steel, zinc-plated and yellow chromated
I_N 76 A (reference length of 1 m)

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			Steel carrier rail 35 x 15 mm, 1.5 mm thick, unslotted			Steel carrier rail 35 x 15 mm, 2.3 mm thick, unslotted		
2 m long	210-113	10	2 m	210-114	10	2 m	210-118	10
Steel carrier rail 35 x 7.5 mm, 1 mm thick, slotted			Steel rail 35 x 15 mm, 1.5 mm thick, slotted					
2 m long	210-112	10	2 m	210-197	10			



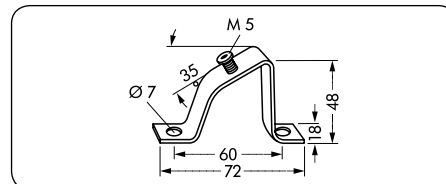
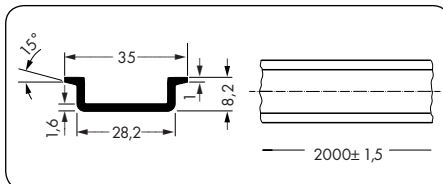
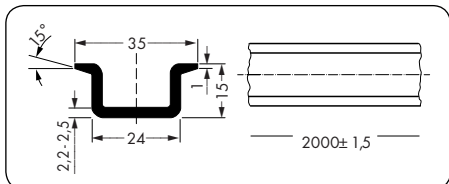
Carrier rail 35 x 15 mm,
2.3 mm thick,
acc. to IEC 60715,
copper, unplated
IN 309 A (reference length of 1 m)

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			Aluminum carrier rail 35 x 7.5 mm, 1.5 mm thick, unslotted			Angled support bracket, without screw	
2 m long	210-198	10	2 m long	210-196	10	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®
--	--	---

[illegible]

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.



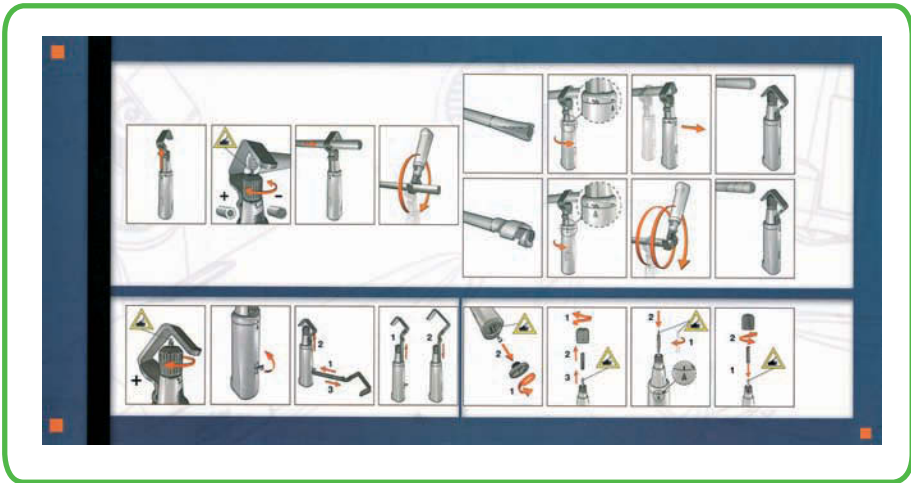
The above-listed operating tools with blade dimensions to DIN 5264 are ideal for operating 280 Series front-entry sensor and actuator terminal blocks.

Cable and Wire Strippers
206 Series

Cable stripper	Cable stripper	"Quickstrip 10" wire stripper 0.02 – 10 mm ² "f-st" (6 mm ² "sol.") "Quickstrip 16" wire stripper 4 – 16 mm ² Wire cutter up to 10 mm ² "f-st" (1.5 mm ² "sol.")
----------------	----------------	---



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 206-124 1	
206-171 1		206-174 1		"Quickstrip 16" wire stripper 206-125 1	
Accessories, Item-Specific		Accessories, Item-Specific		Accessories, Item-Specific	
Replacement blade, for 2.5 mm to 11 mm Ø 206-170 1		Replacement blade, for 4.5 mm to 45 mm Ø 206-173 1		"Standard" blade cassette 0.02 mm ² to 10 mm ² 206-126 1	
- 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.		- 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.		"V" blade cassette 0.02 mm ² to 4 mm ² for PTFE 206-127 1	
				"Standard" blade cassette 4 mm ² to 16 mm ² 206-128 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 mm ² AWG 28 – 14 42 V I _N 20 A  9 – 11 mm / 0.39 in
--------------	---------	---



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,	
206-118	10(10x1)	206-804	1	215-111	50
				orange, blue, yellow, white, black	
				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
--	--	--



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 ² 206-250	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
		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
		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

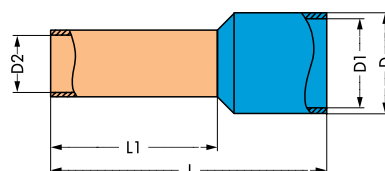


Squeeze handles until ratchet mechanism is released.

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)



D

E

F

GHJLM

Mounting carriers for PUSH WIRE® connectors	
– 222 Series	93
– 243 Series	89
– 773 Series	91

	Page
MULTI CONNECTION SYSTEM	
MAXI 100 % protection against mismatching – 7.62 mm pin spacing	104 - 105
MICRO 100 % protection against mismatching – 2.5 mm pin spacing	95
MIDI 100 % protection against mismatching – 5 mm / 7.5 mm pin spacing	101 - 103
MIDI Classic	
Pin spacing	
– 5 mm and 5.08 mm	107 - 112
– 7.5 mm and 7.62 mm	107 - 112
MINI 100 % protection against mismatching	
Pin spacing	
– 3.5 mm	96 - 98
– 3.81 mm	96 - 98
MINI HD	
3.5 mm pin spacing	99, 100
– Accessories	92 - 94
Multilevel PCB terminal strips	
– Double-/triple-deck terminal blocks	122
– Quadruple-deck terminal blocks	123
Multilevel rail-mounted terminal blocks	
– Double-deck terminal blocks	33, 34, 60, 61
– Triple-deck terminal blocks	35, 62
– Quadruple-deck terminal blocks	35, 63
O	
Operating levers	97, 98, 112
Operating tools	190
Optocoupler modules	
– as rail-mounted terminal blocks	164
– pluggable	168 - 169
P	
PCB terminal blocks and PCB terminal strips	
– with CAGE CLAMP® connection	Section 2
– with PUSH WIRE® connection	Section 2
– SMD	129
PCB terminal strips	
– with push-buttons	138
– with locking slides	115
– as double-deck terminal blocks	122
– as triple-deck terminal blocks	122 - 123
– quadruple-deck	123
– f.-e.	Section 2
– f.-e. and s.-e.	118 - 119
– High-current terminal blocks	124 - 128
– with finger-operated levers	Volume 2
– s.-e.	119, 130
– 1-conductor	Section 2
– 2-conductor	135
PERSPECTO®	153
PLC – Programmable fieldbus controllers	144
PUSH WIRE® connection	88 - 92
Power supplies	156 - 157
Printers	
Thermal transfer printers	182
PROFIBUS® fieldbus coupler	144
ProServe® DVD	
WAGO services	182
ProServe® software	182
PUSH WIRE® connectors for junction boxes	88 - 93
PUSH WIRE® connectors for junction boxes, MICRO	89

Q

Quadruple-deck terminal blocks for PCBs	123
Quadruple-deck rail-mounted terminal blocks (for fast electric motor wiring)	35, 63

R

Rail-mounted terminal blocks	
– with CAGE CLAMP® connection	51 - 57
– with CAGE CLAMP®S connection	25 - 45
Rail-mounted terminal blocks for electric motor wiring (quadruple-deck)	63
Relay modules	
– Terminal blocks	164
– DIN-rail mountable	166 - 167
– pluggable	168
Relay socket	
– DIN-rail mountable	166

S

Sensor and sensor LED terminal blocks	
– Rail-mounted terminal blocks	72
Service and programming software	145
“Service” connectors	92
Shield connecting system, shield clamping saddle	158
Shield terminal blocks, horizontal type	51 - 54
SMD terminal blocks	129
Specialty I/O modules	148
Staggered jumpers for rail-mounted terminal blocks	27, 28, 34, 52 - 54
Step-down jumper	55 - 57
Strain relief housings	
for MULTI CONNECTION SYSTEM MIDI	113
for MULTI CONNECTION SYSTEM MINI	113
Strain relief plates	
for MULTI CONNECTION SYSTEM MIDI	113
for MULTI CONNECTION SYSTEM MICRO	95
for MULTI CONNECTION SYSTEM MINI	113
Stripping tools	192
Subsidiaries and representatives	214
Supply module	148
Surge suppression modules	
– Terminal blocks	165
– pluggable	169
Switching modules, changeovers	
– pluggable	169
Switching relay modules	
– as rail-mounted terminal blocks	164
– DIN-rail mountable	164, 167
– pluggable	168
System I/O modules	148

T

Temperature converter modules	169
Terminal block marking	Section 6
Terminal blocks for pluggable modules, f.-e.	168 - 169
Terminal strips and modular terminal blocks with fixing flanges or snap-in mounting feet	
– f.-e.	87
– s.-e.	85

T

TESTBOY	193
Test plug adapter for	
– PCB terminal blocks	
of 255, 256, 257 Series	Volume 2
– Miniature rail-mounted terminal blocks	85
– Rail-mounted terminal blocks	25 - 32, 51 - 57
Test plug for rail-mounted terminal blocks	55
Through terminal blocks, f.-e.	
angled type	53
– for transformer circuits	69
– suitable for fuse terminal blocks for mini-automotive blade-style fuses	66
horizontal type	25 - 27, 29 - 32
– as double-deck terminal blocks	33, 34, 60 - 61
– as triple-deck terminal blocks	35, 62
– Distribution terminal blocks	63
Through terminal blocks, miniature, for DIN 35 rail	87
Through terminal blocks, s.-e.	81 - 83
– High-current terminal blocks	59
TOPJOB®S rail-mounted terminal blocks	25 - 43
TO-PASS® telecontrol solutions	154
Transformer terminal blocks	68 - 69
Transient suppression devices	
– Terminal blocks	165
– pluggable	169
Triple-deck terminal strips for PCBs	122, 123
Triple-deck	
– rail-mount terminal blocks, f.-e.	35, 62
– diode terminal blocks	43
Tools	Section 6
2-conductor female plugs MULTI CONNECTION SYSTEM	
– 100 % protection against mismatching	Volume 2
– Standard version	Volume 2

V

Voltage tester	191
----------------	-----

W

WAGO worldwide	214
WAGO-I/O-CHECK	145
WAGO-I/O-PRO	145
WAGO-I/O-SYSTEM	Section 3
WINSTA®	Section 5
Wire jumpers for rail-mounted terminal blocks	
– pluggable	51 - 54
WMB Multi marking system	183

X

X-COM®-SYSTEM	76 - 79
X-COM®S-SYSTEM	44 - 45

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		
	Underwriters Laboratories USA http://www.ul.com	cURus		Danmarks Elektriske Materielkontrol Denmark http://www.cenelec.org	CCA App. No. with DK
	Underwriters Laboratories USA http://www.ul.com	cULus		SETI – FEMKO Sähkötarkastuskeskus Elinspektionscentralen Finland http://www.seti.fi	
	Canadian Standards Association Canada http://www.csa.ca	CSA		Sähkötarkastuskeskus 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		
	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		Elektrotechnick ý v ýskumn ý a projektov ý ústav Czech Republic http://www.ezu.cz	EZU
CENELEC CERTIFICATION AGREEMENT CCA				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'Études des Télécommunications France http://www.lannion.cnet.fr	CNET	 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 Ustav, 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	 Physikalisch Technische Bundesanstalt Germany Ex e IIEx 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 Materialen Netherlands http://www.kemaquality.com	KEMA-EX
 NV – Det Norske Veritas Norway http://www.dnv.com	DNV	GOSENERGO-Ex GOSENERGONADZOR Russia	GOSENER GO-EX
 Russian Maritime Register of Shipping CIS http://www.rs-head.spb.ru	RMR	 Fyzikálne Technick ý Zkusebn ý Ustav, Ostrava-Radvanice Czech Republic http://www.ftzu.cz	FTZU
 Polski Rejestr Statków Poland http://www.prs.pl	PRS	 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		

Approvals – User Guide

Updated approvals can be found at www.wago.com



• 1: Select “Country” ①



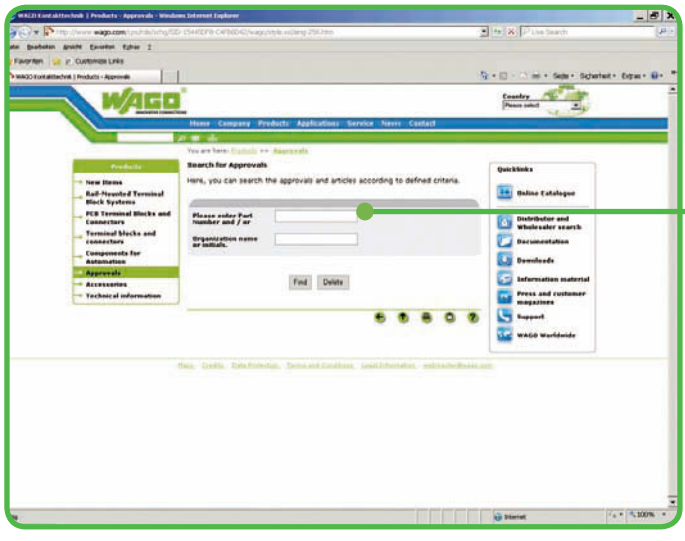
e.g., United Kingdom



• 2: Select “Products”



Select “Approvals”

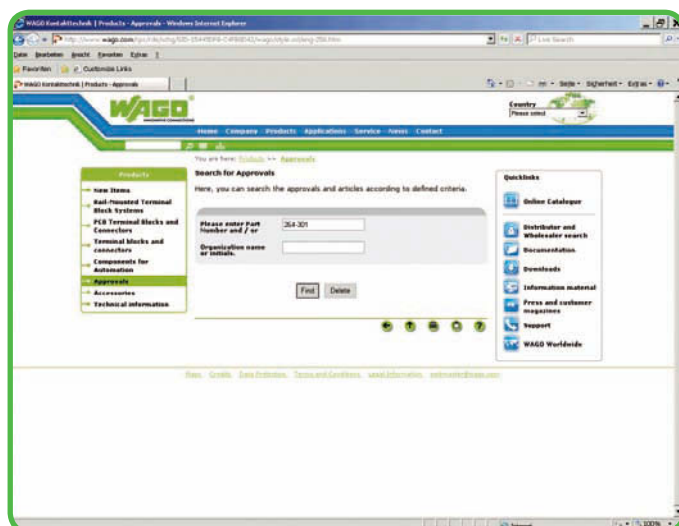


• 3: “Search for Approvals”



Here, you can search the approvals and items according to defined criteria.

① Step 1 is only required if the country has not been detected automatically.



• 4: Entry Options

a) Item Number
e.g., 264-301

b) Certification Agency
e.g., "UL"

c) Certification Agency and Item Number Range; e.g., "280 - 6" and "UR"

Part Number	Organization	Approval No.	Voltage [V]	Current [A]	Wire Size [mm ²]
264-301	ABS	04-HG476174/1-PDA	800	24	2,5
264-301	BV	07436/C0			0,08-2,5
264-301	CCA	NL6511	800	24	2,5
264-301	CSA	18677-23	600	20	26-12
264-301	DNV	E-9215	800	24	2,5
264-301	GL	17295-00HH	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	600/600	20/20	28-12

Search Result a)
Item Number:

All approvals related to that product will be displayed.

Part Number	Organization	Approval No.	Voltage [V]	Current [A]	Wire Size [mm ²]
222-412	UL	E69654	600	20	20-12"s", "str"
222-413	UL	E69654	600	20	20-12"s", "str"
222-415	UL	E69654	600	20	20-12"s", "str"
224-101	UL	E69654	300	20	14-12"s"/20-16"s"/"str"
224-104	UL	E69654	300	20	14-12"s"/20-16"s"/"str"
224-112	UL	E69654	300	20	18-16"s"/20-16"s"/"str"
224-114	UL	E69654	300	20	18-16"s"/20-16"s"/"str"
224-201	UL	E69654	300	20	20-16
273-100	UL	E69654	600	20	20-16"s"
273-101	UL	E69654	600	20	20-16"s"

Search Result b)
Certification Agency:

All products approved by that agency will be displayed.

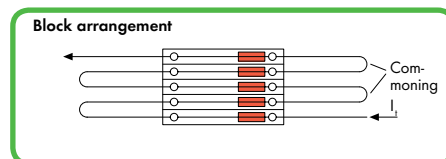
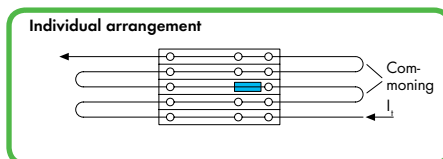
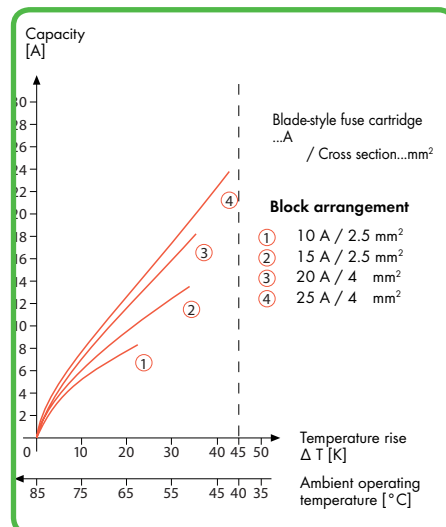
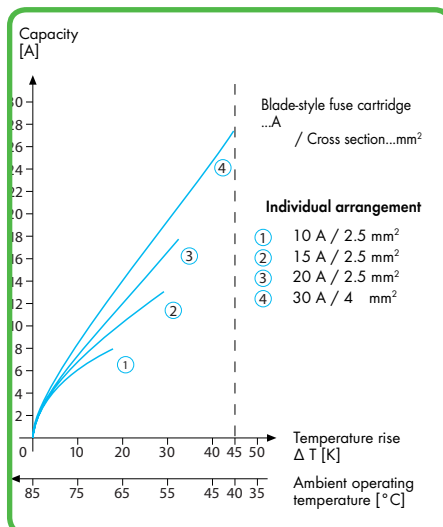
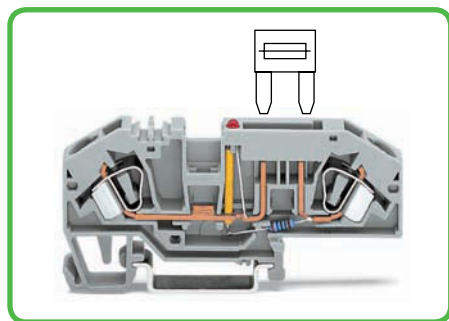
Part Number	Organization	Approval No.	Voltage [V]	Current [A]	Wire Size [mm ²]
280-601	UR	E45172	600/600	20/20	28-12
280-602	UR	E45172	600/600	20/20	28-12
280-603	UR	E45172	600/600	20/30	28-12
280-604	UR	E45172	300/300	15/15	28-12
280-606	UR	E45172	300/300	10/10	28-12
280-607	UR	E45172			28-12
280-610	UR	E45172	300/300	10/10	28-12
280-612	UR	E45172	300/300	15/15	28-12
280-616	UR	E45172	300/300	10/10	28-12
280-621	UR	E45172	300/300	15/15	28-12

Search Result c)
Certification Agency and Item Numbers:

The whole range of products approved by that agency will be 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:

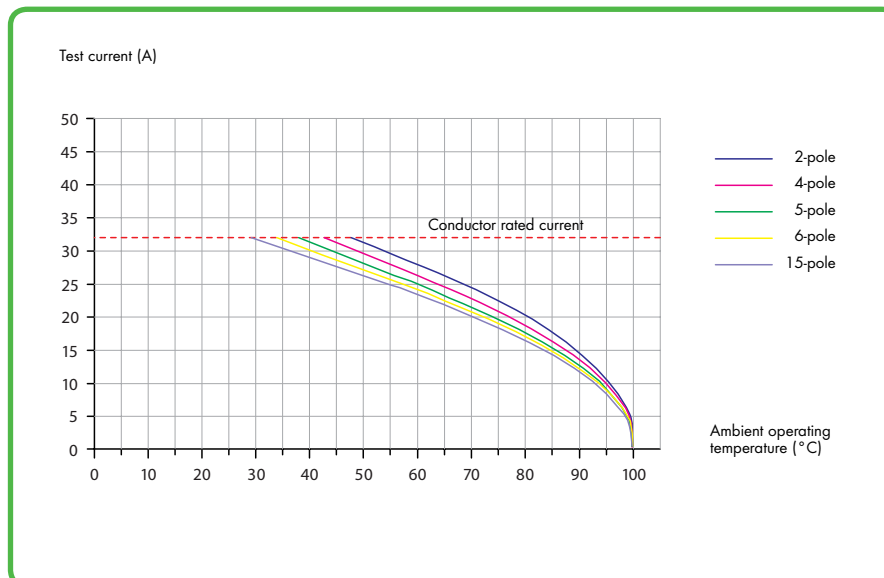


Current-Carrying Capacity Curves for 1-Conductor/1-Pin and 2-Pin Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

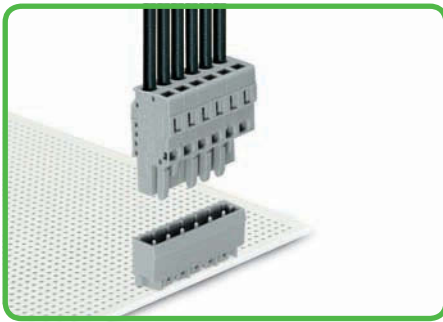


2-cond./1-pin carrier terminal block 769-176
Conductor size: 4 mm²/AWG 12

1-conductor female plugs 769-102 to 769-115
Conductor size: 4 mm²/AWG 12
Conductor loop length: 1 m



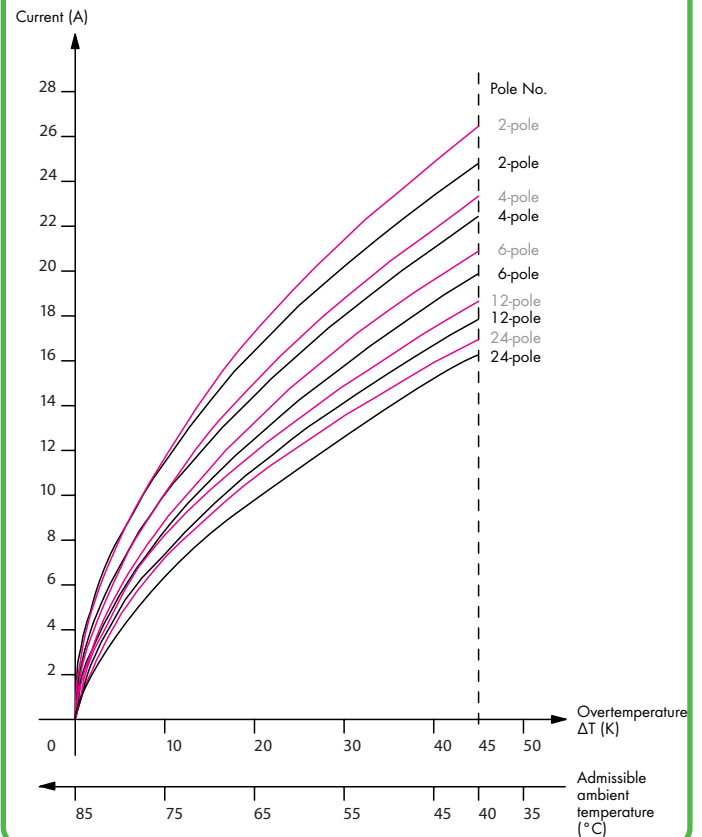
Current-Carrying Capacity Curves for Connectors with CAGE CLAMP® MULTI CONNECTION SYSTEM – MIDI



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 mm²/AWG 14 "fst"	on PCB side commoned with 2.5 mm²/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

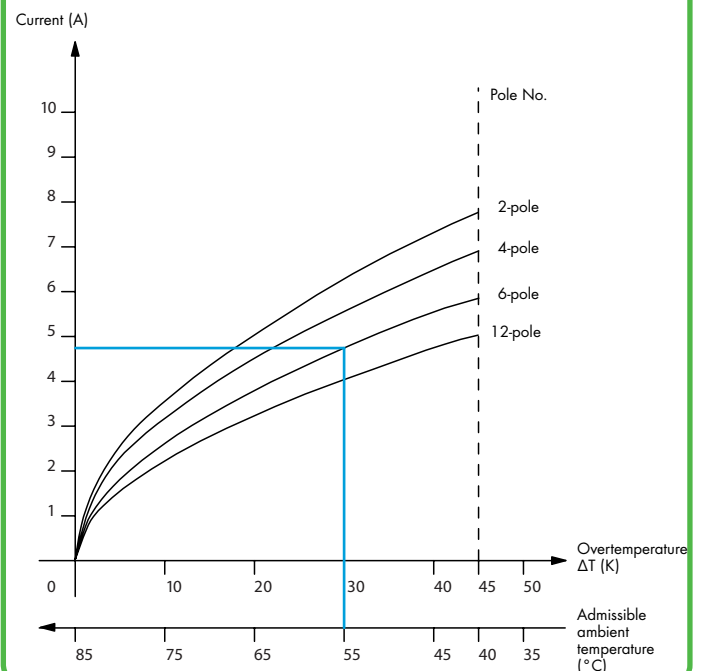
Explanation using the following example:

What load (amps) can a 6-pole connector assembly handle when subjected to an ambient operating temperature of 55°C?

- 1.) On the bottom axis (x-coordinate = temperature), select the ambient operating temperature for the connector assembly (here 55°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°C ambient operating temperature.

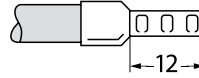
Example



Technical Explanations and Abbreviations

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 mm² "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)



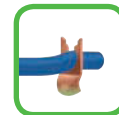
CAGE CLAMP^{®S}



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).

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
206 Series		210 Series		216 Series		231 Series	
206-118	193	210-332/381-202	184	216-201	195	231-3 . ./031-000	111
206-124	192	210-332/381-204	184			231-3 . ./037-000	110
		210-332/381-206	184	216-210	195	231-393	107
206-128	192	210-332/500-202	184	216-221	195		
206-170	192	210-332/500-204	184			231-4 . ./001-000	107
206-171	192	210-332/500-206	184	216-224	195		
206-173	192	210-332/508-202	184	216-241	47	231-5 . ./001-000	107
206-174	192	210-332/508-204	184			231-500	107
		210-332/508-206	184	216-244	47		
206-204	194	210-332/750-020	184	216-246	47	231-6 . ./019-000	108
206-216	194	210-332/762-020	184	216-262	195	231-602	108
206-225	194	210-332/1000-202	184	216-263	195		
206-250	195	210-332/1000-204	184	216-264	195	231-624	108
		210-332/1000-206	184	216-266	195	231-632	108
206-804	193	210-332/1016-202	184	216-267	47		
206-806	191	210-332/1016-204	184	216-284	195	231-654	108
206-807	191	210-332/1016-206	184	216-286	195	231-661	112
206-810	191	210-333	184			231-662	112
206-815	191	210-333/500-002	184	216-289	195	231-670	101
209 Series		210-333/500-006	184	216-301	195	231-675	101
209-100	188	210-333/600-103	184	216-302	195		
209-112	185			216-321	195	231-7 . ./001-000	107
209-113	185	210-333/600-106	184	216-322	195	231-7 . ./008-000	111
209-114	185	210-333/700-020	184			231-7 . ./026-000	110
209-122	87	210-333/700-108	184	218 Series		231-7 . ./031-000	111
209-123	85	210-333/700-109	184	218- . ./000-005	115	231-7 . ./037-000	110
209-129	190	210-333/800-002	184	218- . ./000-006	115		
209-130	190			218- . ./000-012	115	231-8 . ./001-000	107
209-132	85	210-333/800-006	184	218- . ./000-023	115		
209-137	103	210-333/1000-202	184			231-9 . ./001-000	107
209-140	185	210-333/1000-204	184	218-102	115		
209-147	101	210-333/1000-206	184			232 Series	
209-148	112	210-333/1200-103	184	218-124	115	232-132	109
209-170	51	210-333/1200-104	184				
209-172	113	210-333/1200-105	184	218-502	115	232-154	109
209-173	113	210-333/1200-106	184			232-162	109
209-174	113	210-334	184	218-524	115		
209-176	113	210-334/762-202	105			232-184	109
209-177	113	210-345	185	222 Series			
209-190	30			222-412	93	232-232	109
209-191	30	210-423	68	222-413	93		
209-196	188	210-424	68	222-415	93	232-254	109
		210-490	79			232-262	109
		210-492	171	222-500	93		
210 Series				222-505	93	232-284	109
210-110	165	210-533	170	222-510	93		
210-112	189	210-549	188			232-602	113
210-113	189			224 Series			
210-114	189	210-647	190	224-101	92	232-610	113
210-118	189	210-648	190	224-104	92	232-612	113
210-133	158	210-657	190	224-112	92	232-632	113
210-136	37	210-658	190	224-114	92		
210-137	48					232-636	113
210-141	81	210-719	190	224-201	92	232-638	113
210-143	81					232-639	113
210-148	189	210-722	190	231 Series		232-640	113
210-149	189			231- . ./032-000	113	232-642	113
210-154	87	211 Series		231- . ./033-000	113	232-662	113
210-196	189	211-110	186	231- . ./034-000	113		
210-197	189			231- . ./035-000	113	232-667	113
210-198	189	211-115	186			232-682	113
		211-120	186	231-1 . ./001-000	107		
210-250	103			231-1 . ./008-000	111	232-687	113
210-254	66	211-125	186	231-1 . ./026-000	110		
		211-129	186	231-1 . ./031-000	111	232-732	109
210-331	184	211-150	187	231-1 . ./037-000	110		
210-331/250-202	184	211-151	187	231-129	101	232-743	109
210-331/250-204	184	211-155	187	231-130	101	232-746	109
210-331/250-206	184	211-156	187	231-131	112	232-762	109
210-331/254-202	184	211-161	187	231-193	101		
210-331/254-204	184	211-162	187	231-194	101	232-772	109
210-331/254-206	184			231-195	101		
210-331/500-103	101	215 Series				232-832	109
210-331/500-104	101	215- . . .	193	231-2 . ./001-000	107		
210-331/508-103	108			231-2 . ./008-000	111	232-843	109
210-331/508-104	108	216 Series		231-2 . ./026-000	110	232-846	109
210-331/750-202	101	216-106	47	231-2 . ./031-000	111	232-862	109
210-331/762-202	108	216-141	47	231-2 . ./037-000	110		
210-332	184			231-3 . ./001-000	107	232-872	109
210-332/350-202	184	216-144	47	231-3 . ./008-000	111		
210-332/350-204	184	216-167	47	231-3 . ./026-000	110		
210-332/350-206	184						

Item Number Index

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
233 Series		235 Series		235 Series		250 Series	
233-102	116	235-466	135	235-824	134	250-.../...-005	136
		235-474	135	235-850	134	250-.../...-006	136
233-110	116	235-486	135	235-851	135	250-.../...-009	136
233-112	116	235-498	135	235-851/331-000	135	250-.../...-012	136
233-116	116			235-852	135	250-.../...-014	136
233-124	116					250-.../...-017	136
		235-500	134	235-860	135	250-.../...-024	136
		235-501	134	235-862	135	250-.../...-050	136
233-202	116	235-501/331-000	134	235-866	135		
		235-502	134	235-874	135	250-102	136
233-210	116			236 Series			
233-212	116	235-510	134	236-...	121	250-124	136
233-216	116	235-512	134	243 Series		250-202	136
233-224	116	235-516	134	243-110	89		
		235-524	134	243-112	89	250-224	136
233-332	95	235-550	134	243-113	89	250-402	136
233-335	95	235-551	135	243-131	139		
		235-551/331-000	135	243-144	89	250-424	136
233-402	116	235-552	135			250-502	137
				243-204	89		
233-410	116	235-560	135	243-208	89	250-516	137
233-412	116	235-562	135			250-602	137
233-416	116	235-566	135	243-304	89		
233-424	116	235-574	135	243-308	89	250-612	137
233-502	116	235-600	133	243-504	89	250-702	137
		235-650	134	243-508	89	250-703	137
233-510	116					250-704	137
233-512	116	235-700	134			250-706	137
233-516	116	235-701	134	243-721	139	250-708	137
233-524	116	235-711	135			250-710	137
234 Series		235-711/331-000	135	243-724	139	250-712	137
234-...	116	235-712	135	243-742	139	250-716	137
235 Series		235-712/331-000	135			250-724	137
235-.../...-002	133	235-713	135	243-748	139		
235-.../...-004	133	235-713/331-000	135			250-1402	136
235-.../...-005	133	235-714	135	243-804	89		
235-.../...-006	133	235-714/331-000	135	243-808	89	250-1424	136
235-.../...-007	133	235-716	135	248 Series		252 Series	
235-.../...-008	133	235-716/331-000	135	248-.../000-002	183	252-102	139
235-.../...-017	133	235-717	135	248-.../000-005	183		
235-.../...-050	133	235-717/331-000	135	248-.../000-006	183	252-110	139
		235-722	135	248-.../000-007	183	252-152	139
		235-722/331-000	135	248-.../000-012	183		
		235-723	135	248-.../000-017	183	252-160	139
235-100	134	235-723/331-000	135	248-.../000-023	183		
235-101	133	235-724	135	248-.../000-024	183	252-902	139
		235-724/331-000	135				
235-110	133	235-726	135	248-450	165	252-910	139
235-101/330-000	133	235-726/331-000	135			252-954	139
		235-727	135	248-455	165		
235-110/330-000	133	235-727/331-000	135			253 Series	
235-112	133	235-732	135	248-501	183	253-...	137
235-112/330-000	133	235-732/331-000	135			255 Series	
235-116	133	235-733	135	248-509	183	255-...	118
235-116/330-000	133	235-733/331-000	135	248-544	183	256 Series	
235-124	133	235-734	135	248-545	183	256-...	118
235-124/330-000	133	235-734/331-000	135	248-565	183	257 Series	
235-136	133	235-736	135	248-566	183	257-...	119
235-136/330-000	133	235-736/331-000	135	249 Series		258 Series	
235-148	133	235-737	135	249-106	55	258-143	182
235-148/330-000	133	235-737/331-000	135	249-107	55	258-144	182
		235-74 .	134	249-116	185	258-145	182
		235-74 . /331-000	134	249-117	185	258-149	182
235-200	134	235-75.	134	249-118	185	258-150	182
		235-75. /331-000	134	249-119	185	258-157	182
235-300	134	235-76.	134	249-120	185	258-161	182
235-316	133	235-76. /331-000	134	249-125	51	258-171	182
		235-770	133	249-126	51	258-173	182
235-400	134	235-771	133	249-127	51	258-177	182
235-401	134	235-772	133	249-135	85	258-178	182
235-401/331-000	134	235-774	133				
235-402	134			249-140	85	258-298	182
		235-778	133	249-147	55		
235-410	134			249-148	55		
235-412	134	235-800	134	250 Series			
235-416	134	235-801	134	250-.../...-002	136		
235-424	134	235-801/331-000	134	250-.../...-004	136		
235-436	134	235-802	134				
235-448	134						
235-452	135	235-810	134				
		235-812	134				
235-460	135	235-816	134				
235-462	135						

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
258 Series		279 Series		280 Series		280 Series	
258-326	182	279-838	51	280-529	60	280-801	171
				280-530	60		
258-328	182	279-901	51	280-533	60	280-804	171
258-342	182			280-534	60	280-805	67
258-343	182	279-907	51	280-537	60	280-830	52
258-350	182	279-907/999-950	51	280-547	62		
258-361	182	279-992	51	280-549	62	280-835	52
		279-993	51	280-550	62	280-836	67
258-364	182	279-994	51	280-551	62	280-837	52
258-368	182			280-552	62	280-837/999-950	52
258-369	182	280 Series		280-554	73	280-838	52
258-370	182	280-101	81	280-555	73	280-839	67
		280-104	81	280-556	73	280-868	67
		280-107	81	280-557	62	280-870	67
				280-560	72	280-874	67
258-451	182			280-560/281-434	72	280-876	67
260 Series		280-301	81	280-561/281-413	72	280-879	67
260-...	85	280-302	81	280-562	73	280-881	67
261 Series		280-303	62	280-562/281-411	73	280-883	67
261-...	85			280-562/281-420	73	280-885	67
262 Series		280-306	62	280-562/281-434	73		
262-...	85	280-308	52	280-564	72	280-901	52
				280-564/281-483	72		
264 Series		280-311	52	280-566/281-496	72	280-907	52
264-...	87	280-312	53	280-570	72	280-907/999-950	52
279 Series		280-313	53	280-570/281-434	72	280-912	67
279-101	81	280-314	52	280-571/281-413	72	280-913	67
279-104	81	280-315	52	280-572	73	280-914	67
		280-318	53	280-572/281-411	73	280-916	171
279-308	51	280-319	73	280-572/281-420	73	280-946	53
279-309	51	280-320	73	280-572/281-434	73	280-992	52
279-325	51	280-321	73	280-574	72	280-993	52
279-326	51	280-322	81	280-574/281-483	72	280-994	52
279-328	51	280-323	73	280-576/281-496	72	280-996	53
		280-324	52	280-580	72	280-998	53
279-331	51	280-326	52	280-580/281-434	72		
279-339	51	280-332	81	280-581/281-413	72	281 Series	
		280-334	52	280-583	73	281-101	81
279-342	51	280-335	52	280-584	72	281-104	81
279-344	51	280-336	62	280-584/281-483	72	281-107	81
		280-339	62	280-585	73		
279-349	51	280-340	60	280-586	73	281-301	81
		280-341	60	280-586/281-496	72	281-302	81
		280-342	60	280-592	73	281-309	66
		280-343	60	280-593	73	281-311	66
		280-344	52	280-597	62	281-312	53
279-402	51	280-346	52			281-313	53
279-405	81	280-348	53	280-608	168	281-318	53
279-409	51	280-352	52	280-609	168	281-322	81
279-415	51	280-353	52	280-610	171	281-324	54
279-422	51	280-354	53	280-618	168	281-326	54
279-432	51	280-355	53	280-619	168	281-328	54
279-433	51	280-356	52	280-628	171		
279-440	51			280-629	171	281-331	54
279-470	51	280-359	52	280-628	168	281-332	81
279-471	51	280-371	67	280-636	168	281-334	54
279-482	51	280-373	67	280-637	53	281-335	54
279-483	51	280-374	67	280-637/999-950	53	281-338	54
279-490	51	280-376	67	280-638	168	281-339	54
279-492	51			280-639	171	281-340	61
		280-402	52	280-640	53	281-341	61
279-501	60	280-404	52	280-641	53	281-342	61
279-504	60	280-405	81	280-646	53	281-343	61
279-507	60	280-409	52	280-650	52	281-344	54
279-508	60	280-415	52	280-651	53	281-345	54
279-509	60	280-422	52	280-653	52	281-346	54
279-512	60	280-432	190	280-654	53	281-347	54
279-513	60			280-656	53	281-348	53
279-517	60	280-440	190	280-671	52	281-349	54
279-518	60	280-470	52	280-672	52	281-350	54
279-519	60	280-471	52	280-681	52	281-355	54
279-527	60	280-472	52	280-683	67	281-356	54
279-529	60	280-482	52	280-684	52	281-357	53
		280-483	52	280-686	171	281-358	53
279-681	51	280-490	52	280-687	52	281-365	63
		280-492	87	280-687/999-950	52	281-366	63
279-687	51						
279-687/999-950	51	280-517	60	280-762	169	281-402	53
		280-519	60	280-763	169	281-405	81
279-831	51	280-520	60	280-764	169	281-407	52
		280-523	60			281-409	53
279-837	51	280-524	60			281-415	54
279-837/999-950	51	280-527	60				

Item Number Index

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
281 Series		282 Series		282 Series		284 Series	
281-421	60	282-122	83	282-698/281-449	66	284-358	56
281-422	53	282-124	83	282-699	66		
281-440	190	282-128	83			284-400	56
281-470	54	282-128/281-413	83	282-811	68	284-402	56
281-471	54	282-128/281-417	83	282-821	68	284-405	82
281-472	54	282-128/281-418	83	282-860	69	284-409	56
281-482	54	282-131	83	282-865	69	284-412	56
281-483	54	282-133	83	282-866	69	284-413	55
281-485	54	282-135	83	282-868	69	284-414	55
281-490	66	282-137	83	282-870	69	284-415	56
281-492	66			282-881	69	284-422	56
		282-141	83				
281-503	39			282-884	69	284-621	56
281-511	66	282-301	82			284-624	56
281-512/281-417	66	282-302	82	282-901	55	284-681	56
281-512/281-418	66	282-308	55	282-902	55	284-682	56
281-512/281-501	66	282-309	55	282-904	55	284-684	56
281-530	63	282-311	83	282-907	55	284-687	56
281-531	63	282-312	83	282-907/999-950	55	284-687/999-950	56
281-532	63	282-314	83	282-992	55		
		282-315	83	282-993	55		
281-610	66	282-322	82	283 Series		284-901	56
281-611	66	282-325	55			284-902	56
281-611/281-417	66	282-326	55	283-101	82	284-904	56
281-611/281-541	66	282-328	55	283-104	82	284-907	56
281-612	66			283-107	82	284-907/999-950	56
281-612/281-417	66	282-331	55			284-992	56
281-612/281-541	66	282-332	82	283-301	82	284-993	56
281-613	66	282-333	66	283-302	82	285 Series	
281-613/281-417	66	282-334	66	283-322	82	285-134	59
281-613/281-541	66	282-339	55	283-325	57	285-135	59
281-619	61			283-326	57	285-137	59
281-620	61	282-342	55	283-328	57	285-150	59
281-622	66	282-357	55			285-154	59
281-622/281-417	66	282-358	55	283-331	57	285-157	59
281-622/281-541	66	282-360	68	283-332	82	285-169	59
281-623	66	282-361	68	283-350	57	285-170	59
281-623/281-417	66	282-365	68			285-172	59
281-623/281-541	66	282-366	68	283-355	57	285-194	59
281-629	61	282-369	68	283-357	57	285-195	59
281-630	61	282-370	68			285-197	59
281-631	53	282-372	68	283-400	57	285-197/999-950	59
281-637	53	282-373	68	283-402	57		
281-637/999-950	53	282-374	68	283-404	57	285-401	57
281-651	53	282-384	69	283-405	82	285-407	59
281-652	54	282-385	69	283-409	57	285-416	57
281-653	54	282-387	69	283-414	57	285-420	59
281-654	54	282-390	69	283-415	57	285-421	59
281-656	66	282-392	69	283-422	57	285-427	59
281-657	54			283-671	57	285-435	57
281-657/999-950	54	282-402	55	283-672	57	285-440	59
281-658	54	282-405	82	283-674	57	285-441	59
281-659	67	282-409	55	283-677	57	285-447	59
281-663	54	282-415	55	283-677/999-950	57	285-450	59
281-664	54	282-422	55			285-495	59
281-668	54	282-424	69	283-901	57		
281-678	54	282-432	68	283-902	57	285-634	57
281-679	54			283-904	57	285-635	57
281-681	54	282-440	68	283-907	57	285-637	57
281-683	67	282-442	68	283-907/999-950	57	285-637/999-950	57
281-684	54	282-443	68	283-992	57		
		282-444	68	283-993	57	285-992	57
281-687	54	282-451	83	284 Series		285-995	59
281-687/999-950	54	282-457	83				
		282-458	83	284-101	82	286 Series	
281 Series		282 Series		284-104	82	286-110	171
281-901	54	282-638	67	284-107	82		
				284-301	82	286-113	171
281-907	54	282-641	67	284-302	82		
281-907/999-950	54	282-681	55	284-308	56	286-302	168
281-912	67	282-682	55	284-309	56	286-304	168
281-916	66	282-684	55	284-322	82	286-308	168
281-992	54	282-687	55	284-325	56	286-310	168
281-993	54	282-687/999-950	55	284-326	56	286-312	168
281-994	54	282-694	66	284-328	56	286-316	168
281-998	53					286-364	168
		282-695	67	284-331	56	286-365	168
282 Series		282-696	66	284-332	82	286-366	168
282-101	82	282-697	67	284-339	56	286-368	168
282-104	82	282-698/281-413	66			286-369	168
282-107	82	282-698/281-429	66	284-342	56	286-370	168
282-120	83	282-698/281-434	66	284-357	56	286-375	168

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
286 Series		288 Series		721 Series		734 Series	
286-502	168	288-761	167	721-3 .. /008-000	103	734-144	96
286-504	168	288-762	167	721-3 .. /031-000	103	734-146	96
286-508	168					734-148	96
286-510	168	289 Series		721-4 .. /001-000	101	734-150	96
286-512	168	289-501	167			734-154	96
286-516	168			721-6 ..	101	734-162	96
286-564	168	289-509	167	721-6 .. /019-000	101		
286-566	168	289-540	167			734-170	96
286-567	168			721-8 .. /001-000	101	734-172	96
286-568	168	289-559	167			734-173	96
286-570	169			722 Series		734-174	96
286-571	169	289-611	167	722-...	102	734-176	96
286-578	168			723 Series		734-178	96
286-579	168	289-619	167	723-6 ..	101	734-180	96
				723-6 .. /019-000	101	734-184	96
286-661	169	289-720	167			734-1 .. /037-000	98
				731 Series			
286-700	168	289-723	167	731-... /032-000	113	734-202	98
286-701	168	289-725	167	731-... /033-000	113		
286-702	168			731-... /034-000	113	734-210	98
286-704	168	289-728	167	731-... /035-000	113	734-212	98
286-706	168					734-214	98
286-708	168	704 Series		731-5 .. /008-000	112	734-216	98
286-720	168	704-...	147	731-5 .. /031-000	112	734-220	98
286-721	168					734-226	113
286-723	169	709 Series		731-6 ..	108		
286-726	169	709-110	69	731-6 .. /019-000	108	734-229	113
286-728	169	709-111	69			734-230	97
286-730	169	709-112	69	733 Series		734-232	96
286-732	169	709-153	188	733-102	95		
286-733	169	709-154	188			734-236	96
286-734	169	709-167	188	733-108	95	734-238	96
286-750	168	709-168	188	733-110	95	734-239	96
286-751	168	709-177	63	733-112	95	734-240	96
286-752	168	709-178	48			734-242	96
286-754	168	709-183	188	733-202	95	734-244	96
286-756	168					734-246	96
286-758	168	709-310	55	733-208	95	734-250	96
286-790	169	709-311	55	733-210	95	734-262	96
286-792	169	709-312	55	733-212	95		
						734-266	96
286-830	169	709-581	188	733-330	95	734-268	96
286-835	169	709-591	188	733-332	95	734-269	96
286-835/115-000	169					734-270	96
286-836	169	713 Series		733-338	95	734-272	96
286-840	169	713-126	99	733-340	95	734-274	96
				733-342	95	734-276	96
286-843	169	713-129	99	733-362	95	734-280	96
286-860	169					734-2 .. /037-000	98
		713-1103	99	733-368	95		
286-868	169			733-370	95	734-302	97
286-870	169	713-1118	99	733-372	95		
286-871	169	713-11 .. /037-000	100			734-310	97
286-872	169			733-... /032-000	95	734-312	97
286-895	169	713-1403	99	733-... /033-000	95	734-313	97
286-896	169					734-314	97
		713-1418	99	734 Series		734-316	97
287 Series		713-1423	99	734-... /032-000	113	734-318	97
287-474	167			734-... /033-000	113	734-320	97
		713-1438	99	734-... /034-000	113	734-324	97
287-774	167	713-14 .. /037-000	100	734-... /035-000	113	734-332	97
				734-... /036-000	113		
287-824	167	714 Series				734-336	97
287-834	167	714-101	99	734-102	98	734-338	97
287-853	167					734-339	97
287-854	167	721 Series		734-110	98	734-340	97
		721-... /032-000	113	734-112	98	734-342	97
288 Series		721-... /033-000	113	734-113	98	734-344	97
288-312	167	721-... /034-000	113	734-116	98	734-346	97
		721-... /035-000	113	734-118	98	734-350	97
288-512	167			734-120	98	734-3 .. /019-000	97
		721-1 .. /001-000	101	734-124	98		
288-600	170	721-1 .. /008-000	103	734-126	113	734-400	96
288-601	170	721-1 .. /026-000	102			734-402	96
288-602	170	721-1 .. /031-000	103	734-129	113		
288-620	170	721-1 .. /037-000	102	734-130	96	734-410	96
288-621	170			734-132	96	734-412	96
288-622	170	721-2 .. /001-000	101			734-426	113
288-626	170	721-2 .. /008-000	103	734-140	96	734-428	113
288-627	170	721-2 .. /026-000	102	734-142	96	734-432	96
		721-2 .. /031-000	103	734-143	96		
288-758	167	721-2 .. /037-000	102			734-436	96

Item Number Index

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
734 Series		745 Series		750 Series		750 Series	
734-438	96	745-500	126	750-400	146	750-600	148
734-439	96	745-540	126	750-401	146		
734-440	96	745-545	126	750-402	146	750-604	148
734-442	96	745-5.../006-000	126	750-403	146	750-606	149
734-4.../001-000	97			750-404	148	750-609	148
		745-631	126	750-405	146		
734-602	113			750-406	146	750-616	148
		745-635	126	750-408	146	750-621	148
734-610	113	745-681	126				
734-612	113			750-412	146	750-624	148
734-632	113	745-685	126	750-414	146	750-625/000-001	149
		745-6.../006-000	126	750-415	146	750-626	148
734-636	113			750-418	146	750-627	148
734-638	113	745-801	124	750-421	146	750-628	148
734-639	113	745-803	124	750-422	146	750-630	148
734-640	113	745-804	124			750-631/000-004	148
734-642	113	745-807	124	750-425	146	750-633	149
		745-808	124	750-427	146	750-635	148
736 Series		745-811	124	750-428	146	750-636	148
736-...	122	745-813	124	750-429	146	750-637	148
737 Series		745-814	124	750-430	146	750-638	148
737-1...	122	745-817	124			750-640	148
		745-818	124	750-433	146		
		745-821	124	750-434	146	750-646	148
737-2...	123	745-823	124	750-435	149	750-650	148
		745-824	124	750-436	146		
737-3...	122	745-827	124	750-437	146	750-655	148
		745-828	124	750-438	149	750-657	148
737-4...	123	745-831	125	750-440	146	750-660/000-001	149
		745-833	125	750-452	147	750-661/000-003	149
738 Series		745-834	125			750-662/000-003	149
738-...	123	745-837	125	750-457	147	750-665/000-001	149
		745-838	125	750-459	147	750-666/000-003	149
745 Series		745-841	125	750-460	147	750-667/000-002	149
745-.../...-006	125	745-843	125	750-461	147	750-670	148
745-.../...-009	125	745-844	125	750-464	147	750-671	148
745-.../...-016	125	745-847	125			750-672	148
745-.../...-017	125	745-848	125	750-470	147	750-673	148
		745-8.../006-000	126	750-472	147		
745-100	124					750-804	144
745-102	124	746 Series		750-480	147	750-806	144
		746-.../...-006	131	750-481/003-000	149	750-812	144
745-110	124	746-.../...-009	131	750-482	147	750-814	144
745-112	124	746-.../...-016	131	750-483	147	750-815	144
745-140	124	746-.../...-017	131	750-484	149	750-816	144
745-145	124			750-485	149	750-819	144
745-152	124	746-2302	131	750-487/003-000	149	750-830	144
				750-491	147	750-833	144
745-160	124	746-2310	131	750-492	147	750-837	144
745-162	124	746-2312	131			750-838	144
745-180	124			750-501	146	750-841	144
		750 Series		750-502	146	750-842	144
745-185	124	750-100	147	750-504	146	750-843	144
745-190	124	750-103	147	750-506	146	750-849	144
				750-508	146	750-860	144
745-195	124	750-300	144	750-509	146	750-863	144
		750-303	144	750-511	148	750-871	144
745-202	124	750-304	144	750-512	146	750-872	144
		750-305	144	750-513	146	750-873	144
745-210	124	750-306	144	750-514	146	750-880	144
745-212	124	750-307	144	750-516	146	750-881	144
745-280	124	750-310	144	750-517	146	750-882	144
		750-312	144	750-519	146		
745-285	124	750-314	144	750-522	146	750-920	145
745-300	125	750-315	144	750-523	146	750-921	145
745-302	125	750-316	144	750-530	146	750-923	145
		750-319	144	750-531	146	750-925	148
745-310	125	750-319/004-000	144	750-532	146		
745-312	125	750-320	144	750-534	146	750-960	145
745-340	125	750-331	144	750-535	149		
745-345	125	750-333	144	750-536	146	750-963	145
745-352	125	750-334	144	750-537	146	750-965	145
		750-337	144	750-540	146	750-971	145
745-360	125	750-338	144	750-550	147	750-972	145
745-362	125	750-340	144	750-552	147	750-975	145
745-380	125					750-976	145
		750-348	144	750-557	147		
745-385	125	750-351	144	750-559	147	750-14...	146
745-390	125	750-352	144	750-560	147		
		750-354	144	750-562	147	750-15...	146
745-395	125	750-370	144	750-563	147		
				750-585	149	750-16...	148

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
753 Series		769 Series		773 Series		793 Series	
753-110	147	769-208/281-410	77	773-102	91	793-.../000-007	183
753-120	147	769-208/281-411	77	773-104	91	793-.../000-012	183
753-150	147	769-209/281-413	77	773-106	91	793-.../000-017	183
		769-209/281-434	77	773-108	91	793-.../000-023	183
755 Series		769-211	76	773-173	91	793-.../000-024	183
755-809	151	769-212	77				
755-837	151	769-213	77	773-332	91	793-501	183
		769-214	77				
756 Series		769-217	76	780 Series		793-509	183
756-1505/060-0..	151	769-218/281-410	77	780-452	52	793-544	183
		769-218/281-411	77			793-545	183
756-3105/040-0..	151	769-219/281-413	77	780-458	52	793-557	183
		769-219/281-434	77			793-565	183
756-4101/042-030	151	769-221	76	781 Series		793-566	183
		769-222	76	781-452	53	793-599	183
756-8101	151	769-223	76				
756-8102	151	769-227	76	781-456	53	793-3501	183
		769-228/281-410	76				
757 Series		769-228/281-411	76	787 Series		793-3509	183
757-...	151	769-229/281-413	76	787-601	156	793-3544	183
		769-229/281-434	76	787-602	156	793-3545	183
758 Series		769-231	76	787-611	156	793-3565	183
758-87../000-1..	145	769-232	76	787-612	156	793-3566	183
		769-233	76	787-613	156		
758-915	145	769-237	76	787-621	156	793-4501	183
758-961	151	769-238/281-410	76	787-622	156		
758-962	151	769-238/281-411	76	787-623	156	793-4509	183
758-963	151	769-239/281-413	76	787-632	156	793-4544	183
758-965	151	769-239/281-434	76	787-633	156	793-4545	183
758-966	151	769-251	76			793-4565	183
		769-257	76	787-712	156	793-4566	183
759 Series				787-722	156		
759-302	145	769-301	76	787-732	156	793-5501	183
759-311	145	769-302	76				
759-312	145	769-305	76	787-818	157	793-5509	183
759-333	145			787-819	157	793-5544	183
		769-308	76	787-821	157	793-5545	183
761 Series		769-309	77	787-822	157		
761-....	154			787-832	157	793-5553/000-002	68
		769-319	77	787-833	157	793-5554/000-006	68
762 Series		769-320	76	787-834	157	793-5557	183
762-....	153	769-321	76	787-835	157	793-5565	183
				787-840	157	793-5566	183
767 Series		769-402		787-842	157	793-5599	183
767-....	151	769-410	79	787-844	157		
				787-845	157	794 Series	
769 Series		769-414	79	787-847	157	794-5553/000-002	68
769-101	79	769-428	79	787-850	157	794-5554/000-006	68
				787-852	157		
769-115	79	769-431	79	787-854	157	804 Series	
769-101/000-016	79	769-434	79	787-860	157	804-...	130
769-102/021-000	79	769-435	79	787-861	157		
		769-436	79	787-862	157	805 Series	
769-115/021-000	79	769-470	79	787-870	157	805-...	130
769-101/022-000	79	769-471	79	787-875	157		
		769-472	79	787-880	157	816 Series	
769-115/022-000	79	769-602	78	787-881	157	816-...	131
769-121	79			787-885	157		
		769-615	78	787-886	157	831 Series	
769-135	79					831-137	105
769-121/000-016	79	769-602/005-000	78	787-1001	156		
769-151	76			787-1002	156	831-3102	105
769-156	76	769-615/005-000	78	787-1011	156		
769-161	77	769-602/006-000	78	787-1012	156	831-3108	105
769-162/769-313	77			787-1022	156	831-3202	105
		769-615/006-000	78				
769-165/769-313	77	769-632	78	788 Series		831-3208	105
769-171	76			788-...	166	831-3202/007-000	105
769-176	76	769-645	78				
769-181	77	769-632/004-000	78	790 Series		831-3208/007-000	105
769-182/769-314	77			790-...	158	831-3602	104
		769-645/004-000	78				
769-185/769-314	77	769-662	78	791 Series		831-3608	104
769-191	77			791-...	158	831-3622	104
769-192/769-319	77	769-675	78				
		769-662/004-000	78	792 Series		831-3628	104
769-195/769-319	77			792-...	165		
		769-675/004-000	78			852 Series	
769-201	76			793 Series		852-...	155
769-202	77	769-1602	79	793-.../000-002	183		
769-203	77			793-.../000-005	183		
769-207	76	769-1615	79	793-.../000-006	183		

Item Number Index

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
857 Series		859 Series		2000 Series		2002 Series	
857-303	161	859-4 .../000-029	165	2000-2239	33	2002-1391	26
				2000-2247	33	2002-1392	26
857-308	161	859-500	165	2000-2257	33	2002-1393	26
857-314	161	859-525	165	2000-2291	33	2002-1394	26
857-317	161			2000-2292	33		
857-318	161	859-702	164			2002-1401	27
857-354	161	859-706	164	2001 Series			
857-357	161	859-708	164	2001-115	26	2002-1407	27
857-358	161	859-712	164	2001-171	26	2002-1411/1000-410	42
857-364	161	859-720	164			2002-1411/1000-411	42
857-367	161	859-730	164	2001-402	26	2002-1421/1000-413	42
857-368	161	859-740	164			2002-1421/1000-434	42
		859-752	164	2001-410	26	2002-1491	26
857-400	160	859-756	164	2001-433	26	2002-1492	26
857-401	160	859-758	164			2002-1493	26
857-402	160	859-772	164	2001-440	26	2002-1494	26
857-409	160	859-791	164				
857-411	160	859-793	164	2001-511	26	2002-1601	37
		859-795	164	2001-549	26	2002-1602	37
857-416	160	859-796	164			2002-1604	37
857-420	160			2001-1201	26	2002-1611	37
857-421	160	859-902	164			2002-1611/1000-541	37
857-423	160			2001-1207	26	2002-1611/1000-542	37
857-451	160	862 Series				2002-1611/1000-836	37
857-451	160	862-...2	48	2001-1301	26	2002-1611/1000-867	37
		862-...3	48			2002-1661	39
857-500	160	862-...4	49	2001-1307	26	2002-1671	37
857-531	160	862-...5	49			2002-1672	37
857-550	160			2001-1401	26	2002-1674	37
		862-482	48			2002-1681	37
857-704	161			2001-1407	26	2002-1691	37
857-707	161	870 Series		2002 Series		2002-1692	37
857-708	161	870-...	76	2002-115	27	2002-1801	38
857-714	161			2002-121	38	2002-1802	38
857-717	161	888 Series		2002-161	185	2002-1804	38
857-718	161	888-402/510-000	182	2002-171	27	2002-1811	38
857-724	161			2002-172	27	2002-1811/1000-541	38
857-727	161	2000 Series				2002-1811/1000-542	38
857-728	161	2000-115	25	2002-401	37	2002-1811/1000-836	38
				2002-402	27	2002-1811/1000-867	38
857-800	160	2000-402	25			2002-1861	39
857-801	160			2002-410	27	2002-1871	38
857-810	160	2000-405	25	2002-433	27	2002-1872	38
857-811	160	2000-405/011-000	25			2002-1874	38
857-818	160	2000-406	25	2002-440	27	2002-1881	38
857-819	160			2002-472	27	2002-1891	38
857-820	160	2000-410	25			2002-1892	38
		2000-433	25	2002-482	27		
857-979	160					2002-2201	34
857-981	161	2000-440	25	2002-511	27		
857-982	161			2002-549	27	2002-2204	34
857-986	161	2000-1201	25			2002-2207	34
				2002-800	39	2002-2208	34
857-1330	161	2000-1207	25	2002-800/1000-411	39	2002-2209	34
		2000-1291	25	2002-800/1000-541	39	2002-2211/1000-410	43
857-1430	161	2000-1292	25	2002-800/1000-542	39	2002-2211/1000-411	43
857-1432	161			2002-800/1000-836	39	2002-2213/1000-487	43
857-1494	161	2000-1301	25	2002-810	39	2002-2213/1000-488	43
				2002-820	39	2002-2214/1000-489	43
858 Series		2000-1307	25	2002-880	171	2002-2214/1000-490	43
858-...	166	2000-1391	25			2002-2214/1000-491	43
		2000-1392	25	2002-991	37	2002-2214/1000-492	43
859 Series				2002-992	37	2002-2217	34
859-302	164	2000-1401	25			2002-2221/1000-413	43
				2002-1201	27	2002-2221/1000-434	43
859-308	164	2000-1407	25			2002-2227	34
859-314	164	2000-1491	25	2002-1207	27	2002-2231	34
859-317	164	2000-1492	25	2002-1211/1000-410	42		
859-353	164			2002-1211/1000-411	42	2002-2234	34
859-354	164	2000-2201	33	2002-1291	26	2002-2237	34
859-354	164			2002-1292	26	2002-2238	34
859-355	164	2000-2204	33	2002-1293	26	2002-2239	34
859-357	164	2000-2207	33	2002-1294	26	2002-2247	34
		2000-2208	33			2002-2257	34
859-360	164	2000-2209	33	2002-1301	27	2002-2291	34
859-367	164	2000-2217	33			2002-2292	34
859-368	164	2000-2227	33	2002-1307	27		
		2000-2231	33			2002-2401	34
859-402	165			2002-1311/1000-410	42		
		2000-2234	33	2002-1311/1000-411	42	2002-2404	34
859-410	165	2000-2237	33	2002-1321/1000-413	42		
859-4 .../000-006	165	2000-2238	33	2002-1321/1000-434	42	2002-2407	34

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
2002 Series		2004 Series		2009 Series		2231 Series	
2002-2408	34	2004-402	29	2009-174	25	2231-7.../026-000	110
2002-2409	34			2009-182	25		
2002-2417	34	2004-410	29	2009-191	185	2706 Series	
2002-2427	34	2004-433	29	2009-192	185	2706-.../...-006	127
2002-2431	34			2009-193	185	2706-.../...-009	127
		2004-440	29	2009-196	185	2706-.../...-016	127
2002-2434	34			2009-198	185	2706-.../...-017	127
2002-2437	34	2004-511	29			2706-102	127
2002-2438	34	2004-549	29	2009-309	191		
2002-2439	34			2009-310	191	2706-112	127
2002-2447	34	2004-911	39			2706-152	127
2002-2457	34	2004-911/1000-541	39	2009-412	26		
2002-2491	34	2004-911/1000-542	39	2009-414	26	2706-162	127
2002-2492	34	2004-911/1000-836	39	2009-416	26		
						2706-202	127
2002-2951	41	2004-1201	29	2010 Series			
2002-2952	41			2010-100	31	2706-212	127
2002-2954	41	2004-1207	29	2010-115	31	2706-252	127
2002-2958	41	2004-1291	29				
2002-2959	41	2004-1292	29	2010-402	31	2706-262	127
2002-2971	41	2004-1293	29				
2002-2972	41	2004-1294	29	2010-405	31	2706-302	127
2002-2974	41			2010-433	31		
2002-2991	41	2004-1301	29	2010-434	31	2706-312	127
2002-2992	41			2010-435	31		
		2004-1307	29			2716 Series	
2002-3201	35	2004-1391	29	2010-1201	31	2716-.../...-006	128
2002-3203	35	2004-1392	29	2010-1202	31	2716-.../...-009	128
2002-3204	35	2004-1393	29	2010-1204	31	2716-.../...-016	128
2002-3207	35	2004-1394	29	2010-1207	31	2716-.../...-017	128
2002-3208	35			2010-1291	31		
2002-3209	35	2004-1401	29	2010-1292	31	2716-102	128
2002-3211/1000-410	43						
2002-3211/1000-411	43	2004-1407	29	2010-1301	31	2716-108	128
2002-3211/1000-675	43	2004-1491	29	2010-1302	31	2716-152	128
2002-3211/1000-676	43	2004-1492	29	2010-1304	31		
2002-3212/1000-673	43	2004-1493	29	2010-1307	31	2716-158	128
2002-3212/1000-674	43	2004-1494	29	2010-1391	31		
2002-3217	35			2010-1392	31	2716-202	128
2002-3218	35	2006 Series					
2002-3221/1000-413	43	2006-115	30	2016 Series		2716-208	128
2002-3221/1000-434	43			2016-100	32	2716-252	128
2002-3227	35	2006-401	40	2016-115	32		
2002-3228	35	2006-402	30			2716-258	128
2002-3231	35			2016-402	32		
2002-3233	35	2006-405	30			2721 Series	
2002-3234	35	2006-433	30	2016-405	32	2721-1.../026-000	102
2002-3237	35	2006-434	30	2016-433	32	2721-2.../026-000	102
2002-3238	35	2006-435	30	2016-434	32		
2002-3239	35	2006-499	31	2016-435	32	2734 Series	
2002-3247	35			2016-499	31	2734-...	98
2002-3248	35	2006-1201	30				
2002-3257	35	2006-1202	30	2016-1201	32		
2002-3258	35	2006-1204	30	2016-1202	32		
2002-3291	35	2006-1207	30	2016-1204	32		
2002-3292	35	2006-1291	30	2016-1207	32		
		2006-1292	30	2016-1291	32		
				2016-1292	32		
2002-4101	35	2006-1301	30				
2002-4111	35	2006-1302	30	2016-1301	32		
2002-4127	35	2006-1304	30	2016-1302	32		
2002-4131	35	2006-1307	30	2016-1304	32		
2002-4141	35	2006-1391	30	2016-1307	32		
2002-4157	35	2006-1392	30	2016-1391	32		
2002-4191	35	2006-1601	40	2016-1392	32		
2002-4192	35	2006-1604	40				
		2006-1671	40	2020 Series			
2002-6301	28	2006-1671/1000-848	40	2020-...	45		
2002-6302	28	2006-1671/1000-849	40				
2002-6304	28	2006-1671/1000-850	40	2022 Series			
2002-6307	28	2006-1671/1000-851	40	2022-...	45		
2002-6391	28	2006-1674	40				
2002-6392	28	2006-1681/1000-429	40	2060 Series			
		2006-1681/1000-449	40	2060-...	129		
2002-6401	28	2006-1691	40				
2002-6402	28	2006-1692	40	2081 Series			
2002-6404	28			2081-...	138		
2002-6407	28						
2004 Series		2009 Series		2231 Series			
2004-115	29	2009-110	25	2231-1.../026-000	110		
2004-171	29	2009-114	184	2231-2.../026-000	110		
2004-172	29	2009-115	184	2231-3.../026-000	110		
		2009-135	184				

WAGO Worldwide

Argentina

Bruno Schillig S.A.
Arenales 4030, B1604CFD
Florida, PBA
Phone +54 11 4730 1100
Fax +54 11 4761 7244
wago@schillig.com.ar

Australia

Kontakt Group
Building Automation & WINSTA Systems
Office: 730 Springvale Rd
Mulgrave Victoria 3170
P.O. Box 3003, Wheelers Hill VIC 3150
Tel. +61 03 95602757
Fax +61 03 95601727
sales@kontaktgroup.com.au

NHP ELECTRICAL ENGINEERING
PRODUCTS PTY LTD
43-67 River Street
Richmond, Victoria, 3121, P.O. Box 199
Phone +61 3 9429 2999
Fax +61 3 9429 1075
export@wago.com

Austria

WAGO Kontakttechnik Ges.m.b.H.
Laxenburger Straße 244
1230 Wien
Phone +43 1 6150780
Fax +43 1 6150775
info.at@wago.com

Azerbaijan

AZ Technics LTD
Zulfi V. Alizade
Y.Safarov str.33, AZ1025,
Baku
Republic of Azerbaijan
Tel. +994 12 4968335
Fax +994 12 4968334
info@AZtechnics.az

Belarus

UP FEK
prt Pushkina 29-B
220015 Minsk
Phone +375 17 2102189
Fax +375 17 2102189
wago@fek.by

Belgium

WAGO Kontakttechnik
Excelsiorlaan 11
1930 Zaventem
Phone +32 2 7179090
Fax +32 2 7179099
info-be@wago.com

Bosnia and Herzegovina

please contact WAGO Bulgaria

Brazil

WAGO Eletroeletrônicos Ltda
Rua América Simões 1470
São Roque da Chave
Itupeva SP Brasil 13295-000
Phone +55 11 4591 0199
Fax +55 11 4591 0190
info.br@wago.com

Bulgaria

WAGO Kontakttechnik GmbH & Co. KG
Business Center Serdika
2E Akad. Ivan Geshov Blvd.
Building 1, Floor 4, Office 417
1330 Sofia
Phone +359 2 489 46 09
Fax +359 2 928 28 50
info-BG@wago.com

Canada

please contact WAGO USA

Chile

Desimat Chile
Av Puerto Vespucio 9670
Pudahuel Santiago
Phone +56 2 7470152
Fax +56 2 7470153
ventaschile@desimat.cl

China

WAGO ELECTRONIC (TIANJIN) Co. LTD
No.5, Quan Hui Road, Wuqing Development Area
Tianjin 301700
Phone +86 22 59617688
Fax +86 22 59617668
info-cn@wago.com

Columbia

T.H.L. Ltda.
Cra. 49 B # 91-33
Bogotá
Phone +57 1 621 85 50
Fax +57 1 621 60 28
ventas-thl@thl-tda.com

Croatia

M.B.A. d.o.o. za trgovinu i zastupanje
Frana Supila 5
51211 Matulji HR
Phone +385 51 275-736
Fax +385 51 275-066
mba@ri.htnet.hr

- Companies and Representatives -

Croatia

GENERA CTR d.o.o.
- just for automation technology -
Siget 18 b
10020 Zagreb
Phone +385 13647849
Fax +385 13636662
wago@geneza.hr

Czech Republic

WAGO Elektro spol. sr. o.
Rozvodova 1116/36
143 00 Praha 4 - Modřany
Phone +420 261 090 143
Fax +420 261 090 144
info.cz@wago.com

Denmark

WAGO Danmark
Filial of WAGO Kontakttechnik GmbH & Co. KG
Lejrvej 17
3500 Værløse
Phone +45 44 357777
Fax +45 44 357787
salg.dk@wago.com

Ecuador

ECUAINTEC CIA LTDA
El Zurriago 177 y El Vengador
P.O. Box 17-16-016
Quito
Phone +593 2 2 26 91 48
Fax +593 2 2 46 18 33
g.castro@ecuainselec.com.ec

Egypt

IBN Engineering Instrumentation & Control
71 a El Shaheed Ahmed Hamdi St.
King Faisal, Giza
Phone +20 2 7214350
Fax +20 2 7221709
sales@ibnengineering.com

Estonia

Eltarko OÜ
Laki 14 - 502
10621 Tallinn
Phone +372 651 7731
Fax +372 651 7786
andres@eltarko.ee

Finland

WAGO Kontakttechnik GmbH & Co. KG
Filial i Finland
Vellamonkatu 30 B
00550 Helsinki
Phone +358 9 7744 060
Fax +358 9 7744 0660
tilaus@wago.fi

France

WAGO CONTACT SAS
Paris Nord 2
83 Rue des Chardonnerets
B.P. 55065 - Tremblay en France
95947 - ROISSY CDG CEDEX
Phone +33 1 48172590
Fax +33 1 48632520
info-fr@wago.com

Germany

WAGO Kontakttechnik GmbH & Co. KG
Postfach 28 80, 32385 Minden
Hansastraße 27
32423 Minden
Phone +49 571 887-0
Fax +49 571 887-169
info@wago.com

WAGO Kontakttechnik GmbH & Co. KG
Waldstraße 1
99706 Sondershausen
Phone +49 3632 659-0
Fax +49 3632 659-100
info@wago.com

Great Britain

WAGO limited
Triton Park, Swift Valley Industrial Estate
RUGBY
Warwickshire CV21 1SG
Phone +44 1788 568008
Fax +44 1788 568050
uksales@wago.com

Greece

PANAGIOTIS SP. DIMOULAS - BIOMAT
DIMOULAS AUTOMATIONS
Kritis Str. 26
10439 Athen
Tel. +30 210 883 3337
Fax +30 210 883 4436
wago.info@dimoulas.com.gr

Hong Kong

National Concord Eng., Ltd.
Unit A-B, 5/F.
Southeast Industrial Building
611-619 Castle Peak Road
Tsuen Wan, N.T.
Phone +852 24292611
Fax +852 24292164
sales@nce.com.hk

Hungary

WAGO Hungária KFT
Ipári Park, Gyár u. 2
2040 Budapest
Phone +36 23 502-170
Fax +36 23 502-166
info.hu@wago.com

Iceland

S. Gudjonsson ehf.
Audbrekku 9-11
202 Kópavogur
Phone +354 520-4500
Fax +354 520-4501
export@wago.com

India

WAGO & CONTROLS (INDIA) LTD.
C-27, Sector-58, Phase-III
Noida-201 301
Gautam Budh Nagar (U.P.)
Phone +91 120 2 580409 10
Fax +91 120 2 580081
info@wagoindia.com

Indonesia

please contact WAGO Singapore

Iraq

please contact WAGO Middle East

Iran

Patsa Industry
No. 2 Bahar St.
South Shiraz Ave
P.O. Box.: 15875-1698
14369 Tehran
Phone +98 21 88047626
Fax +98 21 88040886
info.uae@wago.com

Ireland

Drives & Controls
Unit F4, Riverview Business Park
Nangor Road
Dublin 12
Phone +353 1 4604474
Fax +353 1 4604507
wago@drivesandcontrols.ie

Israel

Comtel Israel Electronic Solutions Ltd.
Bet Hapaamon
20 Hataas Street
P.O. Box 66
44425 Kefar-Saba
Phone +972 9 76 77 240
Fax +972 9 76 77 243
sales@comtel.co.il

Italy

WAGO ELETTRONICA SRL
Via Parini 1
40033 Casalecchio di Reno (BO)
Phone +39 051 6132112
Fax +39 051 6272174
info-ita@wago.com

Japan

WAGO Co. of JAPAN Ltd.
Nittetsu ND-Tower Building 4F
Kameido 1-5-7
Koto-Ku
Tokyo 136-0071
Phone +81 3 5627 2050
Fax +81 3 5627 2055
info-jp@wago.com

Kazakhstan

TOO INTANT
ul. Muratbaeva, d. 61
050026 Almaty
Phone +7 727 2371492
Fax +7 727 2980151
info@intant.kz

TOO Technik-Trade
ul. i. A. Protosanova, 81
070004 Ust-Kamenogorsk
Phone +7 7232 254064
Fax +7 7232 253251
info@technik.kz

Korea

Mahani Electric Co. Ltd.
792-7 Yeoksam-Dong
Kangnam-Gu, 135-080
Seoul, Korea
Phone +82 2 2194 3300
Fax +82 2 2194 3397
export@wago.com

Kosovo

please contact WAGO Bulgaria

Kuwait

Kuwait Controls Company
Al Sour Street, Above Lufthansa Airline
Safat Kuwait 13062
Phone +965 222 54300
Fax +965 224 33698
info.uae@wago.com

Latvia

INSTABALT LATVIA SIA
Vestienas iela 6
Riga, LV-1035
Phone +371 790 1188
Fax +371 790 1180
info@instabalt.lv

Lebanon

Gemayel Trading & Contracting
Antonios Project
P.O. BOX 70-1096
Antelias, Lebanon
Phone +961 4 521 029
Fax +961 4 521 029
gtc.libanon@gmail.com

Lithuania

INSTABALT LIT UAB
Savanorių 187
Vilnius, 2053
Phone +370 52 322 295
Fax +370 52 322 247
info@instabalt.lt

Luxembourg

please contact WAGO Belgium

Macedonia

please contact WAGO Bulgaria

Malaysia

WAGO Representative Office Malaysia
No 806, Block A4, Leisure Commerce Square,
No 9, Jalan PJS 8/9, 46150 Petaling Jaya,
Selangor Darul Ehsan, Malaysia
Phone +60 3 7877 1776
Fax +60 3 7877 2776
kian.guan.tan@wago.com

HPH Materials (M) Sdn Bhd
No. 4, Jalan Nilam 1/6
Suban Hi-Tech Industrial Park
40000 Shah Alam
Selangor, D.E. Malaysia
Phone +60 3 5638 2213
Fax +60 3 5638 8213
info@hphmaterials.com

Setia Raya Teknik Sdn. Bhd.
40 & 42 Jalan SS15/4
Subang Jaya, 47500 P.J.
Selangor D.E. Malaysia
Phone +60 3 5633 5511
Fax +60 3 5633 3411
sales@setiaraya.com.my

Mexico

WAGO SA de CV
Av. Del Marques 38 Bodega 3
P. I. Bernardo Quintana
76240 El Marques, Querétaro
Phone +52 442 221 5946
Fax +52 442 221 5063
Toll-Free: 001-800-309-5975
info.mx@wago.com

Netherlands

WAGO Nederland
Laan van de Ram 19
7324 BW Apeldoorn
Phone +31 55 36 83 500
Fax +31 55 36 83 599
info-nl@wago.com

New Zealand

NHP NZ
7 Lockhart Place
Mt Wellington
New Zealand
Phone +64 9 2761967
Fax +64 9 2761992
export@wago.com

Norway

WAGO Norge NUF
Jerikoveien 20
1067 Oslo
Phone +47 22 30 94 50
Fax +47 22 30 94 51
info.no@wago.com

Pakistan

FuziLogix Automation & Control
Suit No. 14, 5th Floor, Shan Arcade
New Garden Town, Lahore
Pakistan
Phone +92 42 594 1503 - 4
Fax +92 42 585 1431
info@fuzilogix.com

Peru

Desimat Peru
Av. Velasco Astete 2371
Surco Lima
Phone +51 1 2752776
Fax +51 1 2752765
export@wago.com

Philippines

please contact WAGO Singapore

Poland

WAGO ELWAG sp. z o. o.
ul. Piekna 58 a
50-506 Wrocław
Phone +48 71 3602970
Fax +48 71 3602999
wago.elwag@wago.com

Portugal

MORGADO & CA. LDA - SEDE
Estrada Exterior da
Circunvalação 3558/3560
Apartado 1057
4435 Rio Tinto
Phone +351 22 9770600
Fax +351 22 9770699
export@wago.com

Republic of Moldova

Electroservice Slavinschi T.T.
str. Bolgarskaia 9, office 6
2001 Kishinev
Phone +373 22 274427
Fax +373 22 224481
es@es.mldnet.com

Romania

WAGO Kontakttechnik GmbH & Co. KG
WAGO Representative Office Bucharest
Str. Nicolae G. Caramfil Nr. 26, Bl. 1D, Et. 3, Ap. 7, Sect. 1, OP52
014144-Bucuresti, Romania
Tel. +40-(0)31 421 85 68
Fax +40-(0)21 232 02 31
info-ro@wago.com

VDR & Servicii srl
Str. Valeriu Braniște, nr. 60, ap.1, sector 3
Romania
Phone +40 21 3225074/76
Fax +40 21 3225075
office@componente-automatizari.ro

Russia

OOO WAGO Kontakt Rus
Gostlinichny proezd 4B
127106 Moscow
Russia
Phone +7 495 9874790
Fax +7 495 9874791
info.ru@wago.com

WAGO Branch office
Ekaterinburg
Phone +7 343 216 3426

WAGO Branch office
Novosibirsk
Phone +7 383 217 9244

WAGO Branch office
St. Petersburg
Phone +7 812 312 1918

Saudi Arabia

Ali Zaid Al Quraishi & Partners Electrical Services of S.A.
Al Quraishi Center, King Khalid Street
P.O. Box 7386
Dammam - 31462
Phone +966 3 8351155
Fax +966 3 8352297
info.uae@wago.com

Serbia

please contact WAGO Bulgaria

Tagor Electronic doo
Tihomira Brankovica 21
18000 Nis
Tel. +381 18 575545
Fax +381 18 217125
ana.aleksic@tagor.rs

Singapore

WAGO Electronic Pte Ltd
10 Upper Aljunied Link
#04-04 Johnson Controls Building
Singapore 367904
Phone +65 62866776
Fax +65 62842425
info-sing@wago.com

Slovakia

WAGO Elektrik spol. s r. o.
Odborárska 52
83102 Bratislava
Tel. +421 2 4569 2503
export@wago.com

Proelektro spol. s r. o.
Na barine 22
84103 Bratislava Lamač
Tel. +421 2 4569 2503
info@wago.sk

Slovenia

GENERA d.o.o.
Prevala 10
1236 Trzin
Phone +386 14393050
Fax +386 14393090
genera@genera.si

IC elektronika d.o.o.
Vodovodna cesta 100
1000 Ljubljana
Phone +386 15680110
Fax +386 15689107
info@ic-elect.si

South Africa

Shorrock Automation (Pty) Ltd
Postnet Suite # 219
Private Bag X 8, Elardus Park
0047 Pretoria
Phone +27 12 4500300
Fax +27 12 4500322
sales@shorrock.co.za

Spain

DICOMAT S.L.
Avda. de la Industria, 36
Apartado Correos, 1.178
28108 - Alcobendas (Madrid)
Phone +34 91 6621362
Fax +34 91 6610089
info@dicomat.com

Sweden

WAGO Sverige
WAGO Kontakttechnik GmbH
Tyskland Filial
Box 639, 17527 Järfälla
Datavägen 9 A, 17543 Järfälla
Phone +46 858410680
Fax +46 858410699
info.se@wago.com

Switzerland

WAGO CONTACT SA
Rte. de l'Industrie 19
Case Postale 168
1564 Domdidier
Phone +41/26 676 75 86
Fax +41/26 676 75 01
info.switzerland@wago.com

Syria

Zahabi Co.
8/5 Shouhadaa St., P.O. Box 8262
Aleppo
Phone +963 21 21 22 235 / 6
Fax +963 21 21 24 768
info.uae@wago.com

Taiwan R.O.C.

WAGO Contact, Ltd.
5F., No. 168, Jiankang Rd
Zhonghe City
Taipei County 23585, Taiwan
Phone +886 2 22250123
Fax +886 2 22251511
info.taiwan@wago.com

Thailand

WAGO Representative Office Thailand
4th Floor, KS Building
213/6-8 Rachada Phisek Road
Ding Daeng Bangkok 10320
Phone +66 2 6935611
Fax +66 2 6935612
wago@asianet.co.th

US Power Distribution Co., Ltd.
4th Floor K.S. Building
213/6-8 Rachada Phisek Road
Ding Daeng, Bangkok 10400
Phone +66 2 2763040
Fax +66 2 2763049
wago@asianet.co.th

Turkey

WAGO Elektronik Sanayi ve Ticaret Ltd. Şti.
Yukan Dydullu Mahallesi Bayraktar Bulvan
34775 Ümraniye - İstanbul
Türkiye
Tel. +90 216 472 1133
Fax +90 216 472 9910
info.tr@wago.com

Ukraine

NPP Logicon
Predslavinskaya street, 39, office 303
03150 Kiev
Phone +380 44 5228019
Fax +380 44 2611803
info@logicon.ua

OOO Mikropribor
ul. Kotelnikova, 4
03115 Kiev
Phone +380 44 5369386
Fax +380 44 5369387
sales@micropribor.kiev.ua

United Arab Emirates (UAE)

WAGO Middle East (FZC)
SAIF Zone, Q4-282
P.O. Box: 120665
Sharjah, UAE
Phone +971 6 5579920
Fax +971 6 5579921
info.uae@wago.com

USA

WAGO Corporation
N120 W19129 Freistadt Road
Germantown, WI 53022
Phone +1 262 255 6222
Fax +1 262 255 3232
Toll-Free: 1-800 DIN Rail (346-7245)
info.us@wago.com

Venezuela

PETROBORNAS, C.A.
C.C. PLAZA AEROPUERTO - PISO 1 - LOCAL P1 - B - 03
(8015) UNARE - PUERTO ORDAZ - ESTADO BOLIVAR
REPÚBLICA BOLIVARIANA DE VENEZUELA
Tel. +58 286 994 3406
Fax +58 286 994 5249
info@petrobornas.net

Vietnam

please contact WAGO Germany (Minden)

