











PRODUCT SHORTFORM

PSF 3.3



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Over 50 Years of

1951



► The first WAGO spring clamp:
patent No. 838778

■ Since its foundation in 1951, WAGO has been pioneering innovative connection systems in electrical engineering and electronics. The idea of the first WAGO terminal blocks was born in 1951 and the first terminal blocks with spring clamp termination technology were presented at the Hanover Fair the same year. Precisely designed and manufactured, they not only guarantee a faster and easier connection but also offer a higher safety level since the contact quality is largely independent of the experience of the installer. Now WAGO is the specialist of spring clamp termination technology and is providing components for automation technology. The year 1977 is when the success story of the CAGE CLAMP® began – “vibration-proof, fast and maintenance-free connections”.

1974



► WAGO push-wire connectors
for junction boxes. The original!

1977

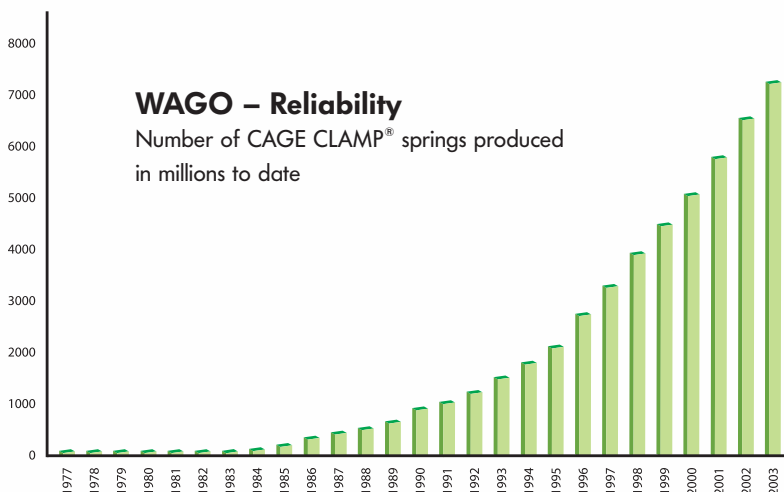


► Terminal blocks 0.08 mm² – 35 mm²
with CAGE CLAMP®

1995



► WAGO → I/O → SYSTEM



Innovations – Worldwide

The safe functioning of many devices, machines and installations depends on the absolute reliability of our products. As a result, the availability of the devices and machines produced by the WAGO customers can be increased and the image of their companies enhanced. The WAGO products can be found everywhere where electrical conductors need to be connected permanently and safely and in automation systems in different industrial applications.

More than 4600 employees worldwide are at the service of the customer, in development, production and marketing.

Global availability of our products and services is guaranteed by

- 9 main production sites
- 27 WAGO companies
- 31 WAGO representations



Main production sites



► Minden/Germany
Headquarters, development, production



► Sondershausen/Germany
Logistics centre, production



► Domdidier/Switzerland
Production

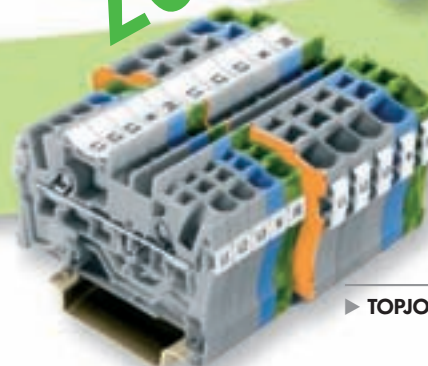


2001



► WINSTA®

2004



► TOPJOB® S

► Series 222

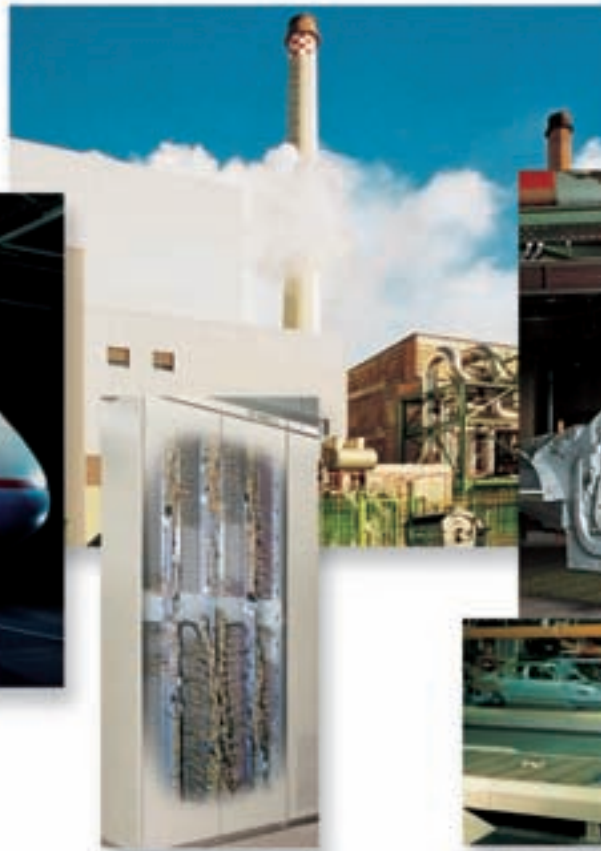


The Wide Variety of Applications...



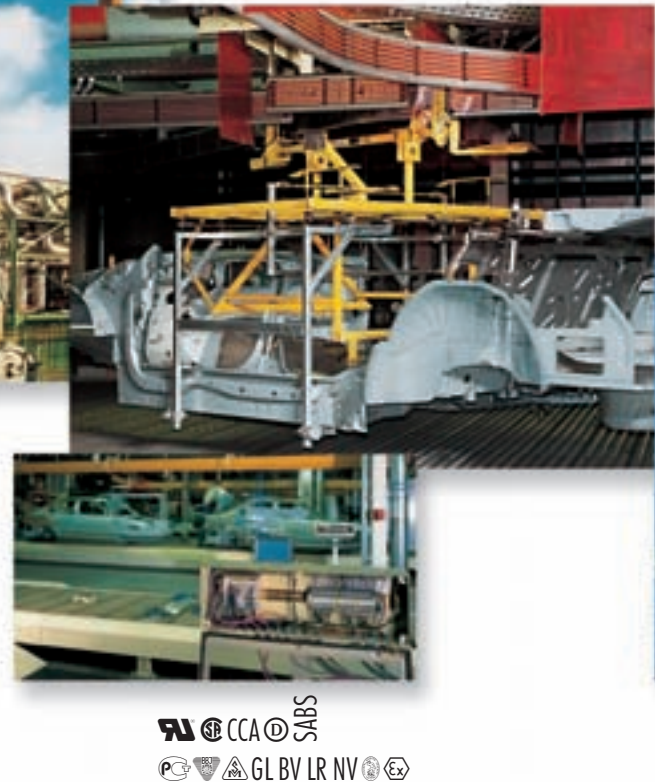
In worldwide railway traffic

■ For more than 25 years, WAGO CAGE CLAMP® technology has been ensuring trouble-free clamping connections in electrical installations in trams, underground railways, carriages, locomotives, all ICE generations, magnetic levitation train prototypes and the Shanghai Transrapid. In addition to the WAGO rail-mounted terminal blocks, terminal strips and connectors, the WAGO X-COM®-SYSTEM, a modular, rail-mounted connector system has proved its worth during assembly, wiring and maintenance work. Moreover, it saves time and money. ■



In power generation and distribution

■ In 1955, terminal blocks with spring clamp connection were already being used in the control room of a nuclear energy center. Today, WAGO rail-mounted terminal blocks, terminal strips, PCB terminal blocks, matrix patchboards, connectors, interface modules and the WAGO → I/O → SYSTEM are constantly used in power generation, distribution and measuring installations. Absolute reliability during operation, easy servicing and long-term durability; with installations that have to run for decades, these are connection requirements that are hard to find in any other application. In addition to that, it might be that the switchgear cabinet enclosure is the only protection against the weather, in outdoor installations for example. WAGO products with CAGE CLAMP® connection meet all these requirements. ■



In car manufacture

■ WAGO products with CAGE CLAMP® such as rail-mounted terminal blocks, terminal strips, the MULTI CONNECTION SYSTEM or the WAGO → I/O → SYSTEM contribute to a high availability of the production facilities: In switch or control cabinets in the press plant, in the bodyshell production, final assembly or in the paint shop. The vibration-proof and maintenance-free CAGE CLAMP® provides double savings: wiring is done quickly and the routine maintenance work to control the clamping units is no longer necessary. ■

...Years of Experience in Worldwide Applications



In shipbuilding, on and offshore installations

■ Electrical installations in ships were among the first applications for WAGO rail-mounted terminal blocks with CAGE CLAMP® connection. Vibrations are always present on ships. Time and again, these vibrations lead to loose connections in screw clamp terminal blocks since screws tend to untighten. This then requires time and cost intensive routine maintenance work. The CAGE CLAMP® connection technology makes this work redundant. The WAGO → I/O → SYSTEM as well as WAGO terminal blocks and connectors are used successfully worldwide in the following: Sailing and motor boats, luxury liners, container and special vessels, high speed ferries, military catamarans, loading and container terminals, oil and gas platforms as well as different offshore applications. ■

In building installation

■ In 1974, WAGO revolutionised the wiring of distribution boxes in building installation with the WAGO push-wire connectors for junction boxes. Rail-mounted and installation multi-level terminal blocks with CAGE CLAMP® connection, the WINSTA connector system and TOPJOB®S rail-mounted terminal blocks with CAGE CLAMP®S connection are other groundbreaking WAGO products that contribute to making building installation more economical and to increasing long-term durability of the installations. Special components, including radio modules that don't require an external power supply, add to the WAGO → I/O → SYSTEM and allow flexible and future-oriented decentralised building automation via LONWORKS or ETHERNET. The hardware is supported by intelligent software solutions to a universal programming environment in accordance with IEC 61131-3. ■

In production and process automation

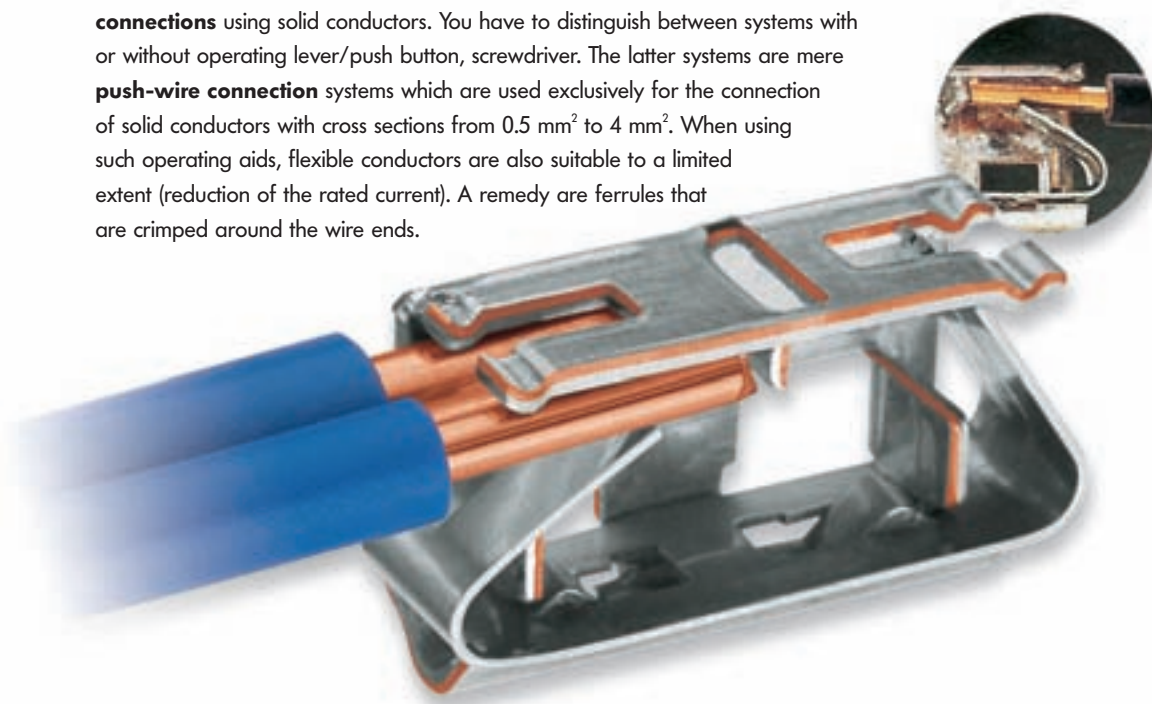
■ Ex applications require special components. In addition to WAGO Ex rail-mounted terminal blocks with IECEx and ATEX 100a approvals, the WAGO → I/O → SYSTEM is also suitable for use in hazardous areas. For a long time, standard components have already been used in Zone 2 applications. Using intrinsic I/O modules it is possible to directly connect sensors and actuators from Zones 1 and 0 to Zone 2. The PROFIsafe modules are ideal for safety applications, which represent 10 – 20%, up to category 4 in accordance with EN 945-1 or SIL 3 according to IEC 61508 and AK 6 (DIN V 19250). Standard, Ex and PROFIsafe components can be combined within one single fieldbus node. This means flexibility and economy. ■

WAGO – The World of Spring

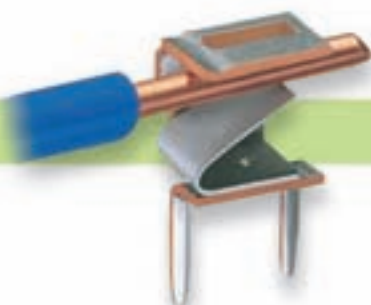
Since the foundation of the company in 1951, terminal blocks and connectors equipped with innovative spring clamp termination technology have been manufactured by WAGO. Many of the spring clamp termination systems that have been developed and patented by WAGO are now used worldwide, for example, in rail-mounted terminal blocks, in PCB terminal blocks, connectors, electronic modules, in the WAGO-I/O-System and other products as well.

LEAF SPRING CONNECTION

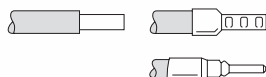
- In the first instance, clamping systems with **leaf springs** are appropriate for **push-wire connections** using solid conductors. You have to distinguish between systems with or without operating lever/push button, screwdriver. The latter systems are mere **push-wire connection** systems which are used exclusively for the connection of solid conductors with cross sections from 0.5 mm^2 to 4 mm^2 . When using such operating aids, flexible conductors are also suitable to a limited extent (reduction of the rated current). A remedy are ferrules that are crimped around the wire ends.



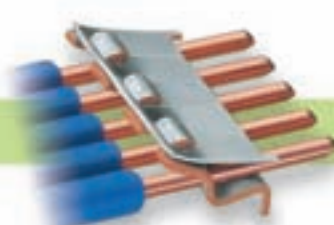
WAGO Connection Technologies for Countless Products and Applications



Leaf spring connection
up to 2.5 mm^2



up to 1.5 mm^2 (with operating lever)



Push-wire connection
up to 4 mm^2



IDC connection



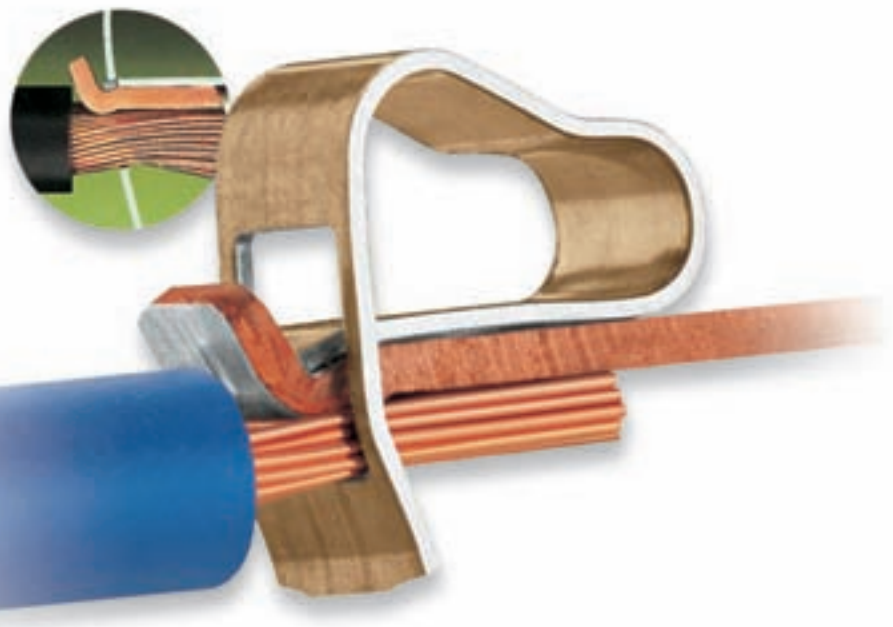
up to 1.0 mm^2

up to 1.5 mm^2

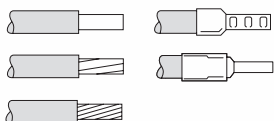
Clamp Termination Systems

CAGE CLAMP® CONNECTION

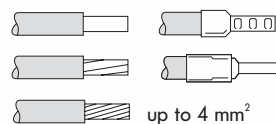
► Thousands of products and product variations from the WAGO range are based on the worldwide renowned **CAGE CLAMP® connection** suitable for all types of conductors ranging from 0.08 mm² / AWG 28 to 35 mm² / AWG 2, **POWER CLAMP** up to 95 mm² / AWG 4/0.



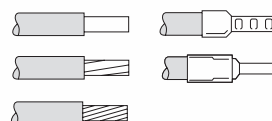
CAGE CLAMP®
up to 35 mm²



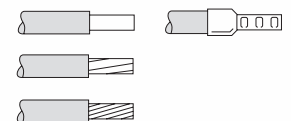
CAGE CLAMP® Compact
up to 2.5 mm² / AWG 12



CAGE CLAMP®S
up to 16 mm²

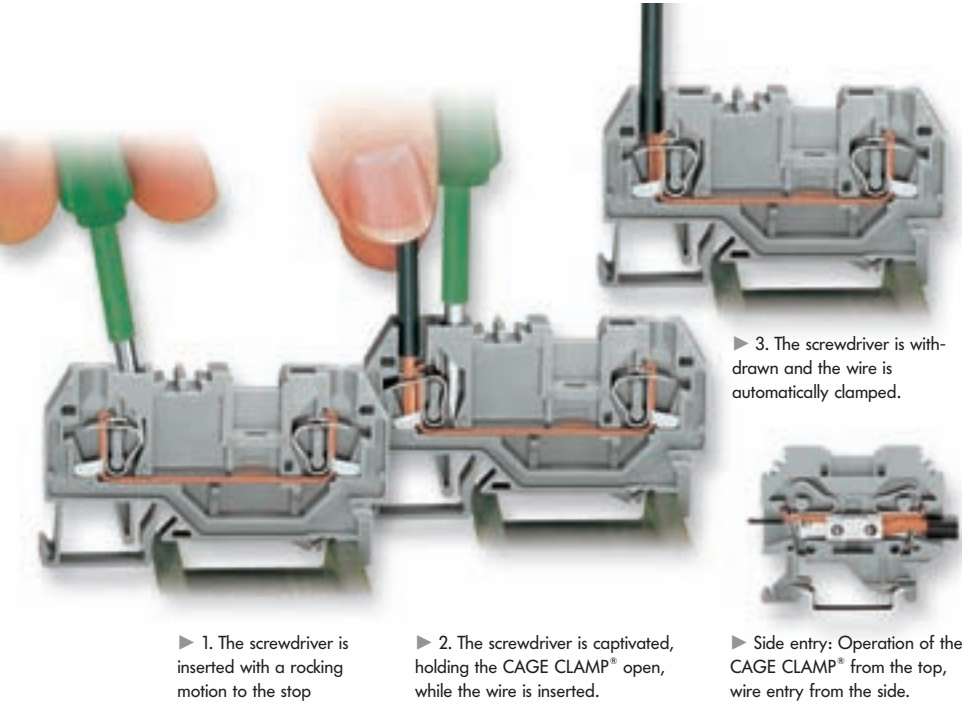


POWER CLAMP
up to 95 mm²



The advantages of the CAGE CLAMP®

How is the operation of CAGE CLAMP® different from screw-clamp blocks?



▶ 1. The screwdriver is inserted with a rocking motion to the stop

▶ 2. The screwdriver is captivated, holding the CAGE CLAMP® open, while the wire is inserted.

▶ 3. The screwdriver is withdrawn and the wire is automatically clamped.

▶ Side entry: Operation of the CAGE CLAMP® from the top, wire entry from the side.

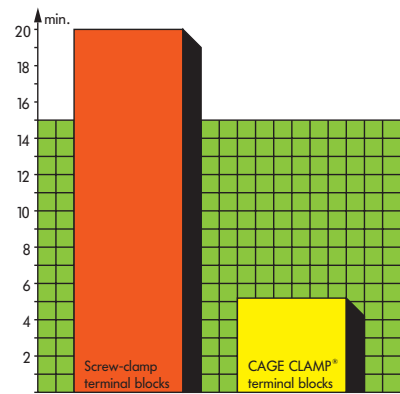
■ Screw connections are “operator-dependent”. In other words, they require judgment on the part of the installer as to the tightness of the screw. This can be somewhat controlled in a factory setting with trained personnel, or with special torque screwdrivers. With field wiring, proper screw connections are more difficult to ensure. CAGE CLAMP®’s automatic clamping feature allows less skilled labor to make quality connections. A precise, uniform contact is made regardless of who makes the connection. CAGE CLAMP® requires no special tools and is operated with a standard straight-bladed screwdriver. Two styles of terminal blocks are available: side-entry and front-entry. ■

How does the wiring time for CAGE CLAMP® compare to screw-clamp blocks?

■ Public wiring competitions and major customer time studies have proven a reduction of wiring time by 75 % when comparing manual wiring of screw-type terminals with CAGE CLAMP® terminals. Even when powered screwdrivers are used for tightening the clamping screws, there is still a time savings advantage

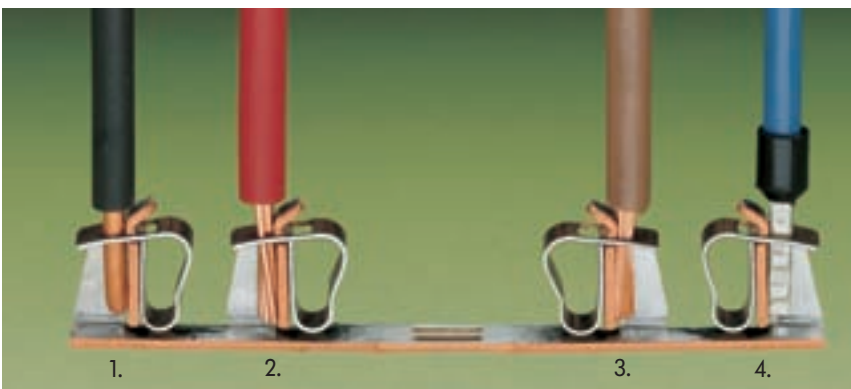
for CAGE CLAMP®. In cases where wire preparation such as crimps, ferrules or tinning can be eliminated, there are additional savings. ■

▶ Average wiring time for 100 connections each.



The CAGE CLAMP®

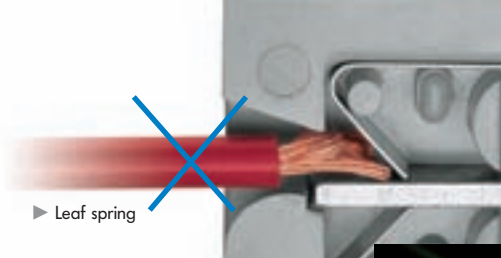
Suitable for all copper conductors – 1 conductor per clamping unit



■ A universal system: suitable for all copper conductors from AWG 26 (0.08 mm²) up to AWG 2 (35 mm²). Special conductor preparation not necessary – but possible. In many standards and specifications “1 conductor per clamping unit” is prescribed or recommended. ■

◀ Several clamping units per current bar but nevertheless “1 conductor per clamping unit”

1. solid
2. stranded
3. flexible
4. flexible with ferrule (gastight crimped)

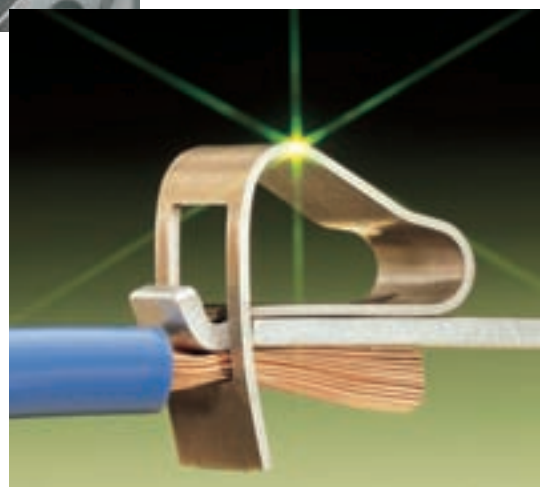


▶ Leaf spring

What is CAGE CLAMP® and how is it different from other screwless systems?

■ CAGE CLAMP® is a unique, patented, stainless steel clamping mechanism designed to automatically connect solid or stranded wires. Various CAGE CLAMP® sizes are available to accommodate wire sizes from 0.08 mm² – 35 mm². Other than stripping the wire, no special wire preparation such as crimps, ferrules or tinning is necessary. Most screwless systems

offered by other manufacturers are based on the leaf-spring principle. This type of connection is found in the back of many electrical outlets. Leaf-spring is only recommended for larger, solid wire since it has no sides to contain the strands and because of the sharp angle in which the wire is contacted. ■



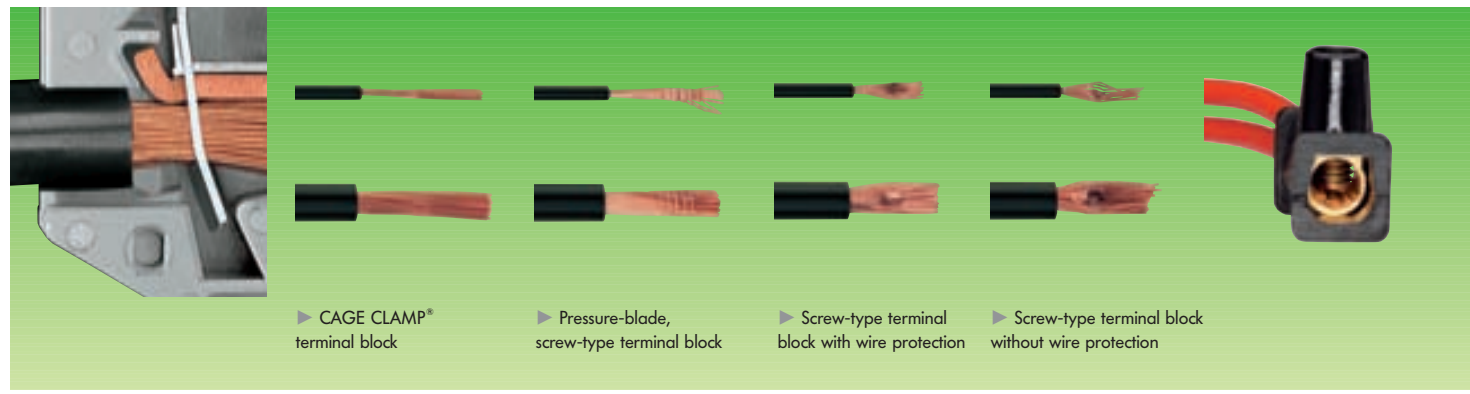
▶ The WAGO CAGE CLAMP®

How does the CAGE CLAMP® secure the wire without wire damage?

■ The CAGE CLAMP® is designed to give proportional clamping, dependent upon the wire size. The larger the wire, the higher the clamping force. The flat surface area of the CAGE CLAMP® coupled with the uniquely curved current bar provides a

secure connection. Also, the angle in which the CAGE CLAMP® is positioned, increases the retention force when a pullout force is applied. Each of the photos below show an 0.18 mm² and 1.5 mm² wire that was connected to the terminal block indicated.

The tightening torque used for the screw-type terminal blocks was the torque specified by VDE 0609. In practical use this value varies and is dependent upon the operator, whereas, the CAGE CLAMP® connection is automatic and consistent everytime. ■



▶ CAGE CLAMP® terminal block

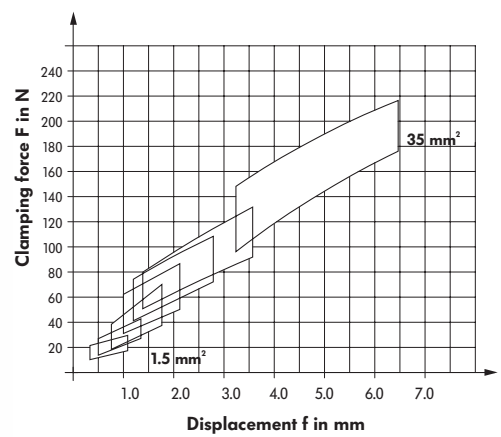
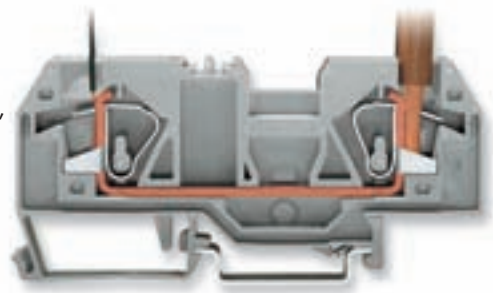
▶ Pressure-blade, screw-type terminal block

▶ Screw-type terminal block with wire protection

▶ Screw-type terminal block without wire protection

■ The clamping force adjusts automatically to the conductor cross section. The flat clamping face of the CAGE CLAMP® spring presses the conductor against the current bar without damage. Any deformation or movement of the conductor is compensated, thus eliminating the risk of a loose connection. ■

▶ An unlikely connection demonstrates the capability: a conductor of AWG 24 (0.2 mm²) at the left and the nominal cross section of AWG 6 (16 mm²) at the right in an AWG 6 (16 mm²) terminal block.



What are the quality features of the CAGE CLAMP®?



■ One of the main quality criteria for electrical contacts are their long-term durability ensured by a gastight contact area. This is normally achieved through the conductor being embedded into the tin surface of the busbar. The contact area is hence protected permanently against corrosion.

Another significant factor that determines the quality of a terminal connection is contact pressure. The following example shows that CAGE CLAMP® connections provide a contact pressure in the same region as a properly tightened screw clamp connection:

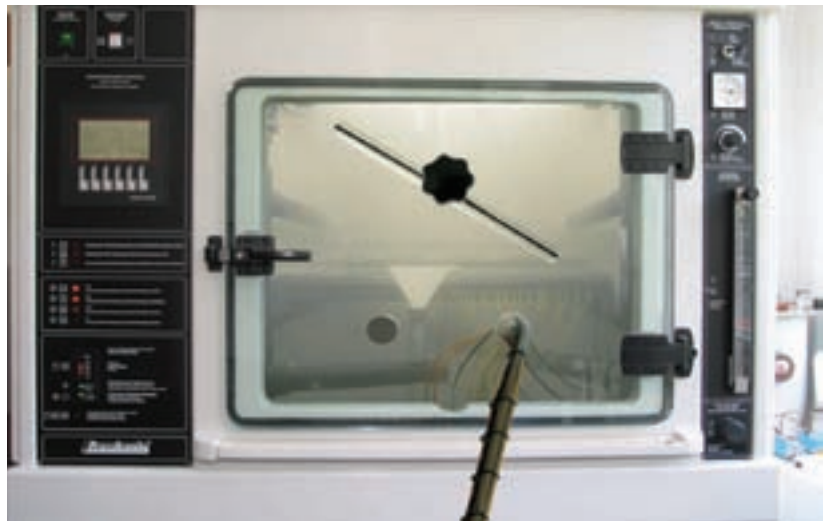
Contact pressure P

$$P = \frac{\text{Force } F}{\text{Area } A} = \frac{550 \text{ N}}{4 \text{ mm}^2 \text{ (screw)}} = \frac{55 \text{ N}}{0.4 \text{ mm}^2 \text{ (CAGE CLAMP®)}} = 138 \text{ N/mm}^2$$

Moreover, CAGE CLAMP® connections are particularly reliable and are of the same quality as screw clamp connections that are re-tightened regularly. ■

Why is the CAGE CLAMP® connection resistant to corrosion?

■ The contact materials used in WAGO terminal blocks and connectors are inherently corrosion resistant. The stainless-steel CAGE CLAMP® exerts a high specific pressure which embeds the conductors into the soft tin of the current bar. The resulting connection is “gas-tight”, not allowing corrosive gases to penetrate and degrade it. ■



Why does CAGE CLAMP® perform well both in applications with low voltages (mV) and low currents (mA)?

■ As long as the surfaces are clean and free of oxides at the time of wire insertion (low voltage signals can not “punch

through” oxidation), the gastight nature of CAGE CLAMP® will maintain the connection quality.

The CAGE CLAMP® system has also been used with excellent results for thermocouple connections. ■

Why is CAGE CLAMP® maintenance-free?

■ Unlike most screw-type terminal blocks, CAGE CLAMP® connections do not require checking or retightening the loose connections resulting from vibration, temperature

cycling, settling strands, etc. The built-in reliability of CAGE CLAMP® can reduce downtime and services calls for the customer. Most service departments estimate that 35-

50 % of all service calls are the results of poor connections. Considering the high cost of service calls and the loss of production time, the savings can be significant. ■

What effect does high current or a short circuit have on CAGE CLAMP®?



■ VDE specifications limit the temperature rise of terminal blocks to 45 Kelvin under continuous load at nominal current. After a current load of 1.6 times the nominal current over a period of one hour, WAGO terminal blocks do not show any signs of damage. The short circuit test according to IEC 17B specifies that 120 A per square mm has to be applied for a period of one second. CAGE CLAMP® connections pass this test without damage or impairment of their function. The impractical test shown (a fused circuit would limit such an occurrence) demonstrates the contact capability of CAGE CLAMP®. The current through a 4 mm² terminal block is increased until the conductor glows red. The block remains undamaged. ■

Why is CAGE CLAMP® unaffected by shock and vibration?

■ The CAGE CLAMP® itself has very little mass in relation to the high force it produces. The way in which the CAGE CLAMP® is mounted on the current bar insures that a favorable division of masses (of current bar, conductor and CAGE CLAMP®) is obtained. These factors result in a connection which has high resistance to vibration and shock, without wire damage or measurable contact interruption. WAGO has tested CAGE CLAMP® for vibration up to 2000 Hz with accelera-

tions up to 20 G. Independent agencies have tested and passed CAGE CLAMP® for shock and vibration up to 2000 Hz with accelerations up to 109 G in each of three axes. CAGE CLAMP® also meets the vibration test requirements of VDE 0611 which incorporates a pull test while vibration is present. The UL "waggle" test also puts a rotational force on the wire while a pull out force is applied. ■



How do the retention forces for CAGE CLAMP® compare to agency requirements?

Conductor cross section mm ²	Pull out forces according to IEC 947-7-1/EN 60947-7-1/ DIN VDE 0611, part 1 N	Pull out forces measured on CAGE CLAMP terminal blocks		
		Solid N	Flexible N	Stranded N
0.14	-	-	10	-
0.2	10	20	15	-
0.5	30	30	30	-
0.75	30	35	30	-
1.0	35	40	35	-
1.5	40	60	40	85
2.5	50	90	60	100
4	60	140	90	-
6	80	170	100	-
10	90	300	180	-
16	100	-	220	240
25	135	-	280	310
35	190	-	350	400

■ Most agencies have minimum retention force requirements for both screw-type and screwless terminal blocks. As shown, the measured pull out values for CAGE CLAMP® meet and in most cases far exceed these values. ■

WAGO I/O SYSTEM

FIELD BUS INDEPENDENT

PROFIBUS

INTERBUS

ETHERNET TCP/IP

DeviceNet

CANopen

CAL

MODBUS

LONWORKS®

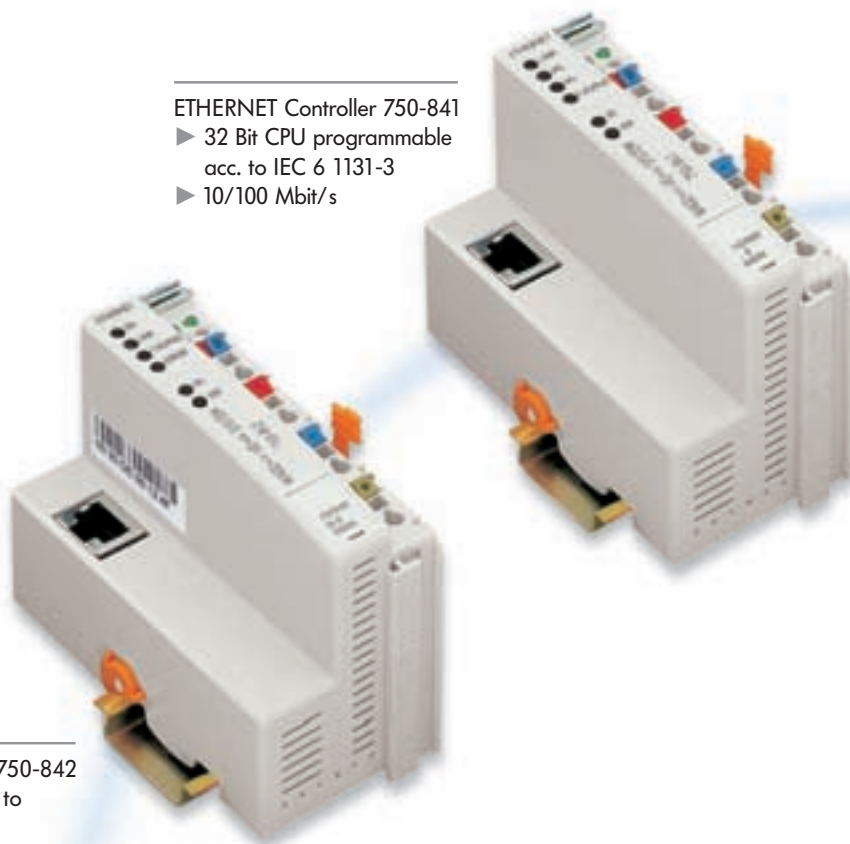
II/O-LIGHTBUS

Firewire

CC-Link

ETHERNET Controller 750-841

- ▶ 32 Bit CPU programmable acc. to IEC 6 1131-3
- ▶ 10/100 Mbit/s



ETHERNET Controller 750-842

- ▶ programmable acc. to IEC 6 1131-3
- ▶ 10 Mbit/s

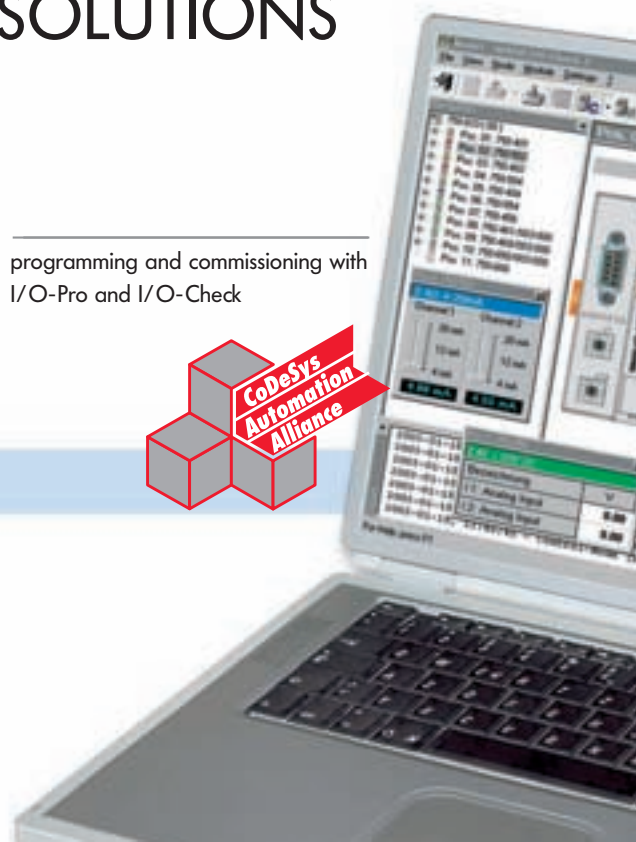
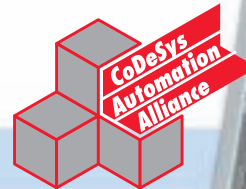
SCALABLE SOLUTIONS

ETHERNET coupler 750-341

- ▶ Modbus TCP
- ▶ 10/100 Mbit/s



programming and commissioning with I/O-Pro and I/O-Check

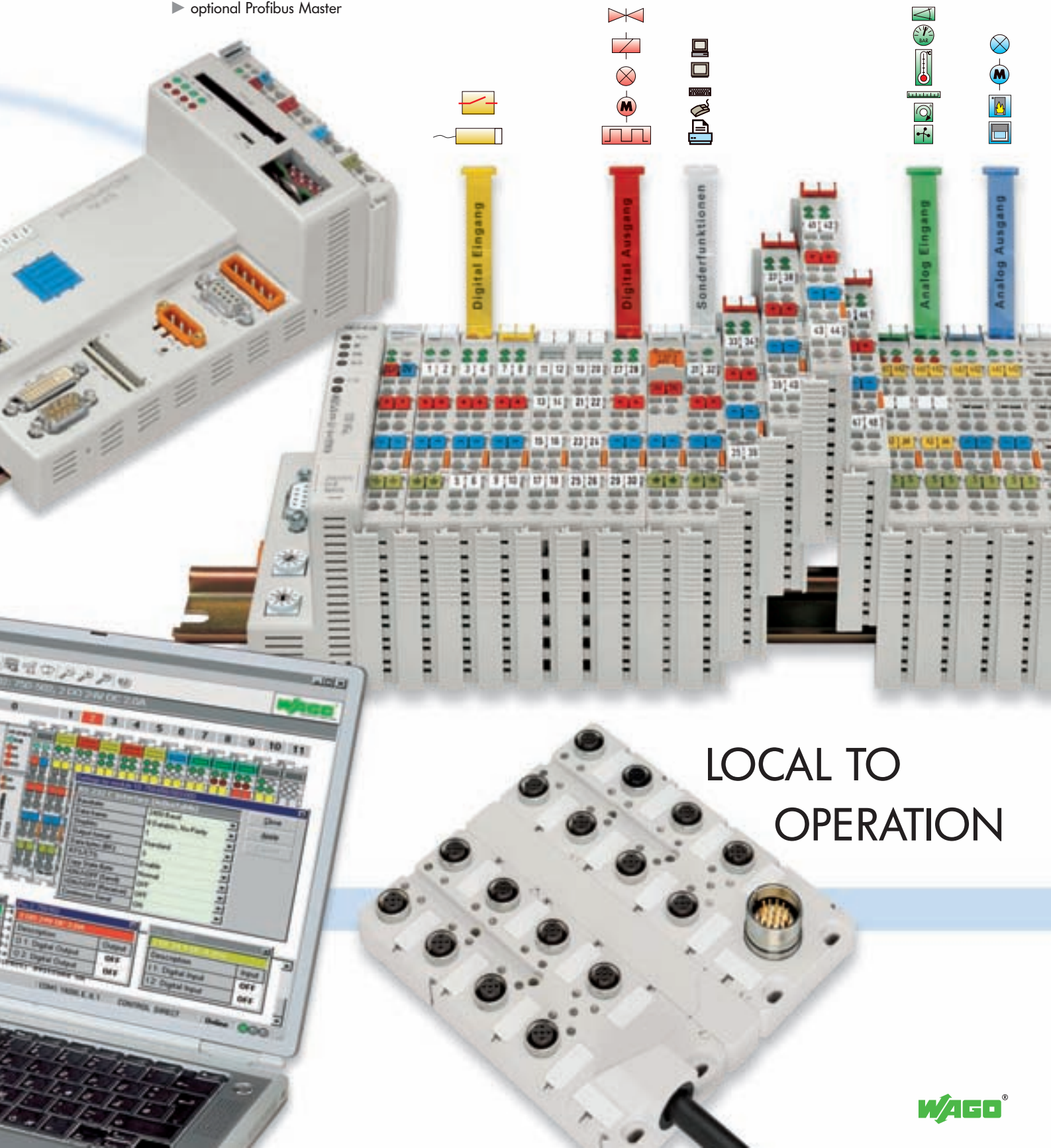


Flexible – Future-proof

MODULAR DOWN TO THE BIT

I/O IPC 758-870

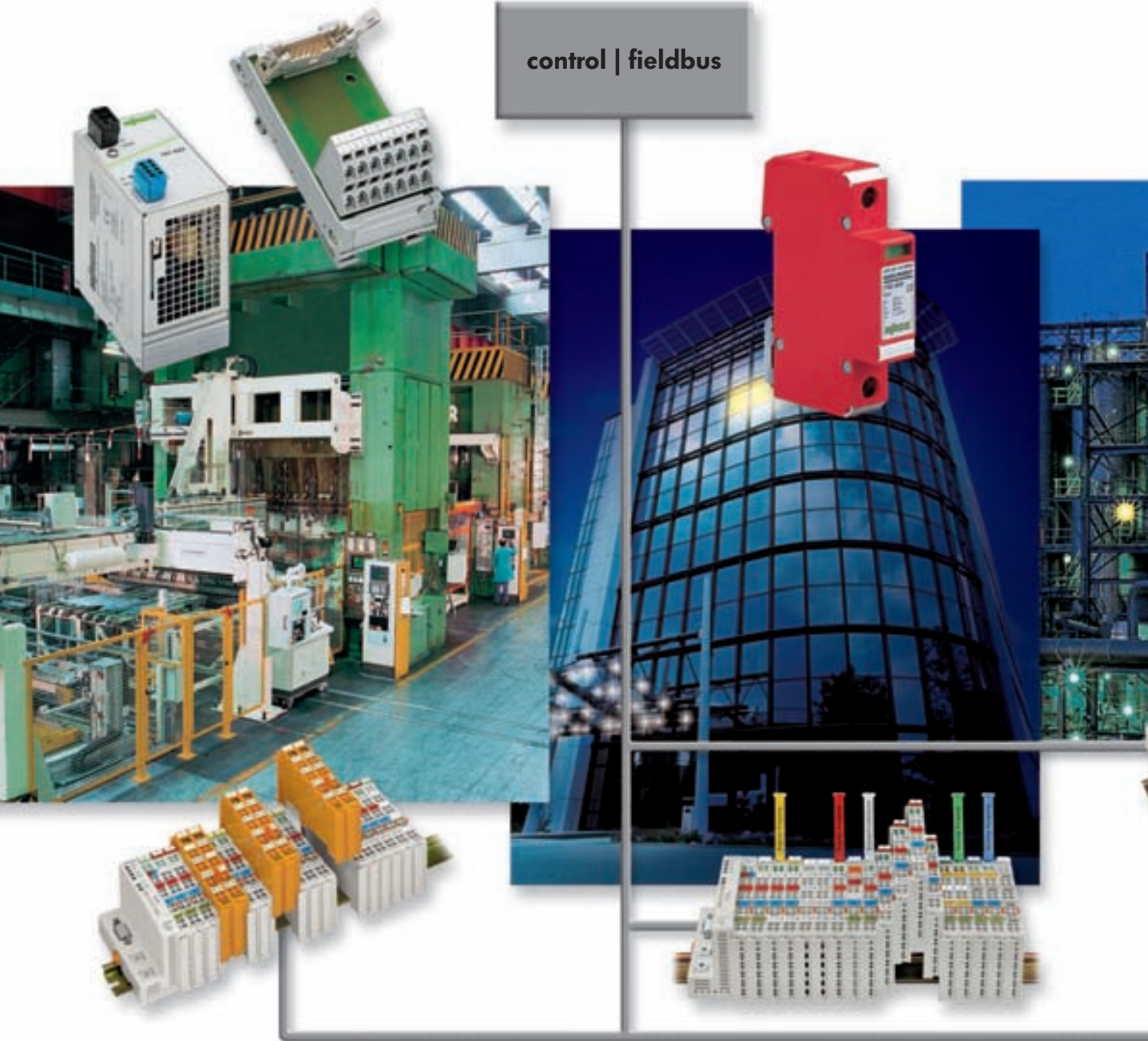
- ▶ Pentium MMX compatible CPU
- ▶ optional Profibus Master



LOCAL TO OPERATION

WAGO I/O SYSTEM

control | fieldbus



One solution – many applications



Rail-Mounted Terminal Blocks with CAGE CLAMP® Series 279 to 285

CAGE CLAMP® connection

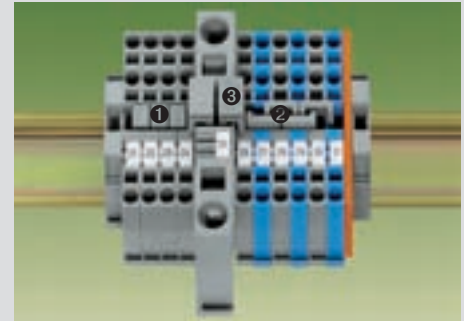


Wire connection with screwdriver



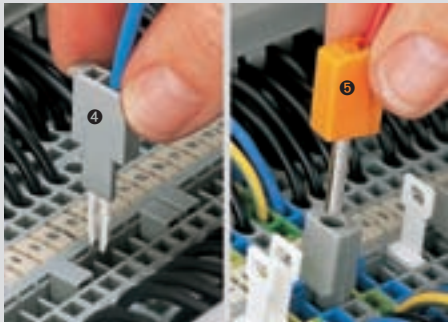
Wire removing with screwdriver

Commoning/Step-down jumper



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

Testing

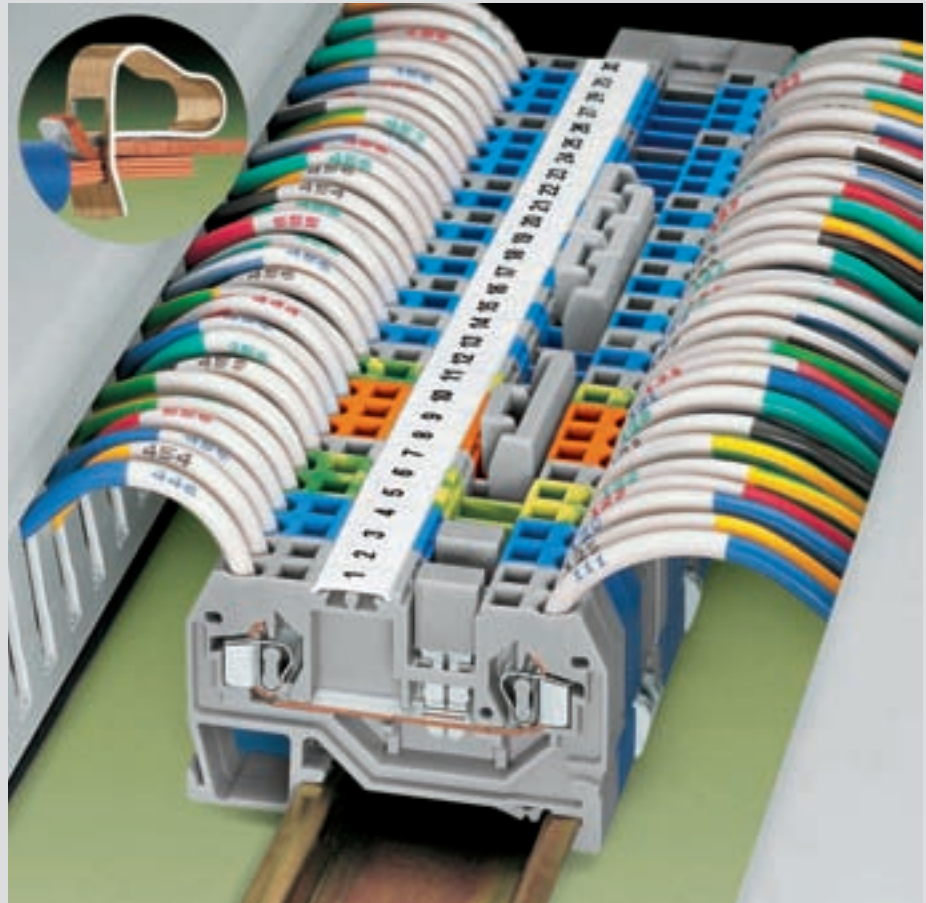


④ Test plug with CAGE CLAMP®
⑤ Banana plug Ø 4 mm/0.157 in using test plug adapter 209-170

Protective warning marker Insulation stop



⑥ Protective warning markers inserted into the operating slots
⑦ Insertion of insulation stop



Finger guard cover

Marking

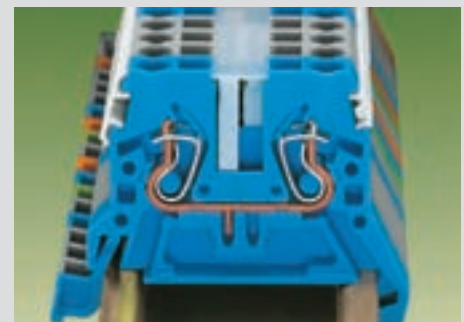


⑧ Touch protection for unused clamping units
⑨ Marking with WMB multi marking system or WSB quick marking system



Marking is done via the Plotter IP 350

Series 870 (see W4, Volume 1)



Rail mounted terminal blocks with CAGE CLAMP® COMPACT



CAGE CLAMP® clamps the following copper wires:

solid



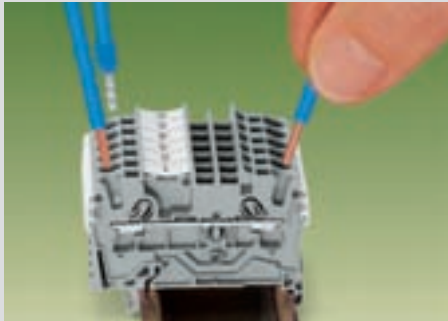
stranded



fine stranded, also with tinned single strands

Rail-Mounted Terminal Blocks with CAGE CLAMP®S Series 2001, 2002, 2004, 2006, 2010 and 2016

CAGE CLAMP®S connection

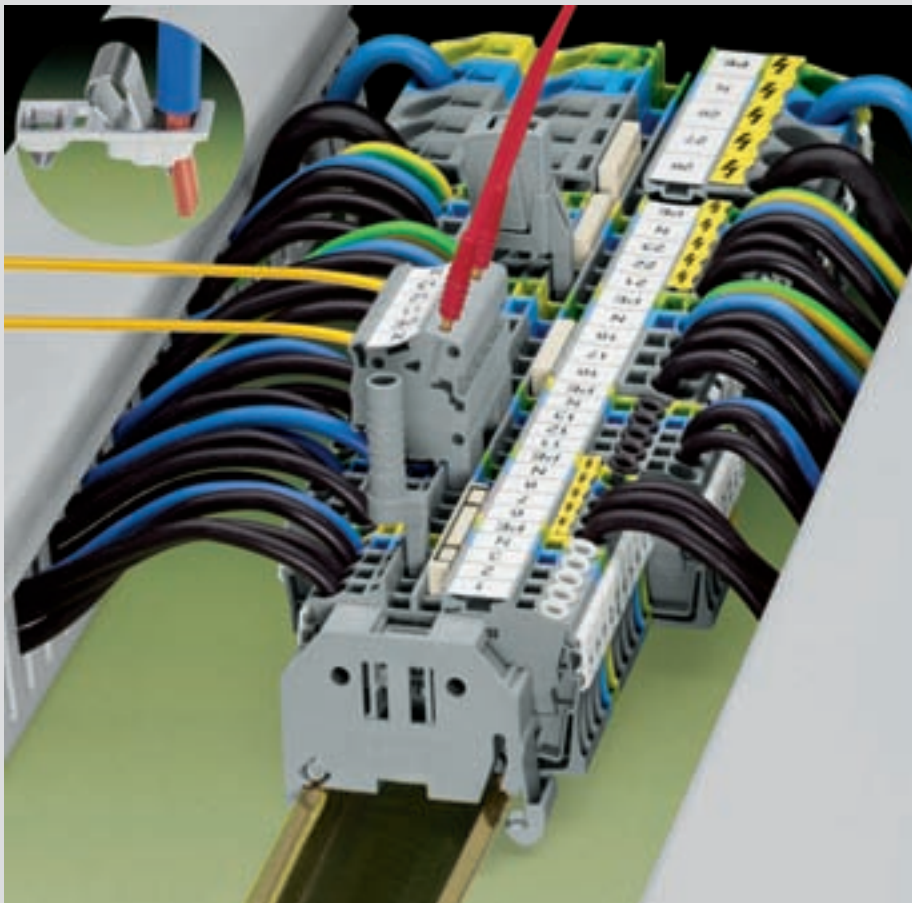


Direct insertion – Solid conductors with cross sections from either one cross section size above or up to two cross section sizes below the rated cross section can be pushed in directly - without tools.

In exactly the same way as the original CAGE CLAMP®, CAGE CLAMP®S is operated using a screwdriver when removing the conductor.



With screwdriver – the operation of the clamp remains the same for unprepared flexible conductors or small cross sections that don't allow direct insertion.



Marking



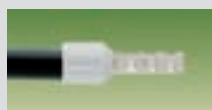
A thermal transfer printer and the WAGO "smart designer" software generate the marking.



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

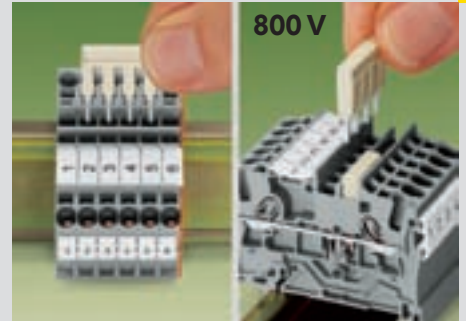


fine-stranded wire, tip bonded



fine-stranded wire with crimped ferrule

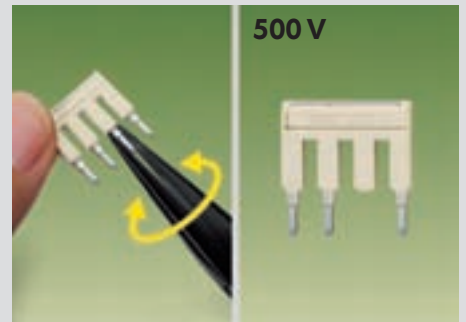
Commoning



Twin integrated, spring-loaded jumper system allows the use of comb-type jumper bars and test plugs.

The rated voltage of the jumper bars is 800 V (ex works).

Commoning



Jumper contacts that are not required can be broken off and removed and the upper side of the jumper can then be marked accordingly. The rated voltage is then 500 V. Applies to series 2001, 2002 and 2004.

Testing

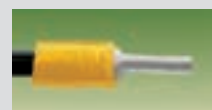


Testing of TOPJOB®S rail-mounted terminal blocks using test plug or testing tap.

Connection possibility



Modular connectors with CAGE CLAMP®S connection provide an additional connection possibility for 2 mm Ø or 2.3 mm Ø test plugs.

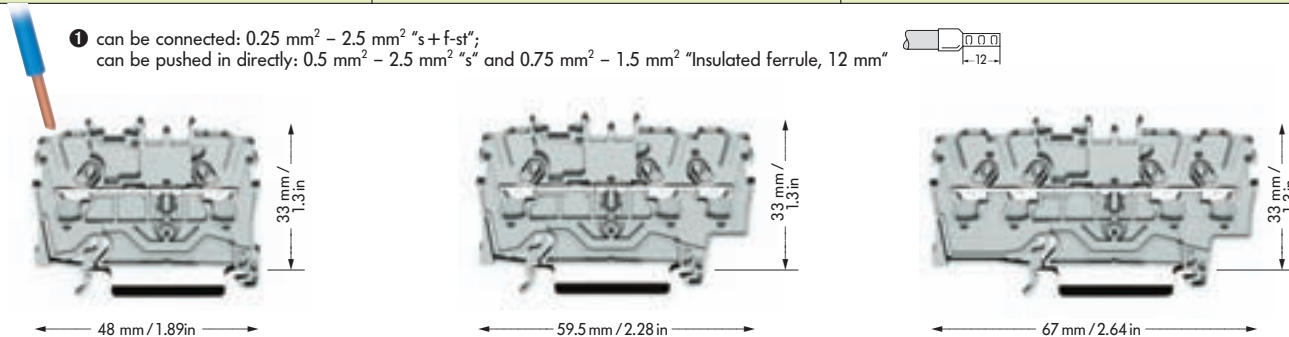
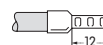


fine-stranded wire with crimped pin terminal

Through/Ground (Earth) and Ex Terminal Blocks 1.5 mm² with CAGE CLAMP® S Connection, Series 2001

<p>0.25 – 1.5 (2.5) mm² ① AWG 22 – 14 800 V/8 kV/3 18 A</p> <p>Terminal block width 4.2 mm / 0.165 in 9 – 11 mm / 0.39 in</p> <p>* </p>	<p>0.25 – 1.5 (2.5) mm² ① AWG 22 – 14 800 V/8 kV/3 18 A</p> <p>Terminal block width 4.2 mm / 0.165 in 9 – 11 mm / 0.39 in</p> <p>* </p>	<p>0.25 – 1.5 (2.5) mm² ① AWG 22 – 14 800 V/8 kV/3 18 A</p> <p>Terminal block width 4.2 mm / 0.165 in 9 – 11 mm / 0.39 in</p> <p>* </p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------

① can be connected: 0.25 mm² – 2.5 mm² "s+f-st";
can be pushed in directly: 0.5 mm² – 2.5 mm² "s" and 0.75 mm² – 1.5 mm² "Insulated ferrule, 12 mm"



Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks			4-conductor through terminal blocks		
grey	2001-1201	100	grey	2001-1301	100	grey	2001-1401	100
blue	2001-1204	100	blue	2001-1304	100	blue	2001-1404	100
orange	2001-1202	100	orange	2001-1302	100	orange	2001-1402	100
more colours are being prepared			more colours are being prepared			more colours are being prepared		
2-conductor ground (earth) terminal block			3-conductor ground (earth) terminal block			4-conductor ground (earth) terminal block		
green-yellow	2001-1207	100	green-yellow	2001-1307	100	green-yellow	2001-1407	100
End and intermediate plate, 0.8 mm/0.031 in thick			End and intermediate plate, 0.8 mm/0.031 in thick			End and intermediate plate, 0.8 mm/0.031 in thick		
	orange 2002-1292	100 (4 x 25)		orange 2002-1392	100 (4 x 25)		orange 2002-1492	100 (4 x 25)
	grey 2002-1291	100 (4 x 25)		grey 2002-1391	100 (4 x 25)		grey 2002-1491	100 (4 x 25)
Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5		

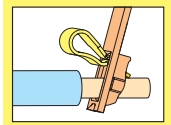
Accessories, Series 2001



















Appropriate marking system **WMB/Mini-WSB/marker strips**

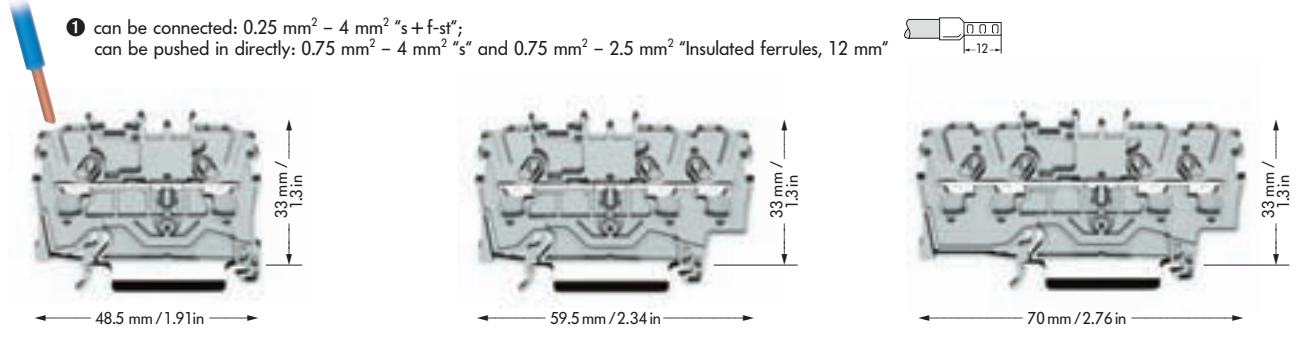
	Insulation stop, 5 pcs/strip	200 strips		Insulation stop, 5 pcs/strip	200 strips		Insulation stop, 5 pcs/strip	200 strips
	dark gr. 2001-172	0.75-1 mm ²		dark gr. 2001-172	0.75-1 mm ²		dark gr. 2001-172	0.75-1 mm ²
	Push-in type jumper bars, light grey, insulated, I _N 18 A			Push-in type jumper bars, light grey, insulated, I _N 18 A			Push-in type jumper bars, light grey, insulated, I _N 18 A	
	2-way 2001-402	200 (8 x 25)		2-way 2001-402	200 (8 x 25)		2-way 2001-402	200 (8 x 25)
	3-way 2001-403	200 (8 x 25)		3-way 2001-403	200 (8 x 25)		3-way 2001-403	200 (8 x 25)
	4-way 2001-404	200 (8 x 25)		4-way 2001-404	200 (8 x 25)		4-way 2001-404	200 (8 x 25)
	5-way 2001-405	100 (4 x 25)		5-way 2001-405	100 (4 x 25)		5-way 2001-405	100 (4 x 25)
	:			:			:	
	10-way 2001-410	100 (4 x 25)		10-way 2001-410	100 (4 x 25)		10-way 2001-410	100 (4 x 25)
Step down jumpers see page 4.7			Step down jumpers see page 4.7			Step down jumpers see page 4.7		
	Push-in type jumper bars, light grey, insulated, I _N 18 A			Push-in type jumper bars, light grey, insulated, I _N 18 A			Push-in type jumper bars, light grey, insulated, I _N 18 A	
	1 - 3 2001-433	200 (8 x 25)		1 - 3 2001-433	200 (8 x 25)		1 - 3 2001-433	200 (8 x 25)
	1 - 4 2001-434	200 (8 x 25)		1 - 4 2001-434	200 (8 x 25)		1 - 4 2001-434	200 (8 x 25)
	1 - 5 2001-435	100 (4 x 25)		1 - 5 2001-435	100 (4 x 25)		1 - 5 2001-435	100 (4 x 25)
	:			:			:	
	1 - 10 2001-440	100 (4 x 25)		1 - 10 2001-440	100 (4 x 25)		1 - 10 2001-440	100 (4 x 25)
	Modular TOPJOB® connector, for jumper contact slot			Modular TOPJOB® connector, for jumper contact slot			Modular TOPJOB® connector, for jumper contact slot	
	1-pole 2001-501	100 (4 x 25)		1-pole 2001-501	100 (4 x 25)		1-pole 2001-501	100 (4 x 25)
	Spacer module	2001-549		Spacer module	2001-549		Spacer module	2001-549
		100 (4 x 25)			100 (4 x 25)			100 (4 x 25)
	Test plug adapter, for test plug 4 mm/0.157 in Ø			Test plug adapter, for test plug 4 mm/0.157 in Ø			Test plug adapter, for test plug 4 mm/0.157 in Ø	
	2009-174	100 (4 x 25)		2009-174	100 (4 x 25)		2009-174	100 (4 x 25)
	Testing tap, for max. 2.5 mm ²			Testing tap, for max. 2.5 mm ²			Testing tap, for max. 2.5 mm ²	
	2009-182	100 (4 x 25)		2009-182	100 (4 x 25)		2009-182	100 (4 x 25)
	Marker strips, white, plain, for central marking,							
	11 mm/0.433 in wide,							
	on roll							
	50 m 2009-110	1						
	300 m 2009-130	1						
			Suitable for Ex i applications Ex e II applications in preparation					
							Screwdriver, with partially insulated shaft	
							210-619 (2.5 x 0.4) mm	


* You can find approvals on the internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.















<p>0.25 – 2.5 (4) mm²  AWG 22 – 12 800 V/8 kV/3 24 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>*     </p>	<p>0.25 – 2.5 (4) mm²  AWG 22 – 12 800 V/8 kV/3 24 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>*     </p>	<p>0.25 – 2.5 (4) mm²  AWG 22 – 12 800 V/8 kV/3 24 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>*     </p>
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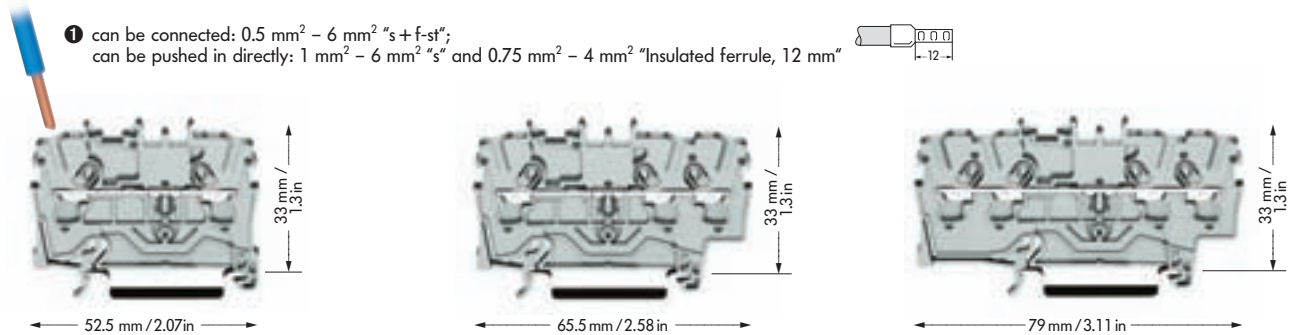
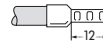








Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks			4-conductor through terminal blocks		
grey 	2002-1201 	100	grey 	2002-1301 	100	grey 	2002-1401 	100
blue 	2002-1204 	100	blue 	2002-1304 	100	blue 	2002-1404 	100
orange 	2002-1202 	100	orange 	2002-1302 	100	orange 	2002-1402 	100
more colours are being prepared			more colours are being prepared			more colours are being prepared		
2-conductor ground (earth) terminal block			3-conductor ground (earth) terminal block			4-conductor ground (earth) terminal block		
green-yellow 	2002-1207 	100	green-yellow 	2002-1307 	100	green-yellow 	2002-1407 	100
End and intermediate plate, 0.8 mm/0.031 in thick			End and intermediate plate, 0.8 mm/0.031 in thick			End and intermediate plate, 0.8 mm/0.031 in thick		
	orange 2002-1292 100 (4 x 25)			orange 2002-1392 100 (4 x 25)			orange 2002-1492 100 (4 x 25)	
	grey 2002-1291 100 (4 x 25)			grey 2002-1391 100 (4 x 25)			grey 2002-1491 100 (4 x 25)	
Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5		
Accessories, Series 2002			Appropriate marking system WMB/Mini-WSB/marker strips					
Insulation stop, 5 pcs/strip 200 strips			Insulation stop, 5 pcs/strip 200 strips			Insulation stop, 5 pcs/strip 200 strips		
	light grey 2002-171 0.25-0.5 mm ²			light grey 2002-171 0.25-0.5 mm ²			light grey 2002-171 0.25-0.5 mm ²	
	dark gr. 2002-172 0.75-1 mm ²			dark gr. 2002-172 0.75-1 mm ²			dark gr. 2002-172 0.75-1 mm ²	
Push-in type jumper bars, light grey, insulated, I_N 25 A			Push-in type jumper bars, light grey, insulated, I_N 25 A			Push-in type jumper bars, light grey, insulated, I_N 25 A		
	2-way 2002-402 200 (8 x 25)			2-way 2002-402 200 (8 x 25)			2-way 2002-402 200 (8 x 25)	
	3-way 2002-403 200 (8 x 25)			3-way 2002-403 200 (8 x 25)			3-way 2002-403 200 (8 x 25)	
	4-way 2002-404 200 (8 x 25)			4-way 2002-404 200 (8 x 25)			4-way 2002-404 200 (8 x 25)	
	5-way 2002-405 100 (4 x 25)			5-way 2002-405 100 (4 x 25)			5-way 2002-405 100 (4 x 25)	
	:	:		:	:		:	:
	10-way 2002-410 100 (4 x 25)			10-way 2002-410 100 (4 x 25)			10-way 2002-410 100 (4 x 25)	
Step down jumpers see page 4.7			Step down jumpers see page 4.7			Step down jumpers see page 4.7		
Push-in type jumper bars, light grey, insulated, I_N 25 A			Push-in type jumper bars, light grey, insulated, I_N 25 A			Push-in type jumper bars, light grey, insulated, I_N 25 A		
	1 - 3 2002-433 200 (8 x 25)			1 - 3 2002-433 200 (8 x 25)			1 - 3 2002-433 200 (8 x 25)	
	1 - 4 2002-434 200 (8 x 25)			1 - 4 2002-434 200 (8 x 25)			1 - 4 2002-434 200 (8 x 25)	
	1 - 5 2002-435 100 (4 x 25)			1 - 5 2002-435 100 (4 x 25)			1 - 5 2002-435 100 (4 x 25)	
	:	:		:	:		:	:
	1 - 10 2002-440 100 (4 x 25)			1 - 10 2002-440 100 (4 x 25)			1 - 10 2002-440 100 (4 x 25)	
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 2002-115 100 (4 x 25)			yellow 2002-115 100 (4 x 25)			yellow 2002-115 100 (4 x 25)	
Modular TOPJOB® connector, for jumper contact slot			Screwdriver, with partially insulated shaft (3.5 x 0.5) mm			Modular TOPJOB® connector, for jumper contact slot		
	1-pole 2002-501 100 (4 x 25)			210-620 1			1-pole 2002-501 100 (4 x 25)	
Spacer module			Spacer module			Spacer module		
	2002-549 100 (4 x 25)			2002-549 100 (4 x 25)			2002-549 100 (4 x 25)	
Test plug adapter, for test plug 4 mm/0.157 in Ø			 <p>② Suitable for Ex i applications  Suitable for Ex e II applications 550 V~, 22 A</p>			Marker strips, white, plain, for central marking,		
	2009-174 100 (4 x 25)						11 mm/0.433 in wide, on roll	
	Testing tap, for max. 2.5 mm²			50 m 2009-110 1				
	2009-182 100 (4 x 25)			300 m 2009-130 1				

Through/Ground (Earth) and Ex Terminal Blocks 4 mm² with CAGE CLAMP® S Connection, Series 2004

0.5 – 4 (6) mm² ① AWG 20 – 30 800 V/8 kV/3 32 A Terminal block width 6.2 mm / 0.244 in  11 – 13 mm / 0.47 in *   	0.5 – 4 (6) mm² ① AWG 20 – 30 800 V/8 kV/3 32 A Terminal block width 6.2 mm / 0.244 in  11 – 13 mm / 0.47 in *   	0.5 – 4 (6) mm² ① AWG 20 – 30 800 V/8 kV/3 32 A Terminal block width 6.2 mm / 0.244 in  11 – 13 mm / 0.47 in *   
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① can be connected: 0.5 mm² – 6 mm² "s + f-st";
 can be pushed in directly: 1 mm² – 6 mm² "s" and 0.75 mm² – 4 mm² "Insulated ferrule, 12 mm"



Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks			4-conductor through terminal blocks		
grey Ex	2004-1201	50	grey Ex	2004-1301	50	grey Ex	2004-1401	50
blue Ex	2004-1204	50	blue Ex	2004-1304	50	blue Ex	2004-1404	50
orange Ex	2004-1202	50	orange Ex	2004-1302	50	orange Ex	2004-1402	50
more colours are being prepared			more colours are being prepared			more colours are being prepared		
2-conductor ground (earth) terminal block			3-conductor ground (earth) terminal block			4-conductor ground (earth) terminal block		
green-yellow Ex	2004-1207	50	green-yellow Ex	2004-1307	50	green-yellow Ex	2004-1407	50
End and intermediate plate, 1 mm/0.039 in thick			End and intermediate plate, 1 mm/0.039 in thick			End and intermediate plate, 1 mm/0.039 in thick		
 orange	2004-1292	100 (4 x 25)	 orange	2004-1392	100 (4 x 25)	 orange	2004-1492	100 (4 x 25)
 grey	2004-1291	100 (4 x 25)	 grey	2004-1391	100 (4 x 25)	 grey	2004-1491	100 (4 x 25)
Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5		

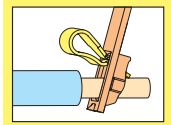
Accessories, Series 2004













Appropriate marking system **WMB/Mini-WSB/marker strips**

Insulation stop, 5 pcs/strip 200 strips  light grey 2004-171 0.25-0.5 mm ² dark gr. 2004-172 0.75-1 mm ²	Insulation stop, 5 pcs/strip 200 strips  light grey 2004-171 0.25-0.5 mm ² dark gr. 2004-172 0.75-1 mm ²	Insulation stop, 5 pcs/strip 200 strips  light grey 2004-171 0.25-0.5 mm ² dark gr. 2004-172 0.75-1 mm ²
Push-in type jumper bars, light grey, insulated, I_N 32 A 2-way 2004-402 100 (4 x 25) 3-way 2004-403 100 (4 x 25) 4-way 2004-404 100 (4 x 25) 5-way 2004-405 50 (2 x 25) : 10-way 2004-410 50 (2 x 25)	Push-in type jumper bars, light grey, insulated, I_N 32 A 2-way 2004-402 100 (4 x 25) 3-way 2004-403 100 (4 x 25) 4-way 2004-404 100 (4 x 25) 5-way 2004-405 50 (2 x 25) : 10-way 2004-410 50 (2 x 25)	Push-in type jumper bars, light grey, insulated, I_N 32 A 2-way 2004-402 100 (4 x 25) 3-way 2004-403 100 (4 x 25) 4-way 2004-404 100 (4 x 25) 5-way 2004-405 50 (2 x 25) : 10-way 2004-410 50 (2 x 25)
Step down jumpers see page 4.7	Step down jumpers see page 4.7	Step down jumpers see page 4.7
Push-in type jumper bars, light grey, insulated, I_N 32 A 1 - 3 2004-433 100 (4 x 25) 1 - 4 2004-434 100 (4 x 25) 1 - 5 2004-435 50 (2 x 25) : 1 - 10 2004-440 50 (2 x 25)	Push-in type jumper bars, light grey, insulated, I_N 32 A 1 - 3 2004-433 100 (4 x 25) 1 - 4 2004-434 100 (4 x 25) 1 - 5 2004-435 50 (2 x 25) : 1 - 10 2004-440 50 (2 x 25)	Push-in type jumper bars, light grey, insulated, I_N 32 A 1 - 3 2004-433 100 (4 x 25) 1 - 4 2004-434 100 (4 x 25) 1 - 5 2004-435 50 (2 x 25) : 1 - 10 2004-440 50 (2 x 25)
Protective warning marker, with high voltage symbol, for 5 terminal blocks yellow 2004-115 100 (4 x 25)	Protective warning marker, with high voltage symbol, for 5 terminal blocks yellow 2004-115 100 (4 x 25)	Protective warning marker, with high voltage symbol, for 5 terminal blocks yellow 2004-115 100 (4 x 25)
Modular TOPJOB® connector, for jumper contact slot 1-pole 2004-501 100 (4 x 25)	Screwdriver, with partially insulated shaft (3.5 x 0.5) mm 210-620 1	Modular TOPJOB® connector, for jumper contact slot 1-pole 2004-501 100 (4 x 25)
Spacer module 2004-549 100 (4 x 25)		Spacer module 2004-549 100 (4 x 25)
Test plug adapter, for test plug 4 mm/0.157 in Ø 2009-174 100 (4 x 25) Testing tap, for max. 2.5 mm² 2009-182 100 (4 x 25)	Ⓢ Suitable for Ex i applications Ex Ex II applications in preparation	Marker strips, white, plain, for central marking, 11 mm/0.433 in wide, on roll 50 m 2009-110 1 300 m 2009-130 1

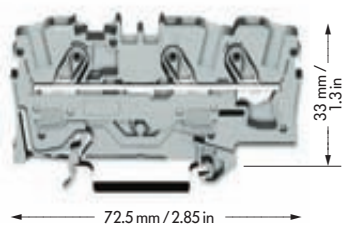
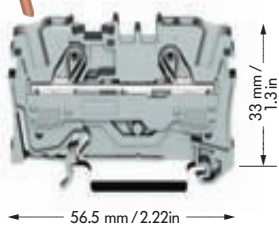
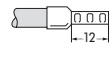
* You can find approvals on the internet at www.wago.com.



















Technical explanations and abbreviations see page 10.2.



<p>0.5 – 6 (10) mm² ⓐ 800 V/8 kV/3 41 A</p> <p>Terminal block width 7.5 mm / 0.295 in  13 – 15 mm / 0.55 in</p> <p>*    CCA LR </p>	<p>AWG 20 – 8 600 V, 50 A </p>	<p>0.5 – 6 (10) mm² ⓐ 800 V/8 kV/3 41 A</p> <p>Terminal block width 7.5 mm / 0.295 in  13 – 15 mm / 0.55 in</p> <p>*    CCA LR </p>	<p>AWG 20 – 8 600 V, 50 A </p>	<p>Separator for Ex e/Ex i applications</p>
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








ⓐ can be connected: 0.5 mm² – 10 mm² "s + f-st";
can be pushed in directly: 1.5 mm² – 10 mm² "s" and 1.5 mm² – 6 mm² "Insulated ferrule, 12 mm"



Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks			Separator for Ex e/Ex i applications,	
grey 	2006-1201 	50	grey 	2006-1301 	25	3 mm/0.118 in thick, orange	
blue 	2006-1204 	50	blue 	2006-1304 	25	90 mm/3.54 in wide 209-190 50 (2 x 25)	
orange 	2006-1202 	50	orange 	2006-1302 	25	120 mm/4.72 in wide 209-191 50 (2 x 25)	
2-conductor ground (earth) terminal block			3-conductor ground (earth) terminal block				
green-yellow 	2006-1207 	50	green-yellow 	2006-1307 	25		
End and intermediate plate, 1 mm/0.039 in thick			End and intermediate plate, 1 mm/0.039 in thick				
	orange 2006-1292 100 (4 x 25)			orange 2006-1392 100 (4 x 25)			
	grey 2006-1291 100 (4 x 25)			grey 2006-1391 100 (4 x 25)			

Accessories, Series 2006

Appropriate marking system **WMB/Mini-WSB/marker strips**

<p>Push-in type jumper bars, light grey, insulated, I_N 41 A</p> <p></p> <p>2-way 2006-402 50 (2 x 25) 3-way 2006-403 50 (2 x 25) 4-way 2006-404 50 (2 x 25) 5-way 2006-405 50 (2 x 25)</p>	<p>Push-in type jumper bars, light grey, insulated, I_N 41 A</p> <p></p> <p>2-way 2006-402 50 (2 x 25) 3-way 2006-403 50 (2 x 25) 4-way 2006-404 50 (2 x 25) 5-way 2006-405 50 (2 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N 41 A</p> <p></p> <p>1 - 3 2006-433 50 (2 x 25) 1 - 4 2006-434 50 (2 x 25) 1 - 5 2006-435 50 (2 x 25)</p>	<p>Push-in type jumper bars, light grey, insulated, I_N 41 A</p> <p></p> <p>1 - 3 2006-433 50 (2 x 25) 1 - 4 2006-434 50 (2 x 25) 1 - 5 2006-435 50 (2 x 25)</p>
<p>Protective warning marker, with high voltage symbol, for 5 terminal blocks</p> <p></p> <p>yellow 2006-115 100 (4 x 25)</p>	<p>Protective warning marker, with high voltage symbol, for 5 terminal blocks</p> <p></p> <p>yellow 2006-115 100 (4 x 25)</p>
<p>Test plug adapter, for test plug 4 mm/0.157 in Ø</p> <p></p> <p>2009-174 100 (4 x 25) Testing tap, for max. 2.5 mm² 2009-182 100 (4 x 25)</p>	<p>Test plug adapter, for test plug 4 mm/0.157 in Ø</p> <p></p> <p>2009-174 100 (4 x 25) Testing tap, for max. 2.5 mm² 2009-182 100 (4 x 25)</p>
<p>Marker strips, white, plain, for central marking,</p> <p></p> <p>11 mm/0.433 in wide, on roll 50 m 2009-110 1 300 m 2009-130 1</p>	<p>Marker strips, white, plain, for central marking,</p> <p></p> <p>11 mm/0.433 in wide, on roll 50 m 2009-110 1 300 m 2009-130 1</p>
<p>Screwdriver, with partially insulated shaft</p> <p></p> <p>(5.5 x 0.8) mm 210-621 1</p>	<p> Suitable for Ex i applications  Ex e II applications in preparation</p>









Separator for Ex e/Ex i applications

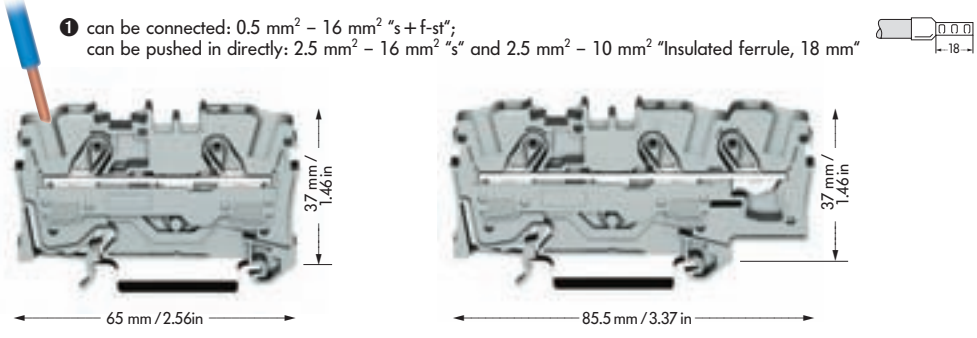
According to EN 50020 a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. When mounting WAGO Ex e and Ex i rail-mounted terminal blocks together on a common rail WAGO offers a space saving solution to the problem by using the Exe/Ex i separators.



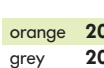

Suitable for series 279 to 282, 2001, 2002 and 2004.

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














Through/Ground (Earth) and Ex Terminal Blocks 10 mm² with CAGE CLAMP® S Connection, Series 2010

0.5 – 10 (16) mm² ① AWG 20 – 6 800 V/8 kV/3 57 A Terminal block width 10 mm / 0.394 in  17 – 19 mm / 0.71 in *  	0.5 – 10 (16) mm² ① AWG 20 – 6 800 V/8 kV/3 57 A Terminal block width 10 mm / 0.394 in  17 – 19 mm / 0.71 in *  
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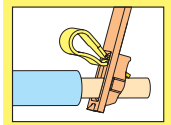
Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks		
grey Ex	2010-1201	25	grey Ex	2010-1301	25
blue Ex	2010-1204	25	blue Ex	2010-1304	25
orange Ex	2010-1202	25	orange Ex	2010-1302	25
2-conductor ground (earth) terminal block			3-conductor ground (earth) terminal block		
green-yellow Ex	2010-1207	25	green-yellow Ex	2010-1307	25
End and intermediate plate, 1 mm/0.039 in thick			End and intermediate plate, 1 mm/0.039 in thick		
	orange 2010-1292	100 (4 x 25)		orange 2010-1392	100 (4 x 25)
	grey 2010-1291	100 (4 x 25)		grey 2010-1391	100 (4 x 25)

Accessories, Series 2010 Appropriate marking system **WMB/Mini-WSB/marker strips**

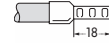
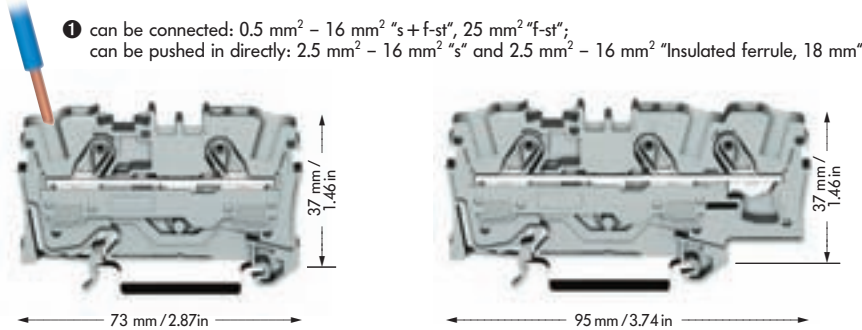
Push-in type jumper bars, light grey, insulated, I_N 57 A  <ul style="list-style-type: none"> 2-way 2010-402 50 (2 x 25) 3-way 2010-403 50 (2 x 25) 4-way 2010-404 50 (2 x 25) 5-way 2010-405 50 (2 x 25) 	Push-in type jumper bars, light grey, insulated, I_N 57 A  <ul style="list-style-type: none"> 2-way 2010-402 50 (2 x 25) 3-way 2010-403 50 (2 x 25) 4-way 2010-404 50 (2 x 25) 5-way 2010-405 50 (2 x 25)
Push-in type jumper bars, light grey, insulated, I_N 57 A  <ul style="list-style-type: none"> 1 - 3 2010-433 50 (2 x 25) 1 - 4 2010-434 50 (2 x 25) 1 - 5 2010-435 50 (2 x 25) 	Push-in type jumper bars, light grey, insulated, I_N 57 A  <ul style="list-style-type: none"> 1 - 3 2010-433 50 (2 x 25) 1 - 4 2010-434 50 (2 x 25) 1 - 5 2010-435 50 (2 x 25)
Protective warning marker, with high voltage symbol, for 5 terminal blocks  yellow 2010-115 50 (2 x 25)	Protective warning marker, with high voltage symbol, for 5 terminal blocks  yellow 2010-115 50 (2 x 25)
Test plug adapter, for test plug 4 mm/0.157 in Ø  2009-174 100 (4 x 25) Testing tap, for max. 2.5 mm²  2009-182 100 (4 x 25)	Test plug adapter, for test plug 4 mm/0.157 in Ø  2009-174 100 (4 x 25) Testing tap, for max. 2.5 mm²  2009-182 100 (4 x 25)
Marker strips, white, plain, for central marking, 11 mm/0.433 in wide, on roll  <ul style="list-style-type: none"> 50 m 2009-110 1 300 m 2009-130 1 	Marker strips, white, plain, for central marking, 11 mm/0.433 in wide, on roll  <ul style="list-style-type: none"> 50 m 2009-110 1 300 m 2009-130 1
Screwdriver, with partially insulated shaft (5.5 x 0.8) mm  210-621 1	② Suitable for Ex i applications Ex Ex II applications in preparation

* You can find approvals on the internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.



<p>0.5 – 16 (25 "f-st") mm² ① AWG 20 – 4 800 V/8 kV/3 76 A</p> <p>Terminal block width 12 mm / 0.472 in 18 – 20 mm / 0.75 in</p> <p>* </p>	<p>0.5 – 16 (25 "f-st") mm² ① AWG 20 – 4 800 V/8 kV/3 76 A</p> <p>Terminal block width 12 mm / 0.472 in 18 – 20 mm / 0.75 in</p> <p>* </p>	<p>Step-down jumpers</p>
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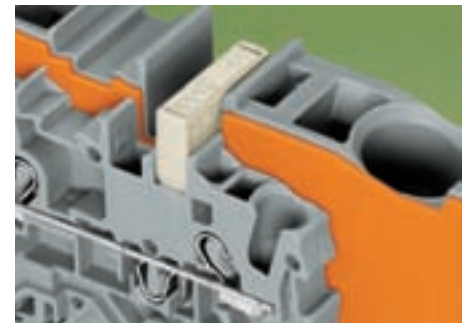


Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks			Step-down jumper, light grey, insulated, I_N 32 A	
grey	2016-1201	20	grey	2016-1301	20		
blue	2016-1204	20	blue	2016-1304	20		from 6/4 mm ² to 4/2.5/1.5 mm ²
orange	2016-1202	20	orange	2016-1302	20		
2-conductor ground (earth) terminal block			3-conductor ground (earth) terminal block			Step-down jumper, light grey, insulated, I_N 57 A	
green-yellow	2016-1207	20	green-yellow	2016-1307	20		from 16/10 mm ² to 10/6/4/2.5 mm ²
End and intermediate plate, 1 mm/0.039 in thick			End and intermediate plate, 1 mm/0.039 in thick			2006-499	
	orange 2016-1292100 (4 x 25)			orange 2016-1392100 (4 x 25)			
	grey 2016-1291100 (4 x 25)			grey 2016-1391100 (4 x 25)			2016-499

Accessories, Series 2016

Appropriate marking system **WMB/Mini-WSB/marker strips**

<p>Push-in type jumper bars, light grey, insulated, I_N 76 A</p> <p>2-way 2016-402 50 (2 x 25)</p> <p>3-way 2016-403 50 (2 x 25)</p> <p>4-way 2016-404 50 (2 x 25)</p> <p>5-way 2016-405 50 (2 x 25)</p>	<p>Push-in type jumper bars, light grey, insulated, I_N 76 A</p> <p>2-way 2016-402 50 (2 x 25)</p> <p>3-way 2016-403 50 (2 x 25)</p> <p>4-way 2016-404 50 (2 x 25)</p> <p>5-way 2016-405 50 (2 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N 76 A</p> <p>1 - 3 2016-433 50 (2 x 25)</p> <p>1 - 4 2016-434 50 (2 x 25)</p> <p>1 - 5 2016-435 50 (2 x 25)</p>	<p>Push-in type jumper bars, light grey, insulated, I_N 76 A</p> <p>1 - 3 2016-433 50 (2 x 25)</p> <p>1 - 4 2016-434 50 (2 x 25)</p> <p>1 - 5 2016-435 50 (2 x 25)</p>
<p>Protective warning marker, with high voltage symbol, for 5 terminal blocks</p> <p>yellow 2016-115 50 (2 x 25)</p>	<p>Protective warning marker, with high voltage symbol, for 5 terminal blocks</p> <p>yellow 2016-115 50 (2 x 25)</p>
<p>Test plug adapter, for test plug 4 mm/0.157 in Ø</p> <p>2009-174 100 (4 x 25)</p> <p>Testing tap, for max. 2.5 mm²</p> <p>2009-182 100 (4 x 25)</p>	<p>Test plug adapter, for test plug 4 mm/0.157 in Ø</p> <p>2009-174 100 (4 x 25)</p> <p>Testing tap, for max. 2.5 mm²</p> <p>2009-182 100 (4 x 25)</p>
<p>Marker strips, white, plain, for central marking, 11 mm/0.433 in wide, on roll</p> <p>50 m 2009-110 1</p> <p>300 m 2009-130 1</p>	<p>Marker strips, white, plain, for central marking, 11 mm/0.433 in wide, on roll</p> <p>50 m 2009-110 1</p> <p>300 m 2009-130 1</p>
<p>Screwdriver, with partially insulated shaft (5.5 x 0.8) mm</p> <p>210-621 1</p>	<p>② Suitable for Ex i applications</p> <p> Ex e II applications in preparation</p>



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




Further terminal blocks of the smaller cross section may be commoned using standard adjacent jumpers.

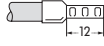
Note:

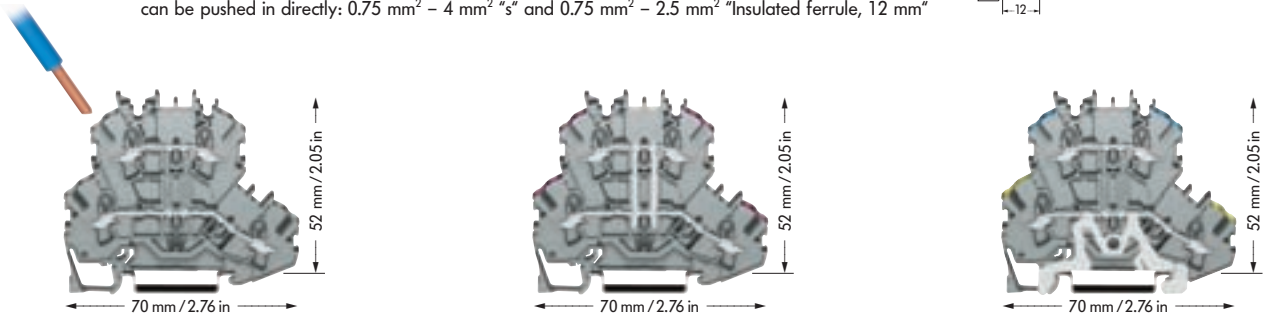
The total current flowing must not exceed the rating of the step-down jumper.




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	






4 TOPJOB® 8 Double Deck Terminal Blocks 2.5 mm², Series 2002

0.25 – 2.5 (4) mm² ① AWG 22 – 12 500 V/6 kV/3 ② 24 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in *	0.25 – 2.5 (4) mm² ① AWG 22 – 12 500 V/6 kV/3 ② 24 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in *	0.25 – 2.5 (4) mm² ① AWG 22 – 12 500 V/6 kV/3 ② 24 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in *
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① can be connected: 0.25 mm² – 4 mm² "s + f-st";
 can be pushed in directly: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "Insulated ferrule, 12 mm" 



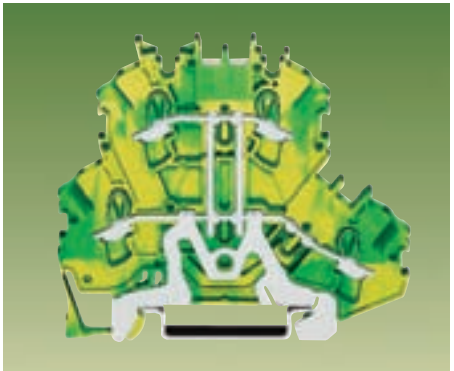
Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Double deck terminal blocks, for DIN 35 rail			Double deck terminal blocks, for DIN 35 rail			Double deck terminal blocks, for DIN 35 rail		
Through-/through terminal blocks, conductor entry positions are marked in different colours			4-conductor through terminal block, internal commoning, conductor entry position coloured in violet			Ground (earth) conductor/through terminal block, conductor entry positions are marked in different colours		
grey	2002-2201	50	grey	2002-2208	50	grey (PE/N)	2002-2217	50
grey (N/L)	2002-2202	50				grey (PE/L)	2002-2227	50
grey (L/N)	2002-2203	50	4-conductor through terminal block, internal commoning, conductor entry position coloured in violet blue			4-conductor ground (earth) terminal block, internal commoning		
blue	2002-2204 ③	50	violet blue	2002-2209 ③	50	green-yellow	2002-2207 ④	50
End and intermediate plate, 0.8 mm/0.032 in thick			End and intermediate plate, 0.8 mm/0.032 in thick			End and intermediate plate, 0.8 mm/0.032 in thick		
	orange 2002-2292	100 (4 x 25)		orange 2002-2292	100 (4 x 25)		orange 2002-2292	100 (4 x 25)
	grey 2002-2291	100 (4 x 25)		grey 2002-2291	100 (4 x 25)		grey 2002-2291	100 (4 x 25)

Accessories, Series 2002 ④			appropriate marking system WMB/Mini-WSB/marker-strips		
Insulation stop, 5 pcs/strip	200 strips		Push-in type jumper bars, light grey, insulated, I_N 24 A		Two-way marking adapter,
	light grey 2002-171 0.25-0.5 mm ² dark grey 2002-172 0.75-1 mm ²			1 - 3 2002-433 200 (8 x 25) 1 - 4 2002-434 200 (8 x 25) 1 - 5 2002-435 100 (4 x 25) : : 1 - 10 2002-440 100 (4 x 25)	
Push-in type jumper bars, light grey, insulated, I_N 24 A					Marker strips, white, plain
	2-way 2002-402 200 (8 x 25) 3-way 2002-403 200 (8 x 25) 4-way 2002-404 200 (8 x 25) 5-way 2002-405 100 (4 x 25) : : 10-way 2002-410 100 (4 x 25)				11 mm wide, on roll 50 m 2009-110 1 300 m 2009-130 1
			③ Suitable for Ex i applications		Screwdriver, with partially insulated shaft (3.5 x 0.5) mm 
					210-620 1

Application notes



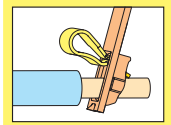
Height: 62 mm/2.44 in (including marking adapter)



Automatic contact to the rail

- ② 500 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see General Catalogue W4, Volume 1, section 15)
- ④ Please note the application notes in our General Catalogue W4, Volume 1, section 1

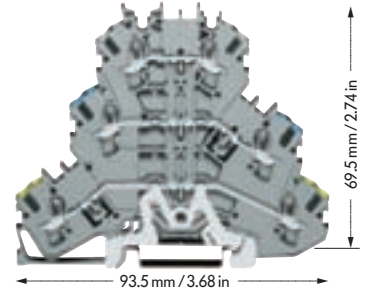
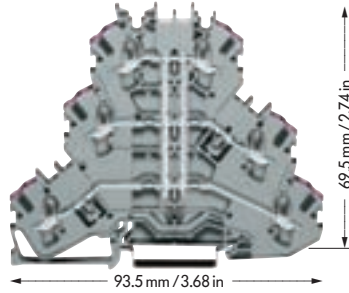
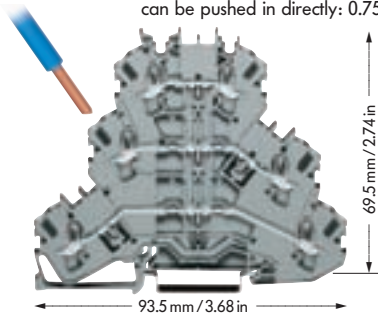
TOPJOB® Triple Deck Terminal Blocks 2.5 mm², Series 2002



4
9

0.25 – 2.5 (4) mm² ① AWG 22 – 12 500 V/6 kV/3 ② 24 A Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in *	0.25 – 2.5 (4) mm² ① AWG 22 – 12 500 V/6 kV/3 ② 24 A Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in *	0.25 – 2.5 (4) mm² ① AWG 22 – 12 500 V/6 kV/3 ② 24 A Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in *
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① can be connected: 0.25 mm² – 4 mm² "s + f-st";
 can be pushed in directly: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "Insulated ferrule, 12 mm"



Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Triple deck terminal block, for DIN 35 rail			Triple deck terminal block, for DIN 35 rail			Triple deck terminal block, for DIN 35 rail		
Through/through/through terminal blocks,			6-conductor through terminal block,			Ground (earth)/through/through terminal blocks,		
conductor entry positions are marked in different colours			internal commoning,			conductor entry positions are marked in different colours		
grey	2002-3201	50	grey	conductor entry position coloured in violet		grey (PE/N/L)	2002-3217	50
grey (L/L/N)	2002-3203	50	grey	2002-3208	50	grey (PE/L/L)	2002-3227	50
						Shield (screen)/through/through terminal blocks,		
						conductor entry positions are marked in different colours		
						grey (shield/N/L) 2002-3218 50		
						grey (shield/L/L) 2002-3228 50		
						6-conductor ground (earth) terminal block,		
						internal commoning		
						green-yellow 2002-3207 50		
End and intermediate plate, 0.8 mm/0.032 in thick			End and intermediate plate, 0.8 mm/0.032 in thick			End and intermediate plate, 0.8 mm/0.032 in thick		
	orange 2002-3292	100 (4 x 25)		orange 2002-3292	100 (4 x 25)		orange 2002-3292	100 (4 x 25)
	grey 2002-3291	100 (4 x 25)		grey 2002-3291	100 (4 x 25)		grey 2002-3291	100 (4 x 25)

Accessories, Series 2002 ③

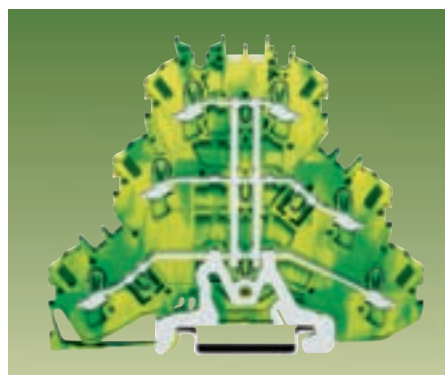
appropriate marking system **WMB/Mini-WSB/marker-strips**

Insulation stop, 5 pcs/strip	200 strips	Push-in type jumper bars, light grey, insulated, I_N 24 A	Three-way marking adapter,
	light grey 2002-171 0.25-0.5 mm ² dark grey 2002-172 0.75-1 mm ²		
Push-in type jumper bars, light grey, insulated, I_N 24 A		1 - 3 2002-433 200 (8 x 25)	2002-131 50 (4 x 25)
	2-way 2002-402 200 (8 x 25)	1 - 4 2002-434 200 (8 x 25)	
	3-way 2002-403 200 (8 x 25)	1 - 5 2002-435 100 (4 x 25)	
	4-way 2002-404 200 (8 x 25)	:	
	5-way 2002-405 100 (4 x 25)	1 - 10 2002-440 100 (4 x 25)	Marker strips, white, plain
	:		11 mm wide, on roll
	10-way 2002-410 100 (4 x 25)		50 m 2009-110 1
			300 m 2009-130 1
			Screwdriver, with partially insulated shaft
			(3.5 x 0.5) mm
			210-620 1

Application notes



Height: 81.5 mm/3.21 in (including marking adapter)



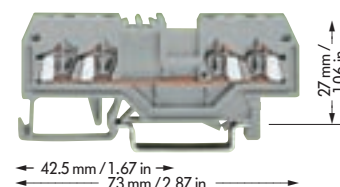
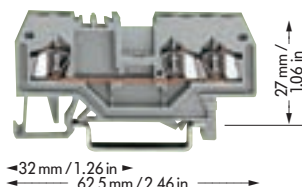
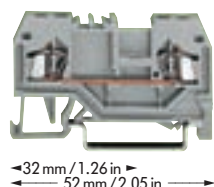
Automatic contact to the rail

- ② 500 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see General Catalogue W4, Volume 1, section 15)
- ③ Please note the application notes in our General Catalogue W4, Volume 1, section 1

Through/Ground (Earth)/Shield (Screen) and Ex Terminal Blocks

1.5 mm², Series 279

<p>0.08 – 1.5 mm² 800 V/8 kV/3 18 A</p> <p>Terminal block width 4 mm / 0.157 in 8 – 9 mm / 0.33 in</p> <p>* </p>	<p>AWG 28 – 16 600 V, 10 A </p> <p>600 V, 10 A </p>	<p>0.08 – 1.5 mm² 800 V/8 kV/3 18 A</p> <p>Terminal block width 4 mm / 0.157 in 8 – 9 mm / 0.33 in</p> <p>* </p>	<p>AWG 28 – 16 600 V, 10 A </p> <p>600 V, 10 A </p>	<p>0.08 – 1.5 mm² 800 V/8 kV/3 18 A</p> <p>Terminal block width 4 mm / 0.157 in 8 – 9 mm / 0.33 in</p> <p>* </p>	<p>AWG 28 – 16 600 V, 10 A </p> <p>600 V, 10 A </p>
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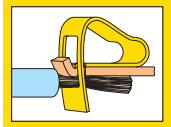



































Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks			4-conductor through terminal blocks		
grey	279-901	100	grey	279-681	100	grey	279-831	100
blau	279-904	100	blue	279-684	100	blue	279-834	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 grey Ex	279-992	100	light grey Ex	279-993	100	light grey Ex	279-994	100
2-conductor ground (earth) terminal blocks			3-conductor ground (earth) terminal blocks			4-conductor ground (earth) terminal blocks		
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 shape			Other terminal blocks with the same shape			Other terminal blocks with the same shape		
diode	279-915/...		diode	279-673/...		double potential	279-826	
			LED	279-674/...		diode	279-815/...	
						LED	279-809/...	
End and intermediate plate, 2 mm/0.079 in thick			End and intermediate plate, 2 mm/0.079 in thick			End and intermediate plate, 2 mm/0.079 in thick		
orange	279-328	100 (4 x 25)	orange	279-339	100 (4 x 25)	orange	279-346	100 (4 x 25)
grey	279-325	100 (4 x 25)	grey	279-308	100 (4 x 25)	grey	279-344	100 (4 x 25)
light grey	279-330	100 (4 x 25)	light grey	279-341	100 (4 x 25)	light grey	279-348	100 (4 x 25)
Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick		
orange	279-329	100 (4 x 25)	orange	279-340	100 (4 x 25)	orange	279-347	100 (4 x 25)
grey	279-326	100 (4 x 25)	grey	279-309	100 (4 x 25)	grey	279-345	100 (4 x 25)
light grey	279-331	100 (4 x 25)	light grey	279-342	100 (4 x 25)	light grey	279-349	100 (4 x 25)
Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5		
Accessories, Series 279			Appropriate marking system WMB/WSB/WFB					
Adjacent jumper, insulated, I_N 15 A			Alternate comb type jumper bar, insulated,			Protective warning marker, with high voltage symbol,		
grey	279-402	200 (8 x 25)	I _N = I _N of terminal block			for 5 terminal blocks		
yellowgreen	279-422	200 (8 x 25)	2-way	279-492	200 (8 x 25)	yellow	279-415	100 (4 x 25)
Alternate jumper, insulated, I_N 15 A			Operating tool, insulated			Screwless end stop,		
grey	279-409	100 (4 x 25)	2-way	279-432	1	6 mm wide	249-116	100 (4 x 25)
Push-in type wire jumper, insulated, I_N 9 A			3-way			10 mm wide		
L = 60 mm	249-125	10	10-way	279-440	1			
L = 110 mm	249-126	10	Insulation stop,			Test plug adapter, suitable for terminal blocks 1.5 - 4 mm²		
L = 250 mm	249-127	10	5 pcs/strip			5 mm/0.197 in wide		
Comb type jumper bar, insulated, I_N = I_N of term. bl.			200 strips					
2-way	279-482	200 (8 x 25)	white	279-470	0.08 mm ² - 0.2 mm ²	for test plug 210-137		
3-way	279-483	200 (8 x 25)	dark grey	279-471	0.25 mm ²	Test plug adapter, suitable for terminal blocks 1.5 - 10 mm²		
10-way	279-490	50 (2 x 25)				8 mm/0.315 in wide		
Screwdriver, with partially insulated shaft						209-170	50 (2 x 25)	
(2.5 x 0.4) mm	210-619	1				for test plug 4 mm/0.157 in Ø		
			<p> Suitable for Ex i applications</p> <p> Suitable for Ex e II applications</p> <p>0.2 – 1.5 mm² AWG 24 – 16</p> <p>550 V~, 15 A</p>			Banana plugs, only for protective extra-low voltage (42 V),		
						black	215-311	50
						red	215-212	50
						blue	215-711	50
						other colours and technical data see page 9.5		

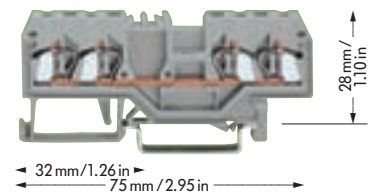
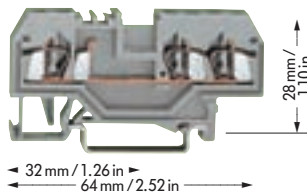
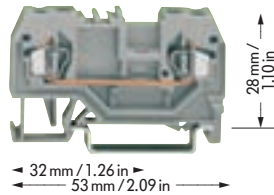
* You can find approvals on the internet at www.wago.com.
























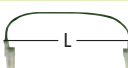


Technical explanations and abbreviations see page 10.2.

Through/Ground (Earth)/Shield (Screen) and Terminal Blocks 2.5 mm², Series 280



<p>0.08 – 2.5 mm² 800 V/8 kV/3 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>      </p>	<p>AWG 28 – 12** 600 V, 20 A   600 V, 25 A  </p>	<p>0.08 – 2.5 mm² 800 V/8 kV/3 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>      </p>	<p>AWG 28 – 12** 600 V, 20 A   600 V, 25 A  </p>	<p>0.08 – 2.5 mm² 800 V/8 kV/3 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>      </p>	<p>AWG 28 – 12** 600 V, 20 A   600 V, 15 A  </p>
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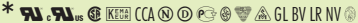




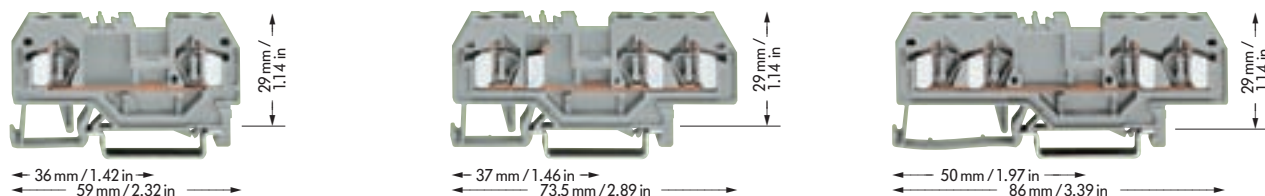
Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks			4-conductor through terminal blocks		
grey	280-901	100	grey	280-681	100	grey	280-833	100
blue	280-904	100	blue	280-684	100	blue	280-834	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 grey 	280-992	100	light grey 	280-993	100	light grey 	280-994	100
2-conductor ground (earth) terminal blocks			3-conductor ground (earth) terminal blocks			4-conductor ground (earth) terminal blocks		
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 shape			Other terminal blocks with the same shape			Other terminal blocks with the same shape		
diode	280-915/...		diode	280-673/...		double potential	280-826	
disconnect	280-912	page 4.25	disconnect	280-683	page 4.25	LED	280-809/...	
carrier	280-916		carrier	280-610		carrier	280-816	
End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 2.5 mm/0.098 in thick		
	orange 280-309	100 (4 x 25)		orange 280-326	100 (4 x 25)		orange 280-315	100 (4 x 25)
	grey 280-308	100 (4 x 25)		grey 280-324	100 (4 x 25)		grey 280-314	100 (4 x 25)
	light grey 280-356	100 (4 x 25)		light grey 280-358	100 (4 x 25)		light grey 280-352	100 (4 x 25)
Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick		
	orange 280-311	100 (4 x 25)		orange 280-346	100 (4 x 25)		orange 280-335	100 (4 x 25)
	grey 280-310	100 (4 x 25)		grey 280-344	100 (4 x 25)		grey 280-334	100 (4 x 25)
	light grey 280-357	100 (4 x 25)		light grey 280-359	100 (4 x 25)		light grey 280-353	100 (4 x 25)
Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5		
Accessories, Series 280								
Appropriate marking system WMB/WSB/WFB								
Adjacent jumper, insulated, I_N 24 A			Comb type jumper bar, insulated, I_N = I_N of term. bl.			Protective warning marker, with high voltage symbol,		
	grey 280-402	200 (8 x 25)		2-way 280-482	200 (8 x 25)		for 5 terminal blocks	
	yellowgreen 280-422	200 (8 x 25)		3-way 280-483	200 (8 x 25)		yellow 280-415	100 (4 x 25)
				10-way 280-490	50 (2 x 25)			
Alternate jumper, insulated, I_N 24 A			Operating tool, insulated			Screwless end stop,		
	grey 280-409	100 (4 x 25)		2-way 280-432	1		6 mm wide 249-116	100 (4 x 25)
				3-way 280-433	1		10 mm wide 249-117	50 (2 x 25)
				10-way 280-440	1			
Staggered jumper, insulated, I_N 24 A,			Insulation stop,			Test plug adapter, suitable for terminal blocks 1.5 - 4 mm²		
	width 5 mm/0.197 in			5 pcs/strip			5 mm/0.197 in wide	
	from 1 to 2 780-452	100 (4 x 25)		200 strips			280-404	100 (4 x 25)
	from 1 to 3 780-453	100 (4 x 25)					for test plug 210-137	
	from 1 to 4 780-454	100 (4 x 25)						
	from 1 to 5 780-455	50 (2 x 25)						
	:	:						
	from 1 to 8 780-458	50 (2 x 25)						
Push-in type wire jumper, insulated, I_N 9 A			Test plug adapter, suitable for terminal blocks 1.5 - 10 mm²			Test plug, 6 mm/0.236 in wide, with CAGE CLAMP[®]		
	L = 60 mm 249-125	10		white 280-470	0.08 mm ² - 0.2 mm ²		8 mm/0.315 in wide	
	L = 110 mm 249-126	10		light grey 280-471	0.25 mm ² - 0.5 mm ²		209-170	50 (2 x 25)
	L = 250 mm 249-127	10		dark grey 280-472	0.75 mm ² - 1 mm ²		for test plug 4 mm/0.157 in Ø	
							for 0.08 - 2.5 mm ² /AWG 28 - 14	
							I _N 24 A	
							281-407	100 (4 x 25)







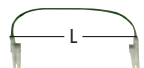



Please find the entire product range in our General Catalogue W4, Volume 1. More information at www.wago.com.

**AWG 12: THHN, THWN

Through/Ground (Earth)/Shield(Screen) and Terminal Blocks 4 mm², Series 281

0.08 – 4 mm² 800 V/8 kV/3 32 A Terminal block width 6 mm / 0.236 in  9 – 10 mm / 0.37 in <small>* </small>	AWG 28 – 12 600 V, 20 A  600 V, 15 A 	0.08 – 4 mm² 800 V/8 kV/3 32 A Terminal block width 6 mm / 0.236 in  9 – 10 mm / 0.37 in <small>* </small>	AWG 28 – 12 600 V, 20 A  600 V, 15 A 	0.08 – 4 mm² 800 V/8 kV/3 26 A Terminal block width 6 mm / 0.236 in  9 – 10 mm / 0.37 in <small>* </small>	AWG 28 – 12 600 V, 20 A  600 V, 15 A 
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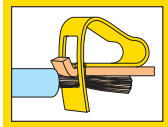


Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	
2-conductor through terminal blocks			3-conductor through terminal blocks			4-conductor through terminal blocks			
grey	281-901	50	grey	281-681	50	grey	281-652	50	
blue	281-904	50	blue	281-684	50	blue	281-654	50	
orange	281-902	50	orange	281-682	50	orange	281-653	50	
red	281-903	50	red	281-683	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 grey 	281-992	50	light grey 	281-993	50	light grey 	281-994	50	
2-conductor ground (earth) terminal blocks			3-conductor ground (earth) terminal blocks			4-conductor ground (earth) terminal blocks			
green-yellow	281-907	50	green-yellow	281-687	50	green-yellow	281-657	50	
green-yellow 	281-907/999-950	50	green-yellow 	281-687/999-950	50	green-yellow 	281-657/999-950	50	
Other terminal blocks with the same shape			Other terminal blocks with the same shape			Other terminal blocks with the same shape			
diode	281-915/.....		diode	281-673/.....		diode	281-665/.....		
disconnect	281-912	page 4.25	disconnect	281-683	page 4.25	disconnect	281-659	page 4.25	
carrier	281-916	page 4.24	carrier	281-610	page 4.24	carrier	281-656	page 4.24	
End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 2.5 mm/0.098 in thick			
	orange 281-329	100 (4 x 25)		orange 281-326	100 (4 x 25)		orange 281-335	100 (4 x 25)	
	grey 281-328	100 (4 x 25)		grey 281-324	100 (4 x 25)		grey 281-334	100 (4 x 25)	
	light grey 281-349	100 (4 x 25)		light grey 281-355	100 (4 x 25)		light grey 281-345	100 (4 x 25)	
Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick			
	orange 281-331	100 (4 x 25)		orange 281-346	100 (4 x 25)		orange 281-339	100 (4 x 25)	
	grey 281-330	100 (4 x 25)		grey 281-344	100 (4 x 25)		grey 281-338	100 (4 x 25)	
	light grey 281-350	100 (4 x 25)		light grey 281-356	100 (4 x 25)		light grey 281-347	100 (4 x 25)	
Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5			
Accessories, Series 281			Appropriate marking system WMB/WSB/WFB						
Adjacent jumper, insulated, I_N 32 A			Comb type jumper bar, insulated, I_N = I_N term. block			Protective warning marker, with high voltage symbol, for 5 terminal blocks			
	grey 281-402	200 (8 x 25)		2-way 281-482	100 (4 x 25)		yellow	281-415	100 (4 x 25)
	yellow green 281-422	200 (8 x 25)		3-way 281-483	100 (4 x 25)				
				5-way 281-485	100 (4 x 25)				
Alternate jumper, insulated, I_N 32 A			Operating tool, insulated			Screwless end stop,			
	grey 281-409	100 (4 x 25)		2-way 280-432	1		6 mm wide 249-116	100 (4 x 25)	
				3-way 280-433	1		10 mm wide 249-117	50 (2 x 25)	
				5-way 280-440	1				
Staggered jumper, insulated, I_N 32 A,			Insulation stop,			Test plug adapter, suitable for terminal blocks 1.5 - 4 mm²			
	width 6 mm/0.236 in			5 pcs/strip			5 mm/0.197 in wide		
	from 1 to 2 781-452	100 (4 x 25)		200 strips			280-404	100 (4 x 25)	
	from 1 to 3 781-453	100 (4 x 25)					for test plug 210-137		
	from 1 to 4 781-454	100 (4 x 25)		white 281-470	0.08 mm ² - 0.2 mm ²				
	from 1 to 5 781-455	50 (2 x 25)		light grey 281-471	0.25 mm ² - 0.5 mm ²				
	from 1 to 6 781-456	50 (2 x 25)		dark grey 281-472	0.75 mm ² - 1.5 mm ²				
Push-in type wire jumper, insulated, I_N 9 A			 L = 60 mm 249-125 10 L = 110 mm 249-126 10 L = 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 adapter, suitable for terminal blocks 1.5 - 10 mm ² 8 mm/0.315 in wide 209-170 50 (2 x 25) for test plug 4 mm/0.157 in Ø						
			 Test plug, 6 mm/0.236 in wide, with CAGE CLAMP® for 0.08 - 2.5 mm ² /AWG 28 - 14 I _N 24 A 281-407 100 (4 x 25)						

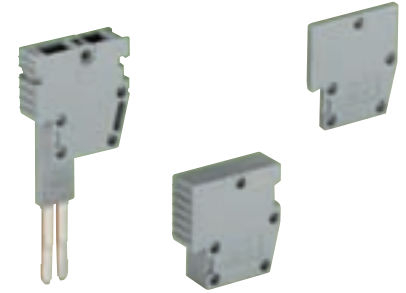
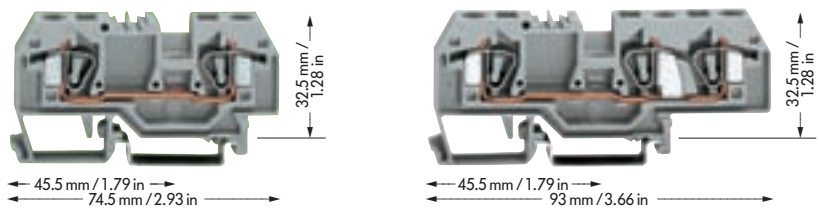
* You can find approvals on the Internet under www.wago.com.

Technical explanations and abbreviations see page 10.2.

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



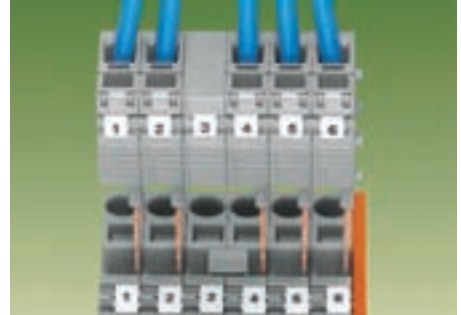
<p>0.2 – 6 mm² 800 V/8 kV/3 41 A</p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p> <p>AWG 24 – 10 600 V, 30 A UL 600 V, 40 A CE</p> <p>* UL CE CCC CCA P E GL BV LR NV E E</p>	<p>0.2 – 6 mm² 800 V/8 kV/3 41 A</p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p> <p>AWG 24 – 10 600 V, 30 A UL 600 V, 10 A CE</p> <p>* UL CE CCC CCA P E GL BV LR NV E E</p>	<p>Test plug module for rail-mounted terminal blocks of Series 282 and 284 0.2 – 6 mm² AWG 24 – 10 Module width 8 mm / 0.315 in 12 mm / 0.472 in Test voltage 800 V / 8 kV Test current 32 A</p>
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks			Test plug module with CAGE CLAMP®,	
grey	282-901	50	grey	282-681	25	version using jumper contact position in current bar,	
blue	282-904	50	blue	282-684	25	grey, module width 8 mm / 0.315 in, suitable for all	
orange	282-902	50	orange	282-682	25	series 282 rail-mounted terminal blocks	
light grey Ex	282-992	50	light grey Ex	282-993	25	709-310	100 (4 x 25)
2-conductor ground (earth) terminal blocks			3-conductor ground (earth) terminal blocks			Spacer module,	
green-yellow	282-907	50	green-yellow	282-687	25	for bridging over commoned terminal blocks, grey,	
green-yellow Ex	282-907/999-950	50	green-yellow Ex	282-687/999-950	25	modul width 8 mm / 0.315 in	
						709-311	100 (4 x 25)
						Spacer plate, – only for Series 284 –	
						modular, grey, width 2 mm / 0.079 in,	
						snap on test plug modules 709-310 and	
						spacer module 709-311 for testing of series 284	
						rail-mounted terminal blocks	
						709-312	100 (4 x 25)
						Strain relief plate	
						6 mm ²	10 mm ²
						2 poles	709-332 709-322
						4 poles	709-334 709-324
						6 poles	709-336 709-326
End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 2.5 mm/0.098 in thick				
	orange	282-328 100 (4 x 25)		orange	282-339 100 (4 x 25)		
	grey	282-325 100 (4 x 25)		grey	282-308 100 (4 x 25)		
	light grey	282-330 100 (4 x 25)		light grey	282-341 100 (4 x 25)		
Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick				
	orange	282-329 100 (4 x 25)		orange	282-340 100 (4 x 25)		
	grey	282-326 100 (4 x 25)		grey	282-309 100 (4 x 25)		
	light grey	282-331 100 (4 x 25)		light grey	282-342 100 (4 x 25)		
Ex e/Ex i separator see page 4.5			Ex e/Ex i separator see page 4.5				
Accessories, Series 282			Appropriate marking system WMB/WSB/WFB				
Adjacent jumper, insulated, I_N 41 A			Protective warning marker, with high voltage symbol,				
	grey	282-402 100 (4 x 25)	for 5 terminal blocks				
	yellow green	282-422 100 (4 x 25)	yellow			282-415 100 (4 x 25)	
Alternate jumper, insulated, I_N 41 A			Screwless end stop,				
	grey	282-409 100 (4 x 25)	6 mm wide			249-116 100 (4 x 25)	
			10 mm wide			249-117 50 (2 x 25)	
Step-down jumper, insulated,			Test plug adapter, suitable for terminal blocks 1.5-10 mm²				
	grey	50 (2 x 25)	8 mm/0.315 in wide			209-170 50 (2 x 25)	
284/282 - 281/280/279	284-414	I _N 15 A	for test plug 4 mm/0.157 in Ø				
284/282 - 282/281	284-413	I _N 30 A	Banana plugs, only for protective extra-low voltage (42 V),				
Cover plate, for step-down jumper application only,			black			215-311 50	
	1 mm/0.039 thick,		red			215-212 50	
	for 2-conductor terminal blocks	grey	blue			215-711 50	
	grey	282-357 25	other colours and technical data see page 9.5				
	for 3-conductor terminal blocks	grey	① Suitable for Ex i applications				
	grey	282-358 25	Ex Suitable for Ex e II applications				
			0.5 – 6 mm ²			AWG 20 – 10	
			550 V~, 39 A			Jumper 35 A	



































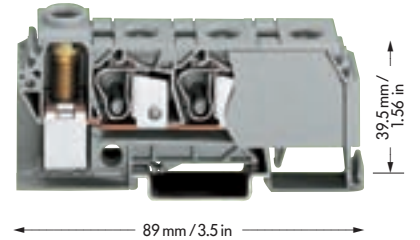
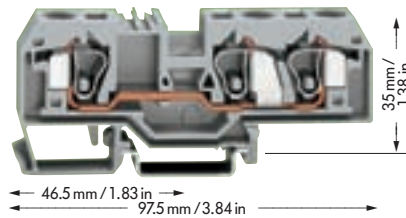
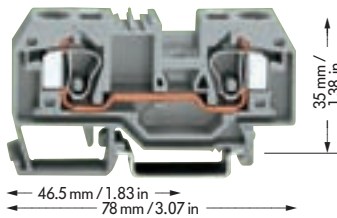
Snapping together of test plug adapter, end and spacer modules to assemble a multipole test plug adapter strip (10 poles max.)






















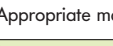









Test plug adapter strips are directly inserted into the jumper contact slots in the current bar

Through/Ground (Earth)/ Ex and Distribution Terminal Blocks 10 mm², Series 284

0.2 – 10 mm² 800 V/8 kV/3 57 A Terminal block width 10 mm / 0.394 in  12 – 13 mm / 0.49 in *       	AWG 24 – 8 600 V, 50 A   600 V, 54 A  	0.2 – 10 mm² 800 V/8 kV/3 57 A Terminal block width 10 mm / 0.394 in  12 – 13 mm / 0.49 in *       	AWG 24 – 8 600 V, 50 A   600 V, 54 A  	3 x 0.2 – 10 mm² ① 1 x 6 – 35 mm² ② 800 V/8 kV/3; 125 A Terminal block width 17,5 mm / 0.689 in  12 – 14 mm / 0.51 in *     	AWG 24 – 8 ① AWG 10 – 2 ② 600 V, 115 A  
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks			Distribution terminal block,		
grey	284-901 	25	grey	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	grey	284-621 	15
light grey Ex	284-992 	25	light grey Ex	284-993 	25	blue	284-624 	15
2-conductor ground (earth) terminal blocks			3-conductor ground (earth) terminal blocks					
green-yellow	284-907 	25	green-yellow	284-687 	25			
green-yellow Ex	284-907/999-950 	25	green-yellow Ex	284-687/999-950 	25			
End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 2.5 mm/0.098 in thick					
	orange 284-328 100 (4 x 25)			orange 284-339 100 (4 x 25)				
	grey 284-325 100 (4 x 25)			grey 284-308 100 (4 x 25)				
	light grey 284-330 100 (4 x 25)			light grey 284-341 100 (4 x 25)				
Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick					
	orange 284-329 100 (4 x 25)			orange 284-340 100 (4 x 25)				
	grey 284-326 100 (4 x 25)			grey 284-309 100 (4 x 25)				
	light grey 284-331 100 (4 x 25)			light grey 284-342 100 (4 x 25)				
Accessories, Series 284			Appropriate marking system WMB/WSB/WFB					
Adjacent jumper, insulated, I_N 57 A			Protective warning marker, with high voltage symbol,					
	grey 284-402 100 (4 x 25)			for 5 terminal blocks				
	yellow green 284-422 100 (4 x 25)		yellow	284-415 50 (2 x 25)				
Alternate jumper, insulated, I_N 57 A			Finger guard cover, serves as touch protection for					
	grey 284-409 50 (2 x 25)			unused clamping units				
			yellow	283-400 100 (4 x 25)				
Test plug adapter, suitable for terminal blocks 1.5-10 mm²			Screwless end stop,					
	8 mm/0.315 in wide			6 mm wide 249-116 100 (4 x 25)				
	209-170 50 (2 x 25)			10 mm wide 249-117 50 (2 x 25)				
	for test plug 4 mm/0.157 in \varnothing							
Step-down jumper, see page 4.13			Test plug module and spacer module,					
			both with spacer plate, see page 4.13					
Cover plate, for step-down jumper application only,								
	1 mm/0.039 in thick,							
	for 2-conductor terminal blocks							
	grey 284-357 25							
	for 3-conductor terminal blocks							
	grey 284-358 25							
			Ex Suitable for Ex e II applications					
			0.5 – 10 mm ² AWG 20 – 8					
			550 V~, 53 A					
						Comb type jumper bar, insulated, Individual arrange-		
						ment I _N 125 A – 2 jumpers com-		
						bined in one clamping unit 100 A		
						2-way		
						grey 284-412 100 (4 x 25)		



Connection of conductor 35 mm²/AWG 2 screw clamp connection, side-entry



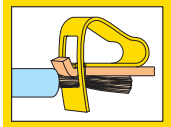
Connection of conductor 10 mm²/AWG 8 CAGE CLAMP® connection, front-entry

Rail-mounted distribution terminal block with 35 mm²/AWG 2 and 3 x 10 mm²/3 x AWG 8 front-entry CAGE CLAMP® connection. To snap onto DIN 35 carrier rails according to EN 60675. The terminal block is closed on both sides, an end or intermediate plate is not necessary. **In case of maximum wiring with 3 x 10 mm²/3 x AWG 8 on the distribution side the nominal current of 125 A should not be exceeded.**

* You can find approvals on the Internet at www.wago.com.

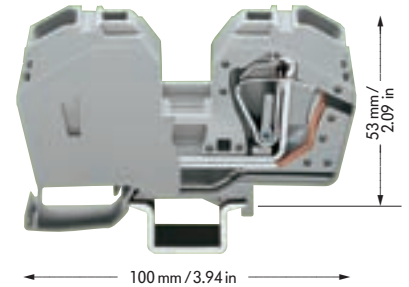
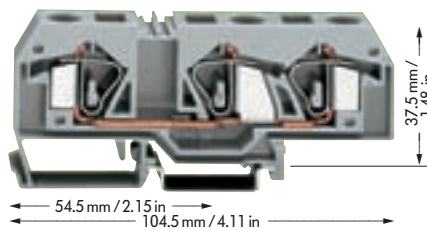
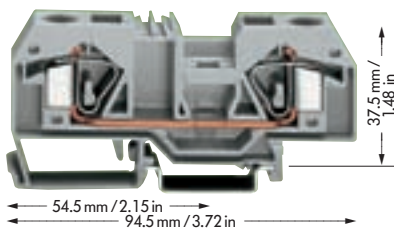
Technical explanations and abbreviations see page 10.2.

Through/Ground (Earth) and Ex Terminal Blocks 16 mm² and 35 mm², Series 283 and 285



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15

0.2 – 16 mm² 800 V/8 kV/3 76 A Terminal block width 12 mm / 0.472 in 16 – 17 mm / 0.65 in *	AWG 24 – 6 600 V, 65 A 600 V, 70 A	0.2 – 16 mm² 800 V/8 kV/3 76 A Terminal block width 12 mm / 0.472 in 16 – 17 mm / 0.65 in *	AWG 24 – 6 600 V, 65 A 600 V, 70 A	6 – 35 mm² 1000 V/8 kV/3 125 A Terminal block width 16 mm / 0.63 in 23 mm / 0.91 in ^[16 mm/0.63 in for 35 mm² "stranded"] *	AWG 8 – 2 600 V, 115 A 600 V, 140 A
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Colour	Item No. Nr.	Pack.-unit pcs	Colour	Item No. Nr.	Pack.-unit pcs	Colour	Item No. Nr.	Pack.-unit pcs
2-conductor through terminal blocks			3-conductor through terminal blocks			2-conductor through terminal blocks, with integrated end plate		
grey	283-901	20	grey	283-671	20	grey	285-635	15
blue	283-904	20	blue	283-674	20	blue	285-634	15
orange	283-902	20	orange	283-672	20	light grey Ex	285-992	15
light grey Ex	283-992	20	light grey Ex	283-993	20	2-conductor ground (earth) terminal blocks		
2-conductor ground (earth) terminal blocks			3-conductor ground (earth) terminal blocks			green-yellow	285-637	15
green-yellow	283-907	20	green-yellow	283-677	20	green-yellow Ex	285-637/999-950	15
green-yellow Ex	283-907/999-950	20	green-yellow Ex	283-677/999-950	20			
Attention! Cannot be used with jumpers!								

End and intermediate plate, 2.5 mm/0.098 in thick		
	orange	283-328 50 (2 x 25)
	grey	283-325 50 (2 x 25)
	light grey	283-330 50 (2 x 25)
Separator plate, oversized, 2 mm/0.079 in thick		
	orange	283-329 50 (2 x 25)
	grey	283-326 50 (2 x 25)
	light grey	283-331 50 (2 x 25)

End and intermediate plate, 2.5 mm/0.098 in thick		
	orange	283-352 50 (2 x 25)
	grey	283-350 50 (2 x 25)
	light grey	283-354 50 (2 x 25)
Separator plate, oversized, 2 mm/0.079 in thick		
	orange	283-353 50 (2 x 25)
	grey	283-351 50 (2 x 25)
	light grey	283-355 50 (2 x 25)



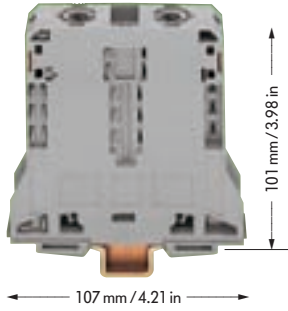
Connection of conductor 35 mm²/AWG 2

Accessories, Series 283			Appropriate marking system WMB/WSB/WFB			Series 285 Appropriate marking system Mini-WSB WMB/WSB		
	Adjacent jumper , insulated, I _N 70 A grey 283-402 50 (2 x 25) yellow green 283-422 50 (2 x 25)			Protective warning marker , for 5 terminal blocks, fits into screwdriver slot yellow 283-415 50 (2 x 25)			Adjacent jumper , insulated, I _N 85 A grey 285-435 50 (2 x 25)	
	Alternate jumper , insulated, I _N 76 A grey 283-409 50 (2 x 25)			Finger guard cover , serves as touch protection for unused clamping units yellow 283-400 100 (4 x 25)			Step-down jumper , insulated, I _N 32 A grey 283-414 50 (2 x 25)	
	Test plug adapter , suitable for term. blocks 1.5-16 mm ² 11.6 mm/0.457 in wide 283-404 25 for test plug 4 mm/0.157 in Ø			Adjustable height group marker carriers , suitable for end stops 249-116/-117 for 1 marker card 249-119 ① 50 (2 x 25) 249-118 ② 100 (4 x 25)			Protective warning marker , with high voltage symbol, for 5 terminal blocks fits into screwdriver slot yellow 285-416 50 (2 x 25)	
	Step-down jumper , insulated, I _N 32 A, 16 mm ² /AWG 6 → 4 mm ² /AWG 12 grey 283-414 50 (2 x 25)		for 2 WSB Quick markers each or 1 x continuous marking strip				Finger guard cover , yellow 285-401 100 (4 x 25)	
	Cover plate , for step-down jumper application only, 1 mm/0.039 in thick, for 2-conductor terminal blocks grey 283-357 25		Ex Suitable for Ex e II applications 0.5 – 16 mm ² AWG 20 – 6 550 V~, 68 A Jumper 63 A			Ex Suitable for Ex e II applications 6 – 35 mm ² AWG 8 – 2 750 V~, 120 A 6 – 25 mm ² AWG 8 – 4 for ground (earth) terminal blocks		

4 95 mm²/AWG 000 Rail-Mounted High Current Terminal Blocks, Series 285

16 Side-entry

25 – 95 mm ² 1000 V/8 kV/3 232 A	AWG 4 – 000 600 V, 200 A 600 V, 210 A
Terminal block width 25 mm / 0.98 in	
35 mm / 1.38 in	
* CCA GL	



Colour	Item No.	Pack.-unit pcs
2-conductor through terminal blocks		
grey	285-195	5
blue	285-194	5
light grey	285-995	5
2-conductor ground (earth) terminal blocks		
green-yellow	285-197	5
green-yellow	285-197/999-950	5
Accessories Appropriate marking system WMB		
Adjacent jumper , insulated, I _N 232 A for 1 jumper I _N 192 A for 2 to 4 jumper		
	grey	285-495 25
Voltage tap , I _N 57 A, 0.2 - 10/16 mm ²		
	Module width 20 mm / 0.787 in grey	285-407 5
Hex wrench with partially insulated shaft		
	8 mm/0.32 in	285-172 1
Touch protection cover , for unused clamping units and jumper slots		
	yellow	285-169 25
Protective warning marker , with high voltage symbol, for 5 terminal blocks		
	yellow	285-170 50 (2 x 25)
Carrier rail 35 x 15 mm, 2.3 mm thick , unslotted, acc. to EN60715, copper, unplated		
		210-198 10
Suitable for Ex e II applications		
25 – 95 mm ² AWG 4 – 000		
750 V~, 195 A		
20 – 70 mm ² AWG 2 – 00		
for ground (earth) conductor terminal blocks		

Wire connection



Anti-clockwise rotation using a hex wrench. Latch holds clamp in open position.



Introduce stripped wire (stripped length 35 mm!) into the clamping unit up to the stop and hold it in position . . .



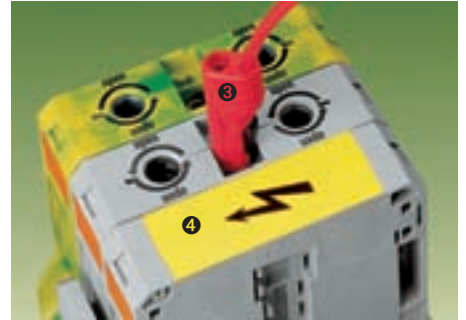
. . . A small anti-clockwise rotation releases the latch ①. Once the operating tool ② has been removed the conductor is safely clamped.

Commoning



Commoning with adjacent jumper. Insertion of jumper above the conductor entry hole, without tools. Rated cross section is still 95 mm²/AWG 000.

Testing/Protective warning marker



③ Testing with test plug 4 mm/0.157 in diameter.
④ Protective warning marker may indicate: Attention! Voltage may be present despite main circuit being switched off!

Voltage tap



Reliable and simple tap directly onto the power supply. Insert the unwired tap before opening the pressure spring.

Touch protection



Jumper contact slots can also be sealed individually.

The POWER CLAMP connection clamps the following copper wires:



solid



stranded



fine-stranded

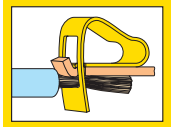


with crimped ferrule

* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

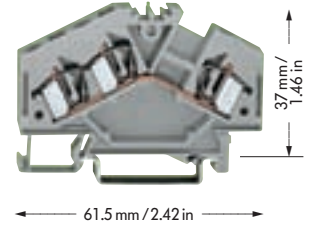
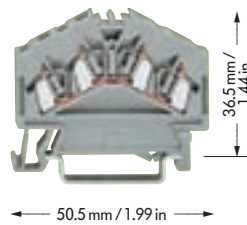
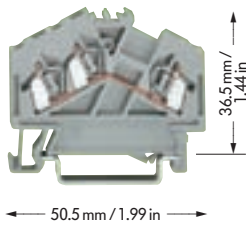
Through/Ground (Earth) and Ex Terminal Blocks, Angled Types Series 280 (2,5 mm²) and 281 (4 mm²)



4

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<p>0.08 – 2.5 mm² 800 V/8 kV/3 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>AWG 28 – 12 600 V, 20 A Ex 600 V, 25 A Ex</p>	<p>0.08 – 2.5 mm² 800 V/8 kV/3 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>AWG 28 – 12 600 V, 20 A Ex 600 V, 25 A Ex</p>	<p>0.08 – 4 mm² 800 V/8 kV/3 32 A</p> <p>Terminal block width 6 mm / 0.236 in 9 – 10 mm / 0.37 in</p> <p>AWG 28 – 12 600 V, 20 A Ex 600 V, 15 A Ex</p>
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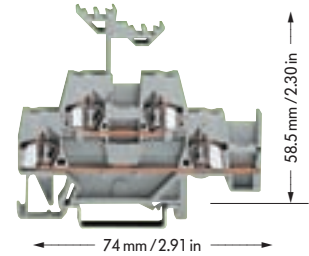
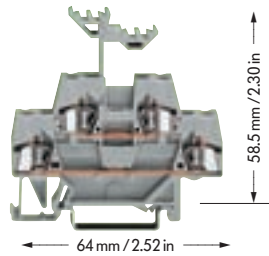
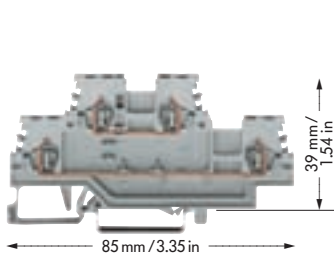


Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
3-conductor through terminal blocks			4-conductor through terminal blocks			3-conductor through terminal blocks		
grey	280-641	100	grey	280-646	100	grey	281-631	100
blue	280-651	100	blue	280-656	100	blue	281-651	100
orange	280-654	100	orange	280-946	100	light grey Ex	281-998	100
light grey Ex	280-998	100	light grey Ex	280-996	100	3-conductor ground (earth) terminal blocks		
2-conductor ground (earth) terminal blocks			Attention!			green-yellow 281-637 100		
green-yellow	280-637	100	Cannot be used with jumpers!			green-yellow Ex 281-637/999-950 100		
green-yellow Ex	280-637/999-950	100						
3-conductor shield (screen) terminal block								
white	280-640	100						
Other terminal blocks with the same shape								
spacer 280-654/056-000								
End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 2.5 mm/0.098 in thick		
orange	280-313	100 (4 x 25)	orange	280-313	100 (4 x 25)	orange	281-313	100 (4 x 25)
grey	280-312	100 (4 x 25)	grey	280-312	100 (4 x 25)	grey	281-312	100 (4 x 25)
light grey	280-354	100 (4 x 25)	light grey	280-354	100 (4 x 25)	light grey	281-357	100 (4 x 25)
Separator plate, oversized, 2.5 mm/0.098 in thick			Separator plate, oversized, 2.5 mm/0.098 in thick			Separator plate, oversized, 2 mm/0.079 in thick		
orange	280-318	100 (4 x 25)	orange	280-318	100 (4 x 25)	orange	281-318	100 (4 x 25)
grey	280-348	100 (4 x 25)	grey	280-348	100 (4 x 25)	grey	281-348	100 (4 x 25)
light grey	280-355	100 (4 x 25)	light grey	280-355	100 (4 x 25)	light grey	281-358	100 (4 x 25)
Accessories, Series 280 Appropriate marking system WMB/WSB/WFB			Series 281 Appropriate marking system WMB/WSB/WFB					
Adjacent jumper, insulated, I_N 24 A			Protective warning marker, with high voltage symbol, for 5 terminal blocks			Adjacent jumper, insulated, I_N 32 A		
grey	280-402	200 (8 x 25)	yellow	280-415	100 (4 x 25)	grey	281-402	200 (8 x 25)
yell. green	280-422	200 (8 x 25)				yell. green	281-422	200 (8 x 25)
Alternate jumper, insulated, I_N 24 A			Screwless end stop, 6 mm wide			Alternate jumper, insulated, I_N 32 A		
grey	280-409	100 (4 x 25)	10 mm wide	249-117	50 (2 x 25)	grey	281-409	100 (4 x 25)
Staggered jumper, insulated, I_N 24 A			Test plug adapter, suitable for terminal blocks 1.5 – 4 mm²			Staggered jumper, insulated, I_N 32 A		
width 5 mm/0.197 in			5 mm/0.197 in wide	280-404	100 (4 x 25)	width 6 mm/0.236 in		
from 1 to 2	780-452	100 (4 x 25)	for test plug 210-137			from 1 to 2	781-452	100 (4 x 25)
from 1 to 3	780-453	100 (4 x 25)	Insulation stop, 5 pcs/strip			from 1 to 3	781-453	100 (4 x 25)
from 1 to 4	780-454	100 (4 x 25)	200 strips			from 1 to 4	781-454	100 (4 x 25)
from 1 to 5	780-455	50 (2 x 25)				from 1 to 5	781-455	50 (2 x 25)
from 1 to 8	780-458	50 (2 x 25)				from 1 to 6	781-456	50 (2 x 25)
Push-in type wire jumper, insulated, I_N 9 A			white 280-470 0.08 mm ² - 0.2 mm ²					
L = 60 mm	249-125	10	light grey	280-471	0.25 mm ² - 0.5 mm ²			
L = 110 mm	249-126	10	dark grey	280-472	0.75 mm ² - 1 mm ²			
L = 250 mm	249-127	10	More accessories see page 4.11			More accessories see page 4.12		
Screwdriver, with partially insulated shaft, 210-620 (3.5 x 0.5) mm			<p>Ex Suitable for Ex i applications</p> <p>Ex Suitable for Ex e II applications 0.2 – 2.5 mm² 550 V~, 20 A AWG 24 – 12</p>			<p>Ex Suitable for Ex i applications</p> <p>Ex Suitable for Ex e II applications 0.2 – 4 mm² 550 V~, 30 A AWG 24 – 12</p>		

4 Double Deck Terminal Blocks, Series 279 and 280

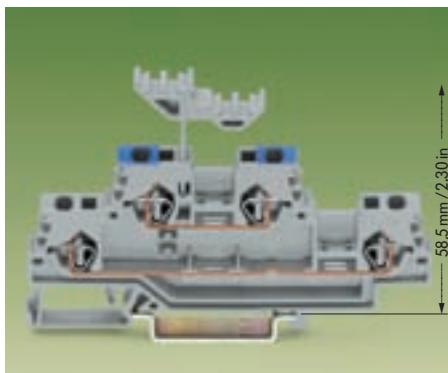
18

<p>0.08 – 1.5 mm² AWG 28 – 16 500 V/6 kV/3 18 A</p> <p>Terminal block width 4 mm / 0.157 in 8 – 9 mm / 0.33 in</p> <p>* ABS</p>	<p>0.08 – 2.5 mm² AWG 28 – 12 500 V/6 kV/3 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>* </p>	<p>0.08 – 2.5 mm² AWG 28 – 12 500 V/6 kV/3 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>* </p>
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Through/through terminal blocks			Through/through terminal blocks			Through/through terminal blocks		
conductor entry positions are marked in different colours			conductor entry positions are marked in different colours			with horizontal jumpering on lower level		
grey	279-501	50	grey	280-519	50	grey	280-520	50
grey (N/L)	279-512	50	blue	280-529	50	blue	280-530	50
grey (L/N)	279-513	50	blue/grey	280-523	50	blue/grey	280-524	50
blue (N/N)	279-504	50	grey/blue	280-533	50	grey/blue	280-534	50
4-conductor through terminal blocks, internal commoning, conductor entry position coloured in violet			Ground (earth) conductor/through terminal blocks,					
blue	279-509	50	green-yellow/grey	280-527	50			
grey	279-508	50	green-yellow/blue	280-537	50			
Ground (earth) conductor/through terminal blocks, conductor entry positions are marked in different colours			4-conductor ground (earth) terminal blocks, internal commoning			Other terminal blocks with the same shape		
grey (PE/N)	279-517	50	green-yellow	280-517	50	diode	280-9xx/281-..	
grey (PE/L)	279-527	50				through/disconnect	280-521	
4-conductor ground (earth) terminal blocks, internal commoning			Other terminal blocks with the same shape			Other terminal blocks with the same shape		
green-yellow	279-507	50	through/disconnect	280-521		through/disconnect	280-522	
End and intermediate plate, 2 mm/0.079 in thick			End and intermediate plate, 2.5 mm/0.098 thick			End and intermediate plate, 2.5 mm/0.098 thick		
orange	279-519 100 (4 x 25)		orange	280-341 100 (4 x 25)		orange	280-343 100 (4 x 25)	
grey	279-518 100 (4 x 25)		grey	280-340 100 (4 x 25)		grey	280-342 100 (4 x 25)	
Accessories, Series 279 Appropriate marking system WMB/WSB			Accessories, Series 280 Appropriate marking system WMB/WSB			Vertical jumper, insulated, I_N 24 A		
WSB double marker carrier			Suitable for Ex i applications			grey 281-421 200 (8 x 25)		
	279-529 50 (2 x 25)					More accessories see page 4.11		
More accessories see page 4.10								

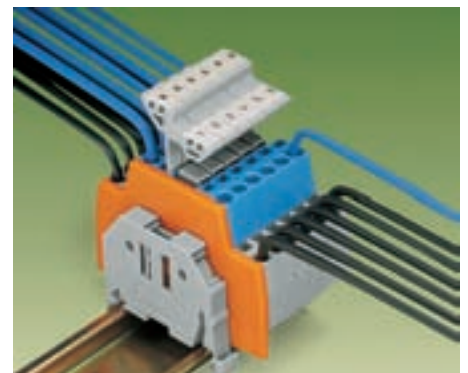
Application notes



Double deck terminal block with WSB double marker carrier



Double deck terminal blocks used for the connection of a three-phase motor

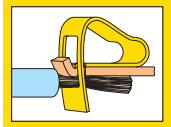


Double deck terminal blocks used as control wire terminals; for ex. for magnetic valves. Upper deck commoned.

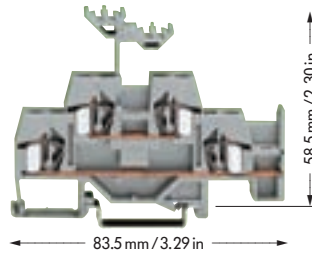
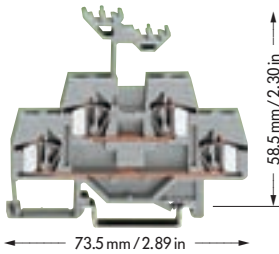
* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

Double Deck Terminal Blocks, Series 281



<p>0.08 – 4 mm² AWG 28 – 12 500 V/6 kV/3 ① 600 V, 20 A 26 A 600 V, 10 A </p> <p>Terminal block width 6 mm / 0.236 in 9 – 10 mm / 0.37 in</p> <p>* </p>	<p>0.08 – 4 mm² AWG 28 – 12 500 V/6 kV/3 ① 600 V, 20 A 26 A 600 V, 10 A </p> <p>Terminal block width 6 mm / 0.236 in 9 – 10 mm / 0.37 in</p> <p>* </p>
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Through/through terminal blocks			Through/through terminal blocks with horizontal jumpering on lower level		
grey	281-619	50	grey	281-620	50
blue	281-629 ①	50	blue	281-630 ①	50
Other terminal blocks with the same shape					
diode	281-6xx/281-...				
End and intermediate plate, 2.5 mm/0.098 thick			End and intermediate plate, 2.5 mm/0.098 thick		
	orange 281-341	50 (2x25)		orange 281-343	100 (4x25)
	grey 281-340	50 (2x25)		grey 281-342	100 (4x25)

Accessories, Series 281

Appropriate marking system **WMB/WSB**

Vertical jumper, insulated, I_N 24 A		
	grey	281-421 200 (8x25)
More accessories see page 4.12		

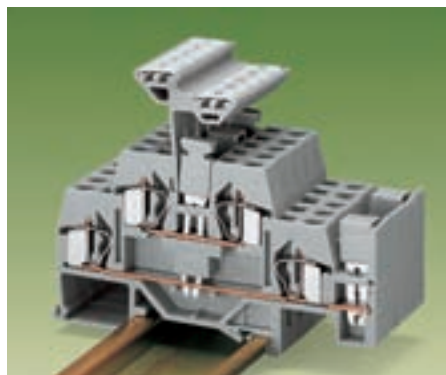
① Suitable for Ex i applications

Screwdriver, with partially insulated shaft		
	(3.5 x 0.5) mm	210-620 1

Application notes



Wire connection



Connection of conductors

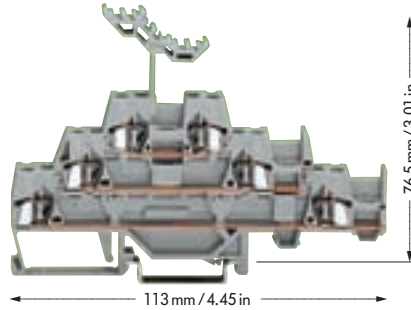
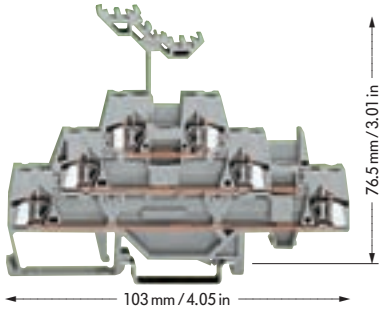


Example of a mixed assembly with double deck terminal blocks

4 Triple Deck Terminal Blocks, Series 280

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<p>0.08 – 2.5 mm² AWG 28 – 12 500 V/6 kV/3 300/600 V, 15/5 A 20 A 300/600 V, 20/5 A </p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>* GL BV LR NV </p>	<p>0.08 – 2.5 mm² AWG 28 – 12 500 V/6 kV/3 300/600 V, 15/5 A 20 A 300/600 V, 20/5 A </p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>* GL BV LR NV </p>
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Through/through/through terminal blocks			Through/through/through terminal blocks with horizontal jumpering on lower level		
grey	280-549	40	grey	280-550	40
blue	280-551	40			
grey/grey/blue	280-552	40			
Ground (earth)/through/through terminal blocks					
green-yel./blue/grey	280-547	40			
green-yel./grey/grey	280-557	40			
6-conductor ground (earth) terminal blocks, internal commoning					
green-yellow	280-597	40			
End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 2.5 mm/0.098 in thick		
orange	280-304	50 (2 x 25)	orange	280-306	100 (4 x 25)
grey	280-303	50 (2 x 25)	grey	280-305	100 (4 x 25)
Intermediate plate, 1.1 mm/0.043 in thick			Intermediate plate, 1.1 mm/0.043 in thick		
orange	280-336	50 (2 x 25)	orange	280-339	50 (2 x 25)

Accessories, Series 280

Appropriate marking system **WMB/WSB**

Vertical jumper, insulated, I_N 24 A		
	grey	281-421 200 (8 x 25)
More accessories see page 4.11		

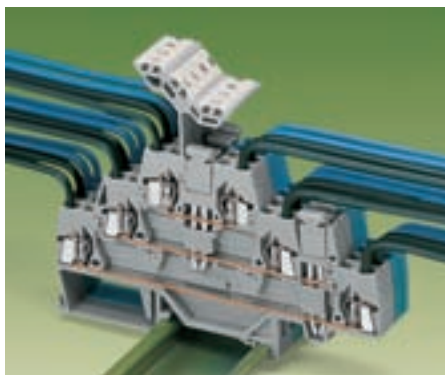
Suitable for Ex i applications

Screwdriver, with partially insulated shaft		
	(3.5 x 0.5) mm	210-620 1

Application notes



3-wire power circuit with additional branch circuit tapping



Connection of conductors

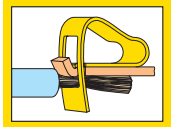


Combined horizontal and vertical commoning

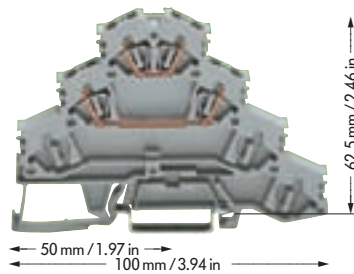
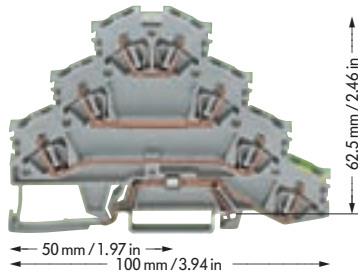
* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

Rail Mounted Quadruple Deck Terminal Blocks for Wiring of Electric Motors, Series 281

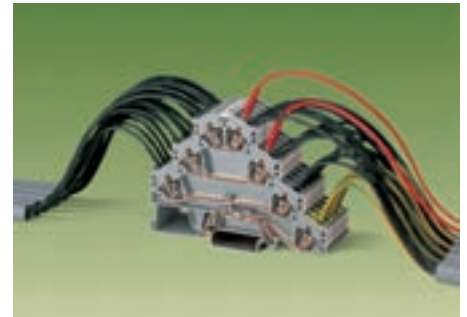


<p>0.08 – 4 mm² 400 V/6 kV/3 20 A (2.5mm²) 25 A (4mm²)</p> <p>Terminal block width 6 mm / 0.236 in 8 – 9 mm / 0.33 in</p> <p>* CCA GL BV LR NV</p>	<p>AWG 28 – 12 300 V, 20 A </p> <p>0.08 – 4 mm² 400 V/6 kV/3 20 A (2.5mm²) 25 A (4mm²)</p> <p>Terminal block width 6 mm / 0.236 in 8 – 9 mm / 0.33 in</p> <p>* CCA GL BV LR</p>	<p>Application notes</p>
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Commoning

Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Rail-mounted terminal block for wiring of electric motors, grey		Rail-mounted terminal block for wiring of electric motors, grey	
L1-L2-L3-PE	281-530 50	L1-L2	281-531 50
		L1-L2-L3	281-532 50
End and intermediate plate, 1 mm/0.039 in thick		End and intermediate plate, 1 mm/0.039 in thick	
orange	281-366 100 (4 x 25)	orange	281-366 100 (4 x 25)
grey	281-365 100 (4 x 25)	grey	281-365 100 (4 x 25)

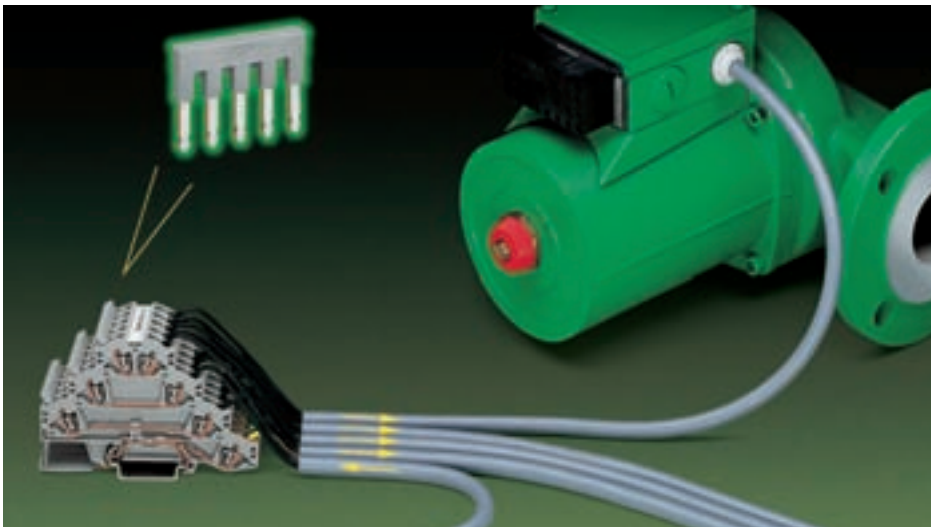


3 phases and ground (earth) conductor in one terminal block
Compact design

Accessories, Series 281		Appropriate marking system WSB/WFB/WMB	
Screwless end stop,	6 mm wide 249-116 100 (4 x 25) 10 mm wide 249-117 50 (2 x 25)	Insulation stop,	5 pcs/strip 200 strips
Comb type jumper bar, insulated, I_N = I_N term. block	2-way 281-482 100 (4 x 25) 3-way 281-483 100 (4 x 25) 5-way 281-485 100 (4 x 25)	white 281-470	0.08 mm ² - 0.2 mm ²
Operating tool, insulated	2-way 280-432 1 3-way 280-433 1 5-way 281-440 1	light grey 281-471	0.25 mm ² - 0.5 mm ²
Screwdriver, with partially insulated shaft	(3.5 x 0.5) mm 210-620 1	dark grey 281-472	0.75 mm ² - 1.5 mm ²
		Test plug, with cable 500 mm/1.77"	2 mm Ø 210-136 50 (5 x 10) 2.3 mm Ø 210-137 50 (5 x 10)
		Marker strips, transparent, 7.5 mm/0.295 in wide, for central marking,	- group marking - plain, on roll
			50 m 709-177 1 300 m 709-187 1



Testing with test plug 2 mm/0.079 in Ø



Marking clamping units with WMB multi-marking system or WSB quick marking system (see section 9).
Group marking with marking strips
Item No. 709-177

Fused Disconnect Terminal Blocks, Pluggable Fuse Modules, Disconnect Terminal Blocks for Test and Measurement . . .

Fused Disconnect Terminal Blocks



Blown fuse indication by LED or neon lamp

Commoning



Distribution of current to several fuse protected circuits by using insulated touchproof jumpers

Disconnect terminal blocks



Disconnecting by pulling the disconnecting tab (red = disconnected)

Exchange of fuse 1



Before exchanging 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



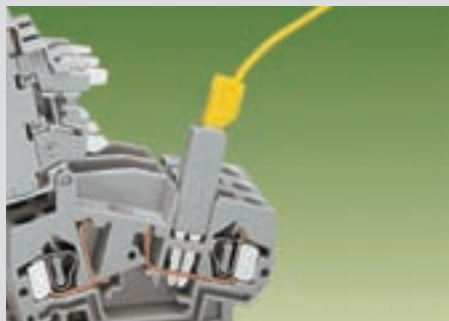
Commoning with comb type jumper bars

Exchange of fuse 2



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

Testing



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

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 fused terminal blocks

Pluggable fuse modules



Fuse module with blown fuse indication on a 3-conductor carrier terminal block CAGE CLAMP® clamps the following copper wires:

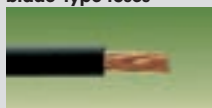


solid

Mini-automotive blade-type fuses



Fuse terminal blocks for mini-automotive blade-type fuses



stranded

More disconnect terminal blocks

Double deck terminal blocks

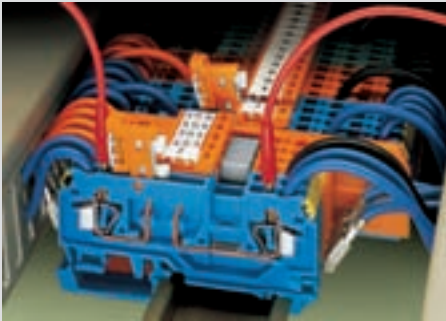


Pulling the disconnecting tab



fine-stranded, also with tinned single strands

Disconnect terminal blocks



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

Staggered jumper



Staggered jumper for sophisticated wiring jobs.
Push jumpers down FIRMLY until FULLY inserted

Power distribution



Power distribution using knife disconnect in supply
line, disconnecting all outputs

Disconnect terminal block 6 mm²



Testing a 6 mm² disconnect terminal block



fine-stranded wire -
tip bonded

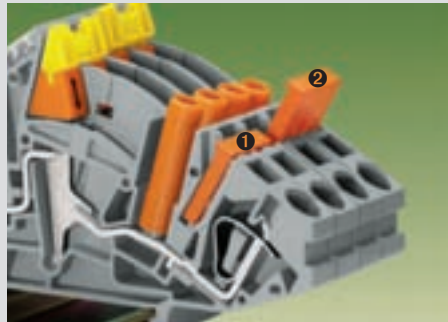
⑧ When using ferrules, the max. conductor cross section which can be accommodated is one size smaller than max. rating of terminal block.

Longitudinal disconnect term. blocks



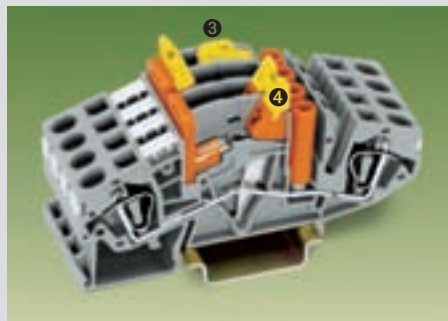
Disconnecting by disconnect link
Test slots Ø 4 mm/0.157 in are integrated

Commoning



Longitudinal disconnect terminal block with jumper
① in locking and ② pre-locking position

Transverse switch terminal blocks



For current transformer circuits with
③ lock-out and
④ coupling device

Switch positions



closed open



fine-stranded wire
with crimped ferrule ⑧

Disconnect terminal blocks ...



e.g. for current or voltage transformer circuits

Commoning

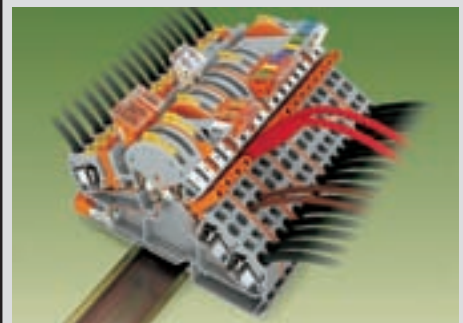


Terminal strip for current transformer circuits with
short circuit jumpers ⑥

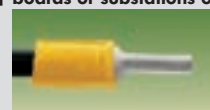
Locking cover and lock-out seal



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“



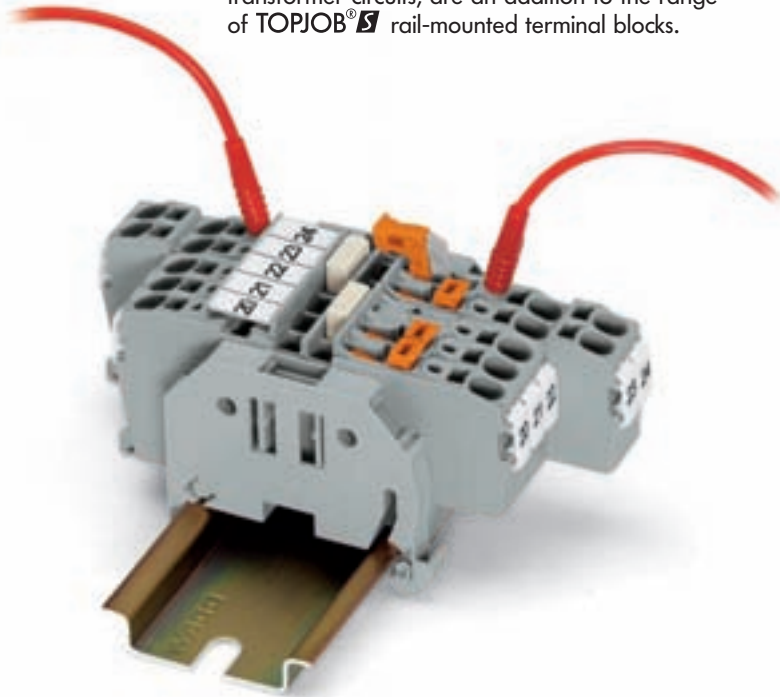
Transformer terminal strip, e.g. for use in meter
boards or substations of the power supply industry



fine-stranded wire
with crimped pin terminal

2- and 4-conductor disconnect terminal blocks

The 5.2 mm wide 2- and 4-conductor disconnect terminal blocks, that can be used in both control and process measurement systems as well as transformer circuits, are an addition to the range of TOPJOB® S rail-mounted terminal blocks.



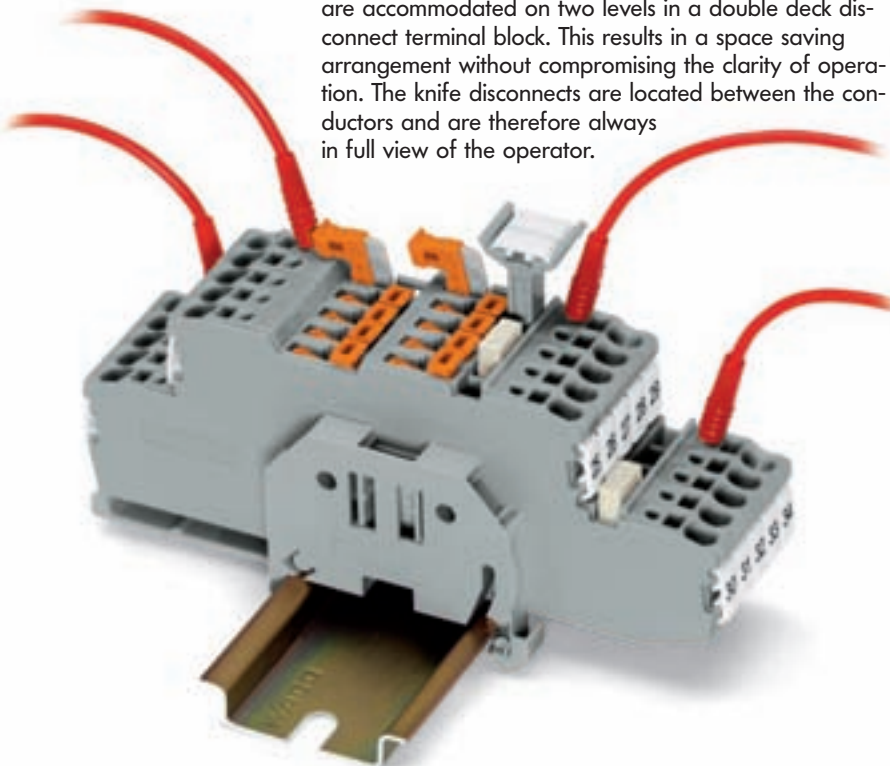
Movable knife disconnects clearly indicate the circuit state.



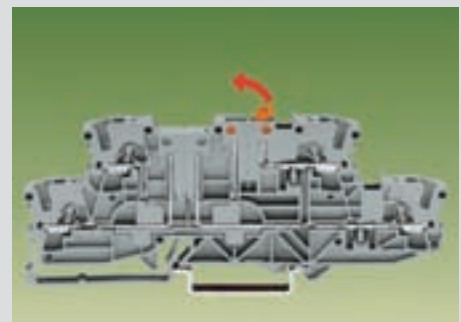
Two lateral and one centre marker receptacle for WMB markers or marking strips, in the same position as the other 2002 Series terminal blocks. Commoning options in front of or behind the knife disconnect, depending on which is the power supply side.

Double deck double disconnect terminal blocks

Disconnect terminal blocks of independent potentials are accommodated on two levels in a double deck disconnect terminal block. This results in a space saving arrangement without compromising the clarity of operation. The knife disconnects are located between the conductors and are therefore always in full view of the operator.

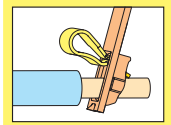


Additional marking option using pivoting marking adapters.



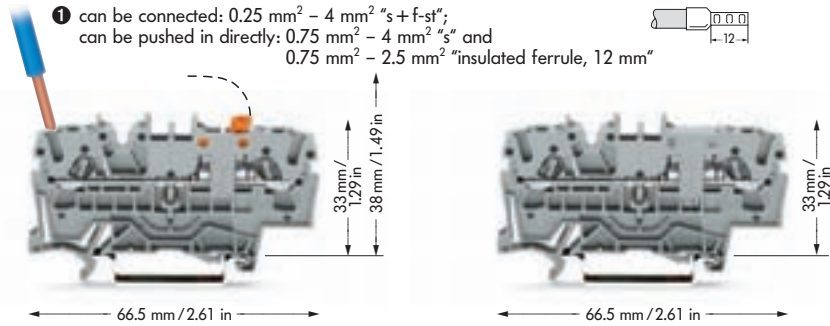
One disconnect and one through terminal block are accommodated on two levels in a terminal block that is only 5.2 mm wide.

TOPJOB® Disconnect Terminal Blocks, Series 2002



4
25

<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 16 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>*</p>	<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 16 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>*</p>
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor disconnect terminal block for test and measurement			2-conductor through terminal blocks, same profile as disconnect terminal block		
grey	2002-1671	100	grey	2002-1601	100
blue	2002-1674	100	blue	2002-1604	100
orange	2002-1672	100	orange	2002-1602	100

Item-specific accessories

End and intermediate plate, 1 mm/0.039 in thick	End and intermediate plate, 1 mm/0.039 in thick
orange 2002-1692 100 (4 x 25)	orange 2002-1692 100 (4 x 25)
grey 2002-1691 100 (4 x 25)	grey 2002-1691 100 (4 x 25)

Accessories Series 2002

appropriate marker system **WMB/Marker strips/WMB Inline**



<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>light grey 2002-171 0.25-0.5 mm²</p> <p>dark grey 2002-172 0.75-1 mm²</p>	<p>Protective warning marker,</p> <p>for 5 terminal blocks</p> <p>yellow 2002-115 100 (4 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N 25 A</p> <p>2-way 2002-402 200 (8 x 25)</p> <p>3-way 2002-403 200 (8 x 25)</p> <p>4-way 2002-404 200 (8 x 25)</p> <p>5-way 2002-405 100 (4 x 25)</p> <p>: :</p> <p>10-way 2002-410 100 (4 x 25)</p>	<p>Staggered jumper, light grey, insulated, I_N 25 A</p> <p>2-way 2002-472 100 (4 x 25)</p> <p>3-way 2002-473 100 (4 x 25)</p> <p>4-way 2002-474 100 (4 x 25)</p> <p>5-way 2002-475 50 (2 x 25)</p> <p>: :</p> <p>12-way 2002-482 50 (2 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N 25 A</p> <p>1 - 3 2002-433 200 (8 x 25)</p> <p>1 - 4 2002-434 200 (8 x 25)</p> <p>1 - 5 2002-435 100 (4 x 25)</p> <p>: :</p> <p>1 - 10 2002-440 100 (4 x 25)</p>	<p>Test plug adapter, for test plug 4 mm/0.157 in Ø</p> <p>2009-174 100 (4 x 25)</p> <p>Testing tap, for max. 2.5 mm²</p> <p>2009-182 100 (4 x 25)</p>
<p>Modular TOPJOB® connector,</p> <p>for jumper contact slot</p> <p>1 pole 2002-511 100 (4 x 25)</p>	<p>Two-way marking adapter,</p> <p>pivotable</p> <p>2002-121 50 (4 x 25)</p>
<p>Spacer, modular 2002-549 100 (4 x 25)</p>	
<p>Test plug, with cable 500 mm/17.7"</p> <p>2 mm/0.079 in Ø</p> <p>red 210-136 50 (5 x 10)</p>	

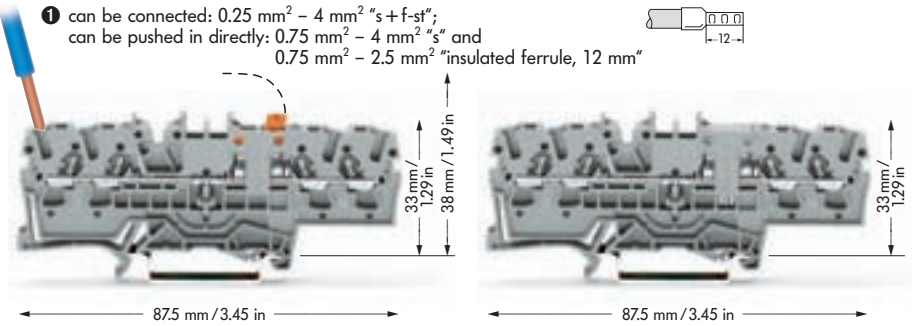
* Approvals pending

Technical explanations and abbreviations see page 10.2.

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TOPJOB® Disconnect Terminal Blocks, Series 2002

<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 16 A</p> <p>Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in</p> <p>*</p>	<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 16 A</p> <p>Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in</p> <p>*</p>
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
4-conductor disconnect terminal block for test and measurement			4-conductor through terminal blocks, same profile as disconnect terminal block		
grey	2002-1871	100 (4 x 25)	grey	2002-1801	100 (4 x 25)
blue	2002-1874	100 (4 x 25)	blue	2002-1804	100 (4 x 25)
orange	2002-1872	100 (4 x 25)	orange	2002-1802	100 (4 x 25)

Item-specific accessories

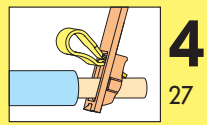
<p>End and intermediate plate, 1 mm / 0.039 in thick</p> <p>orange 2002-1892 100 (4 x 25) grey 2002-1891 100 (4 x 25)</p>	<p>End and intermediate plate, 1 mm / 0.039 in thick</p> <p>orange 2002-1892 100 (4 x 25) grey 2002-1891 100 (4 x 25)</p>
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Accessories Series 2002 appropriate marker system **WMB/Marker strips/WMB Inline**

<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>light grey 2002-171 0.25-0.5 mm² dark grey 2002-172 0.75-1 mm²</p>	<p>Protective warning marker, for 5 terminal blocks</p> <p>yellow 2002-115 100 (4 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N 25 A</p> <p>2-way 2002-402 200 (8 x 25) 3-way 2002-403 200 (8 x 25) 4-way 2002-404 200 (8 x 25) 5-way 2002-405 100 (4 x 25) : : 10-way 2002-410 100 (4 x 25)</p>	<p>Staggered jumper, light grey, insulated, I_N 25 A</p> <p>2-way 2002-472 100 (4 x 25) 3-way 2002-473 100 (4 x 25) 4-way 2002-474 100 (4 x 25) 5-way 2002-475 50 (2 x 25) : : 12-way 2002-482 50 (2 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N 25 A</p> <p>1 - 3 2002-433 200 (8 x 25) 1 - 4 2002-434 200 (8 x 25) 1 - 5 2002-435 100 (4 x 25) : : 1 - 10 2002-440 100 (4 x 25)</p>	<p>Test plug adapter, for test plug 4 mm / 0.157 in Ø</p> <p>2009-174 100 (4 x 25)</p>
<p>Modular TOPJOB® connector, for jumper contact slot</p> <p>1 pole 2002-511 100 (4 x 25)</p>	<p>Testing tap, for max. 2.5 mm²</p> <p>2009-182 100 (4 x 25)</p>
<p>Spacer, modular</p> <p>2002-549 100 (4 x 25)</p>	<p>Two-way marking adapter, pivotal</p> <p>2002-121 50 (4 x 25)</p>
<p>Test plug, with cable 500 mm / 17.7"</p> <p>2 mm / 0.079 in Ø</p> <p>red 210-136 50 (5 x 10)</p>	

* Approvals pending

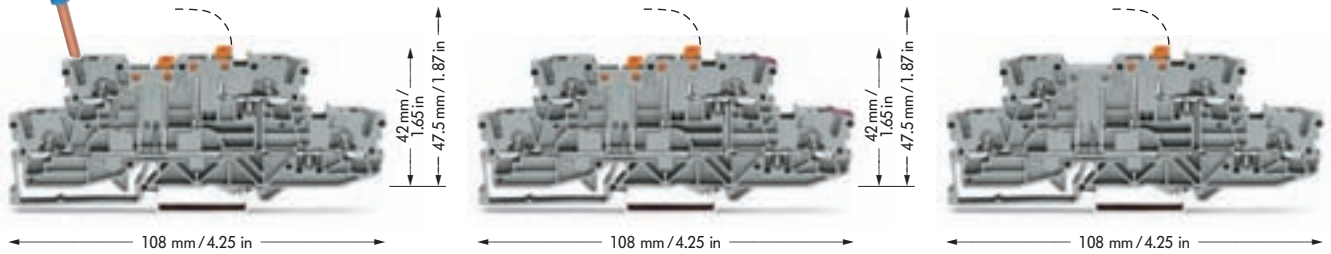
TOPJOB® Double Deck Disconnect Terminal Blocks, Series 2002



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27

0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 16 A Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in *	0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 16 A Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in *	0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 16 A Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in *
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① can be connected: 0.25 mm² – 4 mm² "s+f-st";
 can be pushed in directly: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm"



Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
4-conductor double deck double disconnect terminal blocks			4-conductor double deck double disconnect terminal blocks, lower deck and upper deck internally commoned on right side and with violet marking			4-conductor double deck disconnect terminal blocks, with disconnect on upper deck only, same profile as double deck double disconnect terminal blocks		
grey	2002-2951	●	grey	2002-2958	●	grey	2002-2971	●
blue	2002-2954	●	blue	2002-2959	●	blue	2002-2974	●
grey N/L	2002-2952	●				grey N/L	2002-2972	●

Item-specific accessories

End and intermediate plate, 1 mm/0.039 in thick orange 2002-2992 100 (4 x 25) grey 2002-2991 100 (4 x 25)	End and intermediate plate, 1 mm/0.039 in thick orange 2002-2992 100 (4 x 25) grey 2002-2991 100 (4 x 25)	End and intermediate plate, 1 mm/0.039 in thick orange 2002-2992 100 (4 x 25) grey 2002-2991 100 (4 x 25)
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Accessories Series 2002

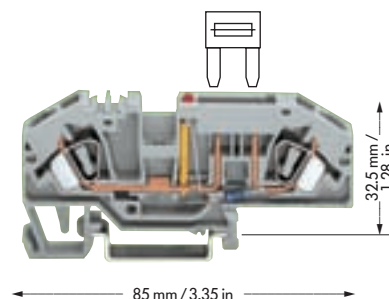
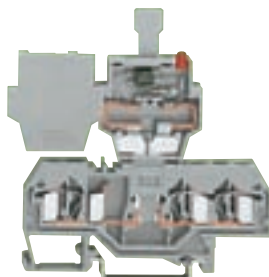
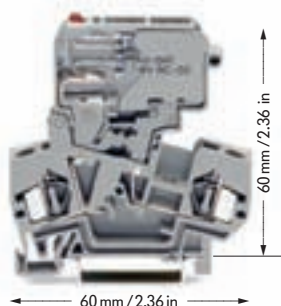
appropriate marker system **WMB/Marker strips/WMB Inline**

Insulation stop, 5 pcs/strip 200 strips light grey 2002-171 0.25-0.5 mm ² dark grey 2002-172 0.75-1 mm ²	Protective warning marker, for 5 terminal blocks yellow 2002-115 100 (4 x 25)	Test plug, with cable 500 mm/1'7.7" 2 mm/0.079 in Ø red 210-136 50 (5 x 10)
Push-in type jumper bars, light grey, insulated, I_N 25 A 2-way 2002-402 200 (8 x 25) 3-way 2002-403 200 (8 x 25) 4-way 2002-404 200 (8 x 25) 5-way 2002-405 100 (4 x 25) : : 10-way 2002-410 100 (4 x 25)	Push-in type jumper bars, light grey, insulated, I_N 25 A 1 - 3 2002-433 200 (8 x 25) 1 - 4 2002-434 200 (8 x 25) 1 - 5 2002-435 100 (4 x 25) : : 1 - 10 2002-440 100 (4 x 25)	Staggered jumper, light grey, insulated, I_N 25 A 2-way 2002-472 100 (4 x 25) 3-way 2002-473 100 (4 x 25) 4-way 2002-474 100 (4 x 25) 5-way 2002-475 50 (2 x 25) : : 12-way 2002-482 50 (2 x 25)
Modular TOPJOB® connector, for jumper contact slot 1 pole 2002-511 100 (4 x 25)	Test plug adapter, for test plug 4 mm/0.157 in Ø 2009-174 100 (4 x 25)	
Spacer, modular 2002-549 100 (4 x 25)	Testing tap, for max. 2.5 mm² 2009-182 100 (4 x 25)	

Fused Disconnect Terminal Blocks, Pluggable Fuse Modules, Fuse Terminal Blocks, Series 281 and 282

<p>0.08 – 4 mm² ① 800 V/8 kV/3 ① 10 A max. Terminal block width 8 mm / 0.315 in Terminal block width 10 mm / 0.394 in 9 – 10 mm / 0.37 in</p> <p>* </p>	<p>AWG 28 – 12 600 V, 10 A </p> <p>① 250 V max. ① 6.3 A max. Fuse plug width 6 mm / 0.236 in</p>	<p>0.2 – 6 mm² ① 400 V/6 kV/3 ① 30 A </p> <p>AWG 24 – 10 </p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p> <p>* </p>
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① Electrical ratings are given by the fuse or nominal voltage of the indicator lamp respectively!

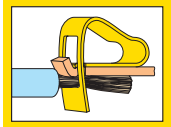


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Fused disconnect terminal blocks, grey		Fuse plug,		2-cond. fuse term. bl. for mini-automotive fuses,	
for miniature fuses, terminal block width 8 mm/0.315 in		6 mm/0.236 in wide, with pull-tab		with testing facility,	
5 x 20 mm	281-611 50	for miniature metric fuses		without blown fuse indication	
5 x 20 mm	281-611/281-541 ① 50	5 x 20 mm and 5 x 25 mm		grey	282-696 25
5 x 20 mm	281-611/281-417 ② 50	without blown-fuse indication		with blown fuse indication by LED, 12 V	
5 x 25 mm	281-612 50	281-511 50		Circuit I, grey	282-698/281-429 25
5 x 25 mm	281-612/281-541 ① 50	with LED		Circuit II, grey	282-698/281-449 25
5 x 25 mm	281-612/281-417 ② 50	24 V AC/DC 281-512/281-501 50		with blown fuse indication by LED, 24 V	
5 x 30 mm	281-622 50	with neon lamp		Circuit I, grey	282-698/281-413 25
	281-622/281-541 ① 50	120 V AC/DC 281-512/281-418 50		Circuit II, grey	282-698/281-434 25
	281-622/281-417 ② 50	230 V AC/DC 281-512/281-417 50		3-conductor through terminal block of same shape,	
Terminal block width 10 mm/0.394 in		Carrier term. bl., 0.08 – 4 mm², 9 – 10 mm/0.37 in		with test facility,	
0.25" x 1"	281-613 50	2-cond. 281-916 100 (4x25)		grey	282-699 25
0.25" x 1"	281-613/281-541 ① 50	3-cond. 281-610 100 (4x25)		blue	282-694 25
0.25" x 1"	281-613/281-417 ② 50	4-cond. 281-656 100 (4x25)			
0.25" x 1.25"	281-623 50	End plate, 2.5 mm/0.098 in thick		End and intermediate plate, 2 mm/0.079 in thick	
0.25" x 1.25"	281-623/281-541 ① 50	for 2-conductor terminal block		orange 282-333 100 (4x25)	
0.25" x 1.25"	281-623/281-417 ② 50	orange 281-329 100 (4x25)		grey 282-334 100 (4x25)	
with blown fuse indication by		grey 281-328 100 (4x25)			
① LED 15-30 V ≅		for 3-conductor terminal block			
② neon lamp 230 V ≅		orange 281-326 100 (4x25)			
other voltages upon request		grey 281-324 100 (4x25)			
End and intermediate plate, 2.5 mm/0.098 in thick		for 4-conductor terminal block			
orange 281-309 100 (4x25)		orange 281-335 100 (4x25)			
grey 281-311 100 (4x25)		grey 281-334 100 (4x25)			
Accessories, Series 281		Accessories, Series 281		Accessories, Series 282	
Appropriate marking system WMB/WSB		Appropriate marking system WSB 4 mm wide		Appropriate marking system WMB/WSB	
Adjacent jumper, insulated, I_N 32 A		Comb type jumper bar, insulated, I_N 32 A		Adjacent jumper, insulated, I_N 41 A	
grey	281-402 200 (8x25)	2-way 281-482 100 (4x25)		grey	282-402 100 (4x25)
		3-way 281-483 100 (4x25)			
		10-way 281-490 50 (2x25)			
Interlocking link, for mechanical locking of several fuse holders, 1 m/3'3" long, transparent		Alternate comb type jumper bar, insulated, I_N 32 A		Alternate jumper, insulated, I_N 41 A	
	210-254 1	2-way 281-492 100 (4x25)		grey 282-409 100 (4x25)	
Test plug adapter, suitable for terminal bl. 1.5 - 4 mm²		Operating tool, insulated		Screwdriver, with partially insulated shaft	
5 mm/0.197 in wide		2-way 280-432 1		(3.5 x 0.5) mm	
280-404 100 (4x25)		3-way 280-433 1		210-620 1	
for test plug 2.3 mm Ø		5-way 281-440 1			
		Shorting link, 5 x 20 mm/0.20 x 0.79 in, 6.3 A		(5.5 x 0.8) mm	
Test plug, 6 mm/0.236 in wide, with CAGE CLAMP®		if the fuse plug is used as disconnect plug		210-621 1	
for 0.08 - 2.5 mm ² /AWG 28-14		281-503 250 (10x25)			
I _N 24 A					
281-407 100 (4x25)					
for test plug 4 mm Ø					

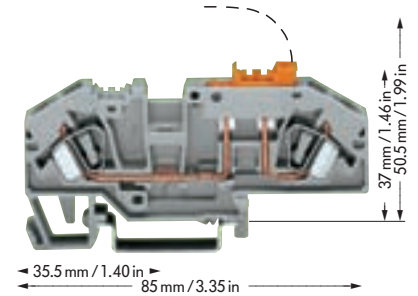
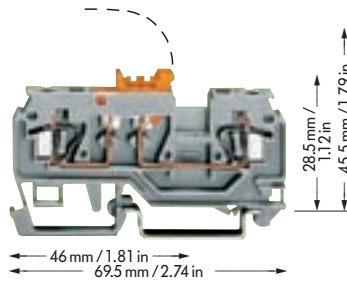
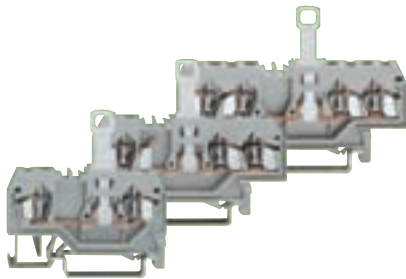
* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

Disconnect Terminal Blocks, Series 280, 281 and 282

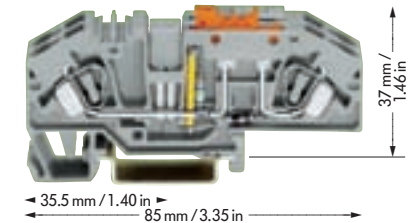
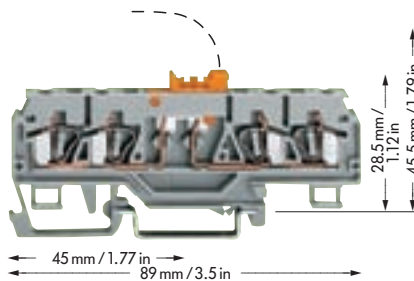


<p>0.08 – 2.5 mm² AWG 28 – 12** 400 V/8 kV/3 300 V, 15 A 10 A 300 V, 15 A </p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>* GL BV LR NV </p>	<p>0.08 – 2.5 mm² AWG 28 – 12** 400 V/6 kV/3 600 V, 15 A 16 A 300 V, 15 A </p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>* GL BV LR NV </p>	<p>0.2 – 6 mm² AWG 24 – 10 400 V/6 kV/3 600 V, 30 A 30 A 300 V, 36 A </p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p> <p>* GL BV LR NV </p>
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Colour	Item- No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	
Disconnect terminal blocks series 280, 2-conductor disconnect terminal blocks			2-cond. disc. term. blocks for test and measurem., with knife disconnect, with test plug Ø 2 mm/0.079 in and Ø 2.3 mm/0.091 in			2-conductor disconnect terminal blocks, with testing facility, of same shape as fuse terminal blocks			
grey	280-912	50	housing	knife disc.		grey	282-697	25	
blue	280-914	50	grey	orange	280-870	100	blue	282-695	25
orange	280-913	50	grey	grey	280-868	100	3-conductor through term. blocks of same shape, with testing facility,		
3-conductor disconnect terminal block			blue	orange	280-876	100	grey	282-699	25
grey	280-683	50	orange	orange	280-879	100	blue	282-694	25
4-conductor disconnect terminal blocks									
grey	280-836	50							
blue	280-839	50							
orange	280-805	50							

<p>0.08 – 4 mm² AWG 28 – 12** 400 V/8 kV/3 300 V, 15 A 10 A 300 V, 15 A </p> <p>Terminal block width 6 mm / 0.236 in 9 – 10 mm / 0.37 in</p> <p>* GL BV LR NV </p>








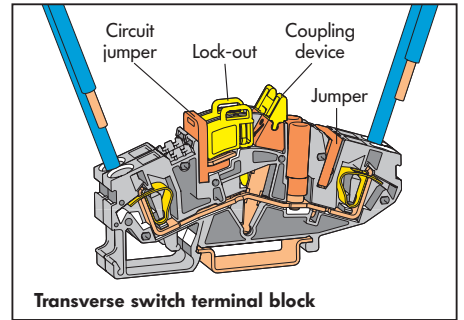
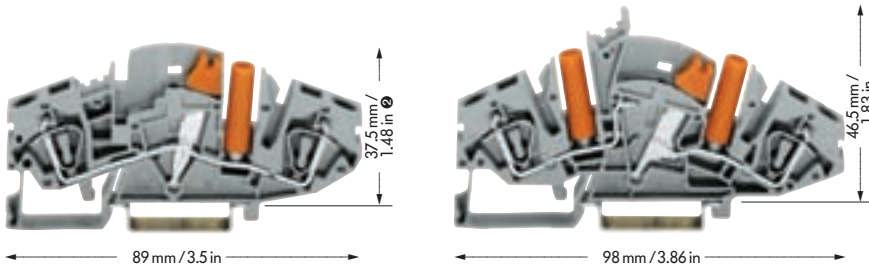
Item-No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Voltage	Item No.	Pack.-unit pcs			
Disconnect terminal blocks series 281, grey			4-cond. disc. term. blocks for test and measurem., housing knife disc.			Ground (earth) cond. disconnect term. bl., grey 				
2-conductor	281-912	50	grey	orange	280-874	50	f. AC/DC 24 V	282-640	12	
3-conductor	281-683	50	grey	grey	280-881	50	f. AC/DC 48 V	282-641	12	
4-conductor	281-659	50	blue	orange	280-885	50	f. AC/DC 120 V	282-638	12	
			orange	orange	280-883	50	f. AC/DC 230 V	282-639	12	
Accessories, Series 280/281 Appropriate marking system WMB/WSB			Accessories, Series 280 Appropriate marking system WMB/WSB			Accessories, Series 282 Appropriate marking system WMB/WSB				
End plate series 280 series 281			End plate, 2.5 mm/0.098 in thick			End plate, 2 mm/0.079 in thick				
	f. 2-cond. term. bl.	100 (4 x 25)		for 2-conductor terminal blocks		orange	282-333	100 (4 x 25)		
	orange	280-309	281-329	orange	280-371	100 (4 x 25)	grey	282-334	100 (4 x 25)	
	grey	280-308	281-328	grey	280-374	100 (4 x 25)	Adjacent jumper, insulated, I_N 41 A			
	f. 3-cond. term. bl.	100 (4 x 25)		for 4-conductor terminal blocks	orange	280-373	100 (4 x 25)	grey	282-402	100 (4 x 25)
	orange	280-326	281-326	orange	280-376	100 (4 x 25)	Alternater jumper, insulated, I_N 41 A			
	grau	280-324	281-324	grey			grey	282-409	100 (4 x 25)	
	f. 4-cond. term. bl.	100 (4 x 25)	Screwdriver, with partially insulated shaft							
	orange	280-315	281-335	(3.5 x 0.5) mm	210-620	1				
	grey	280-314	281-334	(5.5 x 0.8) mm	210-621	1				
Test sockets, insulated,										
	2 mm/0.079 in Ø	red	209-107	100 (2 x 50)						
	2.3 mm/0.091 in Ø	yellow	209-108	100 (2 x 50)						
						Ⓢ Application notes see page 4.35				

Please find the entire product range in our General Catalogue W4, Volume 1. More information at www.wago.com.

**AWG 12: THHN, THWN

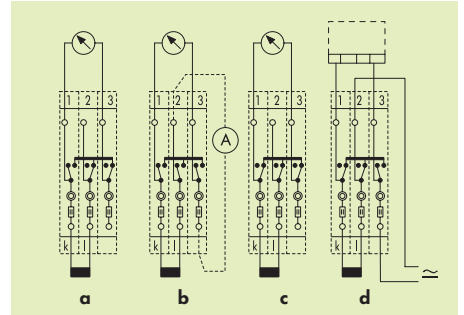
Longitudinal Disconnect and Transverse Switch Terminal Blocks, Series 282

0.2 – 6 mm² 500 V/6 kV/3 30 A Terminal block width 8 mm / 0.315 in  12 – 13 mm / 0.49 in <small>* </small>	AWG 24 – 10 600 V, 30 A  Terminal block width 8 mm / 0.315 in  12 – 13 mm / 0.49 in <small>* </small>	Application notes
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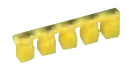




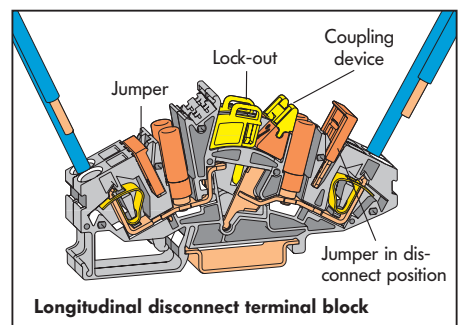
Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor transverse switch terminal block, with (orange) touchproof test socket, 4 mm/0.157 in Ø grey 282-811 20			2-conductor longitudinal disconnect terminal block, with (orange) touchproof test socket, 4 mm/0.157 in Ø grey 282-821 20		
End and intermediate plate, 1.5 mm/0.059 in thick orange 282-366 50 (2 x 25) grey 282-361 50 (2 x 25)			End and intermediate plate, 1.5 mm/0.059 in thick orange 282-365 50 (2 x 25) grey 282-360 50 (2 x 25)		

Current transformer circuit with transverse switch terminal blocks

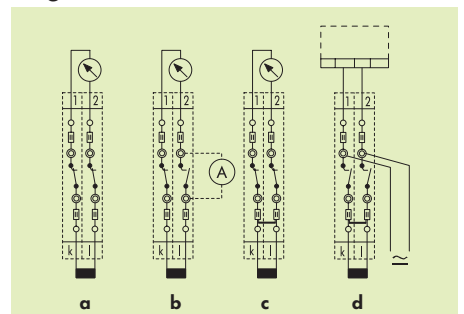


a = Normal operation b = Measured value test
c = Transformer short circuit d = Relay test




Accessories, Series 282		appropriate marking system WMB/WSB/WCB/Mini-WSB	
Lock-out, for disconnect link  yellow 282-370 100 (4 x 25)	Lock-out, for disconnect link  yellow 282-370 100 (4 x 25)		
Coupling device, yellow, to couple several disconnect links 2-way 282-372 50 (5 x 10) 3-way 282-373 50 (5 x 10) 4-way 282-374 50 (5 x 10)	Coupling device, yellow, to couple several disconnect links 2-way 282-372 50 (5 x 10) 3-way 282-373 50 (5 x 10) 4-way 282-374 50 (5 x 10)		
Jumper, insulated, I_N 30 A, orange 2-way 282-432 50 (5 x 10) 3-way 282-433 50 (5 x 10) : 10-way 282-440 50 (5 x 10)	Jumper, insulated, I_N 30 A, orange 2-way 282-432 50 (5 x 10) 3-way 282-433 50 (5 x 10) : 10-way 282-440 50 (5 x 10)		
Special versions, e.g. 1–3–5, on request			
Circuit jumper, insulated, I_N 30 A,  2-way 282-442 50 (5 x 10) 3-way 282-443 50 (5 x 10) 4-way 282-444 50 (5 x 10)	Collective carrier for jumpers,  282-369 25		
Protective warning marker, with high voltage symbol, for 5 terminal blocks  yellow 282-415 100 (4 x 25)	Protective warning marker, with high voltage symbol, for 5 terminal blocks  yellow 282-415 100 (4 x 25)		
Banana plugs, only for protective extra-low voltage (42 V),  black 215-311 50 red 215-212 50 blue 215-711 50	Screwdriver, with partially insulated shaft (5.5 x 0.8) mm  210-621 1		



Current transformer circuit with longitudinal



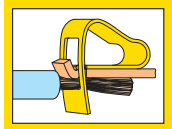
a = Normal operation b = Measured value test
c = Transformer short circuit d = Relay test

other colours and technical data see page 9.5	
Sticker for operating instructions  210-424 100	Sticker for operating instructions  210-423 100
WMB Marker cards, 10 strips with 10 markers each,	
 with printing	blue U/V (50 each) 794-5554/000-006 1 card yellow k/I (50 each) 794-5553/000-002 1 card white 1...10 (10 each) 793-5552 5 cards white 11...20 (10 each) 793-5553 5 cards

* You can find approvals on the Internet at www.wago.com.

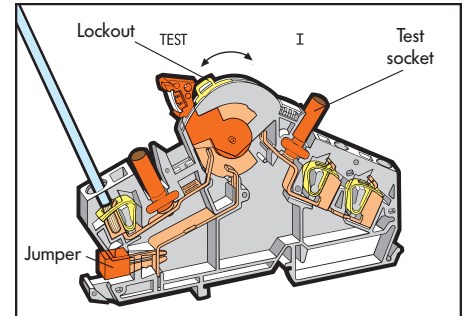
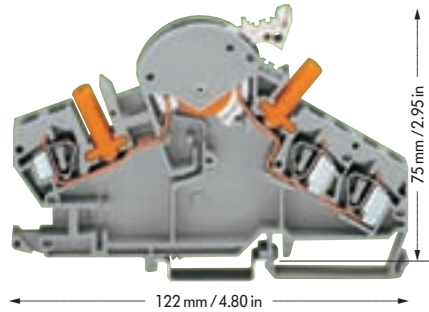
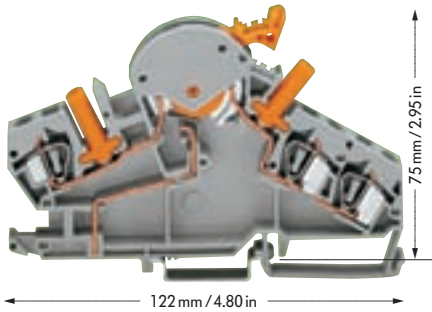
Technical explanations and abbreviations see page 10.2.

Disconnect Terminal Blocks for Test and Measurement, Series 282

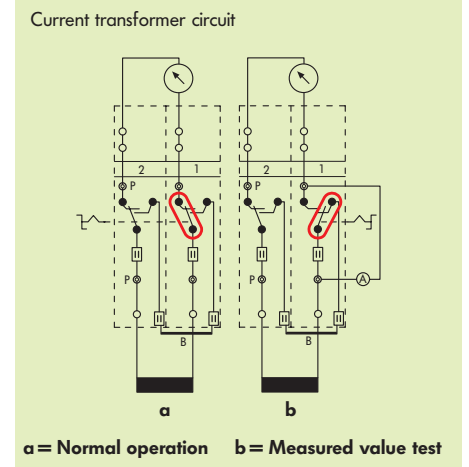
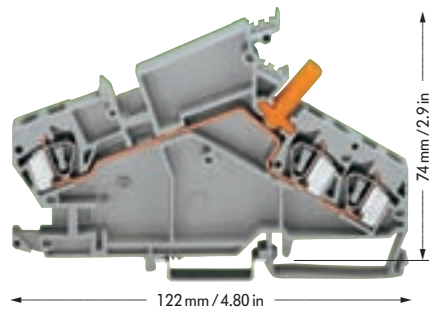
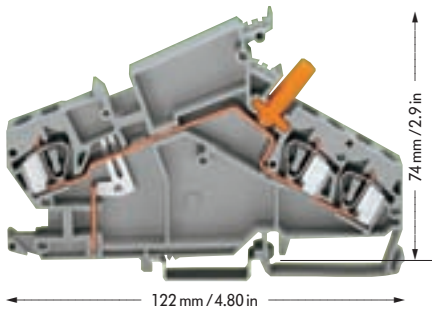


4
31

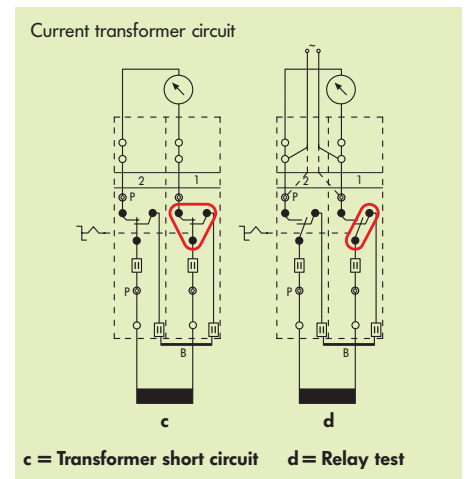
<p>0.2 – 6 mm² 500 V/6 kV/3 30 A</p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p> <p>* </p>	<p>AWG 24 – 10 600 V, 30 A </p> <p>600 V, 30 A </p>	<p>0.2 – 6 mm² 500 V/6 kV/3 30 A</p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p> <p>* </p>	<p>AWG 24 – 10 600 V, 30 A </p> <p>600 V, 30 A </p>	<p>Application notes</p>
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
<p>Disconnect/Test terminal blocks, example for current transformer circuits, with (orange) touchproof test socket, 4 mm/0.157 in Ø, disconnect link orange</p>			<p>Disconnect/Test terminal blocks, example for voltage transformer circuits, with (orange) touchproof test socket, 4 mm/0.157 in Ø, disconnect link light grey</p>		
grey	282-870	20	grey	282-860	20



Colour	Item-No.	Pack.-unit pcs	Colour	Item-No.	Pack.-unit pcs
<p>Through terminal block, example for current transformer circuits, with (orange) touchproof test socket, 4 mm/0.157 in Ø, grey</p>			<p>Through terminal block, example for voltage transformer circuits, with (orange) touchproof test socket, 4 mm/0.157 in Ø, grey</p>		
grey	282-865	20	grey	282-866	20



Accessories, Series 282 appropriate marking system WMB/WSB					
<p>End and intermediate plate, for disconnect term. bl. 1.5 mm/0.059 in thick orange 282-387 50 (5 x 10) grey 282-392 50 (5 x 10)</p>			<p>Adjacent jumper, insulated, I_N 41 A grey 282-402 100 (4 x 25) orange 282-424 100 (4 x 25)</p>		
<p>End and intermediate plate, for through term. blocks 1.5 mm/0.059 in thick orange 282-385 50 (5 x 10) grey 282-390 50 (5 x 10)</p>			<p>Wire comming chain, insulated, black, 4 connections, 24 A, 2.5 mm² 3 x 80 mm 709-110 1</p>		
<p>Lock-out for disconnect link yellow 282-384 100 (5 x 20)</p>			<p>Wire comming chain, insulated, black, 3 connections, 24 A, 2.5 mm² 2 x 90 mm 709-111 1 2 x 150 mm 709-112 1</p>		
<p>Interlocking link, for mechanical locking of several links, 1 m/3'3" long, transparent 210-254 1</p>			<p>Protective warning marker, with high voltage symbol, for 5 terminal blocks yellow 282-415 100 (4 x 25)</p>		
<p>Locking cover, for mechanical locking of several links, transparent 1-pole 282-881 50 (5 x 10) : 4-pole 282-884 50 (5 x 10)</p>			<p>Banana plugs, only for protective extra-low voltage (42 V), black 215-311 50 red 215-212 50 blue 215-711 50 other colours and technical data see page 9.5</p>		

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 locking links, lock-outs

Assembly

CAGE CLAMP® connection



Assembly on the carrier rail. Terminal blocks with ground (earth) connection automatically establish a direct contact to the rail.



Removal from the carrier rail. Attention - remove jumper contacts first!

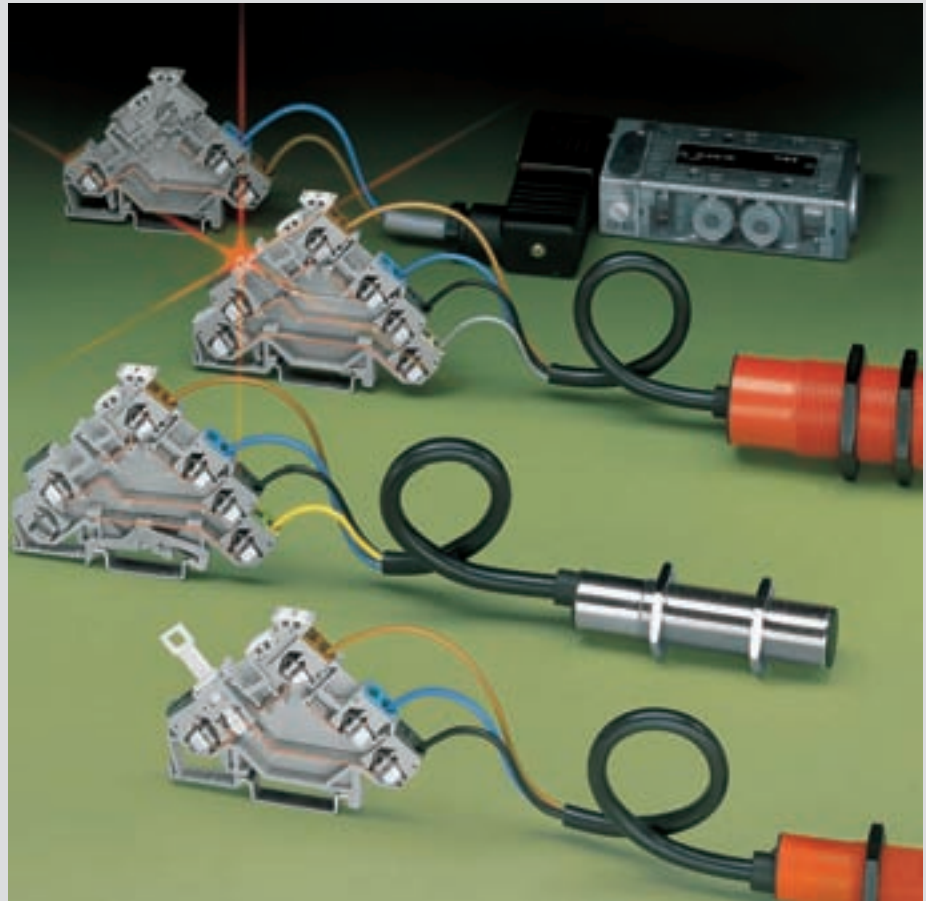


Connection of conductors with straight screw-driver 210-120

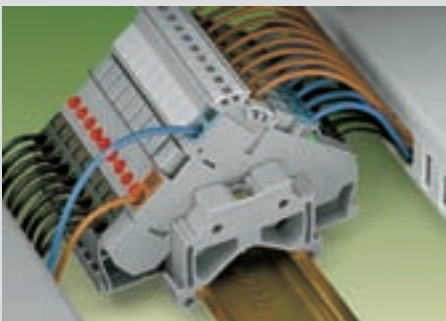
Commoning



Commoning with adjacent jumpers. Push jumper down FIRMLY until FULLY inserted!

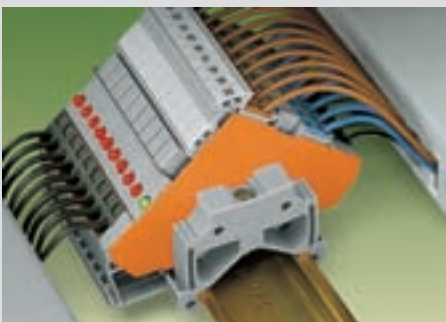


Voltage supply to assembly



Sensor terminal blocks. Voltage supply from control panel side

Voltage supply to assembly



Sensor terminal blocks. Voltage supply from sensor side

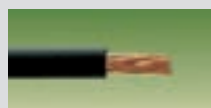


Actuator terminal blocks and a thermocouple and shield (screen) connection



CAGE CLAMP® clamps the following copper wires:*

solid



stranded



fine-stranded, also with tinned single strands

Marking



Connection of conductors with angled screwdriver 210-258



Marking with WMB multi marking system or WSB-quick marking system

Testing

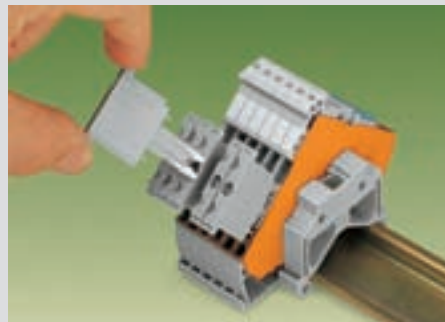


Testing with banana plug and adapter 209-170

Actuator terminal blocks (see W4, Volume 1)



Actuator terminal blocks with fuse plugs 281-511 (requires additional intermediate plates)



Actuator terminal blocks with component plugs 280-801



Actuator disconnect terminal block with ground (earth) connection, for line interruption

Series 289 (see W4, Volume 3)



Connection module for 8 x 3-conductor sensors



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



Connection module for 8 actuators (2-conductor with ground (earth) contact)

Series 270 (see W4, Volume 1)



Sensor LED terminal block



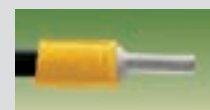
Commoning the voltage supply using uninsulated push-in type jumper bars



fine-stranded wire – tip bonded



fine-stranded wire with crimped ferrule ❶









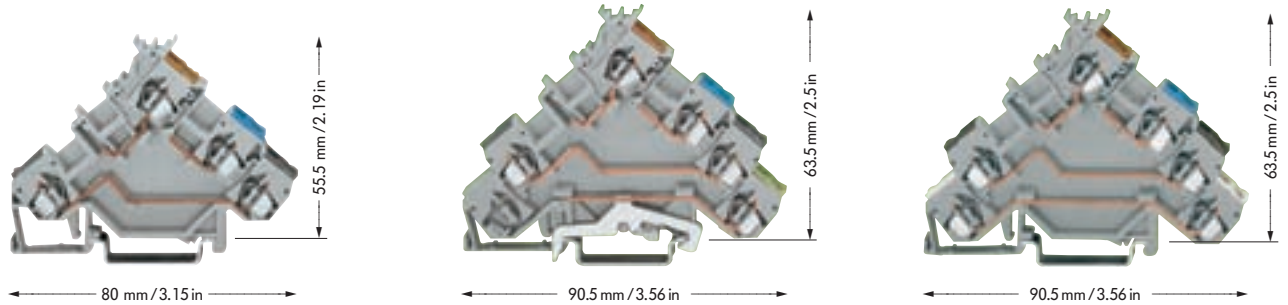
fine-stranded wire with crimped pin terminal

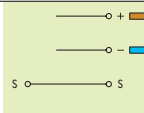
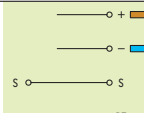
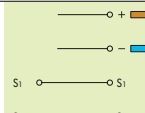
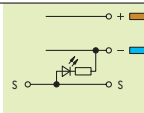
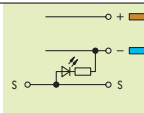
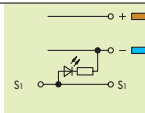
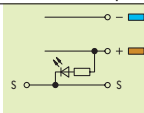
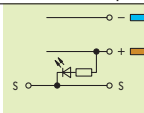
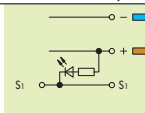
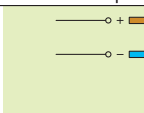
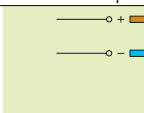
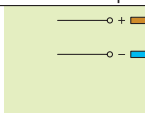
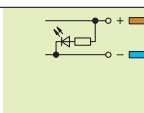
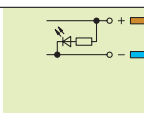
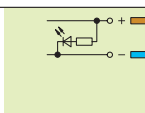
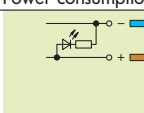
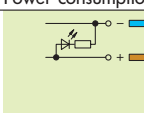
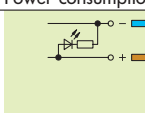



❶ When using wires with ferrules, it is necessary to use a terminal block one size larger than the nominal cross section of the wire.




4 Sensor Terminal Blocks, Series 280

34

<p>Sensor terminal blocks for 3-cond. sensors 0.08 – 2.5 mm² AWG 28 – 12</p> <p>Terminal block width 5 mm / 0.197 in  8 – 9 mm / 0.33 in</p> <p>* </p>	<p>Sensor term. bl. with ground (earth) conn. 0.08 – 2.5 mm² AWG 28 – 12</p> <p>Terminal block width 5 mm / 0.197 in  8 – 9 mm / 0.33 in</p> <p>* </p>	<p>Sensor terminal blocks for 4-cond. sensors 0.08 – 2.5 mm² AWG 28 – 12</p> <p>Terminal block width 5 mm / 0.197 in  8 – 9 mm / 0.33 in</p> <p>* </p>
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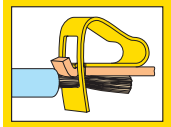
Item-No.	Pack.-unit pcs	Item-No.	Pack.-unit pcs	Item-No.	Pack.-unit pcs
 Sensor terminal block 400 V/6 kV/3, 20 A 280-560 50		 Sensor terminal block with ground (earth) connection, 400 V/6 kV/3, 20 A 280-570 50		 Sensor terminal block 400 V/6 kV/3, 20 A 280-580 50	
 Sensor LED terminal block DC 24 V, 20 A, LED red for PNP (positive) switching sensors 280-560/281-434 50 Power consumption LED: 4.8 mA		 Sensor LED terminal block with ground (earth) connection, DC 24 V, 20 A, LED red for PNP (positive) switching sensors 280-570/281-434 50 Power consumption LED: 4.8 mA		 Sensor LED terminal block DC 24 V, 20 A, LED red for PNP (positive) switching sensors 280-580/281-434 50 Power consumption LED: 4.8 mA	
 Sensor LED terminal block DC 24 V, 20 A, LED red for NPN (negative) switching sensors 280-561/281-413 50 Power consumption LED: 4.8 mA		 Sensor LED terminal block with ground (earth) connection, DC 24 V, 20 A, LED red for NPN (negative) switching sensors 280-571/281-413 50 Power consumption LED: 4.8 mA		 Sensor LED terminal block DC 24 V, 20 A, LED red for NPN (negative) switching sensors 280-581/281-413 50 Power consumption LED: 4.8 mA	
 Sensor supply terminal block voltage supply from sensor side 400 V/6 kV/3, 20 A 280-564 10		 Sensor supply terminal block with ground (earth) connection, voltage supply from sensor side 400 V/6 kV/3, 20 A 280-574 10		 Sensor supply terminal block voltage supply from sensor side 400 V/6 kV/3, 20 A 280-584 10	
 Sensor LED supply term. block voltage supply from sensor side DC 24 V, 20 A, LED green for PNP (positive) switching sensors 280-564/281-483 10 Power consumption LED: 4.8 mA		 Sensor LED supply term. block with ground (earth) connection, DC 24 V, 20 A, LED green for PNP (positive) switching sensors 280-574/281-483 10 Power consumption LED: 4.8 mA		 Sensor LED supply term. block DC 24 V, 20 A, LED green for PNP (positive) switching sensors 280-584/281-483 10 Power consumption LED: 4.8 mA	
 Sensor LED supply term. block voltage supply from sensor side DC 24 V, 20 A, LED green for NPN (negative) switching sensors 280-566/281-496 10 Power consumption LED: 4.8 mA		 Sensor LED supply term. block with ground (earth) connection, DC 24 V, 20 A, LED green for NPN (negative) switching sensors 280-576/281-496 10 Power consumption LED: 4.8 mA		 Sensor LED supply term. block DC 24 V, 20 A, LED green for NPN (negative) switching sensors 280-586/281-496 10 Power consumption LED: 4.8 mA	
 End and intermediate plate , 1 mm/0.039 in thick orange 280-321 100 (4 x 25) grey 280-319 100 (4 x 25)		 End and intermediate plate , 1 mm/0.039 in thick orange 280-323 100 (4 x 25) grey 280-320 100 (4 x 25)		 End and intermediate plate , 1 mm/0.039 in thick orange 280-323 100 (4 x 25) grey 280-320 100 (4 x 25)	












Accessories sensor terminal blocks			appropriate marking system WMB/WSB		
 Adjacent jumper , insulated, I _N 24 A grey 280-402 200 (8 x 25)	 Test plug adapter , suitable for terminal blocks 1.5 - 10 mm ² /AWG 16 - 8 8 mm/0.315 in wide 209-170 50 (2 x 25) for test plug 4 mm/0.157 in Ø	 Insulation stop , 5 pcs/strip 200 strips white 280-470 0.08 mm ² - 0.2 mm ² light grey 280-471 0.25 mm ² - 0.5 mm ² dark grey 280-472 0.75 mm ² - 1 mm ²			
			Test plug series 215 see page 9.5		

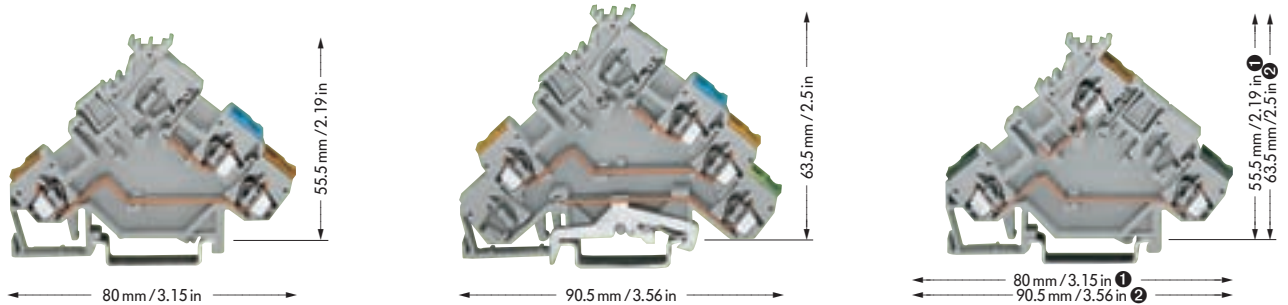
* You can find approvals on the Internet at www.wago.com.

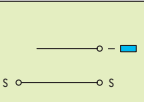
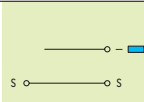
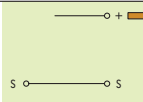
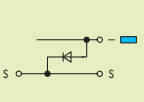
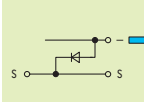
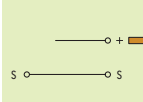
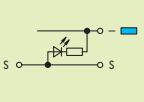
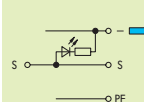
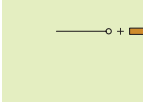
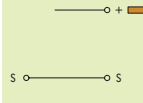
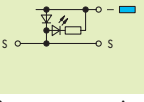
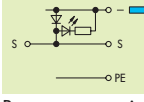
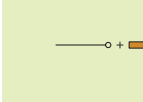
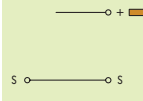
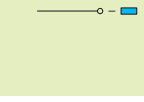
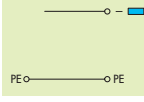







Technical explanations and abbreviations see page 10.2.

Actuator Terminal Blocks, Series 280



Actuator term. blocks for 2 cond. actuators 0.08 – 2.5 mm ² AWG 28 – 12 Terminal block width 5 mm / 0.197 in  8 – 9 mm / 0.33 in *  	Actuator term. bl. with ground (earth) conn. 0.08 – 2.5 mm ² AWG 28 – 12 Terminal block width 5 mm / 0.197 in  8 – 9 mm / 0.33 in *   	Actuator term. bl. with shield (screen) conn. 0.08 – 2.5 mm ² AWG 28 – 12 Terminal block width 5 mm / 0.197 in  8 – 9 mm / 0.33 in *   
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Item-No.	Pack.-unit pcs	Item-No.	Pack.-unit pcs	Item-No.	Pack.-unit pcs			
	Actuator terminal block (e.g. for magnetic valves) 400 V/6 kV/3, 20 A 280-562	50		Actuator terminal block with ground (earth) 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 ①	50
	Actuator terminal block with recovery diode 1 N 4007 250 V/4 kV/3, 20 A 280-562/281-411	50		Actuator terminal block with ground (earth) connection, with recovery diode 1 N 4007 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 ①	50
	Actuator LED terminal block DC 24 V, 20 A, LED red 280-562/281-434	50		Actuator LED terminal block with ground (earth) connection, DC 24 V, 20 A, LED red 280-572/281-434	50		Actuator supply terminal block with end plate, terminal bl. width 6 mm/0.236 in, for 280-554 and 280-555 400 V/6 kV/3, 20 A 280-556 ①	20
Power consumption LED: 4.8 mA			Power consumption LED: 4.8 mA				Actuator terminal block with shield (screen) connection 400 V/6 kV/3, 20 A 280-585 ②	50
	Actuator LED terminal block DC 24 V, LED red with recovery diode 1 N 4007 280-562/281-420	50		Actuator LED terminal block with ground (earth) connection, DC 24 V, 20 A, LED red 280-572/281-420	50		Actuator supply terminal block with shield (screen) connection, with end plate, terminal bl. width 6 mm/0.236 in 280-586 ②	20
Power consumption LED: 4.8 mA			Power consumption LED: 4.8 mA				Actuator terminal block with shield (screen) conductor through contact 400 V/6 kV/3, 20 A 280-583 ②	50
	Actuator supply terminal block voltage supply from actuator side 400 V/6 kV/3, 20 A 280-592	10		Actuator supply terminal block with ground (earth) connection, voltage supply from actuator side 400 V/6 kV/3, 20 A 280-593	10		Actuator terminal block with shield (screen) conductor through contact 400 V/6 kV/3, 20 A 280-583 ②	50
	End and intermediate plate , 1 mm/0.039 in thick orange 280-321 100 (4 x 25) grey 280-319 100 (4 x 25)			End and intermediate plate , 1 mm/0.039 in thick orange 280-323 100 (4 x 25) grey 280-320 100 (4 x 25)			End and intermediate plate , 1 mm/0.039 in thick, for ① orange 280-323 100 (4 x 25) ① grey 280-319 100 (4 x 25) ② orange 280-323 100 (4 x 25) ② grey 280-320 100 (4 x 25)	
Accessories actuator terminal blocks appropriate marking system WMB/WSB								
	Adjacent jumper , insulated, I _N 24 A grey 280-402 200 (8 x 25)			Test plug adapter , suitable for terminal blocks 1.5 - 10 mm ² /AWG 16 - 12 8 mm/0.315 in wide 209-170 50 (2 x 25) for test plug 4 mm/0.157 in Ø			Insulation stop , 5 pcs/strip 200 strips white 280-470 0.08 mm ² - 0.2 mm ² light grey 280-471 0.25 mm ² - 0.5 mm ² dark grey 280-472 0.75 mm ² - 1 mm ²	
			Test plug series 215 see page 9.5					

Rail-Mounted Terminal Blocks with CAGE CLAMP®, Series 279 to 284

Side-entry

CAGE CLAMP® connection



Open the clamping spring using a 2.5 mm screwdriver and insert the conductor as far as possible



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

Marking



Marking with WMB Multi marking system or WSB Quick marking system

Testing

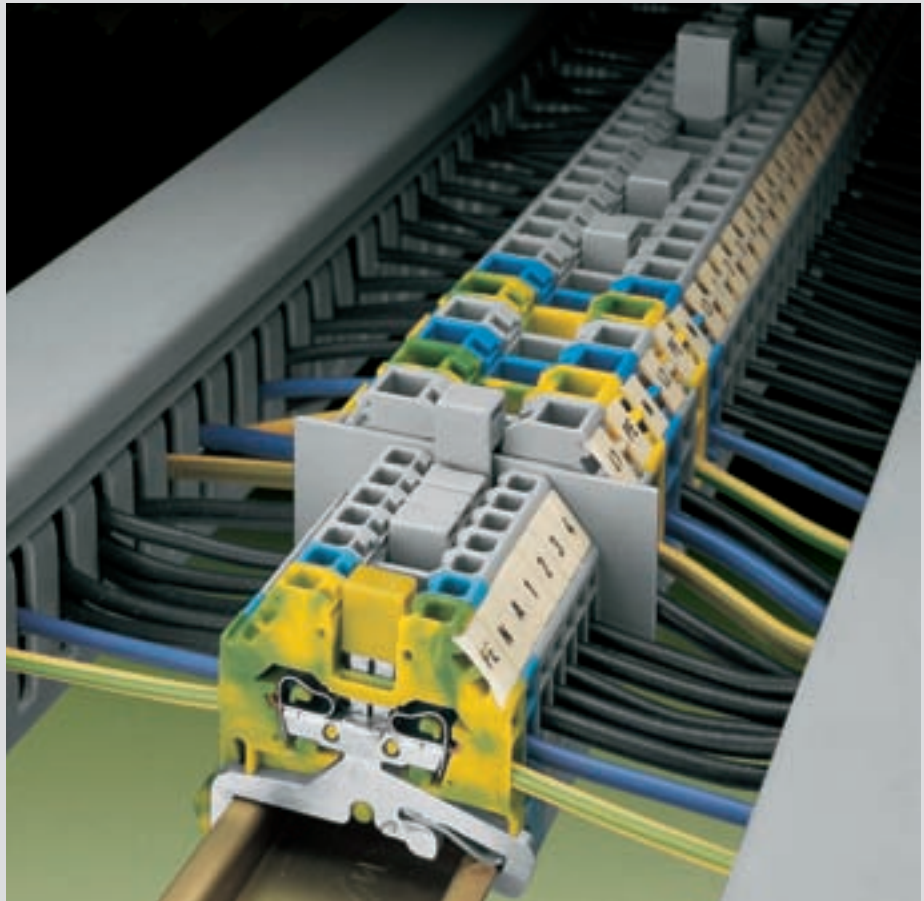


Testing with test plug adapter

Commoning . . .



Commoning with adjacent jumpers. Push jumper down FIRMLY until FULLY inserted!



. . . with step-down jumpers



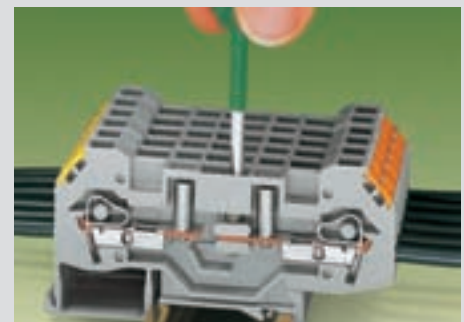
Commoning of side-entry rail-mounted terminal blocks with step-down jumpers

Fused disconnect terminal blocks



Replacing a fuse

Disconnect terminal blocks

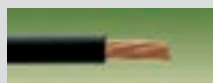


Shifting the disconnect slide link

CAGE CLAMP® clamps the following copper wires:



solid



stranded



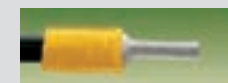
fine stranded



tip bonded

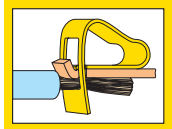


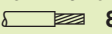
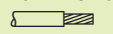
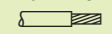
with crimped ferrule

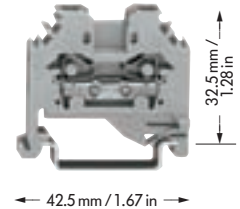
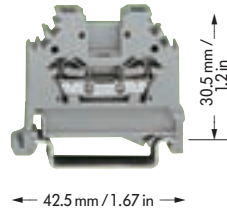
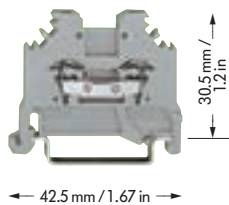


with crimped pin terminal

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



0.08 – 1.5 mm² 800 V/8 kV/3 18 A Terminal block width 4 mm / 0.157 in  8 – 9 mm / 0.33 in *	AWG 28 – 16 600 V, 10 A 600 V, 10 A	0.08 – 2.5 mm² 800 V/8 kV/3 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 mm² 800 V/8 kV/3 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, 25 A
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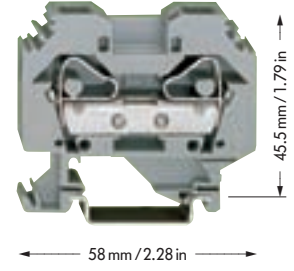
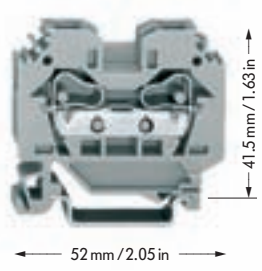
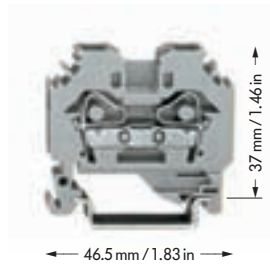


Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			2-conductor through terminal blocks			2-conductor through terminal blocks		
grey	279-101	100	grey	280-101	100	grey	281-101	100
blue	279-104	100	blue	280-104	100	blue	281-104	100
2-conductor ground (earth) terminal block			2-conductor ground (earth) terminal block			2-conductor ground (earth) terminal block		
			green-yellow	280-107	100	green-yellow	281-107	100
End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 3 mm/0.118 in thick		
	orange 280-302	100 (4 x 25)		orange 280-302	100 (4 x 25)		orange 281-302	100 (4 x 25)
	grey 280-301	100 (4 x 25)		grey 280-301	100 (4 x 25)		grey 281-301	100 (4 x 25)
Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick		
	orange 280-322	100 (4 x 25)		orange 280-322	100 (4 x 25)		orange 281-322	100 (4 x 25)
	grey 280-332	100 (4 x 25)		grey 280-332	100 (4 x 25)		grey 281-332	100 (4 x 25)
Accessories, Series 279	appropriate marking system WMB/WSB		Accessories, Series 280	appropriate marking system WMB/WSB		Accessories, Series 281	appropriate marking system WMB/WSB	
Adjacent jumper, insulated, I_N 15 A			Adjacent jumper, insulated, I_N 24 A			Adjacent jumper, insulated, I_N 32 A		
	grey 279-402	200 (8 x 25)		grey 280-402	200 (8 x 25)		grey 281-402	200 (8 x 25)
	yell.-green 279-422	200 (8 x 25)		yell.-green 280-422	200 (8 x 25)		yell.-green 281-422	200 (8 x 25)
Alternate jumper, insulated, I_N 15 A			Alternate jumper, insulated, I_N 24 A			Alternate jumper, insulated, I_N 32 A		
	grey 279-409	100 (4 x 25)		grey 280-409	100 (4 x 25)		grey 281-409	100 (4 x 25)
Staggered jumper, insulated, I_N 24 A			Staggered jumper, insulated, I_N 24 A			Staggered jumper, insulated, I_N 32 A		
	width 5 mm/0.197 in			width 6 mm/0.236 in			width 6 mm/0.236 in	
	from 1 to 2 780-452	100 (4 x 25)		from 1 to 2 781-452	100 (4 x 25)		from 1 to 2 781-452	100 (4 x 25)
	from 1 to 3 780-453	100 (4 x 25)		from 1 to 3 781-453	100 (4 x 25)		from 1 to 3 781-453	100 (4 x 25)
	from 1 to 4 780-454	100 (4 x 25)		from 1 to 4 781-454	100 (4 x 25)		from 1 to 4 781-454	100 (4 x 25)
	from 1 to 5 780-455	50 (2 x 25)		from 1 to 5 781-455	50 (2 x 25)		from 1 to 5 781-455	50 (2 x 25)
	:	:		:	:		from 1 to 6 781-456	50 (2 x 25)
	from 1 to 8 780-458	50 (2 x 25)		from 1 to 8 780-458	50 (2 x 25)			
Test plug adapter, for terminal blocks 1.5 - 10 mm²			Test plug adapter, for terminal blocks 1.5 - 10 mm²			Test plug adapter, for terminal blocks 1.5 - 10 mm²		
	8 mm/0.315 in wide			8 mm/0.315 in wide			8 mm/0.315 in wide	
	209-170	50 (2 x 25)		209-170	50 (2 x 25)		209-170	50 (2 x 25)
	for test plug 4 mm/0.157 in Ø			for test plug 4 mm/0.157 in Ø			for test plug 4 mm/0.157 in Ø	
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 (4 x 25)		yellow 280-405	100 (4 x 25)		yellow 281-405	100 (4 x 25)
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
Screwdriver, with partially insulated shaft (3.5 x 0.5) mm			 Suitable for Ex i applications			Screwdriver, with partially insulated shaft (3.5 x 0.5) mm		
	210-620	1						210-620

* You can find approvals on the Internet at www.wago.com.
 **AWG 12: THHN, THWN

Technical explanations and abbreviations see page 10.2.

<p>0.2 – 6 mm² 800 V/8 kV/3 41 A</p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p> <p>AWG 24 – 10 600 V, 30 A 600 V, 40 A</p>	<p>0.2 – 10 mm² 800 V/8 kV/3 57 A</p> <p>Terminal block width 10 mm / 0.394 in 12 – 13 mm / 0.49 in</p> <p>AWG 24 – 8 600 V, 50 A 600 V, 65 A</p>	<p>0.2 – 16 mm² 800 V/8 kV/3 76 A</p> <p>Terminal block width 12 mm / 0.472 in 16 – 17 mm / 0.65 in</p> <p>AWG 24 – 6 600 V, 65 A 600 V, 90 A</p>
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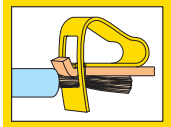


Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
2-conductor through terminal blocks			2-conductor through terminal blocks			2-conductor through terminal blocks		
grey	282-101	50	grey	284-101	50	grey	283-101	50
blue	282-104	50	blue	284-104	50	blue	283-104	50
2-conductor ground (earth) terminal block			2-conductor ground (earth) terminal block			2-conductor ground (earth) terminal block		
green-yellow	282-107	50	green-yellow	284-107	50	green-yellow	283-107	50
End and intermediate plate, 4 mm/0.157 in thick			End and intermediate plate, 2.5 mm/0.098 in thick			End and intermediate plate, 4 mm/0.157 in thick		
orange	282-302	100 (4 x 25)	orange	284-302	100 (4 x 25)	orange	283-302	100 (4 x 25)
grey	282-301	100 (4 x 25)	grey	284-301	100 (4 x 25)	grey	283-301	100 (4 x 25)
Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick			Separator plate, oversized, 2 mm/0.079 in thick		
orange	282-322	100 (4 x 25)	orange	284-322	100 (4 x 25)	orange	283-322	100 (4 x 25)
grey	282-332	100 (4 x 25)	grey	284-332	100 (4 x 25)	grey	283-332	100 (4 x 25)
Accessories, Series 282, appropriate marking system WMB/WSB			Accessories, Series 284, appropriate marking system WMB/WSB			Accessories, Series 283, appropriate marking system WMB/WSB		
Adjacent jumper, insulated, I_N 41 A			Adjacent jumper, insulated, I_N 57 A			Adjacent jumper, insulated, I_N 70 A		
grey	282-402	100 (4 x 25)	grey	284-402	100 (4 x 25)	grey	283-402	50 (2 x 25)
yell.-green	282-422	100 (4 x 25)	yell.-green	284-422	100 (4 x 25)	yell.-green	283-422	50 (2 x 25)
Alternate jumper, insulated, I_N 41 A			Alternate jumper, insulated, I_N 57 A			Alternate jumper, insulated, I_N 76 A		
grey	282-409	100 (4 x 25)	grey	284-409	100 (4 x 25)	grey	283-409	50 (2 x 25)
Test plug adapter, for terminal blocks 1.5 - 10 mm²			Test plug adapter, for terminal blocks 1.5 - 10 mm²			Test plug adapter, for terminal blocks 1.5 - 16 mm²		
	209-170	50 (2 x 25)		209-170	50 (2 x 25)		283-404	25
8 mm/0.315 in wide			8 mm/0.315 in wide			11.6/0.457 in wide		
for test plug 4 mm/0.157 in Ø			for test plug 4 mm/0.157 in Ø			for test plug 4 mm/0.157 in Ø		
Step-down jumper, insulated, I_N 15 A			Step-down jumper, insulated, I_N 30 A			Step-down jumper, insulated, I_N 32 A		
	284-414	50 (2 x 25)		284-413	50 (2 x 25)		283-414	50 (2 x 25)
10/6 mm ² /AWG 8/10 to 4/2.5/1.5 mm ² /AWG 12/14/16			10/6 mm ² /AWG 8/10 to 6/4 mm ² /AWG 10/12			16 mm ² /AWG 6 to 4 mm ² /AWG 12		
Protective warning marker, with high voltage symbol, for 5 terminal blocks			Protective warning marker, with high voltage symbol, for 5 terminal block			Protective warning marker, with high voltage symbol, for 5 terminal block		
	282-405	100 (4 x 25)		284-405	50 (2 x 25)		283-405	50 (2 x 25)
yellow			yellow			yellow		
Operating tool, for side-entry rail-mounted terminal blocks			Operating tool, for side-entry rail-mounted terminal blocks			Operating tool, for side-entry rail-mounted terminal blocks		
	210-141	1		210-141	1		210-141	1
Screwdriver, with partially insulated shaft (5.5 x 0.8) mm			<div style="border: 1px solid black; padding: 5px;"> <p>1 Suitable for Ex i applications</p> </div>			Banana plugs, only for protective extra-low voltage (42 V),		
	210-621	1				black 215-311 50		
						red 215-212 50		
						blue 215-711 50		
						other colors and technical data see page 9.5		

* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

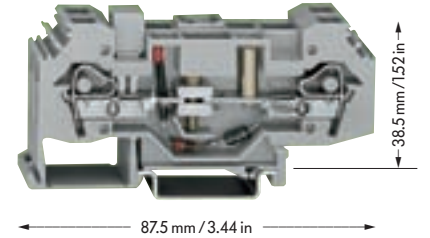
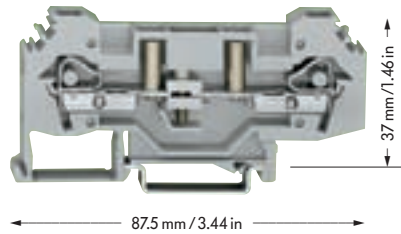
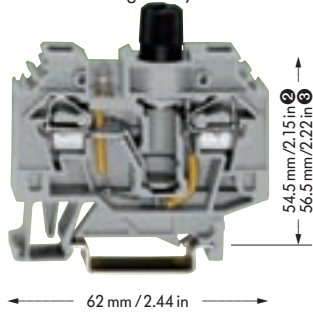
Fuse, Disconnect and Ground (Earth) Conductor Terminal Blocks, Series 282, Side-Entry



<p>0.2 – 6 mm² 220 V ≈ ① 10 A max. ①</p> <p>Terminal block width 13 mm / 0.512 in 12 – 13 mm / 0.49 in</p> <p>* </p>	<p>AWG 24 – 10 600 V, 10 A ① </p> <p>220 V, 10 A ① </p>	<p>0.2 – 6 mm² 400 V/6 kV/3 41 A</p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p> <p>* </p>	<p>AWG 24 – 10 300 V, 30 A </p> <p>300 V, 40 A </p>	<p>0.2 – 6 mm² AWG 24 – 10</p> <p>Terminal block width 16 mm / 0.63 in 12 – 13 mm / 0.49 in</p> <p>* </p>
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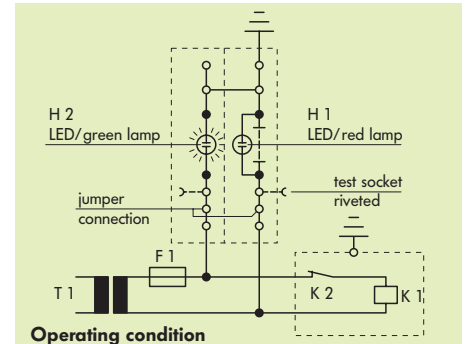
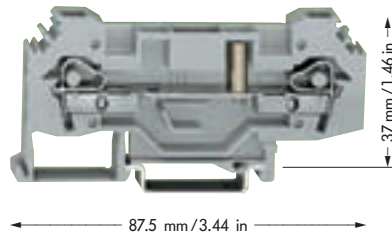
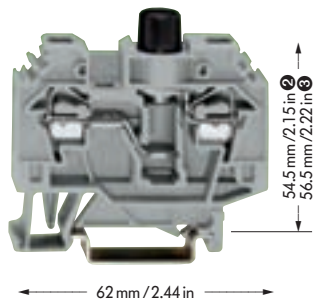
① The electrical data are given by the fuse.

Ground (earth) disconnect terminal blocks with front-entry see page 4.25.

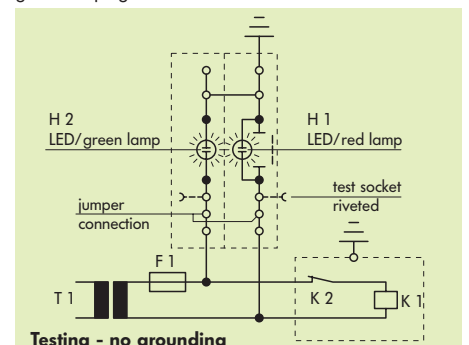


Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Fuse terminal blocks, grey,		Disconnect terminal block for test purposes,		
with neon lamp AC 250 V / DC 220 V		with test sockets 4 mm / 0.157 in Ø		
f. cartridges 5 x 20 mm 282-124 ②	40	grey	282-131	25
f. cartridges 1/4" x 1 1/4" 282-128/281-417 ③	40	Disconnect terminal block for test purposes,		
with neon lamp AC/DC 120 V		without test sockets		
f. cartridges 1/4" x 1 1/4" 282-128/281-418 ③	40	grey	282-135	25
with LED DC 24 V				
f. cartridges 1/4" x 1 1/4" 282-128/281-413 ③	40			

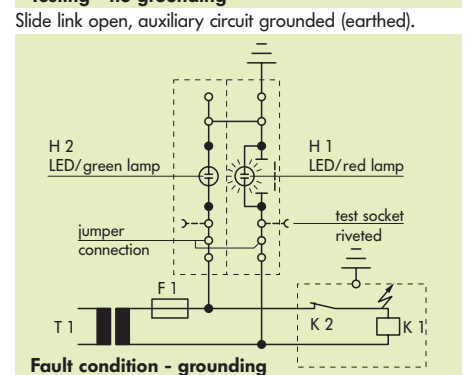
Item No.	Pack.-unit pcs
Ground (earth) cond. disconnect term. blocks, grey	
f. AC/DC 24 V 282-140	12
f. AC/DC 48 V 282-141	12
f. AC/DC 120 V 282-138	12
f. AC/DC 230 V 282-139	12



Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Fuse terminal blocks, grey,		Through terminal block,		
without indicator 500 V / 6 kV / 3 max.		grey		
f. cartridges 5 x 20 mm 282-122 ②	40		282-133	25
f. cartridges 1/4" x 1" 282-120 ③	40			
f. cartridges 1/4" x 1 1/4" 282-128 ③	40			



Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
End and intermediate plate, 4 mm / 0.157 in thick		End and intermediate plate, 4 mm / 0.157 in thick		
orange 282-312	50 (2 x 25)	orange 282-315	50 (2 x 25)	
grey 282-311	50 (2 x 25)	grey 282-314	50 (2 x 25)	



Accessories, Series 282		appropriate marking system WMB/WSB	
Miniature fuses, without indicator,	200 (20x10)	Adjacent jumper, insulated, I_N 41 A	
5 x 20 mm 282-451	6,3 A	grey 282-402	100 (4 x 25)
1/4" x 1" 282-458	10 A		
1/4" x 1 1/4" 282-457	10 A	Alternate jumper, insulated, I_N 41 A	
Test plug adapter, for terminal blocks 1.5 - 10 mm²		grey 282-409	100 (4 x 25)
8 mm / 0.315 in wide			
209-170	50 (2 x 25)	Lock-out, snap-in type,	
for test plug 4 mm / 0.157 in Ø		orange	
Test plug, 6 mm / 0.236 in wide, with CAGE CLAMP®		to prevent reclosing of slide link	
for 0.08 - 2.5 mm ² / AWG 28-14		orange 282-137	100 (4 x 25)
I_N 24 A			
281-407	100 (4 x 25)		

Modular Terminal Blocks and Terminal Strips with CAGE CLAMP®, Series 260 to 262, Side-Entry

Assembly



Assembly of modular terminal blocks to terminal strips



Mounting of an end plate

Fixing



Terminal strip with fixing flange, screw fixing

CAGE CLAMP® connection



Connection of conductors



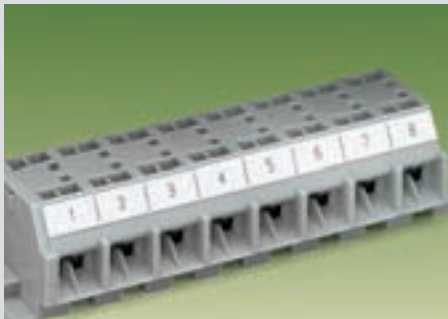
Connection of conductors, with push buttons

Fixing



Terminal strip with fixing flange, screw fixing of mounting adapter 209-123

Marking

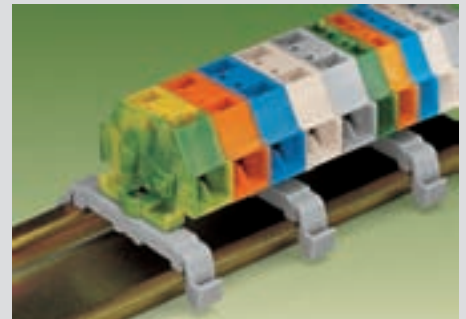


Marking with self-adhesive marker strips



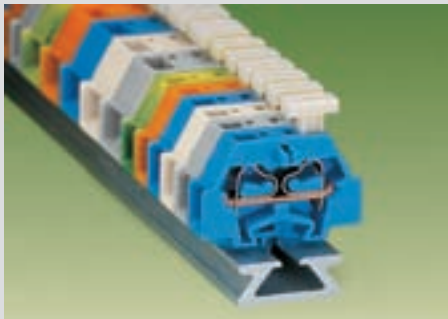
Marking by direct printing (on request)

Fixing

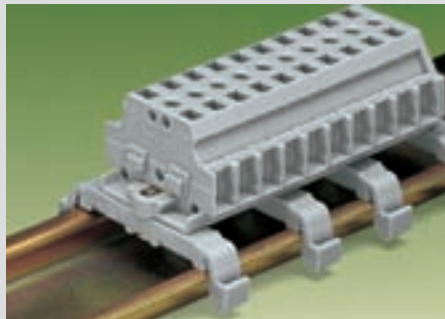


Terminal strip with fixing flange, on DIN 35 rail

Types



Terminal strip with push buttons on one side



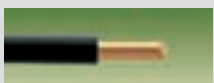
Terminal strip with marker receptacle for miniature WSB Quick marking system

Commoning

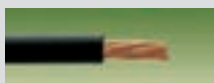


Commoning with jumper bar

CAGE CLAMP® clamps the following copper wires:



solid



stranded



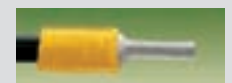
fine-stranded



tip-bonded



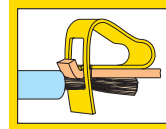
with crimped ferrule*



with crimped pin terminal

*When using wires with ferrules, it is necessary to use a terminal block one size larger than the nominal cross section of the wire

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



<p>0.08 – 1.5 mm² 400 V/6 kV/3 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</p> <p>AWG 28 – 16 300 V, 10 A 300 V, 15 A</p> <p>* VDE KCC CCA N S P GL BV LR NV</p>	<p>0.08 – 2.5 mm² 500 V/6 kV/3 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</p> <p>AWG 28 – 14 300/600 V, 15/5 A 300/600 V, 20/5 A</p> <p>* VDE KCC CCA N S P GL BV LR NV</p>	<p>0.08 – 4 mm² 630 V/8 kV/3 24 A 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</p> <p>AWG 28 – 12 300/600 V, 20/5 A 300/600 V, 20/5 A</p> <p>* VDE KCC CCA N S P GL BV LR NV</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



25 mm / 0.98 in



28 mm / 1.1 in



33.4 mm / 1.32 in

Colour	Item No. 2-cond.	Item No. 4-cond.	Pack.-unit pcs	Colour	Item No. 2-cond.	Item No. 4-cond.	Pack.-unit pcs	Colour	Item No. 2-cond.	Item No. 4-cond.	Pack.-unit pcs
grey	260-301	260-331	300 (6 x 50)	grey	261-301	261-331	200 (4 x 50)	grey	262-301	262-331	100 (2 x 50)
light grey	260-303	260-333	300 (6 x 50)	light grey	261-303	261-333	200 (4 x 50)	light grey Ex	262-130	262-230	100 (2 x 50)
blue	260-304	260-334	300 (6 x 50)	blue	261-304	261-334	200 (4 x 50)	blue	262-304	262-334	100 (2 x 50)
orange	260-306	260-336	300 (6 x 50)	orange	261-306	261-336	200 (4 x 50)	orange	262-306	262-336	100 (2 x 50)
green-yellow	260-307	260-337	300 (6 x 50)	green-yellow	261-307	261-337	200 (4 x 50)	green-yellow	262-307	262-337	100 (2 x 50)
Versions with push buttons see bottom right											



No. of poles	Item No. 2-cond.	Item No. 4-cond.	Pack.-unit pcs	No. of poles	Item No. 2-cond.	Item No. 4-cond.	Pack.-unit pcs	No. of poles	Item No. 2-cond.	Item No. 4-cond.	Pack.-unit pcs
Terminal strips with fixing flange, grey											
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, Series 260/261/262

appropriate marking system see section 9

<p>End plate with fixing flange, grey for series 260 260-361 100 (2 x 50) for series 261 261-361 100 (2 x 50) for series 262 262-361 50</p>	<p>Mounting adapter with screw, 6 mm/0.236 in wide, for terminal blocks with fixing flange, for DIN 35 rail, grey 209-123 25</p>	<p>Additional item numbers for terminal blocks and terminal strips with fixing flanges, for series 261 only with push buttons on one side 2-cond. 261-.../331-000 4-cond. 261-.../332-000</p>
<p>Comb type jumper bar, insulated, 2-way series I_N reduce wire to Pack.-unit 260-402 10 A 1 mm²/AWG 18 25 pcs 261-402 16 A 1.5 mm²/AWG 16 25 pcs 262-402 16 A 2.5 mm²/AWG 14 25 pcs</p>	<p>Test plug modules 100 (4 x 25) locking device series module width with without 260 5 mm/0.197 in 260-404 249-135 8 mm/0.315 in 260-405 249-138 261 6 mm/0.236 in 261-404 249-136 10 mm/0.394 in 261-405 249-139 262 7 mm/0.276 in 249-137 12 mm/0.472 in 249-140</p>	<p>with push buttons on both sides 2-cond. 261-.../341-000 4-cond. 261-.../342-000</p>
<p>Operating tool, insulated, 2-way, for connecting the comb type jumper bar 209-132 1</p>	<p>① Suitable for Ex i applications Ex Suitable for Ex e II applications</p>	<p>Screwdriver, with partially insulated shaft (3.5 x 0.5) mm 210-620 1</p>

* You can find applications on the Internet at www.wago.com. Please find the entire product range in our General Catalogue W4, Volume 1.

Technical explanations and abbreviations see page 10.2.

Assembly



Assembly of modular terminal strips



Mounting of an "end terminal block" with fixing flange

Fixing



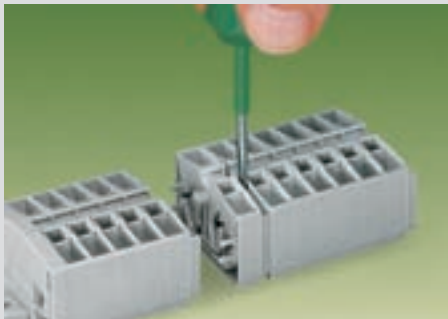
Terminal strip with fixing flange, screw fixing

CAGE CLAMP® connection

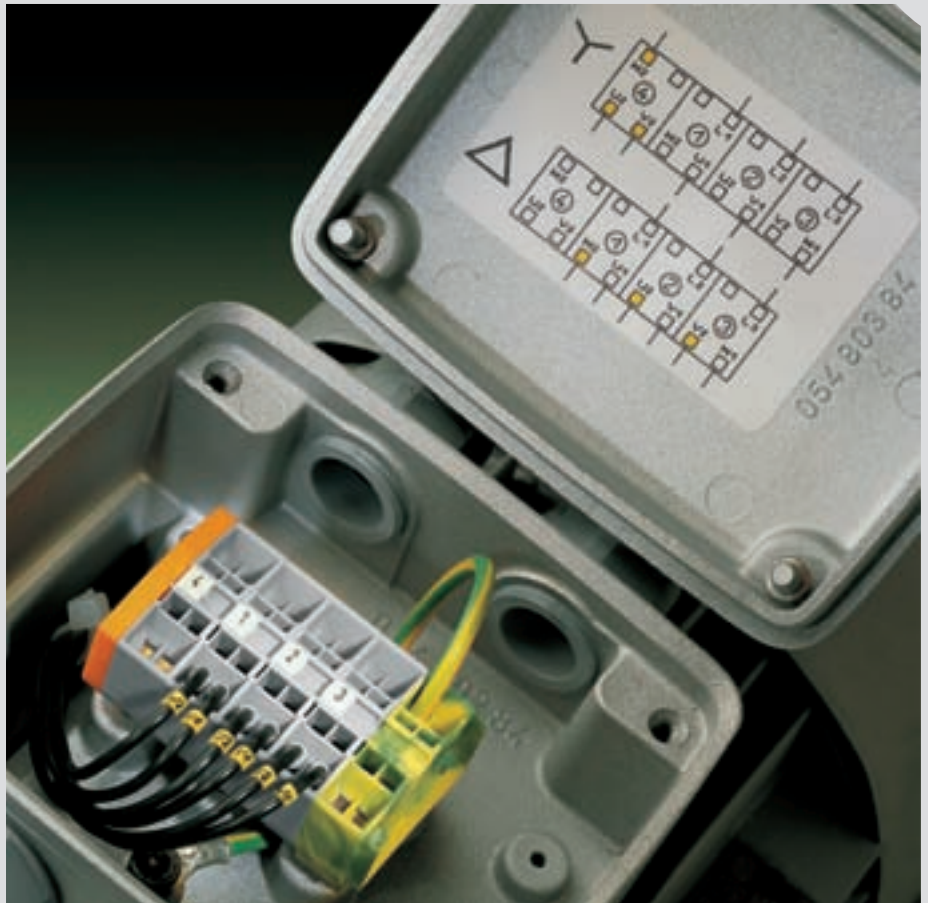


Connection of conductors

Removal



Removal of a terminal block

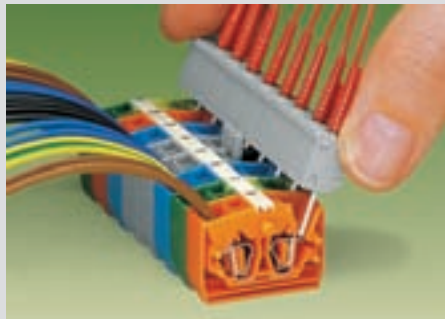


Commoning



Commoning with jumper bar

Testing



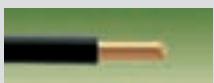
Testing with modular test plug adapters - touch contact

Marking

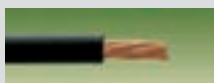


Marking with miniature WSB Quick marking system

CAGE CLAMP® clamps the following copper wires:



solid



stranded



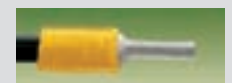
fine-stranded



tip-bonded



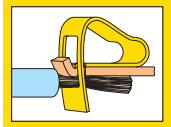
with crimped ferrule*



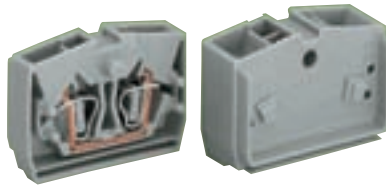
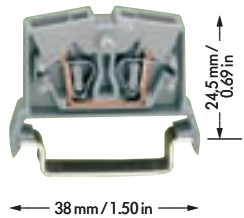
with crimped pin terminal

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

Terminal Blocks for DIN 35 Rail, Modular Terminal Blocks and Terminal Strips with Fixing Flanges, Series 264



0.08 – 2.5 mm² 800 V/8 kV/3 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 *	AWG 28 – 12** 600 V, 20 A 600 V, 20 A	0.08 – 2.5 mm² 800 V/8 kV/3 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 *	AWG 28 – 12** 600 V, 20 A 600 V, 25 A	0.08 – 2.5 mm² 800 V/8 kV/3 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 *	AWG 28 – 12** 600 V, 20 A 600 V, 25 A
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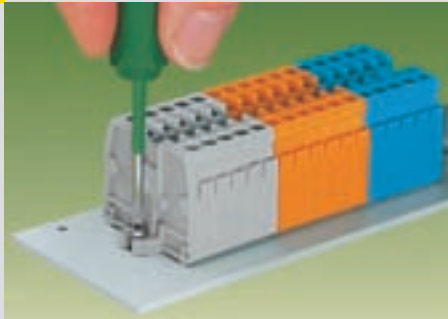
Colour	Item No. 2-cond.	Item No. 4-cond.	Pack.-unit pcs	Colour	Item No. 2-cond.	Item No. 4-cond.	Pack.-unit pcs	No. of poles	Item No. 2-cond.	Item No. 4-cond.	Pack.-unit pcs						
Through terminal blocks, for DIN 35 rail				Center terminal blocks				Terminal strips with fixing flanges, grey									
grey	264-711	264-731	100	grey	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 grey	264-125	264-225	100	green-yellow	264-327	264-357	100	:	:	:	:						
				light grey	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 blocks with fixing flange				Terminal strips with snap-in mounting feet, grey									
				grey	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 grey	264-130	264-230	100	10	264-160	264-260	25						
								11	264-161	264-261	25						
								12	264-162	264-262	25						
				Terminal blocks with snap-in mounting foot				Assemblies of different colours upon request									
				grey	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 grey	264-180	264-280	100										
4-conductor ground (earth) terminal block, for DIN 35 rail																	
				green-yellow	264-737		100										
				green-yellow	264-737/999-950		100										
End plate for DIN 35 rail,				End plate with fixing flange,				End plate, for terminal blocks with snap-in mounting									
Accessories, Series 264																	
Comb type jumper bar, insulated, I_N16 A, 2-way 264-402 200 (8 x 25) reduces wire to 1.5 mm ² /AWG 16 max.						Operating tool, insulated, 2-way for comb type jumper bar 280-432 1						Test plug modules 6 mm/0.236 in wide 249-136 100 (4 x 25) 10 mm/0.394 in wide 249-139 100 (4 x 25)					
Alternate comb type jumper bar, insulated, I _N = I _N of terminal block for 2-conductor terminal blocks 280-492 200 (8 x 25) for 4-conductor terminal blocks 281-492 100 (4 x 25)						Aluminium carrier rail, 1000 x 18 x 7 mm 3'3" x 0.709 x 0.276 in 210-154 1 f. version w. mounting feet						Test plug, with cable 500 mm/1'77" 2 mm Ø, red 210-136 50 2.3 mm Ø, yellow 210-137 50					
Separator for Ex e/Ex i applications, 66 mm/2.598 in wide 4 mm/0.157 in thick orange 264-367 25						Plastic end stop, with WSB marking facility, 6 mm/0.236 in wide, for aluminium rail 210-154 grey 209-122 1						Screwdriver, with partially insulated shaft (3.5 x 0.5) mm 210-620 1					
DIN 35 rails and end stops see chapter 9																	

* You can find applications on the Internet at www.wago.com.
 **AWG 12: THHN, THWN

Technical explanations and abbreviations see page 10.2.
 Please find the entire product range in our General Catalogue W4, Volume 1.

Compact Block Terminal Strips with CAGE CLAMP® COMPACT Connection Description and Handling – Series 869

Fixing



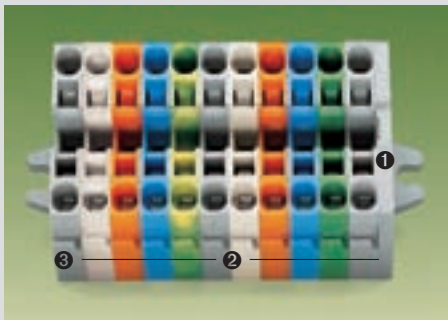
Terminal strip with fixing flange, screw fixing



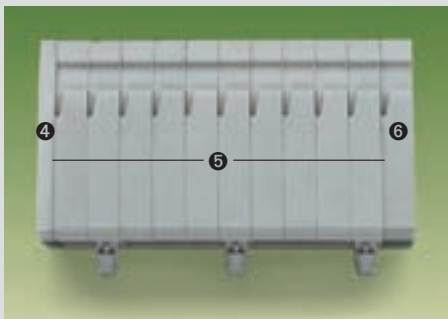
Terminal strip with snap-in mounting feet, fixing in holes



Terminal strip with snap-in mounting feet, assembly onto special aluminium rail



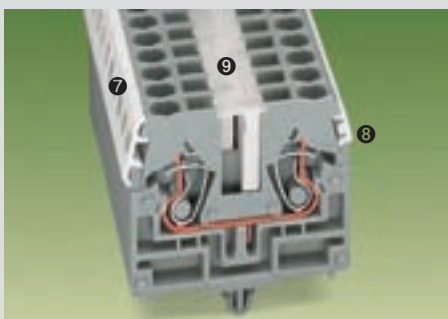
Terminal strip with fixing flanges, consisting of:
end plate with fixing flange ①
center terminal blocks ②
end terminal blocks with fixing flange ③



Terminal strip with mounting feet, consisting of:
end plate ④ center terminal blocks with/without snap-in mounting feet ⑤
end terminal block with/without snap-in mounting feet ⑥

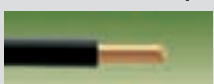


Marking

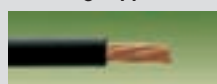


⑦ WAGO WMB Multi marking system,
⑧ WAGO miniature WSB Quick marking system or
⑨ WAGO marker strips

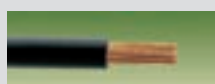
CAGE CLAMP® clamps the following copper wires:



solid



stranded



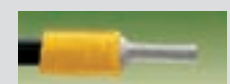
fine-stranded



tip-bonded

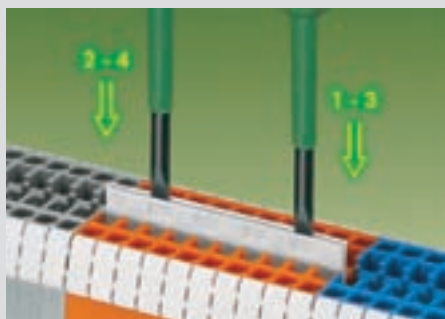


with crimped ferrule*



with crimped pin terminal

Push-in type jumper system



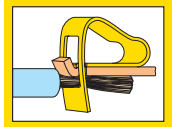
Push jumper bars down firmly until fully inserted!
When using multi-pole bars, push alternately on right and then left side, successively until installed



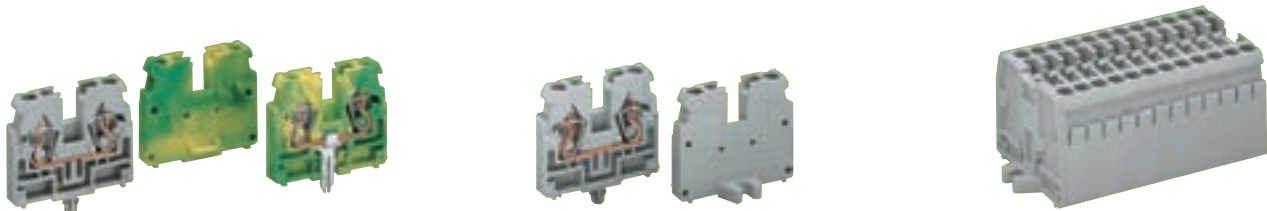
Terminal strips assembled by means of assembly device
Item no. for the device 298-635

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

Modular Terminal Blocks and Compact Block Terminal Strips, Series 869



<p>0.08 – 2.5 mm²/4 mm² f-st^{**} AWG 28 – 12 500 V/6 kV/3 300 V, 10 A** 24 A 300 V, 25 A**</p> <p>Terminal block width 5 mm / 0.197 in 6 – 7 mm / 0.26 in</p> <p>* CCA NV</p>	<p>0.08 – 2.5 mm²/4 mm² f-st^{**} AWG 28 – 12 500 V/6 kV/3 300 V, 10 A** 24 A 300 V, 25 A**</p> <p>Terminal block width 5 mm / 0.197 in 6 – 7 mm / 0.26 in</p> <p>* CCA NV</p>	<p>0.08 – 2.5 mm²/4 mm² f-st^{**} AWG 28 – 12 500 V/6 kV/3 300 V, 10 A** 24 A 300 V, 25 A**</p> <p>Terminal block width 5 mm / 0.197 in 6 – 7 mm / 0.26 in</p> <p>* CCA NV</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

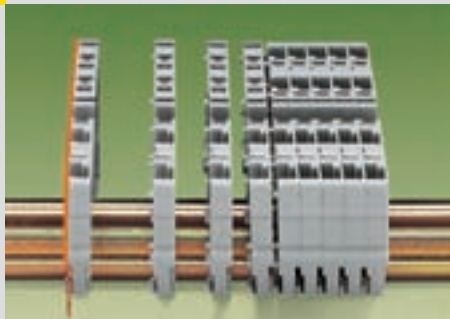


Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	No. of poles	Item No.	Item No.	Pack.-unit pcs
Center terminal blocks			End terminal blocks with snap-in mounting foot			Terminal strips with fixing flanges M3,			
grey	869-321	100	grey	869-331	100		grey	light grey	
blue	869-324	100	blue	869-334	100	2	869-102	869-132	100
orange	869-326	100	green-yellow	869-337	100	3	869-103	869-133	100
green-yellow	869-327	100	light grey	869-339	100	4	869-104	869-134	100
light grey	869-329	100				:	:	:	
Center terminal blocks with snap-in mounting foot			End terminal blocks without snap-in mounting foot			10	869-110	869-140	25
grey	869-311	100	grey	869-341	100	11	869-111	869-141	25
blue	869-314	100	blue	869-344	100	12 ②	869-112	869-142	25
orange	869-316	100	green-yellow	869-347	100	Terminal strips with fixing flanges M4,			
green-yellow	869-317	100	light grey	869-349	100	2	869-202	869-232	100
light grey	869-319	100				3	869-203	869-233	100
Center terminal blocks with automatic push-connect ground (earth) contact,			End terminal blocks with fixing flange M3,			4	869-204	869-234	100
diameter of drilled hole: 3.5 ^{+0.1} mm, terminal blocks cannot be commoned!			3.2 mm ∅			:	:	:	
green-yellow	869-328	100	grey	869-301	100	10	869-210	869-240	25
End plate, for terminal blocks with snap-in mounting foot			grey			11	869-211	869-241	25
2.5 mm/0.098 in thick			blue			12 ②	869-212	869-242	25
grey 869-375 100 (4 x 25)			green-yellow			Terminal strips with snap-in mounting feet,			
blue 869-378 100 (4 x 25)			light grey			2	869-152	869-182	100
green-yell. 869-379 100 (4 x 25)			End terminal blocks with fixing flange M4,			3	869-153	869-183	100
light grey 869-377 100 (4 x 25)			4.2 mm ∅			4	869-154	869-184	100
			grey 869-351			:	:	:	
			blue 869-354			10	869-160	869-190	25
			green-yellow 869-357			11	869-161	869-191	25
			light grey 869-359			12 ②	869-162	869-192	25
			grey 869-385			② For longer strips and/or assemblies of different colours contact factory			
			blue 869-388			End plate with fixing flange M3,			
			green-yell. 869-389			2.5 mm/0.098 in thick			
			light grey 869-387			grey 869-395 100 (4 x 25)			
						blue 869-398 100 (4 x 25)			
						green-yell. 869-399 100 (4 x 25)			
						light grey 869-397 100 (4 x 25)			

Accessories, Series 869			appropriate marking system WMB/Mini-WSB/marker strips			Aluminium carrier rail, 1000 x 18 x 7 mm,	
	2-way	870-402 200 (8 x 25)		5 pcs/strip	210-154 1	3"3" x 0.709 in x 0.276 in f. version w. mounting feet	
	3-way	870-403 200 (8 x 25)		200 strips			
	4-way	870-404 200 (8 x 25)		white	280-470 0.08 mm ² - 0.2 mm ²	Plastic end stop , with WSB marking facility, 6 mm/0.236 in wide, for aluminium rail 210-154 grey 209-122 1	
	:			light grey	280-471 0.25 mm ² - 0.5 mm ²		
10-way	870-410 100 (4 x 25)	dark grey	280-472 0.75 mm ² - 1 mm ²	Marker strip , transparent, 1000 x 7.5 mm/3"3" x 0.709 in for central marking - group marking - 709-196 10			
Push-in type jumper bar, insulated, I_N18 A, light grey							
1 to 3	870-433 200 (8 x 25)	<div style="border: 1px solid black; padding: 5px;"> </div>					
1 to 4	870-434 200 (8 x 25)						
1 to 5	870-435 100 (4 x 25)						
:							
1 to 10	870-440 100 (4 x 25)						

* You can find applications on the Internet at www.wago.com.
 ** 10 A for push-in type jumper bars with different potential, placed in parallel.
 Technical explanations and abbreviations see page 10.2.
 Please find the entire product range in our General Catalogue W4, Volume 1.

Assembly



Snap individual base receptacle terminal blocks onto carrier rail

Removal



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

CAGE CLAMP® connection



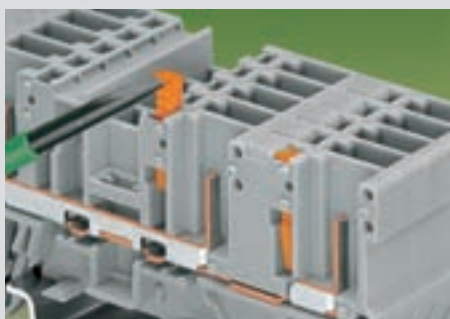
Receptacle terminal block: connection/removal of conductor with screwdriver (3.5 x 0.5 mm)

Coding

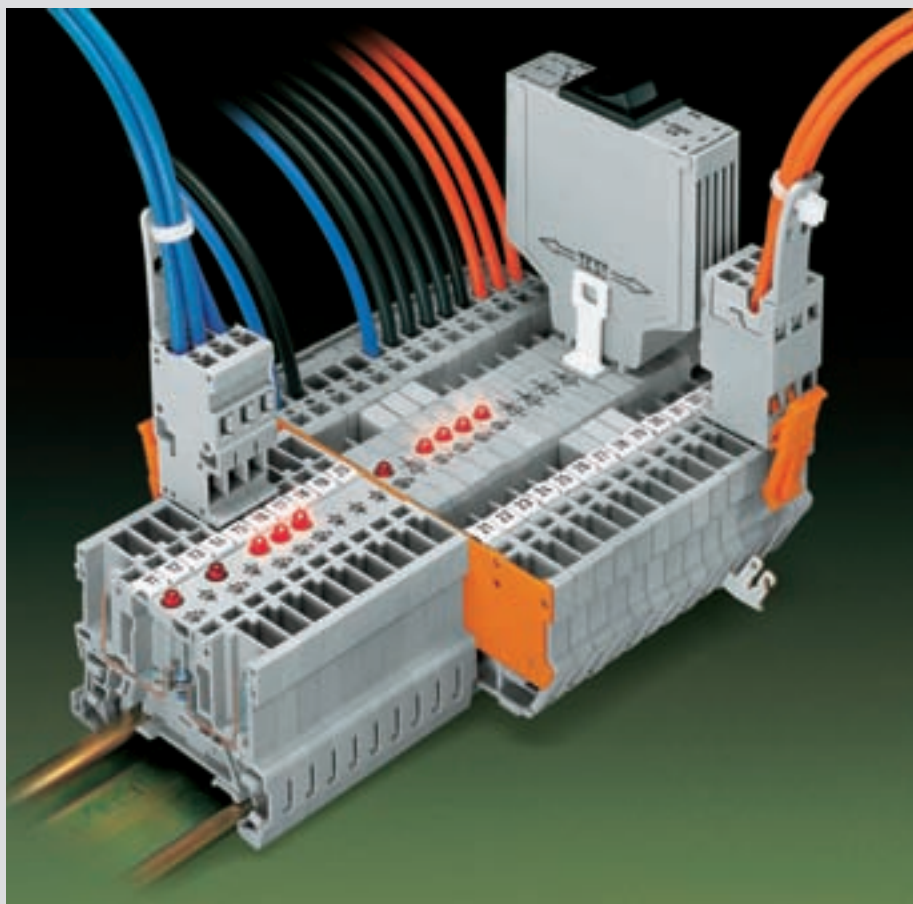


Coding a female plug - removal of coding finger(s). Do not break off the first and last latch position coding finger!

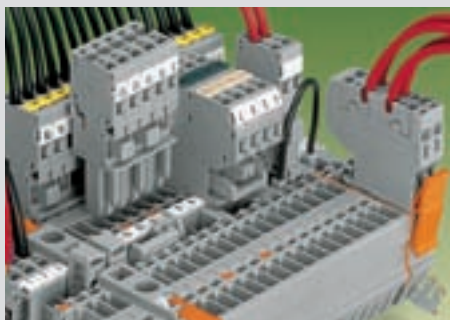
Coding



Snap coding pin in proper direction on receptacle terminal block. Removal of a coding pin from receptacle terminal block



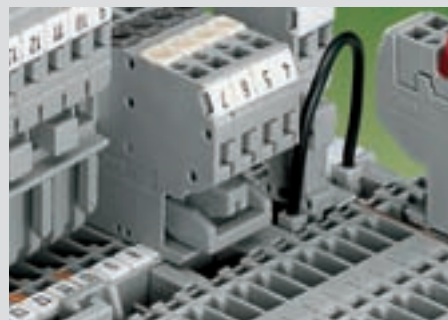
Commoning



Commoning with adjacent jumper or with staggered jumper. Push jumper down FIRMLY until FULLY inserted!



Commoning of receptacle terminal block with staggered jumper

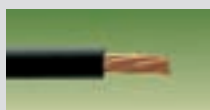


Commoning of 2-conductor female plug with staggered jumper and commoning of receptacle terminal block with adjacent jumper



CAGE CLAMP® clamps the following copper wires:

solid



stranded



fine-stranded, also with tinned single strands

... Description and Handling

Testing

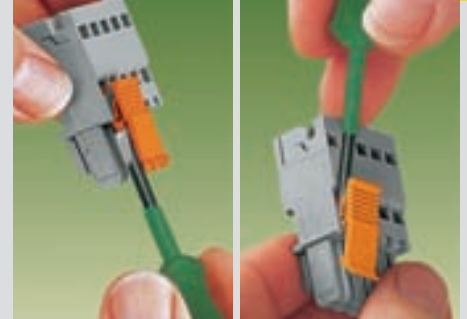


Female plug: connection/removal of conductor. Operation 90° to wire also possible



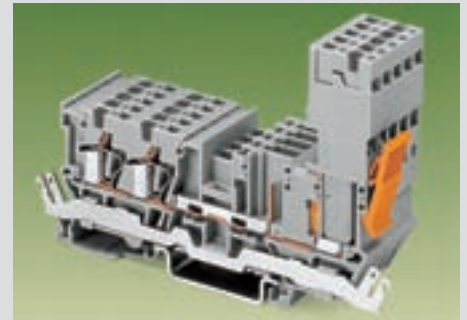
Testing with test plug Ø 2 mm (red) or Ø 2.3 mm (yellow)

Locking lever

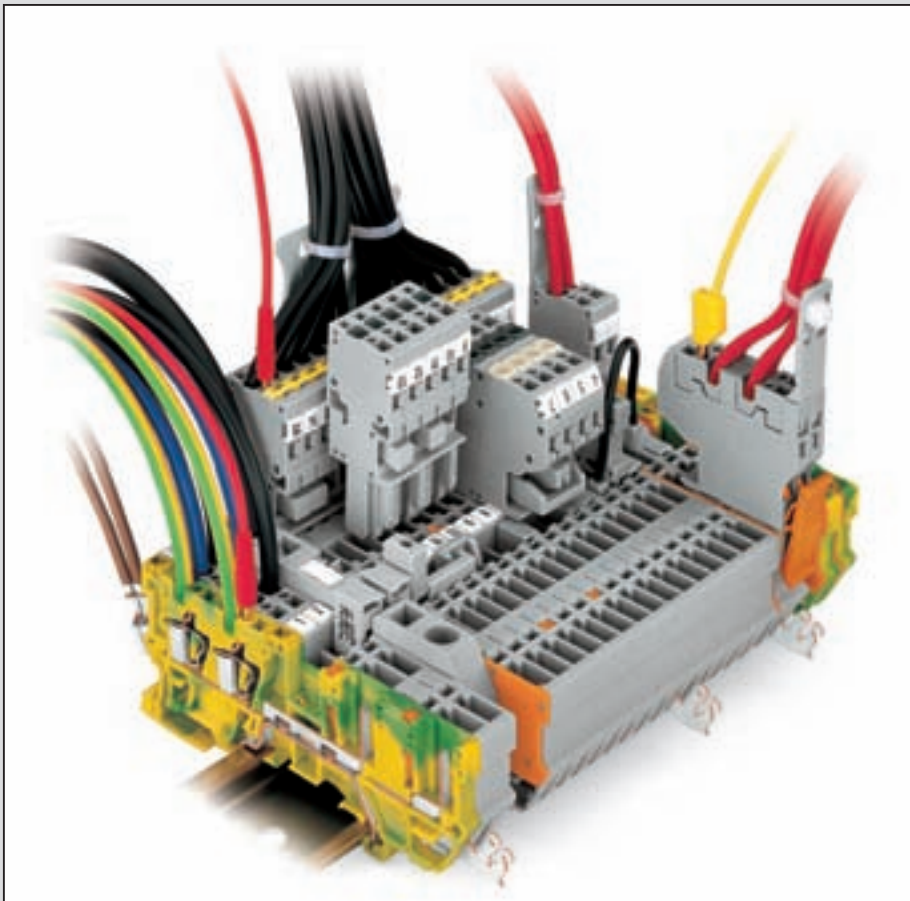


Snapping in/removal of locking lever

Locking lever



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



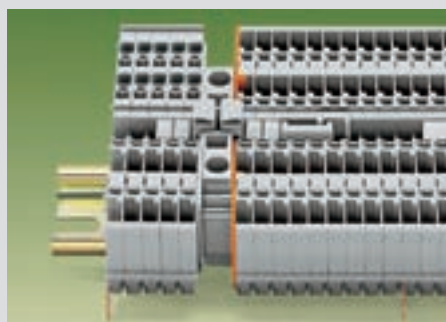
Strain relief



Removal of female plug, wires provided with strain relief plate



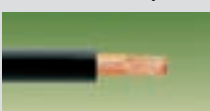
Commoning of receptacle terminal blocks with push-in type wire or adjacent jumpers, also over the intermediate plate



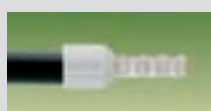
Step-down jumper used for commoning terminal blocks of different sizes



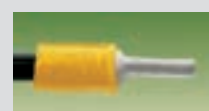
Commoning of 1-conductor female plugs with miniature adjacent jumper



fine-stranded, tip bonded



fine-stranded, with crimped ferrule ❶






fine-stranded, with crimped pin terminal

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

Technical data female plugs:

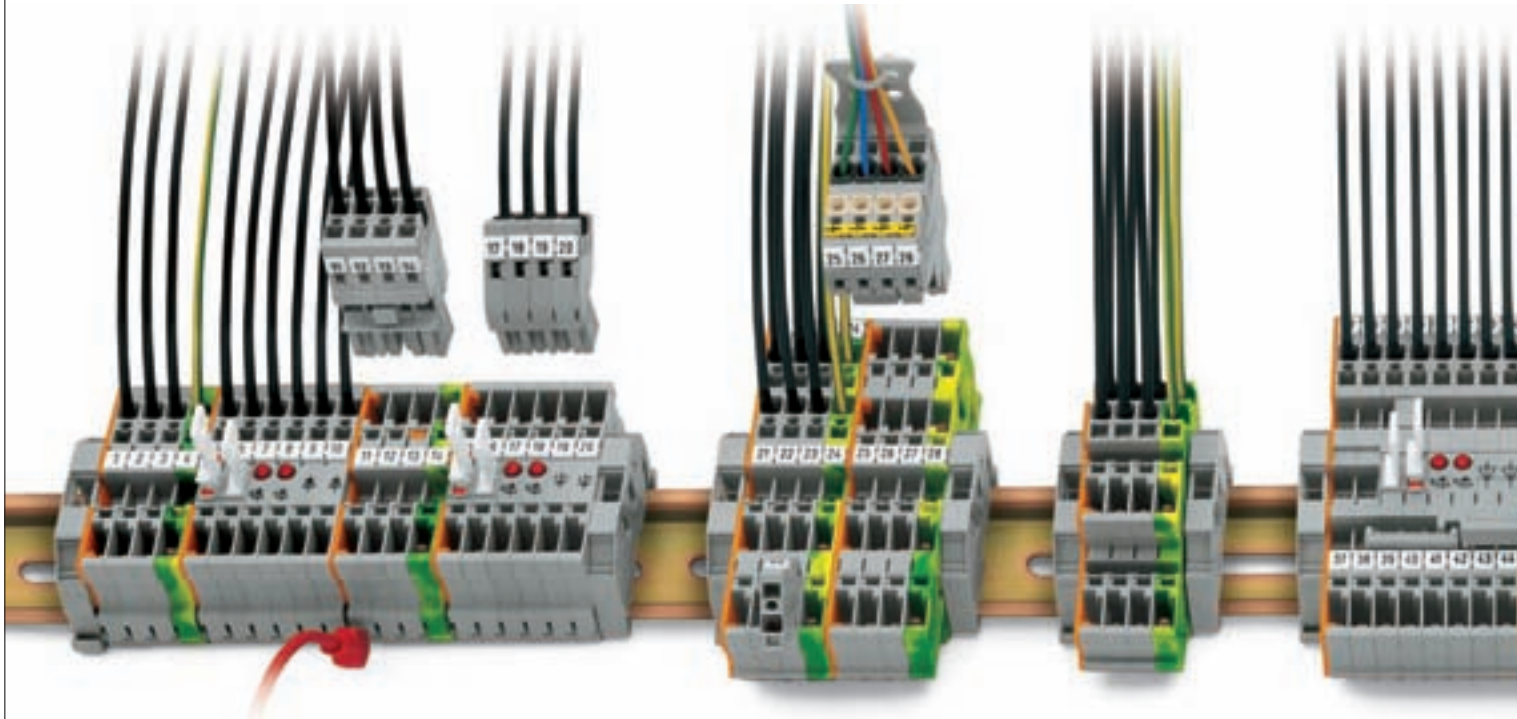
 0,08 – 4 mm²
 500 V/6 kV/3
 16 A

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

 Module width 5 mm / 0.197 in
 8 – 9 mm / 0.33 in

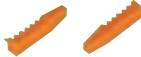





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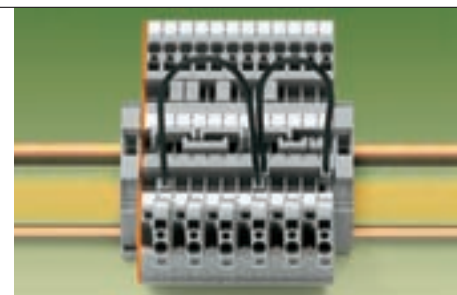
Female plug,	1-conductor,	1-conductor,	2-conductor,	Strain relief plate,
grey, with coding fingers	straight	angled	straight	grey
1-pole	769-101	769-101/022-000	769-121	1-pole 769-410
2-pole	769-102	769-102/022-000	769-122	2 to 3-pole 769-411
:	:	:	:	4 to 5-pole 769-412
14-pole	769-114	769-114/022-000	769-134	6 to 9-pole 769-413
15-pole	769-115	769-115/022-000	769-135	10 to 15-pole 769-414



	1-cond./1-pin	2-pin	2-cond./1-Pin	2-cond./2-Pin	4-Pin	Double deck	Terminal blocks with several
Receptacle terminal bl. grey	769-176	769-156	769-251	769-171	769-151	1-cond./1-pin 870-101	3 jumper pos. 2 jumper pos. 769-214
Receptacle term. bl. with shield (screen) contact grey	769-231	769-221					
Ground (earth) receptacle terminal block green-yellow	769-237	769-227	769-257	769-211 769-217	769-201 769-207	2-cond./2-pin 870-107	
Disconnect rec. term. bl. grey	769-232	769-222					769-212
Disconnect rec. term. bl. with shield contact grey	769-233	769-223					769-213
Diode rec. term. bl. grey							
Cathode right side	769-238/281-410	769-228/281-410					769-218/
Cathode left side	769-238/281-411	769-228/281-411					769-218/
LED rec. term. bl. grey							
Cathode right side	769-239/281-413	769-229/281-413					769-219/
Cathode left side	769-239/281-434	769-229/281-434					769-219/
End plate grey	769-307	769-305	769-320	769-301		870-118	769-315 769-311
End plate orange	769-308	769-306	769-321	769-302		870-119	769-316 769-312
Separator, oversized orange							769-314

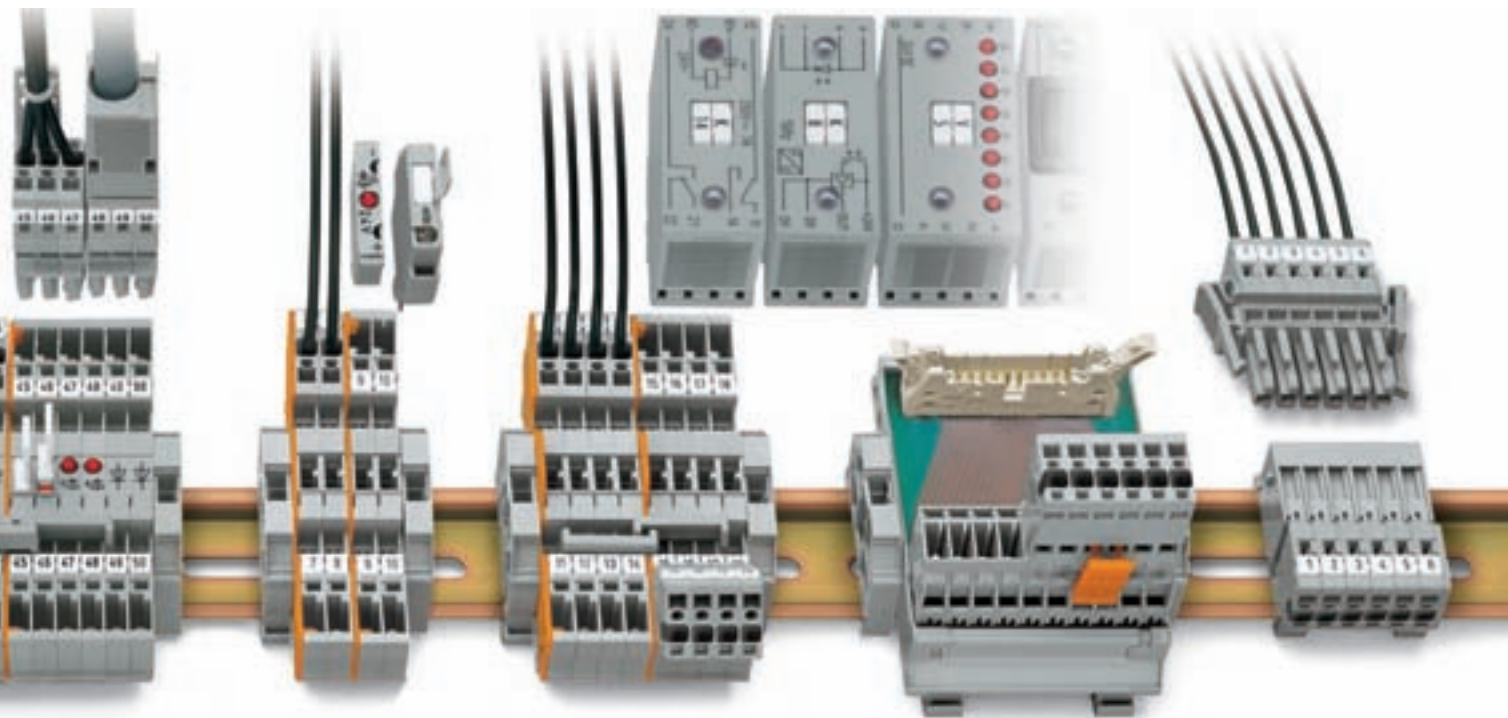
Accessories

Coding pins, for coding of female plugs  orange 769-435	Test plug, with cable 500 mm/17.7"  2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yellow 210-137
Insulation stop, 5 pcs/strip  white 0.08 – 0.2 mm ² 769-470 light grey 0.25 – 0.5 mm ² 769-471 dark grey 0.75 – 1 mm ² 769-472	Test plug adapter,  5 mm/0.197 in wide 280-404 for test plug 210-137
Protective warning marker, with high voltage symbol, for 5 terminal blocks  yellow 280-415	Screwless end stop  6 mm/0.236 in wide 249-116 10 mm/0.394 in wide 249-117





Technical data base receptacle terminal block:	0,08 – 4 mm ²	AWG 28 – 12	Module width 5 mm / 0.197 in 8 – 9 mm / 0.33 in
	500 V/6 kV/3 250 V/4 kV/3 16 A	300 V, 10 A 300 V, 20 A	

Strain relief housing, grey				Female plug with lateral locking lever
2-pole 769-1602				2-pole 769-102/021-000
3-pole 769-1603	Component plugs,	Electronic modules,		3-pole 769-103/021-000
:	e.g. fuse,	e.g. switching relay,		:
14-pole 769-1614	diode, LED,	optocoupler		14-pole 769-114/021-000
15-pole 769-1615	series 280 and 281	series 286, series 786		15-pole 769-115/021-000



Jumper positions		Receptacle term. block	Receptacle terminal blocks	Headers	Male connectors with
2 jumper pos.		for pluggable modules of series 280 + 281	for pluggable modules of series 286	with solder pins, grey	CAGE CLAMP® connection
1-pin	2-pin	1-conductor/1-pin	1-conductor/1-pin	solder pin straight	
		769-181	4 poles 769-182/769-314	2 poles 769-632 769-662	2 poles 769-602
			6 poles 769-183/769-314	3 poles 769-633 769-663	3 poles 769-603
			8 poles 769-184/769-314	4 poles 769-634 769-664	4 poles 769-604
			10 poles 769-185/769-314	5 poles 769-635 769-665	5 poles 769-605
				:	:
				8 poles 769-638 769-668	8 poles 769-608
				:	:
				15 poles 769-645 769-675	15 poles 769-615
281-410	769-208/281-410		6 poles 769-163/769-313		Add. item-No.
281-411	769-208/281-411		8 poles 769-164/769-313		for male connectors with snap-in mounting feet**
281-413	769-209/281-413		10 poles 769-165/769-313	for headers with solder pins and fixing flanges	...-.../001-000
281-434	769-209/281-434	1-cond./1-pin		...-.../003-000	or fixing flanges
		2-pin		or fixing flanges for feedthrough applications	...-.../002-000
		769-309		...-.../004-000	or snap-in flanges
		769-310			...-.../005-000
		769-312			** mounting adapter for DIN 35 rail 209-137
		769-313			

Jumper systems:		Miniature adjacent jumper, for 1-conductor female plugs	Operating tool for female plugs and male connectors with CAGE CLAMP® connection
Adjacent jumper, I _N 24 A	280-402	I _N 16 A	Pliers 210-490
Alternate jumper, I _N 24 A	280-409	grey	Operating lever, loose 769-434
Staggered jumper, I _N 24 A			Miniature WSB Quick marking system
1 to 2 780-452	1 to 5 780-455		(see section 9)
1 to 3 780-453	:		
1 to 4 780-454	1 to 8 780-458		
Push-in type wire jumpers, 9 A		1 pole 2 poles	WMB Multi marking system
L = 60 mm/2.362 in	249-125	grey 769-428 769-430	for double deck receptacle terminal blocks (see section 9)
L = 110 mm/4.331 in	249-126	orange 769-429 769-431	
L = 250 mm/9.842 in	249-127		
Push-in type jumper bars, for double deck receptacle terminal blocks, see page 4.41		Screwdriver, with partially insulated shaft	
			
		3.5 x 0.5 mm	
		210-620	

Please find the entire product range in our General Catalogue W4, Volume 1. More information at www.wago.com.

The universal basic module

Assembly



Assembly on the rail . . .
Bus coupler first!

Power jumper contacts on the field side



Safe, automatic connection by tinned, self-cleaning slide contact, ground (earth) contact makes first and breaks last

Data contacts



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



. . . secure connection with dovetails

Exchange within the assembly



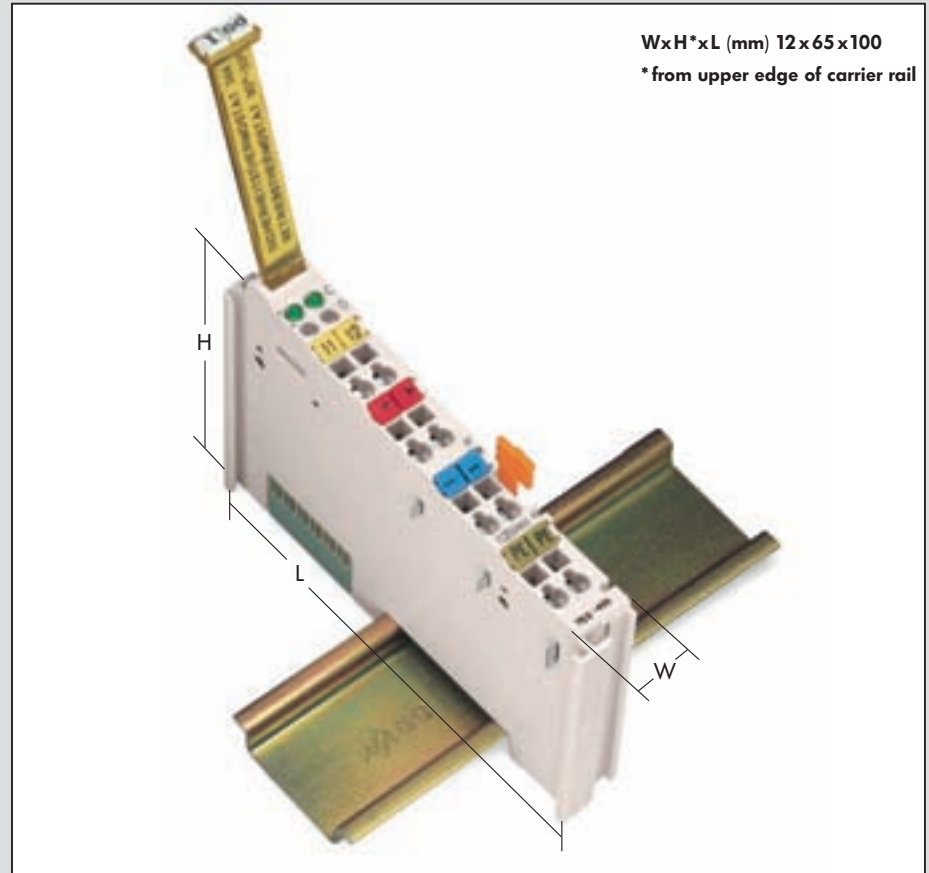
Quick exchange of an I/O module within the assembly – without tool

Locking the bus coupler



① locking

② releasing



WxH*xL (mm) 12x65x100
*from upper edge of carrier rail

Accessing the programming interface



Accessing the programming interface of the fieldbus coupler.
For WAGO-I/O-CHECK and WAGO-I/O-PRO

Don't forget the end module!



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

Obvious handling by colour coding



Moulded marking of clamping units



Marking of clamping units by colored miniature WSB markers



Group marking carrier (can be withdrawn and replaced) with large area for self marking



yellow – digital inputs
 red – digital outputs
 green – analogue inputs
 blue – analogue outputs
 colourless – supply and special function modules

Different functions marked by transparent coloured group marker carriers

CAGE CLAMP® connection



Vibration-proof, fast and maintenance-free wiring of 0.08 mm² - 2.5 mm² / AWG 28 - 14

Status indication



Diagnosis and status indication by LED for safe start-up and system control

Testing



Signal tracing with wired conductors

Fuse holder

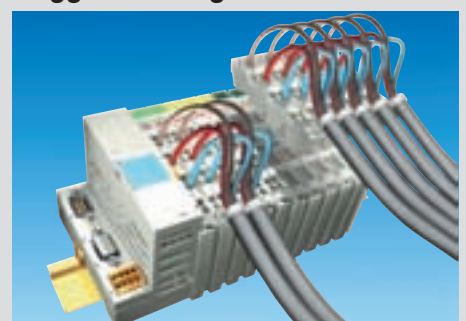


Function at locked position 1: Power output to I/O group is off



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

Pluggable wiring



See General Catalogue W4, Volume 3 or at www.wago.com

ECO Fieldbus Coupler, Fieldbus Coupler, Programmable Fieldbus Controller, Series 750

<p>ECO Fieldbus Coupler* for digital and analogue signals 0.08 mm² - 1.5 mm² / AWG 28 - 16 Voltage supply 24 V (-15%..+20%) Module width 50 mm 5 – 6 mm / 0.24 in</p>	<p>Fieldbus Coupler* for digital and analogue signals 0.08 mm² - 2.5 mm² / AWG 28 - 14 Voltage supply 24 V (-15%..+20%) Module width 51 mm 8 – 9 mm / 0.33 in</p>	<p>Programmable Fieldbus Controller* for digital and analogue signals 0.08 mm² - 2.5 mm² / AWG 28 - 14 Voltage supply 24 V (-15%..+20%) Module width 51 mm 8 – 9 mm / 0.33 in</p>
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Description	Baud rate	Item No.	Description	Baud rate	Item No.	Description	Baud rate	Item No.
PROFIBUS DP ECO	12 MBaud	750-343	PROFIBUS DP/FMS	12 MBaud	750-303	PROFIBUS DP/V1	12 MBaud	750-833
INTERBUS ECO	500 kBaud	750-344	PROFIBUS DP/V1	12 MBaud	750-333	INTERBUS	500 kBaud	750-804
INTERBUS ECO	2 MBaud	750-345	PROFIBUS	1.5 MBaud	750-331	ETHERNET TCP/IP	10 MBit/s	750-842
DeviceNet ECO	500 kBaud	750-346	with fibre optic connection			ETHERNET TCP/IP	10/100 MBit/s	750-841
CANopen ECO MSS	10 kBd - 1 MBd	750-347	INTERBUS	500 kBaud	750-304	DeviceNet	500 kBaud	750-806
CANopen ECO	10 kBd - 1 MBd	750-348	with fibre optic connection			CANopen	10 kBd - 1 MBd	750-837
			ETHERNET TCP/IP	10 MBit/s	750-342	MODBUS RS 485	150 - 19200 Bd	750-812
			ETHERNET TCP/IP	10 MBit/s	750-341	MODBUS RS 485	1.2 - 115.2 kBd	750-815
			DeviceNet	500 kBaud	750-306	MODBUS RS 232	150 - 19200 Bd	750-814
			CANopen	10 kBd - 1 MBd	750-307	MODBUS RS 232	1.2 - 115.2 kBd	750-816
			CANopen	10 kBd - 1 MBd	750-337	LONWORKS	78 kbps	750-819
			CAL	10 kBd - 1 MBd	750-305			
			MODBUS RS 485	150 - 19200 Bd	750-312			
			MODBUS RS 485	1.2 - 115.2 kBd	750-315			
Accessories, Series 750			MODBUS RS 232	150 - 19200 Bd	750-314	Accessories, Fieldbus Controller		
Fieldbus connector,			MODBUS RS 232	1.2 - 115.2 kBd	750-316	Software WAGO-I/O-PRO,		
fast and maintenance-free CAGE CLAMP® connection			CC-Link	156 kBd - 10 MBd	750-310	see page 5.7		
PROFIBUS		750-960	Firewire	100/200/400 MBd	750-339			
with D-Sub male connector, 9-pole			LONWORKS	78 kbps	750-319			
PROFIBUS		750-970	Data exchange coupler	750-319/004-000				
with D-Sub male and female connector, 9-pole			(Peer-to-peer)	78 kbps				
CANopen		750-963	II/O-LIGHTBUS	2.5 MBaud	750-300			
with D-Sub female connector, 9-pole								
INTERBUS (IN)		750-961						
with D-Sub female connector, 9-pole								
INTERBUS (OUT)		750-962						
with D-Sub male connector, 9-pole								
CC-Link		750-965	Only for digital signals:					
with D-Sub male connector, 9-pole			II/O-LIGHTBUS	2.5 MBaud	750-320			
You can find more accessories in the General Catalogue								

* You can find approvals and technical data in our General Catalogue W5, Volume 3 or at www.wago.com.

Industrial Compact PC, Series 758

Digital Input Modules and Digital Output Modules, Series 750




Industrial Compact PC*	Digital Input Modules (DI)*	Digital Output Modules (DO)*
0.08 mm ² - 2.5 mm ² / AWG 28 - 16 Voltage supply 24 V (-15%..+20%) Dimensions 172 x 65 x 100 mm	0.08 mm ² - 2.5 mm ² / AWG 28 - 16 Voltage supply 24 V (-15%..+20%) Module width 12;24 mm / 0.472;0.945 in  8 - 9 mm / 0.33 in	0.08 mm ² - 2.5 mm ² / AWG 28 - 16 Voltage supply 24 V (-15%..+20%) Module width 12;24 mm / 0.472;0.945 in  8 - 9 mm / 0.33 in



Description	Item No.	Description	Voltage	Item No.	Description	Voltage	Item No.
WAGO-I/O-PC	758-870	4-channel DI	DC 5 V, 0.2 ms	750-414	4-channel DO	DC 5 V, 20 mA	750-519
Industrial compact PC			high-side switching			high-side switching	
Interfaces:		2-channel DI	DC 24 V, 3 ms,	750-400	2-channel DO	DC 24 V, 0.5 A,	750-501
LAN 2 x 10Base-T/100Base-TX			high-side switching			high-side switching	
Fieldbus (option)		2-channel DI	DC 24 V, 0.2 ms,	750-401	2-channel DO	DC 24 V, 2 A,	750-502
Serial 1 x COM 1, RS 232 compliant			high-side switching			high-side switching	
USB 2 x USB-Ports acc. to specification 1.1		2-channel DI	DC 24 V, 3 ms,	750-410	2-channel DO	DC 24 V, 0.5 A,	750-506
Digital input 2 x DI, isolated			high-side switching, proximity switch			high-side switching, diagnostic	
Digital output 2 x DO, isolated		2-channel DI	DC 24 V, 0.2 ms,	750-411	2-channel DO	DC 24 V, 2 A,	750-507
			high-side switching, proximity switch			high-side switching, diagnostic	
WAGO-I/O-PC	758-870/000-001	2-channel DI	DC 24 V, 3 ms,	750-418	4-channel DO	DC 24 V, 0.5 A,	750-504
with PROFIBUS Master			high-side switching, diagn./acknol.			high-side switching	
		2-channel DI	DC 24 V, 3 ms,	750-419	4-channel DO	DC 24 V, 0.5 A,	750-531
			high-side switching, diagnostic			high-side switching	
WAGO-I/O-PC	758-870/000-002	4-channel DI	DC 24 V, 3 ms,	750-402	4-channel DO	DC 24 V, 0.5 A,	750-516
with CANopen Master			high-side switching			low-side switching	
		4-channel DI	DC 24 V, 0.2 ms,	750-403	8-channel DO	DC 24 V, 0.5 A	750-530
with DeviceNet Master			high-side switching			high-side switching	
		4-channel DI	DC 24 V	750-432	2-channel DO	AC 125 V, 0.5 A	750-514
			high-side switching			2 changeover contacts (SPDT)	
		4-channel DI	DC 24 V	750-433	1-channel DO	AC 230 V, 16 A	750-523
			high-side switching			1 make contact, bistable	
		2-channel DI	DC 24 V,	750-422	2-channel DO	AC/DC 230 V,	750-509
			high-side switching, puls extension			SSR 0.3 A	
		4-channel DI	DC 24 V, 3 ms,	750-408	2-channel DO	AC/DC 230 V,	750-522
			low-side switching			SSR 3.0 A (< 30 s)	
		4-channel DI	DC 24 V, 0.2 ms,	750-409	2-channel DO	AC 250 V, 1.0 A	750-517
			low-side switching			2 changeover contacts (SPDT)	
		8-channel DI	DC 24 V, 3 ms,	750-430	2-channel DO	AC 250 V, 2.0 A	750-512
			high-side switching			2 make contacts, non-floating	
		8-channel DI	DC 24 V, 0.2 ms,	750-431	2-channel DO	AC 250 V, 2.0 A	750-513
			high-side switching			2 make contacts, isolated outputs	
		2-channel DI	DC 24 V,	750-424			
			intruder detection				
		4-channel DI	AC/DC 24 V, 20 ms	750-415			
			power contacts				
		4-channel DI	AC/DC 24 V, 50 ms	750-423			
			power contacts				
		4-channel DI	AC/DC 42 V	750-428			
			power contacts				
		2-channel DI	DC 48 V, 3 ms	750-412			
			high-side switching				
		2-channel DI	DC 48 V, 3 ms	750-412			
			high-side switching				
		2-channel DI	DC 110 V	750-427			
			high-side or low-side switching				
		2-channel DI	AC 230 V	750-405			
			high-side switching				
		2-channel DI	NAMUR	750-425			

* You can find approvals and technical data in our General Catalogue W5, Volume 3 or at www.wago.com.

Analogue Input Modules, Analogue Output Modules, Specialty Modules Series 750




Analogue input modules (AI)*	Analogue output modules (AO)*	Specialty modules*
0.08 mm ² - 2.5 mm ² / AWG 28 - 16 Power supply 24 V (-15%..+20%) Module width 12 mm 24 mm  8 - 9 mm / 0.33 in	0.08 mm ² - 2.5 mm ² / AWG 28 - 16 Power supply 24 V (-15%..+20%) Module width 12 mm 24 mm  8 - 9 mm / 0.33 in	0.08 mm ² - 2.5 mm ² / AWG 28 - 16 Power supply 24 V (-15%..+20%) Module width 12 mm 24 mm 48 mm  8 - 9 mm / 0.33 in



Description	Item No.	Description	Item No.	Description	Item No.
2-channel AI 0 - 20 mA differential inputs	750-452	2-channel AO 0 - 20 mA	750-552	Up/down counter DC 24 V, 100 kHz	750-404
2-channel AI 4 - 20 mA differential inputs	750-454	2-channel AO 4 - 20 mA	750-554	2-channel up/down counter DC 24 V, 500 Hz	750-638
2-channel AI 0 - 20 mA Single-ended	750-465	2-channel AO 0 - 10 V	750-550	2-channel pulse width output module DC 24 V, 0.1 A	750-511
2-channel AI 4 - 20 mA Single-ended	750-466	2-channel AO ±10 V	750-556	SSI transmitter interface 24 Bit, 125 kHz, Gray	750-630
2-channel AI 0 - 20 mA, 16 Bit Single-ended	750-472	4-channel AO ±10 V	750-557	Incremental encoder interface 16 bit counter	750-631
2-channel AI 4 - 20 mA, 16 Bit Single-ended	750-474	4-channel AO 0 - 10 V	750-559	Incremental encoder interface 32 bit counter, RS 422 connection	750-637
2-channel AI 0 - 20 mA, differential inputs	750-480	2-channel AO 0 - 10 V, 24 V	750-560	Digital impulse interface for magnetostrictive distance measurement sensors	750-635
2-channel AI 4 - 20 mA, differential inputs	750-492			Serial interface RS 232 C 1200 - 19200 Baud	750-650
2-channel AI 0 - 1 A AC/DC differential inputs	750-475			Serial interface RS 485 1200 - 19200 Baud	750-653
2-channel AI 0 - 10 V AC/DC differential inputs	750-477			TTY interface 20 mA Current Loop	750-651
2-channel AI 0 - 10 V DC Single-ended	750-467			Data exchange module 62500 Baud	750-654
4-channel AI 0 - 10 V DC Single-ended	750-468			DALI/DSI master module	750-641
2-channel AI ±10 V DC, 16 Bit Single-ended	750-476			Radio receiver module	750-642
2-channel AI 0 - 10 V DC, 16 Bit Single-ended	750-478			AS-Interface master module	750-655
4-channel AI ±10 V DC Single-ended	750-457				
4-channel AI 0 - 10 V DC Single-ended	750-459				
2-channel AI ±10 V DC differential inputs	750-456				
2-channel AI ±10 V DC differential measurements inputs	750-479				
2-channel AI ±10 V DC differential measurements inputs	750-483				
2-channel AI Pt100 / RTD	750-461				
4-channel AI Pt100 / RTD	750-460				
2-channel AI Thermocouple K/Diagnostic	750-469				
1-channel AI DMS	750-491				
4-channel AI 0 - 20 mA Single-ended	750-453				
4-channel AI 4 - 20 mA Single-ended	750-455				

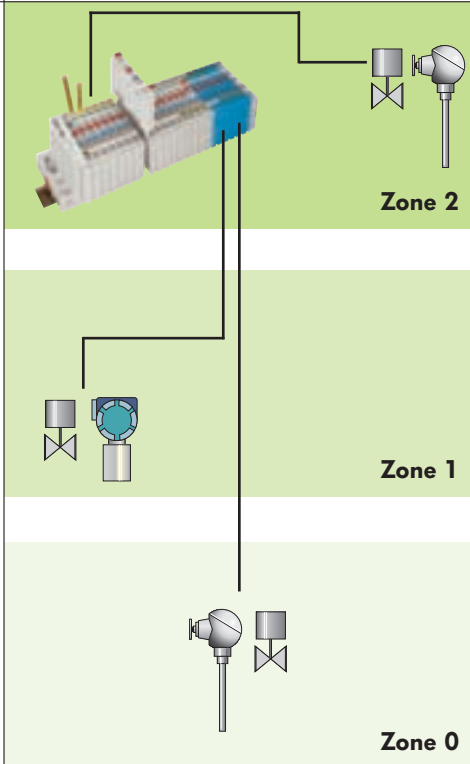
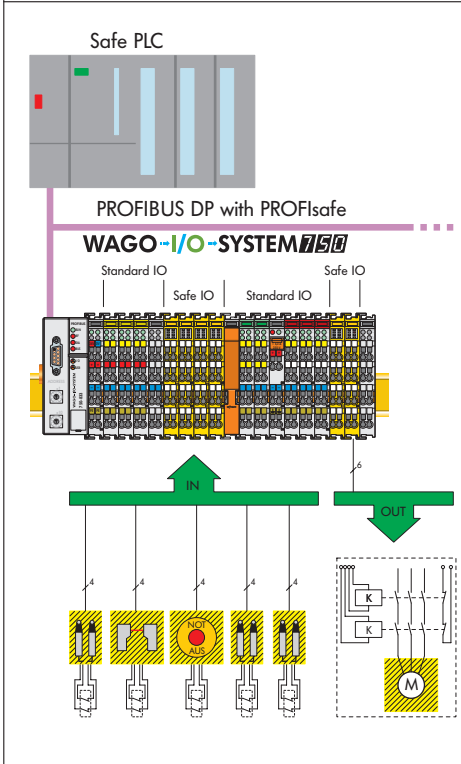
* You can find approvals and technical data in our General Catalogue W5, Volume 3 or at www.wago.com.
Technical explanations and abbreviations see page 10.2.

PROFIsafe Modules, Intrinsically Safe Modules, System Modules, Series 750

PROFIsafe Modules*	Intrinsically Safe Modules EEx i*	System Modules*
0.08 mm ² - 2.5 mm ² / AWG 28 - 16 Power supply 24 V (-15%..+20%) Module width 24 mm  8 - 9 mm / 0.33 in	0.08 mm ² - 2.5 mm ² / AWG 28 - 16 Power supply 24 V (-15%..+20%) Module width 12 mm  8 - 9 mm / 0.33 in	0.08 mm ² - 2.5 mm ² / AWG 28 - 16 Power supply 24 V (-15%..+20%) Module width 12 mm 24 mm  8 - 9 mm / 0.33 in



Description	Item No.	Description	Item No.	Description	Item No.
Input module	750-660	1-channel digital input module	750-435	Internal data bus extension	750-627
8 inputs cat. 2/SIL 2 or 4 inputs cat. 4/SIL 3		NAMUR, EEx i		End Module	
Output module	750-665	2-channel digital input module	750-438	Internal data bus extension	750-628
4 outputs cat. 2/SIL 2 or 2 outputs cat. 4/SIL 3		NAMUR, EEx i		Coupler module	
4 inputs cat. 2/SIL 2 or 2 inputs cat. 4/SIL 3		2-channel digital output module	750-535	Supply module	750-602
Power switch module	750-666	DC 24 V, EEx i		DC 24 V, passive	
1 output cat. 2/SIL 2 or 1 output cat. 3/SIL 2		2-channel analogue input module	750-485	Supply module	750-612
2 outputs cat. 2/SIL 2 or 1 output cat. 4/SIL 3		Single Ended, 4 - 20 mA, EEx i		AC/DC 0-230 V, passive	
2 inputs cat. 2/SIL 2 or 1 input cat. 4/SIL 3		2-channel analogue output module	750-585	Supply module	750-601
		0 - 20 mA, EEx i		DC 24 V, with fuse carrier	
		2-channel analogue input	750-481/003-000	Supply module	750-609
		RTD EEx i		AC 230 V, with fuse carrier	
		Supply module	750-625	Supply module	750-615
		with fuse carrier, EEx i		AC 120 V, with fuse carrier	



WAGO PROFIsafe modules can be used in safety applications up to category 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.

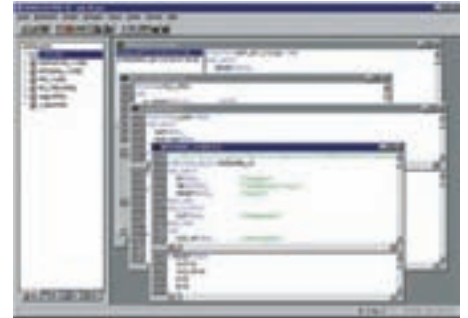
The WAGO-I/O-SYSTEM 750 can be used in hazardous areas of zone 2.

A direct connection to the sensors and actuators of zones 0 and 1 is now also possible.

* You can find approvals and technical data in our General Catalogue W5, Volume 3 or at www.wago.com.

Digital Input/Output/Specialty and System Modules, Series 753 Sensor/Actuator Boxes, Series 757 Software, Series 759

Modules Series 753* 0.08 mm ² - 2.5 mm ² / AWG 28 - 14 Power supply 24 V (-15%...+20%) Module width 12 mm  9 – 10 mm / 0.37 in	Modules Series 757* Operating voltage DC 10 V ... 30 V Dimensions (mm) W x H x L M12: 60 x 117/123/152 x 26 M 8: 30 x 117/123/152/175 x 20	Software WAGO-I/O-PRO 32
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Description	Item No.	Description	Item No.	Description	Item No.
Digital input modules (DI):		M12 sensor/actuator boxes with M23 connector		WAGO-I/O-PRO 32	759-332/000-001
2-channel DI DC 24 V	753-400, 753-401	4-way, 4-pole	757-144	German	
4-channel DI DC 24 V	753-402, 753-403	6-way, 4-pole	757-164	WAGO-I/O-PRO 32	759-332/000-002
2-channel DI AC 230 V	753-405	8-way, 4-pole	757-184	Englisch	
2-channel DI AC 120 V	753-406	4-way, 5-pole	757-145	OPC	759-310
4-channel DI DC 24 V	753-408, 753-409	6-way, 5-pole	757-165	Server Runtime License	
2-channel DI DC 24 V	753-410, 753-411	8-way, 5-pole	757-185	WAGO OPC-Server	759-311
2-channel DI DC 48 V	753-412			MODBUS/TCP	
4-channel DI AC/DC 24 V	753-415	M12 sensor/actuator boxes with 5m connec. cable		WAGO DLL	759-312
2-channel DI DC 24 V	753-418, 753-421	4-way, 4-pole	757-244/000-005	MODBUS/TCP	
2-channel DI DC 24 V	753-422	6-way, 4-pole	757-264/000-005		
4-channel DI AC/DC 24 V	753-423	8-way, 4-pole	757-284/000-005		
2-channel DI DC 24 V	753-424	4-way, 5-pole	757-245/000-005		
2-channel DI NAMUR	753-425	6-way, 5-pole	757-265/000-005		
2-channel DI DC 110 V	753-427	8-way, 5-pole	757-285/000-005		
4-channel DI AC/DC 42 V	753-428				
8-channel DI DC 24 V	753-430, 753-431	M8 sensor/actuator boxes with M16 connector		Software WAGO-I/O-CHECK 2	
4-channel DI DC 24 V	753-432, 753-433	4-way, 3-pole	757-343		
		6-way, 3-pole	757-363		
		8-way, 3-pole	757-383		
Digital output modules (DO):		10-way, 3-pole	757-303		
2-channel DO DC 24 V	753-501, 753-502	M8 sensor/actuator boxes with 5m conn. cable			
4-channel DO DC 24 V	753-504	4-way, 3-pole	757-443/000-005		
2-channel DO DC 24 V	753-506, 753-507	6-way, 3-pole	757-463/000-005		
2-channel DO AC/DC 230 V	753-509	8-way, 3-pole	757-483/000-005		
2-channel DO AC 250 V	753-512	10-way, 3-pole	757-403/000-005		
2-channel DO AC 250 V	753-513				
2-channel DO AC 125 V	753-514				
4-channel DO DC 24 V	753-516				
2-channel DO AC 250 V	753-517				
8-channel DO DC 24 V	753-530				
4-channel DO DC 24 V	753-531				
Specialty modules:		Accessories Series 757			
Up/down counter	753-404	Blind module for sensor/actuator box			
Digital pulse interface	753-635	4-way	757-040		
2-channel up/down counter	753-638	6-way	757-060		
Serial interface RS 232 C	753-650	8-way	757-080		
Serial interface RS 485	753-653	10-way	757-000		
System modules:		M12 protective cap (sensor / actuator), for unused terminals		WAGO-I/O-CHECK 2	759-302
Field side connection module	753-603		755-814		
Field side connection module	753-604		10 pieces per packing unit		
Field side connection module	753-614				
		Marker strips for M8 sensor/actuator box			
		4-way	757-0041		
		6-way	757-0061		
		8-way	757-0081		
		10-way	757-0001		
For technical data see 750 Series modules with same functions		Please find more accessories in our General Catalogue.			
Other modules on request					



* You can find approvals and technical data in our General Catalogue W5, Volume 3 or at www.wago.com

Shield (Screen) Connection System Series 790



Snap into any metal plate up to max. thickness 3 mm/0.118 in



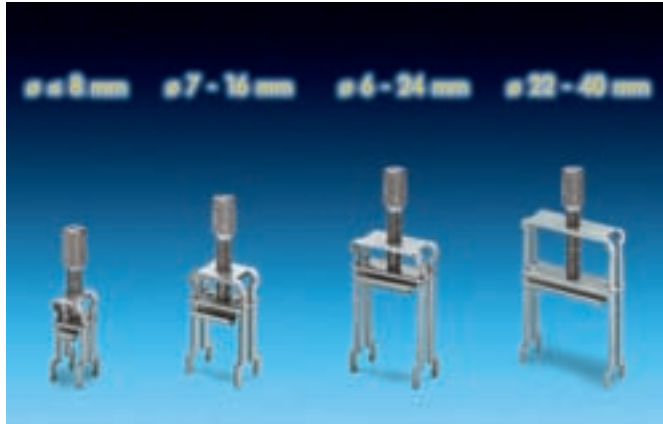
Mounting on a special slotted carrier rail



Isolated mounting carriers for a common (shield) reference potential



U-shaped copper busbar
10 x 3 mm/0.394 x 0.118 in



Shield (screen) clamping saddles

Saddle width	for conductors with diameter	Item No.	Pack.-unit pcs
11 mm	8 mm	790-108	50
19 mm	7 ... 16 mm	790-116	50
27 mm	6 ... 24 mm	790-124	50
43 mm	22 ... 40 mm	790-140	50

Accessories, Series 790

	Carrier with grounding foot , 45 mm/1.772 in long bar 90° to the rail, 790-113 25 Cu with tin plating 10 x 3 mm/0.394 x 0.118 in
	Carrier with grounding foot , 45 mm/1.772 in long bar parallel to the rail, 790-114 25 Cu with tin plating 10 x 3 mm/0.394 x 0.118 in
	Carrier with two grounding feet , 125 mm/4.921 in long bar parallel to the rail, 790-115 25 Cu with tin plating 10 x 3 mm/0.394 x 0.118 in
	Carrier rail , special slotted, 1000 mm/3'.3" in long, Cu with tin plating 790-145 1 special lengths on request
	Stand off , for special slotted carrier rail, use M 5 size screw 790-144 200 (2x100)
	Straight busbar , 1000 mm 210-133 20 (20x1) Cu with tin plating, 30 mm 790-133 20 (20x1) 10 x 3 mm/0.394 x 0.118 in 50 mm 790-134 20 (20x1)
	Isolated mounting foot , for busbar, grey 790-100 50 (2x25) with standard screw M4 x 8 mm
	Isolated mounting foot , for busbar grey 790-101 50 (2x25) with sheet metal screw (3.5 x 9) mm
	U-shaped busbar , for I/O modules, Series 750 for 5 I/O 790-190 25 (5x5) Cu 10 mm x 3 mm for 8 I/O 790-191 25 (1x25)



Carrier with grounding foot, busbar 90° to the rail



Carrier with grounding foot, busbar parallel to the rail

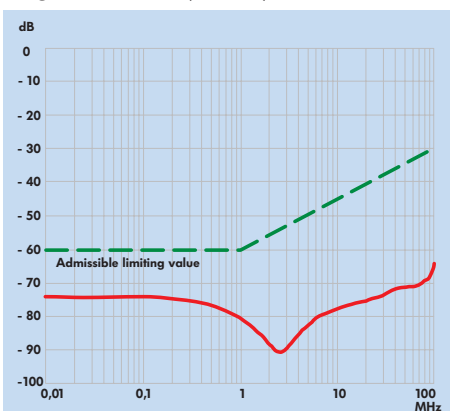


Carrier with two grounding feet, busbar parallel to the rail



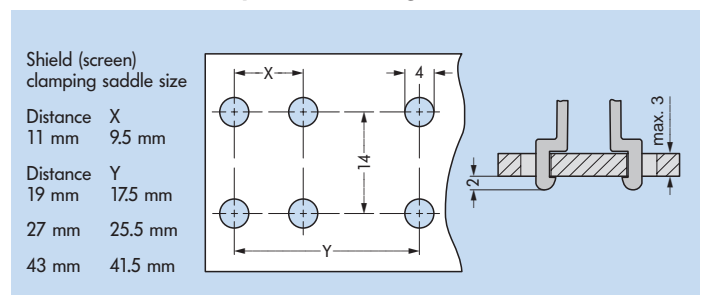
Carrier with grounding foot

Negative shield (screen) attenuation



The WAGO shield (screen) connection 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, giving good electrical connection and compensating for any deformation in the braiding. The system also acts as a partial strain relief.

Hole dimensions for panel mounting



5 Electronic Modules . . .

8 Plugging



Coding ensures correct polarity

Testing



Easy testing at touchproof contacts

Terminal blocks for pluggable modules



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

Clamping units



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

Marking



Marker plate for group or block marking

Pluggable electronic modules



System circuits



Printed system circuits for quick recognition of function

Service



Pliers for removing electronic housing covers (see page 5.17)



CAGE CLAMP® ① clamps the following copper wires:

solid



stranded



fine-stranded, also with tinned single strands

... Description and Handling

Series 859



Rail-mounted terminal blocks with coupler functions

Overvoltage protection

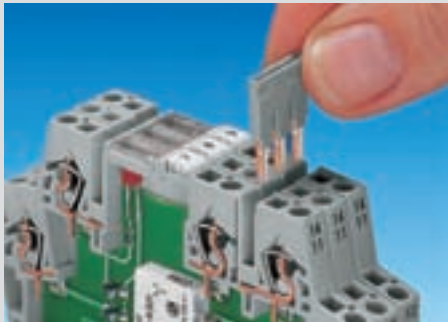


Rail-mounted terminal blocks with overvoltage protection

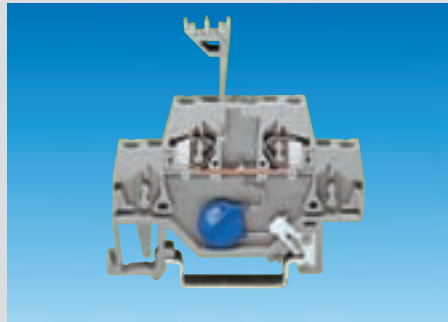
Interface modules



Commoning



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



Rail-mounted terminal block with varistor

CAGE CLAMP® connection



Connection of conductor "front-entry"

Marking



Each clamping unit is marked individually



Pluggable surge suppression

CAGE CLAMP® connection



Connection of conductor "side-entry"

Testing



Testing with test pin



Primary switch mode power supply units see page 5.16

CAGE CLAMP®S connection



Solid conductors or flexible conductors with ultrasonically bonded wire ends or ferrules can be simply pushed in - without using a screwdriver



fine-stranded wire - tip bonded






fine-stranded wire with crimped ferrule ③

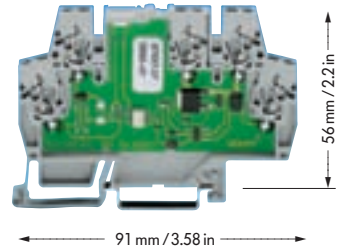
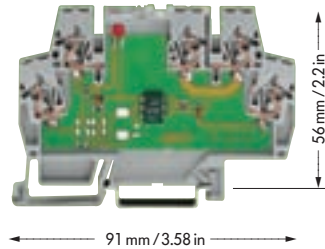
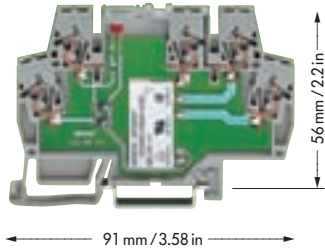


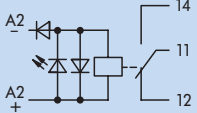
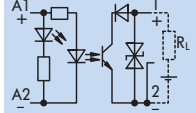
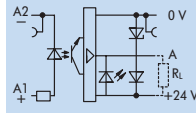
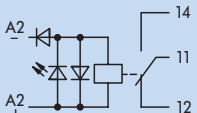
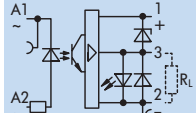

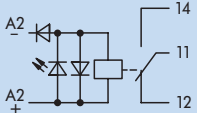
fine-stranded wire with crimped pin terminal

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 Coupler Function, with CAGE CLAMP® COMPACT Connection

Relay with 1 change over contact 0.08 – 2.5 mm² AWG 28 – 14 Terminal block width 6 mm/0.236 in  5 – 6 mm / 0.22 in	Optocoupler 0.08 – 2.5 mm² AWG 28 – 14 Terminal block width 6 mm/0.236 in  5 – 6 mm / 0.22 in	Optocoupler 0.08 – 2.5 mm² AWG 28 – 14 Terminal block width 6 mm/0.236 in  5 – 6 mm / 0.22 in
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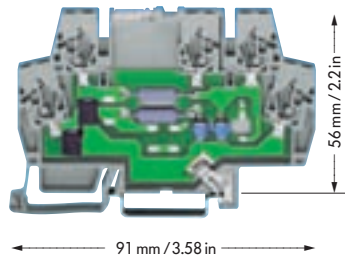


	Item No.	Pack.-unit pcs		Item No.	Pack.-unit pcs		Item No.	Pack.-unit pcs		
	859-302	25		859-795	25		859-702	25		
	DC 5 V			input: DC 5 V			input: DC 5 V			
	859-303	25		output: DC 24 V/100 mA			output: DC 24 V/0.5 A			
	DC 12 V						25 kHz			
	859-304	25					negative switching			
	DC 24 V									
	859-305	25					859-708	25		
	DC 48 V			859-796	25		input: DC 24 V			
	859-306	25		input: DC 24 V			output: DC 24 V/0.5 A			
	DC 60 V			output: DC 24 V/100 mA			25 kHz			
	859-307	25					negative switching			
	DC 120 V									
	859-308	25			859-720		25	input: DC 24 V	859-706	25
	DC 230 V				input: DC 24 V			output: DC 5 V/0.5 A		output: DC 24 V
859-353	1		output: DC 24 V/3 A		negative switching		25 kHz			
AC/DC 12 V			negative switching		negative switching					
859-354	25									
AC/DC 24 V										
859-355	25		859-730	25	input: DC 24 V	859-752	25			
AC/DC 48 V			input: DC 24 V		output: DC 24 V/0.5 A		input: DC 5 V			
859-357	25		output: DC 24 V/3 A				output: DC 24 V/0.5 A			
AC 115 V							10 kHz			
859-358	25						positive switching			
AC 230 V										
	Contacts 5 μm Au hard gold plated			859-772	25		859-758	25		
	859-314	25		input: AC 230 V			input: DC 24 V			
	DC 24 V			output: DC 24 V/0.5 A			output: DC 24 V/0.5 A			
	859-317	25		positive switching			10 kHz			
	DC 115 V						positive switching			
859-360	25		859-712	25	input: AC 230 V	859-756	25			
AC 115 V			input: AC 230 V		output: DC 24 V/0.5 A		input: DC 24 V			
859-359	25		output: DC 24 V/0.5 A		negative switching		output: DC 5 V/0.5 A			
AC 230 V			negative switching				10 kHz			
							positive switching			
	Defined turn-on/turn-off threshold						859-794	25		
	859-368	25					input: DC 16 V - 30 V			
							output: DC 16 V - 60 V			
							100 mA			

Rail-Mounted Terminal Blocks with Overvoltage Protection, with CAGE CLAMP® COMPACT Connection



Overvoltage protection in terminal blocks 0.08 – 2.5 mm² AWG 28 – 14 Terminal block width 6 mm/0.236 in 5 – 6 mm / 0.22 in	Accessories for terminal blocks - with coupler function - with overvoltage protection	Accessories for terminal blocks - with coupler function - with overvoltage protection
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	Item No.	Pack.-unit pcs		Item No.	Pack.-unit pcs		Item No.	Pack.-unit pcs	
	792-800	1		End and intermediate plate 1 mm/0.039 in thick grey	859-525	100 (4 x 25)		Screwless end stop 6 mm wide 10 mm wide	249-116 100 (4 x 25) 249-117 50 (2 x 25)
	792-801	1		Push-in type jumper bar, light grey, insulated, I _N 18 A	2-way 859-402 200 (8 x 25) 3-way 859-403 200 (8 x 25) 4-way 859-404 200 (8 x 25) 5-way 859-405 200 (8 x 25) : : 10-way 859-410 100 (4 x 25)			Adjustable height group marker carriers, suitable for end stops 249-116 and 249-117 for 1 marker card for 2 WSB Quick markers each or 1 x continuous marking strip	249-119 50 (2 x 25) 249-118 100 (4 x 25)
	792-802	1		Test pin, 1 mm/0.039 in Ø, test wire for soldering onto test plug	859-500	1		Screwdriver, with partially insulated shaft (3.5 x 0.5) mm	210-620 1
	792-803	1		Marking pen with fibre tip, for permanent marking	210-110	1			
	792-804	1		Miniature WSB Quick marking card, 10 strips at 10 markers, white with block printing			Marking		
							plain	248-501	5
							1 ... 10 (10x)	248-502	5
							11 ... 20 (10x)	248-503	5
							21 ... 30 (10x)	248-504	5
							31 ... 40 (10x)	248-505	5
							41 ... 50 (10x)	248-506	5
							1 ... 50 (2x)	248-566	5
							K 1 ... K 10 (10x)	248-450	5
							K 11 ... K 20 (10x)	248-451	5
							K 100 (10x)	248-452	5
							U 1 ... U 10 (10x)	248-453	5
							U 11 ... U 20 (10x)	248-454	5
							U 100 (10x)	248-455	5
	792-805	1							

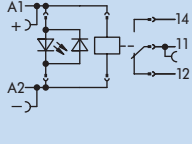
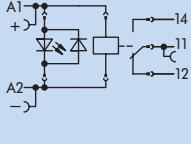
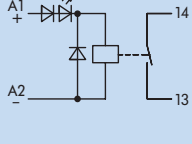
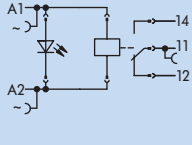
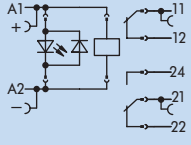
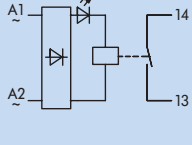
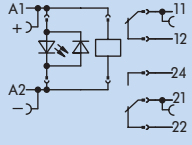
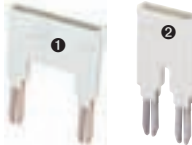
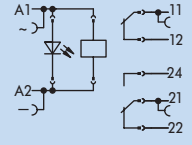





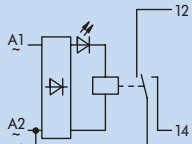
Please find the entire product range in our General Catalogue W5, Volume 3. More information at www.wago.com.






Relay Socket with Small Switching Relay, Pluggable, Series 788 DIN-Rail-Mountable Modules - Switching Relays, Series 288

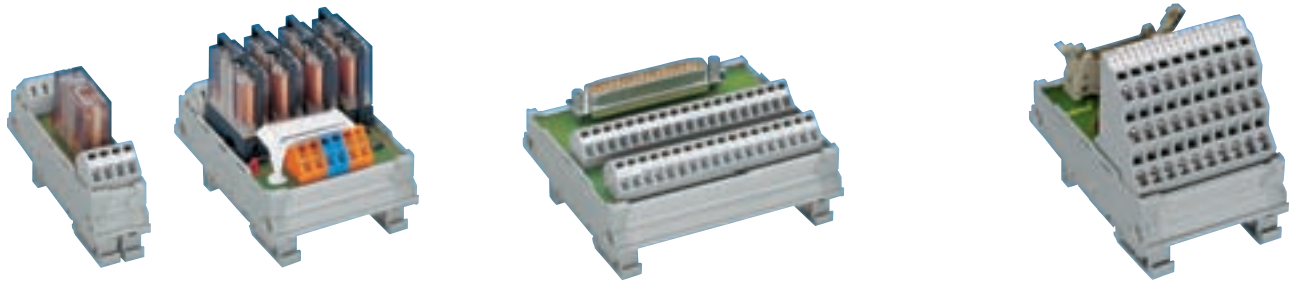
<p>Relay socket with DC relay and status indication; 1 or 2 changeover contacts</p> <p>0.34 – 2.5 mm² AWG 22 – 14 Dimensions (W x H x L) 15 x 53 x 86 mm Relay height 15 mm  9 – 10 mm / 0.37 in</p>	<p>Relay socket with DC relay and status indication; 1 or 2 changeover contacts</p> <p>0.34 – 2.5 mm² AWG 22 – 14 Dimensions (W x H x L) 15 x 63 x 86 mm Relay height 25 mm  9 – 10 mm / 0.37 in</p>	<p>Relay direct soldered</p> <p>0.08 – 2.5 mm² AWG 28 – 14  5 – 6 mm / 0.22 in</p>
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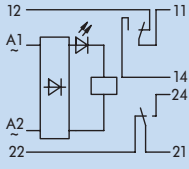
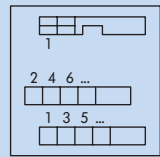
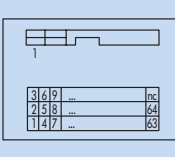
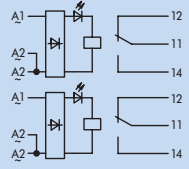
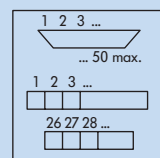
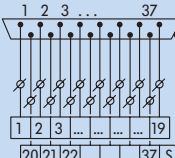
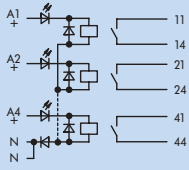
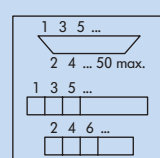
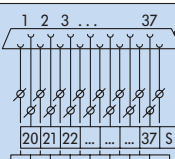
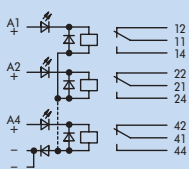
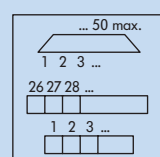
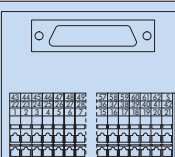
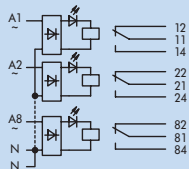
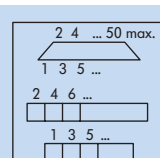
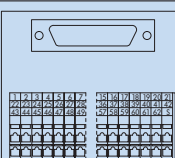
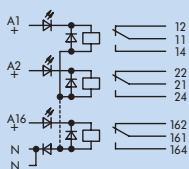


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
	1 changeover contact 788-303 DC 12 V 1 788-304 DC 24 V 1 788-305 DC 48 V 1 788-306 DC 60 V 1 788-307 DC 110 V 1		1 changeover contact 788-324 DC 24 V 1 788-528 AC 230 V (no illustration)		1 make contact 288-364 DC 24 V 1
	1 changeover contact 788-506 AC 24 V 1 788-507 AC 115 V 1 788-508 AC 230 V 1		2 changeover contacts 788-334 DC 24 V 1 788-538 AC 230 V (no illustration)		1 make contact 288-564 AC/DC 24 V 1 288-565 AC/DC 48 V 1 288-567 AC/DC 115 V 1
	2 changeover contacts 788-311 DC 12 V 1 788-312 DC 24 V 1 788-313 DC 48 V 1 788-314 DC 60 V 1 788-315 DC 110 V 1	Accessories, Series 788 appropriate marking system WMB/WSB  Comb type jumper bar, 2-way 788-113 ① 859-402 ②	1 break contact 288-368 DC 24 V 1		
	2 changeover contacts 788-512 DC 24 V 1 788-515 DC 115 V 1 788-516 DC 230 V 1	 Status indication, with free-wheeling diode 788-120 DC 24 V 788-121 DC 48 V 788-122 DC 110 V 788-123 AC 24 V 788-124 AC 115 V 788-125 AC 230 V	1 break contact 288-568 AC/DC 24 V 1		
		 WMB Multi marking system 10 strips with 10 markers, white with black marking see also chapter 9	1 changeover contact 288-304 DC 24 V 1		
		 Screwdriver, with partially insulated shaft (3.5 x 0.5) mm 210-620 1			
	Socket without relay for switching relay (15 mm high) 788-100 1 RT 15, 1 changeover contact 788-102 1 RT 15, 2 changeover contacts		Socket without relay for switching relay (25 mm high) 788-101 1 RT 25, 1 changeover contact 788-103 1 RT 25, 2 changeover contacts		1 changeover contact 288-504 AC/DC 24 V 1 288-508 AC 230 V 1

DIN-Rail-Mountable Modules, Series 287 and 288 Interface Modules, Series 289

<p>Relay direct soldered/Relay in socket</p> <p>0.08 – 2.5 mm² AWG 28 – 14</p> <p> 5 – 6 mm / 0.22 in</p>	<p>Interface module CAGE CLAMP® terminal strips (series 236) mounting carrier for DIN rail 35</p> <p>0.08 – 2.5 mm² AWG 28 – 12</p> <p> 5 – 6 mm / 0.22 in</p>	<p>Interface module CAGE CLAMP® terminal strips (series 736 and 737) mounting carrier for DIN rail 35</p> <p>0.08 – 2.5 mm² AWG 28 – 12</p> <p> 5 – 6 mm / 0.22 in</p>
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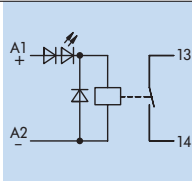
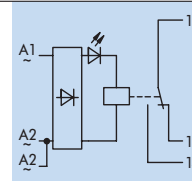
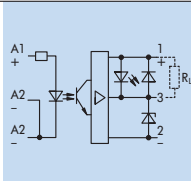
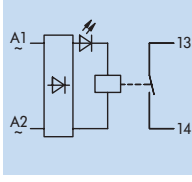
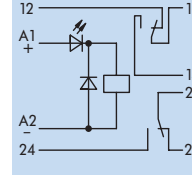
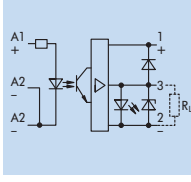
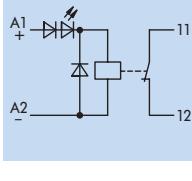
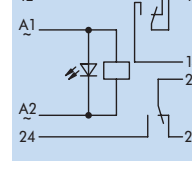
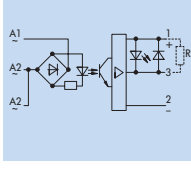
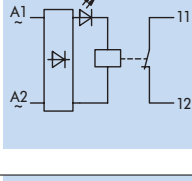
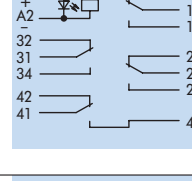
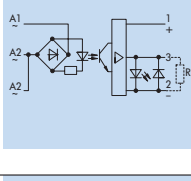
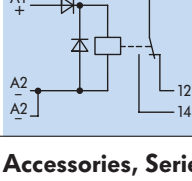
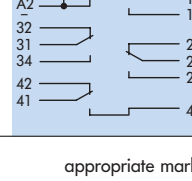
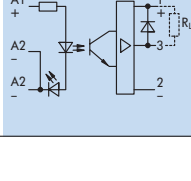


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
 <p>2 changeover contacts Relay direct soldered 288-512 1 AC/DC 24 V</p>		 <p>Interface module with header acc. to DIN 41 651 289-501 10 poles 1 289-502 14 poles 1 289-503 16 poles 1 289-504 20 poles 1 289-505 26 poles 1 289-506 34 poles 1 289-507 40 poles 1 289-508 50 poles 1 289-509 64 poles 1</p>		 <p>Interface modules for ribbon cable connectors 289-611 10 poles 1 289-612 14 poles 1 289-613 16 poles 1 289-614 20 poles 1 289-615 26 poles 1 289-616 34 poles 1 289-617 40 poles 1 289-618 50 poles 1 289-619 64 poles 1</p>	
 <p>2 Relays, with 1 changeover contact each Relay direct soldered 288-758 1 AC/DC 24 V 288-761 1 AC/DC 115 V</p>		 <p>Interface module with submin. D-male connector for mating connectors with solder connection 289-545 9 poles 1 289-546 15 poles 1 289-547 25 poles 1 289-548 37 poles 1 289-549 50 poles 1</p>	 <p>Interface module with submin. D-male connector 289-720 9 poles 1 289-721 15 poles 1 289-722 25 poles 1 289-723 37 poles 1</p>		
 <p>4 Relays, with 1 make contact each Relay direct soldered 287-474 1 DC 24 V</p>		 <p>Interface module with submin. D-female conn. for mating connectors with IDC 289-540 9 poles 1 289-541 15 poles 1 289-542 25 poles 1 289-543 37 poles 1 289-544 50 poles 1</p>	 <p>Interface module with submin. D-female conn. 289-725 9 poles 1 289-726 15 poles 1 289-727 25 poles 1 289-728 37 poles 1</p>		
 <p>4 Relays, with 1 changeover contact each Relay in socket 287-774 1 DC 24 V</p>		 <p>Interface module with submin. D-female conn. for mating connectors with solder connection 289-555 9 poles 1 289-556 15 poles 1 289-557 25 poles 1 289-558 37 poles 1 289-559 50 poles 1</p>	 <p>Interface module with HD submin. D-male connector 289-597 44 poles 1 289-710 62 poles 1</p>		
 <p>8 Relays, with 1 changeover contact each Relay in socket 287-834 1 AC/DC 24 V 287-824 1 DC 24 V (no illustration)</p>		 <p>Interface module with submin. D-female conn. for mating connectors with IDC 289-550 9 poles 1 289-551 15 poles 1 289-552 25 poles 1 289-553 37 poles 1 289-554 50 poles 1</p>	 <p>Interface module with HD submin. D-female conn. 289-707 44 poles 1 289-708 62 poles 1</p>		
 <p>8 Relays, with 1 changeover contact each Relay in socket 287-853 1 DC 12 V 287-854 1 DC 24 V (no illustration)</p>		<p>Also available for connectors acc. to: DIN 41612 Type E, F DIN 41651</p>			

Pluggable Modules Series 286

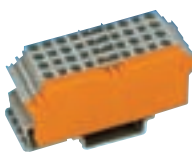
<p>Switching relay module</p> <p>① Module width 10 mm / 0.394 in ② Module width 15 mm / 0.591 in</p>	<p>Switching relay module</p> <p>② Module width 15 mm / 0.591 in ③ Module width 20 mm / 0.787 in ④ Module width 35 mm / 1.378 in</p>	<p>Optocoupler</p> <p>② Module width 15 mm / 0.591 in</p>
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
 <p>① 1 make contact</p> <p>286-364 1 DC 24 V / 5 A</p> <p>286-365 1 DC 48 V / 5 A</p> <p>286-366 1 DC 60 V / 5 A</p>		 <p>② 1 changeover contact</p> <p>286-502 1 AC/DC 5 V / 7 A</p> <p>286-504 1 AC/DC 24 V / 7 A</p> <p>286-508 1 AC/DC 230 V / 7 A</p>		 <p>② Input DC 24 V negative switching</p> <p>286-700 1 DC 5 V / 500 mA</p> <p>286-701 1 DC 15 V / 500 mA</p> <p>286-702 1 DC 24 V / 500 mA</p>	
 <p>① 1 make contact</p> <p>286-564 1 AC 24 V / 5 A</p> <p>286-567 1 AC 230 V / 5 A</p>		 <p>② 2 changeover contacts</p> <p>286-310 1 DC 5 V / 7 A</p> <p>286-312 1 DC 24 V / 7 A</p> <p>286-316 1 DC 230 V / 7 A</p>		 <p>② Input DC 24 V positive switching</p> <p>286-750 1 DC 5 V / 500 mA</p> <p>286-751 1 DC 15 V / 500 mA</p> <p>286-752 1 DC 24 V / 500 mA</p>	
 <p>① 1 break contact</p> <p>286-368 1 DC 24 V / 5 A</p> <p>286-369 1 DC 48 V / 5 A</p> <p>286-370 1 DC 60 V / 5 A</p>		 <p>② 2 changeover contacts</p> <p>286-510 1 AC 5 V / 7 A</p> <p>286-512 1 AC 24 V / 7 A</p> <p>286-516 1 AC 230 V / 7 A</p>		 <p>② Input AC 230 V negative switching</p> <p>286-704 1 DC 5 V / 500 mA</p> <p>286-706 1 DC 15 V / 500 mA</p> <p>286-708 1 DC 24 V / 500 mA</p>	
 <p>① 1 break contact</p> <p>286-568 1 AC 24 V / 5 A</p>		 <p>④ 4 changeover contacts</p> <p>286-375 1 DC 24 V / 4 A</p>		 <p>② Input AC 230 V positive switching</p> <p>286-754 1 DC 5 V / 500 mA</p> <p>286-756 1 DC 15 V / 500 mA</p> <p>286-758 1 DC 24 V / 500 mA</p>	
 <p>② 1 changeover contact</p> <p>286-302 1 DC 5 V / 7 A</p> <p>286-304 1 DC 24 V / 7 A</p> <p>286-308 1 DC 230 V / 7 A</p>		 <p>④ 4 changeover contacts</p> <p>286-578 1 AC 110/120 V / 4 A</p> <p>286-579 1 AC 230 V / 4 A</p>		 <p>② Input DC 24 V negative switching</p> <p>286-720 1 DC 24 V / 2 A</p> <p>286-721 1 DC 24 V / 5 A</p>	

Accessories, Series 286

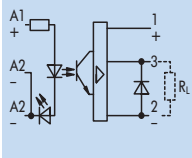
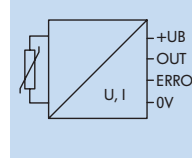
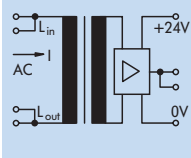
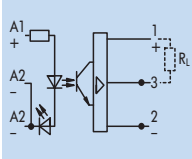
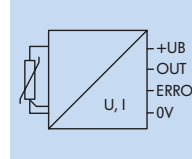
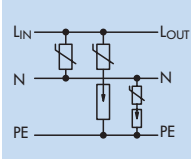
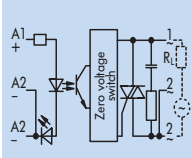
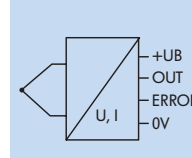
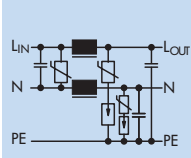
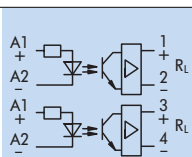

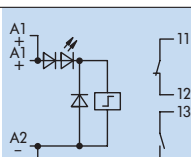
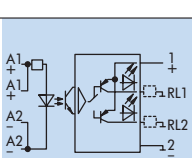
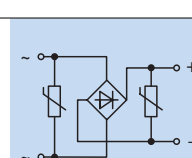
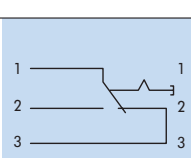
appropriate marking system **WSB/WMB**

	Terminal blocks for pluggable modules	with 2-conductor terminal blocks, separator orange	with 4-conductor terminal blocks, separator orange		
	0.08 – 2.5 mm ² /AWG 28 – 14	12 mm wide ①	280-618 1	12 mm wide ①	280-608 1
		17 mm wide ②	280-619 1	17 mm wide ②	280-609 1
		22 mm wide ③	280-638 1	22 mm wide ③	280-628 1
	Stripped length 8 – 9 mm / 0.33 in			22 mm wide ④	280-628 1
				37 mm wide ④	280-636 1

Pluggable Modules Series 286

<p>Optocoupler</p> <p>⊗ Module width 15 mm / 0.591 in ⊙ Module width 20 mm / 0.787 in</p>	<p>Temperature transducers Bridge rectifier</p> <p>⊗ Module width 15 mm / 0.591 in ⊙ Module width 20 mm / 0.787 in</p>	<p>Surge suppression device Latching relay 1-pole changeover</p> <p>⊗ Module width 15 mm / 0.591 in ⊙ Module width 20 mm / 0.787 in</p>
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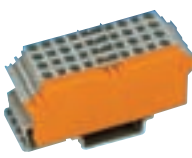
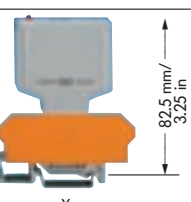


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
 <p>⊗ Input DC 24 V positive switching 286-723 1 DC 24 V / 4 A</p>		 <p>⊗ Temperature transducer 2-wire 286-860 1 0 - 10 V 286-861 1 0 - 20 mA 286-862 1 4 - 20 mA</p>		 <p>⊗ AC current flow monitoring module AC 80 mA - 6 A 286-661 1</p>	
 <p>⊗ Output DC 110 V negative switching 286-726 1 DC 5 V 286-728 1 DC 12 V 286-730 1 DC 24 V</p>		 <p>⊗ Temperature transducer 3-wire 286-870 1 0 - 10 V 286-871 1 0 - 20 mA 286-872 1 4 - 20 mA</p>		 <p>⊗ Surge suppression single-stage suppression 286-836 1 AC/DC 24 V 286-835 1 AC 230 V</p>	
 <p>⊗ Output AC 230 V 286-732 1 DC 5 V 286-733 1 DC 12 V 286-734 1 DC 24 V</p>		 <p>⊗ 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</p>		 <p>⊗ Surge suppression two-stage suppression 286-843 1 AC 110/120 V 286-841 1 DC 230 V 286-842 1 AC 230 V</p>	
 <p>⊗ 2 Inputs 2 x DC 24 V 286-792 1 2 x DC 24 V / 2 x 500 mA</p>		 <p>⊗ Temperature transducer Thermocouple K: 0-1000°C 286-864 1 0 - 10 V 286-866 1 0 - 20 mA 286-868 1 4 - 20 mA</p>		 <p>⊗ Latching relay 1 break and 1 make contact 286-571 1 DC 24 V (no illustration) 286-570 1 AC 230 V</p>	
 <p>⊗ Input DC 24 V 2 inverted outputs 286-790 1 2 x DC 24 V / 500 mA</p>		 <p>⊗ Bridge rectifier with varistor protection 286-830 1 AC 24 V / 1 A 286-840 1 AC 250 V / 1 A</p>		 <p>⊗ Switching module changeover rocker switch 286-895 1 momentary switch 286-896 1</p>	




Accessories, Series 286

appropriate marking system **WSB/WMB**

Dimensions

	Terminal blocks for pluggable modules	with 4-conductor terminal blocks, marker plate			Entire height from upper edge of the carrier rail	
	0.08 - 2.5 mm ² /AWG 28 - 14	15 mm wide ⊙	280-762		1	X = 2-cond. 50 mm / 1.97 in
	Stripped length 8 - 9 mm / 0.33 in	20 mm wide ⊙	280-763		1	4-cond. 73 mm / 2.87 in
		25 mm wide ⊙	280-764	1		






Primary Switch Mode Power Supply Units Series 787

Output voltage DC 12 V 0.08 – 2.5 mm² / AWG 28 – 14  8 – 9 mm / 0.33 in	Output voltage DC 24 V 0.08 – 2.5 mm² / AWG 28 – 14  8 – 9 mm / 0.33 in	Output voltage DC 24 V 0.08 – 2.5 mm² / AWG 28 – 14  8 – 9 mm / 0.33 in
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Output current	Item No.	Pack.-unit pcs	Output current	Item No.	Pack.-unit pcs	Output current	Item No.	Pack.-unit pcs
Primary switch mode power supply units, open circuit and short circuit protected, adjustable output voltage, LED status indication, suitable for DIN 35 rail Input voltage range AC 90 V ... 264 V Rated voltage AC 230 V			Primary switch mode power supply units, open circuit and short circuit protected, adjustable output voltage, LED status indication, suitable for DIN 35 rail Input voltage range AC 90 V ... 264 V Rated voltage AC 230 V			Primary switch mode power supply units, open circuit and short circuit protected, adjustable output voltage, LED status indication, suitable for DIN 35 rail Input voltage range AC 90 V ... 264 V Rated voltage AC 230 V		
DC 2 A	787-601	1	DC 1.3 A	787-602	1	DC 5 A	787-622	1
Dimensions (mm) W x H x D: 40 x 95 x 90			Dimensions (mm) W x H x D: 40 x 95 x 90			Dimensions (mm) W x H x D: 74 x 110 x 140		
			DC 2.5 A	787-612	1			
			Dimension (mm) W x H x D: 56 x 110 x 140					



Additional products	Output current	Item No.	Pack.-unit pcs	Output current	Item No.	Pack.-unit pcs
Fused disconnect terminal block, 8 mm/0.315 in wide 0.08 – 4 mm ² /AWG 28 – 12   8 – 9 mm / 0.33 in see page 1.23	Primary switch mode power supply units, open circuit and short circuit protected, adjustable output voltage, LED status indication, suitable for DIN 35 rail Input voltage range AC 85 V ... 132 V / 176 V ... 264 V Rated voltage AC 230 V			Primary switch mode power supply units, open circuit and short circuit protected, adjustable output voltage, LED status indication, suitable for DIN 35 rail Input voltage range AC 325 V ... 550 V Rated voltage AC 3 x 400 V		
Ground (earth) conductor disconnect term. block, 8 mm/0.315 in wide 0.2 – 6 mm ² /AWG 24 – 10   12–13 mm / 0.49 in see page 1.24	DC 10 A	787-632	1	DC 10 A	787-640	1
	Dimensions (mm) W x H x D: 116 x 128 x 108			Dimensions (mm) W x H x D: 115 x 128 x 100		
				DC 20 A	787-642	1
				Dimensions (mm) W x H x D: 220 x 128 x 95		
Accessories, Series 787 Screwdriver, with partially insulated shaft (3.5 x 0.5) mm  210-620 1				DC 40 A	787-644	1
				Dimensions (mm) W x H x D: 253 x 120 x 110		

Empty Component Plug Housing for Building Custom Circuits Series 280 and 286



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.	Dimensions
-----------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------	-------------------

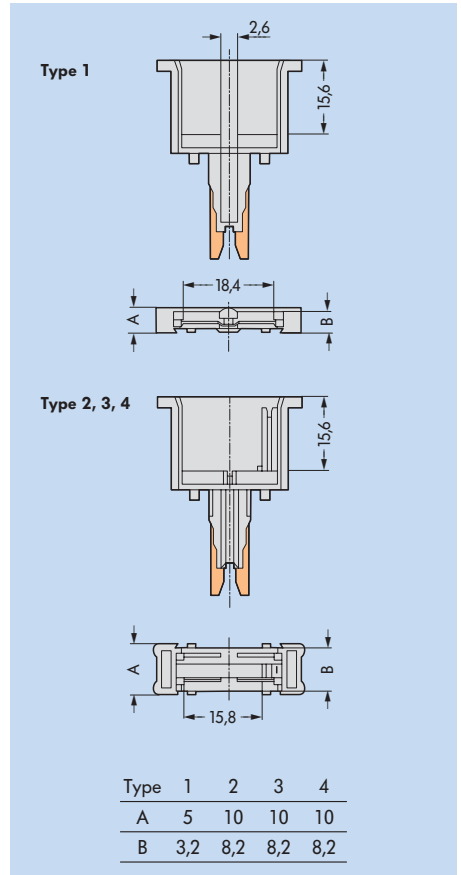


Type 4 3 2 1



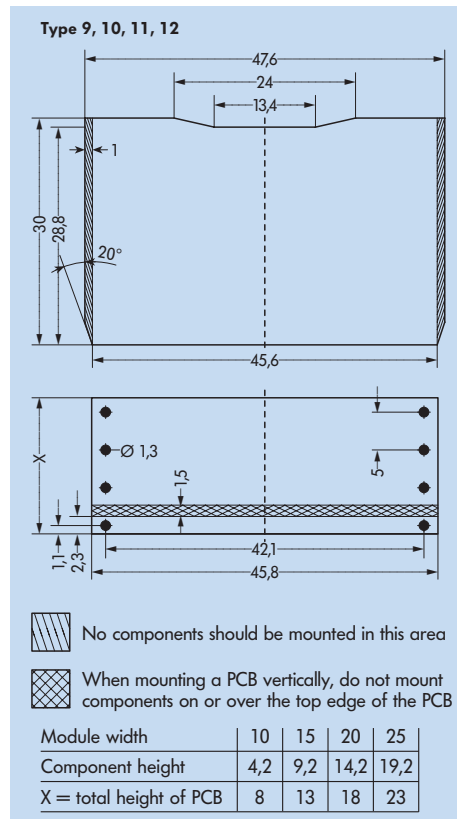
Type 12 11 10 9

Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Empty component plug housing type 1 280-801 100		Empty component plug housing type 9 286-110 1	
2-pole, 5 mm / 0.197 in wide, inside dimensions W x H x D: 3.2 x 15 x 15 mm/0.126 x 0.591 x 0.591 in		4-pole, 10 mm / 0.394 in wide	
type 2 280-802 50		type 10 286-111 1	
2-pole, 10 mm / 0.394 in wide, inside dimensions W x H x D: 8.2 x 15 x 15 mm/0.323 x 0.591 x 0.591 in		6-pole, 15 mm / 0.591 in wide	
type 3 280-804 50		type 11 286-112 1	
4-pole, 10 mm / 0.394 in wide, inside dimensions W x H x D: 8.2 x 15 x 15 mm/0.323 x 0.591 x 0.591 in		8-pole, 20 mm / 0.787 in wide	
Empty component plugs for through term. blocks type 4 280-803 50		type 12 286-113 1	
2-pole, 10 mm / 0.394 in wide, inside dimensions W x H x D: 8.2 x 15 x 15 mm/0.323 x 0.591 x 0.591 in		10-pole, 25 mm / 0.984 in wide	
		PCB dimensions and component height see drawing and table	



Accessories, Series 280 and 286

2-conductor terminal block, 5 mm/0.197 in wide 0.08 – 2.5 mm ² /AWG 28 – 14 8 – 9 mm / 0.33 in grey 280-916 100	Terminal block for pluggable modules, 2-conductor terminal block, polarised, with orange separator 0.08 – 2.5 mm ² /AWG 28 – 14 8 – 9 mm / 0.33 in
3-conductor terminal block, 5 mm/0.197 in wide 0.08 – 2.5 mm ² /AWG 28 – 14 8 – 9 mm / 0.33 in grey 280-610 100	4-pole, 12 mm wide 280-618 1 6-pole, 17 mm wide 280-619 1 8-pole, 22 mm wide 280-638 1 10-pole, 27 mm wide 280-639 1
4-conductor terminal block, 5 mm/0.197 in wide 0.08 – 2.5 mm ² /AWG 28 – 14 8 – 9 mm / 0.33 in grey 280-686 100	Terminal block for pluggable modules, 4-conductor terminal block, polarised, with orange separator 0.08 – 2.5 mm ² /AWG 28 – 14 8 – 9 mm / 0.33 in
2-cond. through term. block, 5 mm/0.197 in wide 0.08 – 2.5 mm ² /AWG 28 – 14 8 – 9 mm / 0.33 in grey 280-901 100	4-pole, 12 mm wide 280-608 1 6-pole, 17 mm wide 280-609 1 8-pole, 22 mm wide 280-628 1 10-pole, 27 mm wide 280-629 1
3-cond. through term. block, 5 mm/0.197 in wide 0.08 – 2.5 mm ² /AWG 28 – 14 8 – 9 mm / 0.33 in grey 280-681 100	1-conductor/1-conductor receptacle terminal blocks for pluggable modules, with orange separator, 0.08 – 2.5 mm²/AWG 28 – 14 8 – 9 mm / 0.33 in
4-cond. through term. block, 5 mm/0.197 in wide 0.08 – 2.5 mm ² /AWG 28 – 14 8 – 9 mm / 0.33 in grey 280-833 100	4 poles, 11.1 mm 769-192/769-319 10 6 poles, 16.1 mm 769-193/769-319 5 8 poles, 21.1 mm 769-194/769-319 5 10 poles, 26.1 mm 769-195/769-319 5
2-cond. term. block, front-entry, 5 mm/0.197 in wide 0.08 – 2.5 mm ² /AWG 28 – 14 8 – 9 mm / 0.33 in grey 280-101 100	Pliers for removing electronic housing cover 210-492 1



6 MULTI CONNECTION SYSTEM MICRO

Description and Handling

Protection against mismatching



Headers, male and female connectors – 100% protected against mismatching

CAGE CLAMP® connection

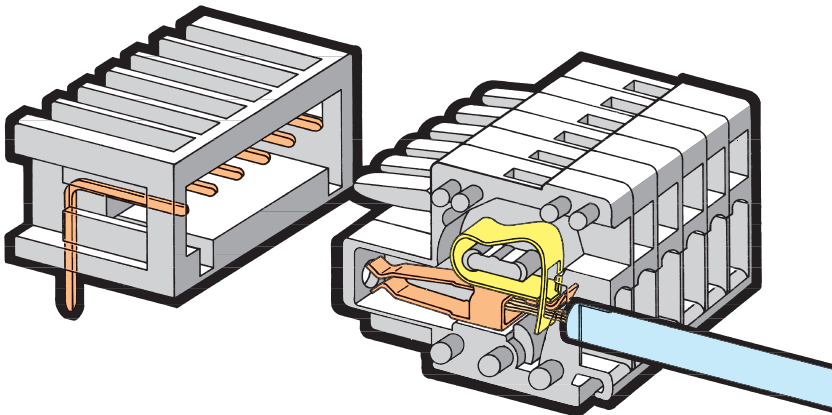


Connection of conductors – side-entry wiring – with screwdriver (2.5 x 0.4) mm



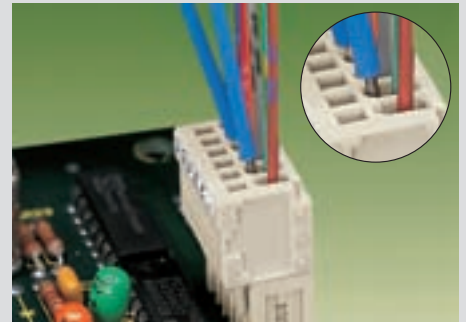
Connection of conductors – front-entry wiring Series 733 – with operating tool 233-332

100% protected against mismatching



MICRO Pin spacing 2.5 mm/0.098 in, series 733

Testing



Testing with test probe 1 mm/0.039 in Ø Item No. 735-500

Marking



Marking with self-adhesive marker strips (customised printing on request)

Coding



Coding of a header – fitting of coding key(s)

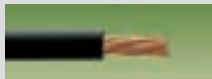


Coding of a female connector – removal of coding finger(s)

CAGE CLAMP® clamps the following copper wires:



solid



stranded



fine-stranded



tip bonded

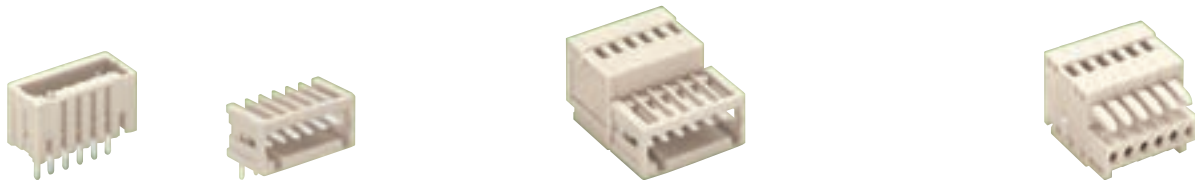
Application



Example: flying lead

MULTI CONNECTION SYSTEM MICRO – 100 % Protected against Mismatching, Headers with Solder Pins; Male and Female Connectors with CAGE CLAMP®, Pin Spacing 2,5 mm/0.098 in

Pin spacing 2.5 mm/0.098 in, light grey 250 V/2.5 kV/2 4 A	Pin spacing 2.5 mm/0.098 in, light grey 0.08 – 0.5 mm ² 250 V/2.5 kV/2 4 A	Pin spacing 2.5 mm/0.098 in, light grey 0.08 – 0.5 mm ² 250 V/2.5 kV/2 4 A
150 V, 4 A	AWG 28 – 20 150 V, 4 A	AWG 28 – 20 150 V, 4 A
5 – 6 mm / 0.22 in		
*		

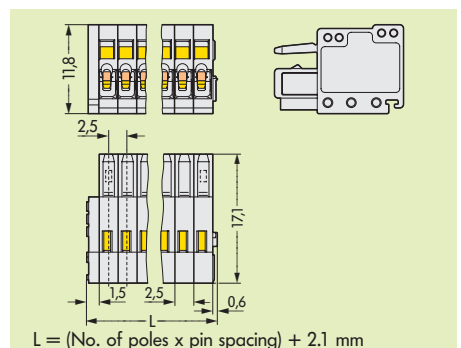
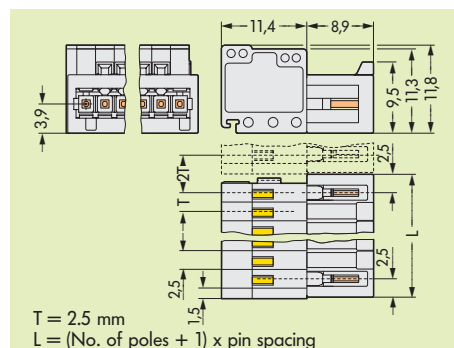
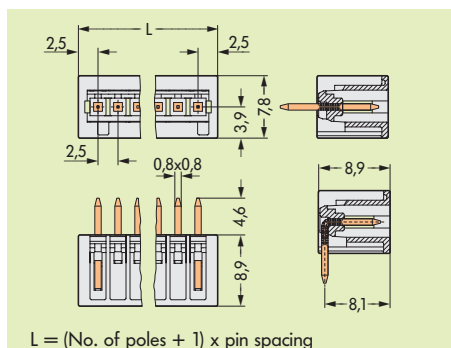


No. of poles	Item No.	Item-No.	No. of poles	Item No.	No. of poles	Item No.		
Headers with solder pins, 100 % protected against mismatching, light grey			Male connectors with CAGE CLAMP®, 100 % protected against mismatching, light grey			Female connectors with CAGE CLAMP®, 100 % protected against mismatching, with coding fingers, light grey		
		solder pin 0.8 mm x 0.8 mm straight right angled						
2	733-332	733-362	2	733-202	2	733-102		
3	733-333	733-363	3	733-203	3	733-103		
4	733-334	733-364	4	733-204	4	733-104		
5	733-335	733-365	5	733-205	5	733-105		
6	733-336	733-366	6	733-206	6	733-106		
7	733-337	733-367	7	733-207	7	733-107		
8	733-338	733-368	8	733-208	8	733-108		
10	733-340	733-370	10	733-210	10	733-110		
12	733-342	733-372	12	733-212	12	733-112		

Accessories, Series 733

Coding key, snap-on type, light grey 733-330	Operating tool, partially insulated 233-335 of insulating material 233-332	Operating tool, partially insulated 233-335 of insulating material 233-332
	Coding key, snap-on type, light grey 733-330	Screwdriver, with partially insulated shaft (2.5 x 0.4) mm 210-619
<p>Note: These connectors can only be mated and unmated at voltages below 42 V and in the "No load" condition.</p> <p>For mating and unmating at low power values, please request data.</p>	Marker card, computer marked 100 self-adhesive strips per card, marking 1 – 16 (400x) 210-331/0250-0202	Marker card, computer marked 100 self-adhesive strips per card, marking 1 – 16 (400x) 210-331/0250-0202
	Strain relief plate, assembled additional item no. width 6 mm 12.5 mm .../032-000 .../033-000	Strain relief plate, assembled additional item no. width 6 mm 12.5 mm .../032-000 .../033-000

Dimensions (in mm) Diameter of drilled hole: 1.1^{+0.1} mm



* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

MULTI CONNECTION SYSTEM MINI

Description and Handling

CAGE CLAMP® connection



Connection of conductors – side-entry wiring – with screwdriver (2.5 x 0.4) mm

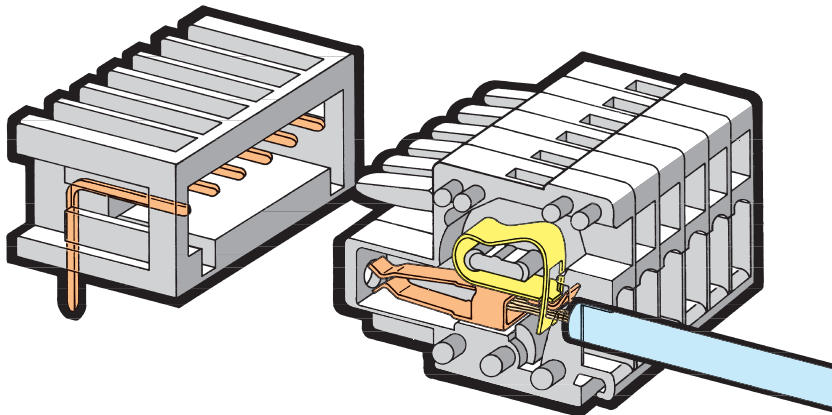


Connection of conductors – front-entry wiring series 734 – with screwdriver (2.5 x 0.4) mm



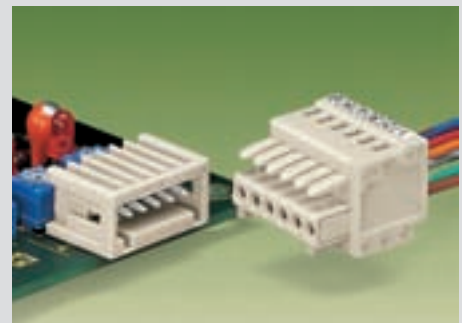
Connection of conductors – side-entry wiring with snap-on lever

100 % protected against mismatching



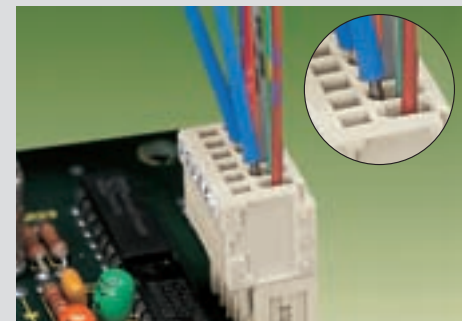
MINI Pin spacing 3.5 mm, series 734
3.81 mm, series 734

Protection against mismatching



Headers, male and female connectors – 100 % protected against mismatching

Testing



Testing with test probe 1 mm/0.039 in Ø
Item No. 735-500

Coding



Coding of a header – fitting of coding key(s)

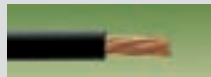


Coding of a female connector – removal of coding finger(s)

CAGE CLAMP® clamps the following copper wires:



solid



stranded



fine-stranded



tip bonded

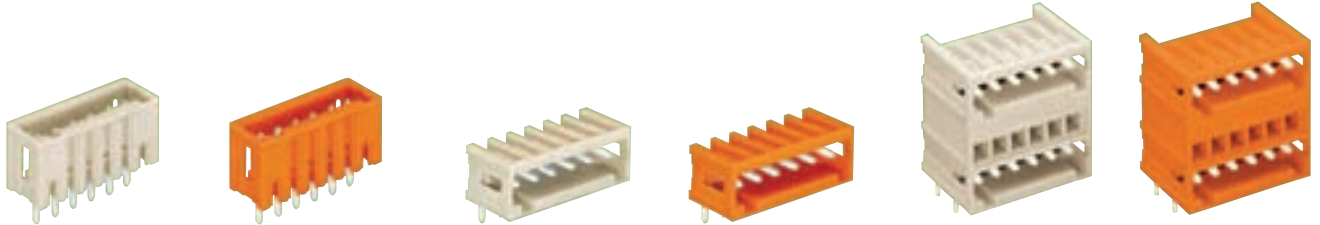
Marking



Marking with self-adhesive marker strips (customised printing on request)

MULTI CONNECTION SYSTEM MINI – 100 % Protected against Mismatching, Headers with Solder Pins; Double Deck Headers with Solder Pins, Pin Spacings 3.5 mm/0.138 in and 3.81 mm/0.15 in

Pin spacing 3.5 mm/0.138 in, light grey Pin spacing 3.81 mm/0.15 in, orange 250 V/2.5 kV/2 10 A 300 V, 10 A 300 V, 10 A	Pin spacing 3.5 mm/0.138 in, light grey Pin spacing 3.81 mm/0.15 in, orange 250 V/2.5 kV/2 10 A 300 V, 10 A 300 V, 10 A	Pin spacing 3.5 mm/0.138 in, light grey Pin spacing 3.81 mm/0.15 in, orange 250 V/2.5 kV/2 10 A 300 V, 10 A 300 V, 10 A
*	*	*

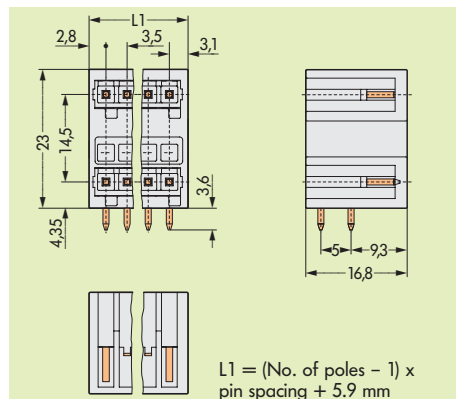
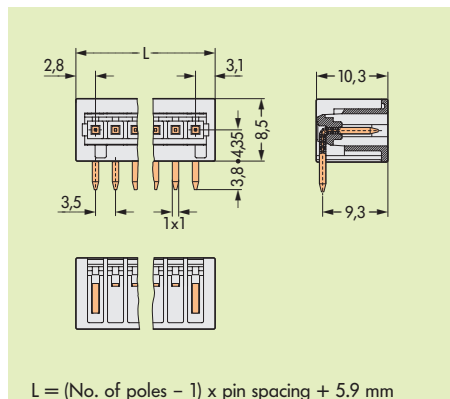
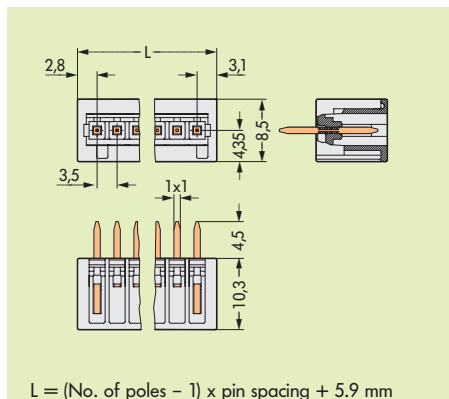


No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.
Headers with solder pins, 100 % protected against mismatching, straight solder pin, 1 mm x 1 mm			Headers with solder pins, 100 % protected against mismatching, right angle solder pin, 1 mm x 1 mm			Double deck headers without support, 100 % protected against mismatching, right angle solder pin, 1 mm x 1 mm		
	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 grey	orange		light grey	orange		light grey	orange
2	734-132	734-232	2	734-162	734-262	2	734-402	734-432
:	:	:	:	:	:	3	734-403	734-433
6	734-136	734-236	6	734-166	734-266	4	734-404	734-434
7	734-137	–	7	734-167	–	5	734-405	734-435
8	734-138	734-238	8	734-168	734-268	6	734-406	734-436
9	734-139	734-239	9	734-169	734-269	7	734-407	–
10	734-140	734-240	10	734-170	734-270	8	734-408	734-438
12	734-142	734-242	12	734-172	734-272	9	734-409	734-439
13	734-143	–	13	734-173	–	10	734-410	734-440
14	–	734-244	14	–	734-274	12	734-412	734-442
16	734-146	734-246	16	734-176	734-276			
18	734-148	–	18	734-178	–			
20	734-150	734-250	20	734-180	734-280			
24	734-154	–	24	734-184	–			

Accessories, Series 734

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

Dimensions (in mm) Diameter of drilled hole: 1.4^{+0.1} mm

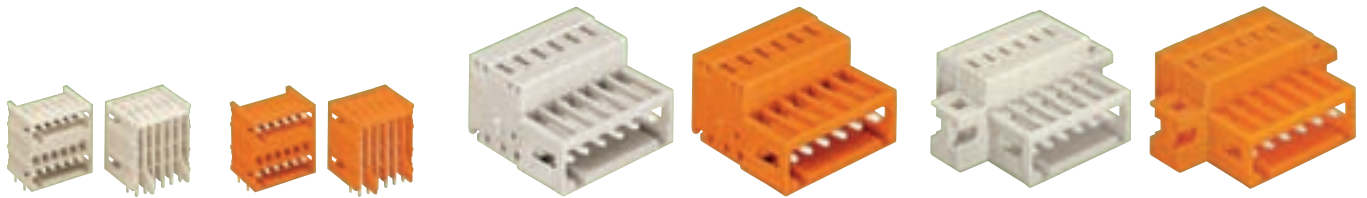


* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

MULTI CONNECTION SYSTEM MINI – 100 % Protected against Mismatching, Double Deck Headers with Solder Pins; Male Connectors with CAGE CLAMP®, Pin Spacings 3.5 mm/0.138 in and 3.81 mm/0.15 in

<p>Pin spacing 3.5 mm/0.138 in, light grey Pin spacing 3.81 mm/0.15 in, orange 250 V/2.5 kV/2 10 A</p>	<p>Pin spacing 3.5 mm/0.138 in, light grey Pin spacing 3.81 mm/0.15 in, orange 0.08 – 1.5 mm² 250 V/2.5 kV/2 10 A</p>	<p>Pin spacing 3.5 mm/0.138 in, light grey Pin spacing 3.81 mm/0.15 in, orange 0.08 – 1.5 mm² 250 V/2.5 kV/2 10 A</p>
<p>300 V, 10 A ⚡ 300 V, 10 A ⚡</p>	<p>AWG 28 – 14 ** 300 V, 10 A ⚡ 300 V, 10 A ⚡</p>	<p>AWG 28 – 14 ** 300 V, 10 A ⚡ 300 V, 10 A ⚡</p>
<p>* CCA GL BV LR ABS</p>	<p>* CCA GL BV LR ABS</p>	<p>* CCA GL BV LR ABS</p>



No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.		
Double deck headers with support, 100 % protected against mismatching, right angle solder pin, 1 mm x 1 mm				Male connectors with CAGE CLAMP®, 100 % protected against mismatching,				Male connectors with CAGE CLAMP® and fixing flanges, 100 % protected against mismatching			
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 grey		orange		light grey		orange		light grey		orange	
2	734-402/001-000	2	734-432/001-000	2	734-302	2	734-332	2	734-302/019-000	2	734-332/019-000
3	734-403/001-000	3	734-433/001-000	3	734-303	3	734-333	3	734-303/019-000	3	734-333/019-000
4	734-404/001-000	4	734-434/001-000	:	:	:	:	:	:	:	:
5	734-405/001-000	5	734-435/001-000	9	734-309	6	734-336	9	734-309/019-000	6	734-336/019-000
6	734-406/001-000	6	734-436/001-000	10	734-310	8	734-336	10	734-310/019-000	8	734-338/019-000
7	734-407/001-000	-	-	12	734-312	9	734-339	12	734-312/019-000	9	734-339/019-000
8	734-408/001-000	8	734-438/001-000	13	734-313	10	734-340	13	734-313/019-000	10	734-340/019-000
9	734-409/001-000	9	734-439/001-000	16	734-316	12	734-342	16	734-316/019-000	12	734-342/019-000
10	734-410/001-000	10	734-440/001-000	18	734-318	14	734-344	18	734-318/019-000	14	734-344/019-000
12	734-412/001-000	12	734-442/001-000	20	734-320	16	734-346	20	734-320/019-000	16	734-346/019-000
				24	734-324	20	734-350	24	734-324/019-000	20	734-350/019-000

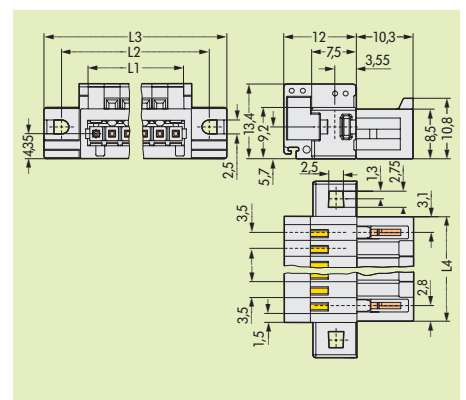
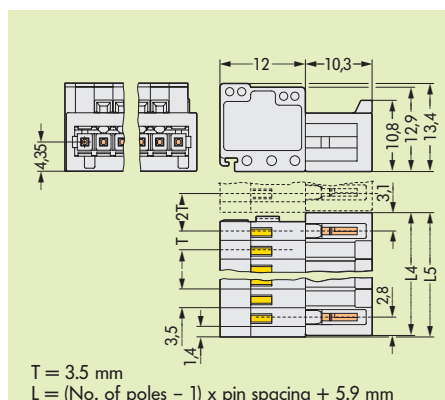
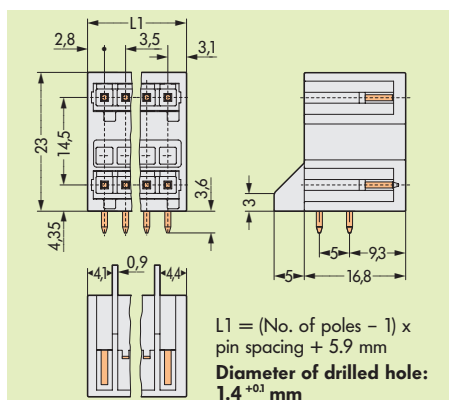
Special accessories

<p>Coding key, to be snapped above bottom level, light grey 734-400</p>	<p>Operating lever, for male connectors with CAGE CLAMP® 734-230</p>	<p>Screw with nut, M 2 x 12, for fixing elements 231-195</p>
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General accessories

<p>Coding key, to be snapped above top level, light grey 734-130</p>	<p>Screwdriver, with partially insulated shaft (2.5 x 0.4) mm 210-619 1</p>	<p>Marker card, computer marked, 80 self-adhesive strips per card, direct printing on request</p>
<p>Note: These connectors can only be mated and unmated at voltages below 42 V and in the "No load" condition.</p> <p>For mating and unmating at low power values, please request data.</p>	<p>Test pin, 1 mm/0.039 in Ø, 735-500 1</p>	<p>Marking</p>
	<p>Strain relief plates, see page 6.17</p>	<p>1 – 16 (240x) Spac. 3.5 mm 210-332/0350-0202</p> <p>17 – 32 (240x) Spac. 3.5 mm 210-332/0350-0204</p> <p>1 – 16 (160x) Spac. 3.81 mm 210-332/0381-0202</p> <p>17 – 32 (160x) Spac. 3.81 mm 210-332/0381-0204</p>

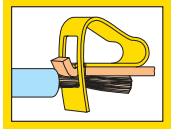
Dimensions (in mm) $L_1 = \text{No. of poles} \times \text{pin spacing}$ $L_2 = L_1 + 8.8 \text{ mm}$ $L_3 = L_1 + 14.8 \text{ mm}$ $L_4 = (\text{No. of poles} - 1) \times \text{pin spacing} + 5.9 \text{ mm}$



* You can find approvals on the Internet at www.wago.com. Technical explanations and abbreviations see page 10.2.

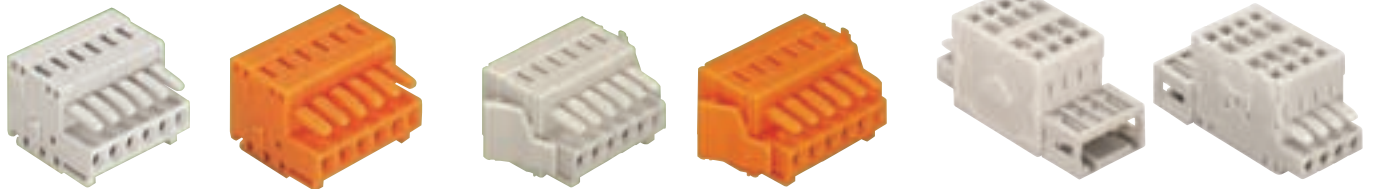
** AWG 14: THHN, THWN

MULTI CONNECTION SYSTEM MINI – 100 % Protected against Mismatching, Female Connectors and Combi Strip with CAGE CLAMP®, Pin Spacings 3.5 mm/0.138 in and 3.81 mm/0.15 in



6
5

<p>Pin spacing 3.5 mm/0.138 in, light grey Pin spacing 3.81 mm/0.15 in, orange 0.08 – 1.5 mm² AWG 28 – 14** 250 V/2.5 kV/2 300 V, 10 A 10 A 300 V, 10 A </p> <p>* </p>	<p>Pin spacing 3.5 mm/0.138 in, light grey Pin spacing 3.81 mm/0.15 in, orange 0.08 – 1.5 mm² AWG 28 – 14** 250 V/2.5 kV/2 300 V, 10 A 10 A 300 V, 10 A </p> <p>* </p>	<p>Pin spacing 3.5 mm/0.138 in, light grey 0.08 – 1.5 mm² AWG 28 – 14** 250 V/2.5 kV/2 300 V, 10 A 10 A 300 V, 10 A </p> <p>* </p>
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No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.				
Female connectors with CAGE CLAMP®, 100 % protected against mismatching, with coding fingers				Female connectors with CAGE CLAMP® and locking levers, 100 % protected against mismatching, with coding fingers				Combi strip with CAGE CLAMP® connection, 100 % protected against mismatching, with coding fingers			
pin spacing 3.5 mm		3.81 mm		pin spacing 3.5 mm		3.81 mm		pin spacing 3.5 mm			
light grey		orange		light grey		orange		light grey			
2	734-102	2	734-202	2	734-102/037-000	2	734-202/037-000	2	734-362		
3	734-103	3	734-203	3	734-103/037-000	3	734-203/037-000	3	734-363		
:	:	:	:	:	:	:	:	4	734-364		
9	734-109	6	734-206	9	734-109/037-000	6	734-206/037-000	5	734-365		
10	734-110	8	734-208	10	734-110/037-000	8	734-208/037-000	6	734-366		
12	734-112	9	734-209	12	734-112/037-000	9	734-209/037-000	7	734-367		
13	734-113	10	734-210	13	734-113/037-000	10	734-210/037-000	8	734-368		
16	734-116	12	734-212	16	734-116/037-000	12	734-212/037-000	9	734-369		
18	734-118	14	734-214	18	734-118/037-000	14	734-214/037-000	10	734-370		
20	734-120	16	734-216	20	734-120/037-000	16	734-216/037-000	12	734-372		
24	734-124	20	734-220	24	734-124/037-000	20	734-220/037-000				

Special accessories

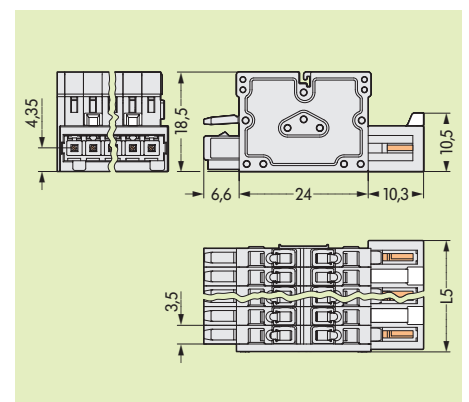
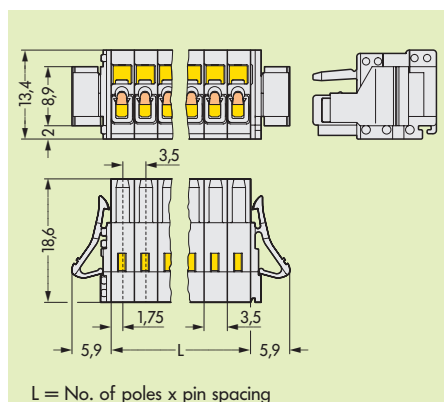
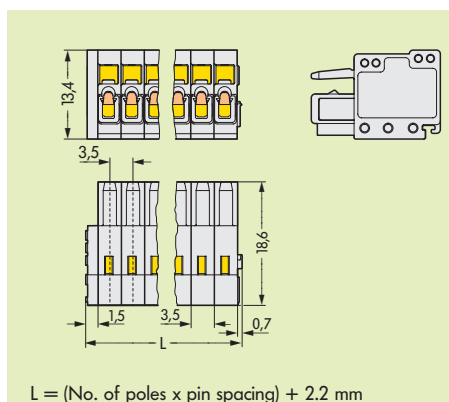
	Operating lever , for male connectors with CAGE CLAMP® 734-230		Coding key , to be snapped above top level, light grey 734-130
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General accessories

	Screwdriver , with partially insulated shaft (2,5 x 0,4) mm 210-619 1		Marker card , computer marked, 80 self-adhesive strips per card, direct printing on request
	Test pin , 1 mm/0.039 in Ø 735-500 1	Marking	
	Strain relief plates , see page 6.17	1 – 16 (240x) Spac. 3.5 mm	210-332/0350-0202
		17 – 32 (240x) Spac. 3.5 mm	210-332/0350-0204
		1 – 16 (160x) Spac. 3.81 mm	210-332/0381-0202
		17 – 32 (160x) Spac. 3.81 mm	210-332/0381-0204

Dimensions (in mm)

$$L_5 = L_4 + 0.45 \text{ mm}$$



MULTI CONNECTION SYSTEM MIDI – 100 % Protected against Mismatching

Description and Handling

CAGE CLAMP® connection



Connection of conductors – front-entry



Connection of conductors – side-entry



Connection of conductors – side-entry wiring with snap-on lever. Item No. 231-131

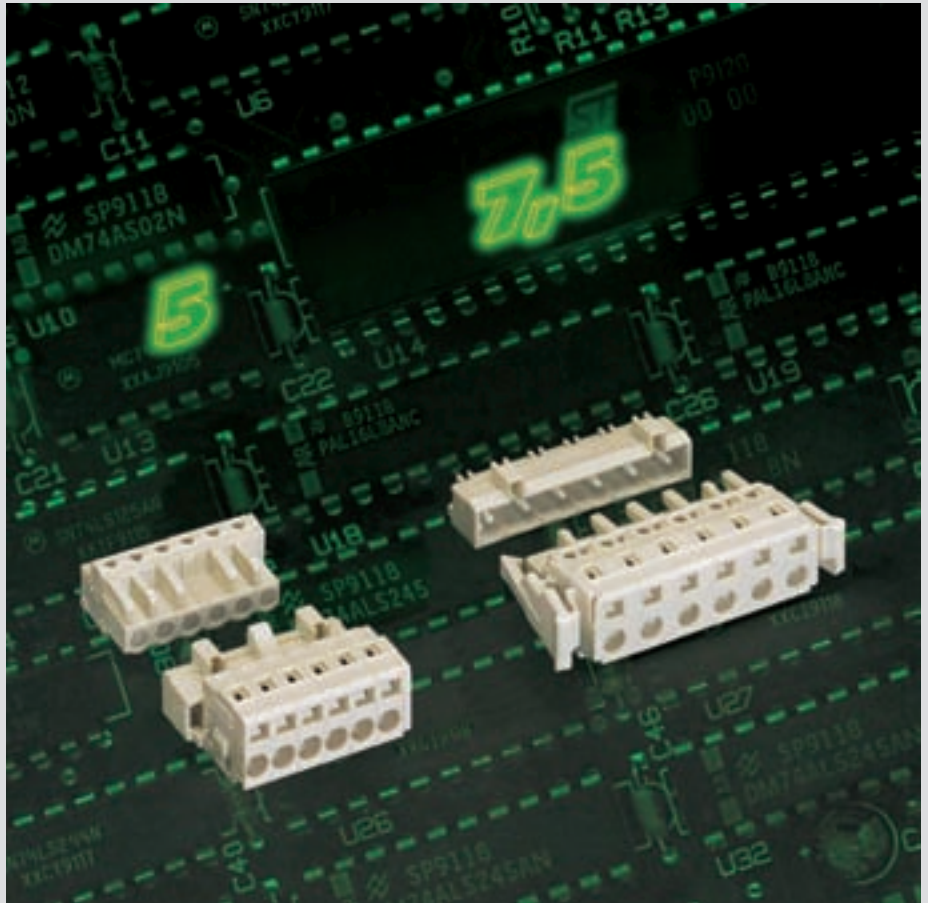
Insulation stop



Pin spacing 10 mm/0.394 in



Pin spacing 10 mm/0.395 in on request



Coding

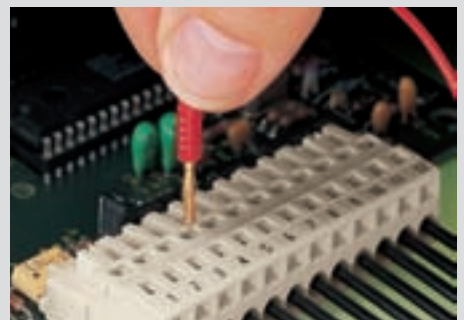


Coding of a header – fitting of coding key(s)



Coding of a female connector – removal of coding finger(s)

Testing

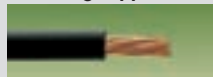


Testing with test plug 2 mm Ø oder 2.3 mm Ø

CAGE CLAMP® clamps the following copper wires:



solid



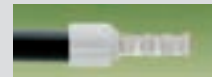
stranded



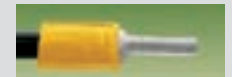
fine-stranded



tip bonded



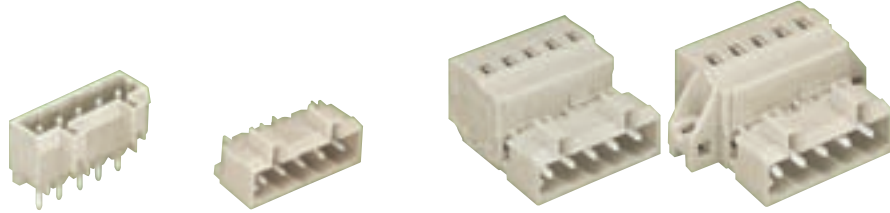
with crimped ferrule



with crimped pin terminal

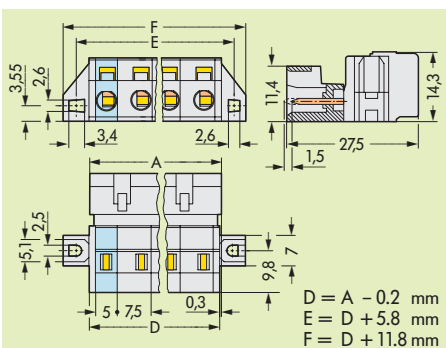
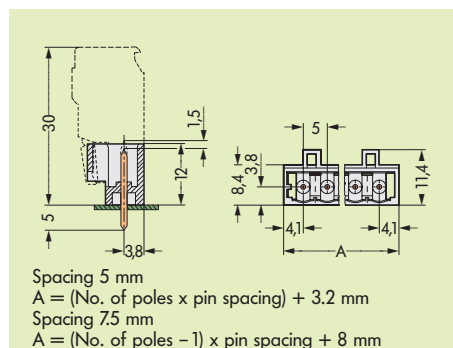
MULTI CONNECTION SYSTEM MIDI – 100 % Protected against Mismatching, Headers with Solder Pins; Male Connectors with CAGE CLAMP®, Pin Spacings 5 mm/0.197 in and 7.5 mm/0.295 in

Pin spacing 5 mm/0.197 in, light grey 250 V/4 kV/3 300 V, 10 A 12 A 300 V, 15 A Pin spacing 7.5 mm/0.295 in, light grey 400 V/6 kV/3 300 V, 10 A 12 A 300 V, 15 A *	Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm ² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A 12 A 300 V, 15 A Pin spacing 7.5 mm/0.295 in, light grey 400 V/6 kV/3 300 V, 15 A *	Accessories
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No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	Accessories, Series 721 and 723	Item No.
Closed end headers, 100% protected against mismatching, light grey solder pin 1 mm x 1 mm			Male connectors with CAGE CLAMP®, 100% protected against mismatching, light grey			Marker strips, self-adhesive	
Pin spacing 5 mm/0.197 in			Pin spacing 5 mm/0.197 in			Spacing 5 mm/0.197 in	
	straight	angled			with fixing flanges	1-12 (300x) 210-331/0500-0103	
2	721-132/001-000	721-432/001-000	2	721-602	721-602/019-000	13-24 (300x) 210-331/0500-0104	
3	721-133/001-000	721-433/001-000	3	721-603	721-603/019-000	Spacing 7.5 mm/0.295 in	
4	721-134/001-000	721-434/001-000	4	721-604	721-604/019-000	1-16 (100x) 210-331/0750-0202	
5	721-135/001-000	721-435/001-000	5	721-605	721-605/019-000	Coding key, snap-on type,	
6	721-136/001-000	721-436/001-000	6	721-606	721-606/019-000	Spacing 5 mm/0.197 in	
7	721-137/001-000	721-437/001-000	7	721-607	721-607/019-000	light grey 231-129	
8	721-138/001-000	721-438/001-000	8	721-608	721-608/019-000	Spacing 7.5 mm/0.295 in	
9	721-139/001-000	721-439/001-000	9	721-609	721-609/019-000	light grey 231-130	
10	721-140/001-000	721-440/001-000	10	721-610	721-610/019-000	Insulation stop, 5 pcs/strip	
12	721-142/001-000	721-442/001-000	12	721-612	721-612/019-000	Spacing 5 mm/0.197 in	
14	721-144/001-000	721-444/001-000	14	721-614	721-614/019-000	0.08 - 0.2 mm ² ①	
16	721-146/001-000	721-446/001-000	16	721-616	721-616/019-000	white 231-670	
20	721-150/001-000	721-450/001-000	20	721-620	721-620/019-000	0.25 - 0.5 mm ²	
Pin spacing 7.5 mm/0.295 in			Pin spacing 7.5 mm/0.295 in			light grey 231-671	
	straight	angled			with fixing flanges	0.75 - 1 mm ²	
2	721-232/001-000	721-832/001-000	2	723-602	723-602/019-000	dark grey 231-672	
3	721-233/001-000	721-833/001-000	3	723-603	723-603/019-000	Spacing 7.5 mm/0.295 in	
4	721-234/001-000	721-834/001-000	4	723-604	723-604/019-000	0.08 - 0.2 mm ² ①	
5	721-235/001-000	721-835/001-000	5	723-605	723-605/019-000	white 231-673	
6	721-236/001-000	721-836/001-000	6	723-606	723-606/019-000	0.25 - 0.5 mm ²	
7	721-237/001-000	721-837/001-000	7	723-607	723-607/019-000	light grey 231-674	
8	721-238/001-000	721-838/001-000	8	723-608	723-608/019-000	0.75 - 1 mm ²	
9	721-239/001-000	721-839/001-000	9	723-609	723-609/019-000	dark grey 231-675	
10	721-240/001-000	721-840/001-000	10	723-610	723-610/019-000	① 0.2 mm²"s" (0.14 mm²"f-st")	
11	721-241/001-000	721-841/001-000	11	723-611	723-611/019-000	Fixing element, horizontal,	
12	721-242/001-000	721-842/001-000	12	723-612	723-612/019-000	grey 231-193	

Dimensions (in mm) Diameter of drilled hole: 1.4^{+0.1} mm (solder pin 1 mm x 1 mm)



Fixing element, horizontal,	grey	231-193
Tapping screw,	B 2.2 x 13	231-194
	B 2.2 x 9.5	209-147
	Fixing hole Ø 1.8 mm	
Screw M 2 x 12 with nut		231-195
	for fixing element	
Test plug, with cable 500 mm/1'7.7" long	2 mm Ø	210-136 red
	2.3 mm Ø	210-137 yellow

* You can find approvals on the Internet at www.wago.com. Technical explanations and abbreviations see page 10.2.

** AWG 12: THHN, THWN

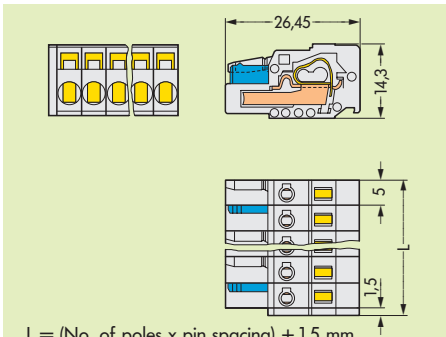
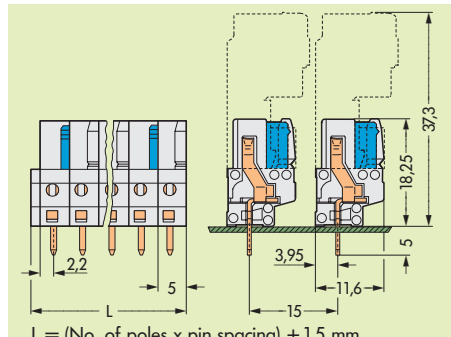
MULTI CONNECTION SYSTEM **MIDI** – 100 % Protected against Mismatching, Female Connectors with Solder Pins, Pin Spacings 5 mm/0.197 in and 7.5 mm/0.295 in

Pin spacing 5 mm/0.197 in, light grey 250 V/4 kV/3 300 V, 10 A 12 A 300 V, 15 A	Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm ² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A 16 A	Accessories
Pin spacing 7.5 mm/0.295 in, light grey 400 V/6 kV/3 300 V, 10 A *	Pin spacing 7.5 mm/0.295 in, light grey 400 V/6 kV/3 300 V, 10 A *	



No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	Accessories, Series 721 and 722	Item No.
Female connectors with solder pins, 100 % protected against mismatching, with coding fingers, with two latches, light grey, solder pin 0.6 mm x 1 mm			Female connectors with CAGE CLAMP®, 100 % protected against mismatching, with coding fingers, with two latches, light grey,			Marker strips, 100 self-adhesive strips	
Pin spacing 5 mm/0.197 in			Pin spacing 5 mm/0.197 in			Spacing 5 mm/0.197 in	
	straight	angled		with locking device		1-12 (300x) 210-331/0500-0103 13-24 (300x) 210-331/0500-0104	
2***	722-132	722-232	2***	721-102/026-000	721-102/037-000	Spacing 7.5 mm/0.295 in 1-16 (100x) 210-331/0750-0202	
3	722-133	722-233	3	721-103/026-000	721-103/037-000	Insulation stop, 5 pcs/strip	
4	722-134	722-234	4	721-104/026-000	721-104/037-000	Spacing 5 mm/0.197 in 0.08 - 0.2 mm ² white 231-670 0.25 - 0.5 mm ² light grey 231-671 0.75 - 1 mm ² dark grey 231-672	
5	722-135	722-235	5	721-105/026-000	721-105/037-000	Spacing 7.5 mm/0.295 in 0.08 - 0.2 mm ² white 231-673 0.25 - 0.5 mm ² light grey 231-674 0.75 - 1 mm ² dark grey 231-675	
6	722-136	722-236	6	721-106/026-000	721-106/037-000	① 0.2 mm²"s" (0.14 mm²"f-st")	
:	:	:	:	:	:	Test plug for female connectors, with CAGE CLAMP®	
10	722-140	722-240	10	721-110/026-000	721-110/037-000	pin spacings 5 mm and 5.08 mm 231-661	
12	722-142	722-242	12	721-112/026-000	721-112/037-000	pin spacings 7.5 mm and 7.62 mm 231-662	
14	722-144	722-244	14	721-114/026-000	721-114/037-000		
16	722-146	722-246	16	721-116/026-000	721-116/037-000		
20	722-150	722-250	20	721-120/026-000	721-120/037-000		
Pin spacing 7.5 mm/0.295 in			Pin spacing 7.5 mm/0.295 in				
	straight	angled		with locking device			
2***	722-732	722-832	2***	721-202/026-000	721-202/037-000	Test plug, with cable 500 mm/1'7.7" long 2 mm Ø 210-136 red 2.3 mm Ø 210-137 yellow	
3	722-733	722-833	3	721-203/026-000	721-203/037-000	Operating tool, for female connectors and male connectors with CAGE CLAMP® 210-250	
4	722-734	722-834	4	721-204/026-000	721-204/037-000	Operating lever, loose, for female connectors and male connectors with CAGE CLAMP® 231-131	
5	722-735	722-835	5	721-205/026-000	721-205/037-000		
6	722-736	722-836	6	721-206/026-000	721-206/037-000		
7	722-737	722-837	7	721-207/026-000	721-207/037-000		
8	722-738	722-838	8	721-208/026-000	721-208/037-000		
9	722-739	722-839	9	721-209/026-000	721-209/037-000		
10	722-740	722-840	10	721-210/026-000	721-210/037-000		
11	722-741	722-841	11	721-211/026-000	721-211/037-000		
12	722-742	722-842	12	721-212/026-000	721-212/037-000		

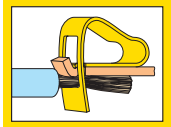
Dimensions (in mm) Diameter of drilled hole: 1.3^{+0.1}mm



* You can find approvals on the Internet at www.wago.com.
 Technical explanations and abbreviations see page 10.2.

** AWG 12: THHN, THWN

MULTI CONNECTION SYSTEM MIDI – 100% Protected against Mismatching, Female Connectors with CAGE CLAMP®, Pin Spacing 5 mm/0.197 in and 7.5 mm/0.295 in



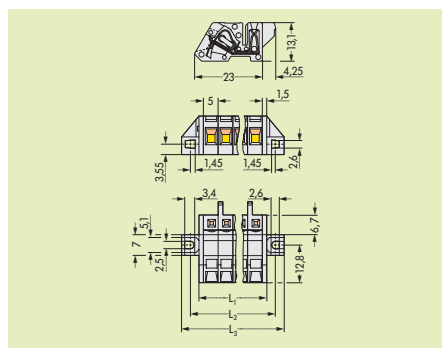
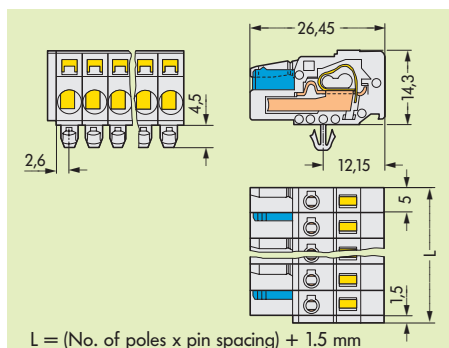
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<p>Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A 12 A 300 V, 15 A </p> <p>Pin spacing 7.5 mm/0.295 in, light grey 400 V/6 kV/3 300 V, 15 A </p> <p>* </p>	<p>Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A 12 A 300 V, 15 A </p> <p>Pin spacing 7.5 mm/0.295 in, light grey 400 V/6 kV/3 300 V, 15 A </p> <p>* </p>	<p>Accessories</p>
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No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	Accessories, Series 721	Item No.
Female connectors with CAGE CLAMP® and fixing flanges for panel mounting, 100% protected against mismatching, with coding fingers, with two latches, for screw or similar methods of fixing, light grey and snap-in mounting feet, for plate thickness 0.6 mm – 1.2 mm, fixing hole Ø 3.5 mm, (or with mounting adapter 209-137 for DIN 35 rail)			Angled female connectors with CAGE CLAMP® and fixing flanges for panel mounting, 100% protected against mismatching, with two latches, for screw or similar methods of fixing, light grey and snap-in mounting feet, for plate thickness 0.6 mm – 1.2 mm, fixing hole Ø 3.5 mm			Marker strips, 100 self-adhesive strips	
Pin spacing 5 mm/0.197 in			Pin spacing 5 mm/0.197 in			Spacing 5 mm/0.197 in	
with fixing flanges		with mounting feet	with fixing flanges		with mounting feet	1–12 (300x) 210-331/0500-0103 13–24 (300x) 210-331/0500-0104	
2***	721-102/031-000	721-102/008-000	2	721-302/031-000	721-302/008-000	Spacing 7.5 mm/0.295 in	
3	721-103/031-000	721-103/008-000	3	721-303/031-000	721-303/008-000	1–16 (100x) 210-331/0750-0202	
4	721-104/031-000	721-104/008-000	4	721-304/031-000	721-304/008-000	Insulation stop, 5 pcs/strip	
5	721-105/031-000	721-105/008-000	5	721-305/031-000	721-305/008-000	Spacing 5 mm/0.197 in	
6	721-106/031-000	721-106/008-000	6	721-306/031-000	721-306/008-000	0.08–0.2 mm ² 231-670 0.25–0.5 mm ² light grey 231-671 0.75–1 mm ² dark grey 231-672	
:	:	:	:	:	:	Spacing 7.5 mm/0.295 in	
10	721-110/031-000	721-110/008-000	10	721-310/031-000	721-310/008-000	0.08–0.2 mm ² 231-673 white 231-673 0.25–0.5 mm ² light grey 231-674 0.75–1 mm ² dark grey 231-675	
12	721-112/031-000	721-112/008-000	12	721-312/031-000	721-312/008-000	① 0.2 mm² "s" (0.14 mm² "f-st")	
14	721-114/031-000	721-114/008-000	14	721-314/031-000	721-314/008-000	Mounting adapter, for DIN 35 rail,	
16	721-116/031-000	721-116/008-000	16	721-316/031-000	721-316/008-000	grey 209-137 3 or more poles	
20	721-120/031-000	721-120/008-000	20	721-320/031-000	721-320/008-000	Tapping screw,	
Pin spacing 7.5 mm/0.295 in			Pin spacing 7.5 mm/0.295 in			B 2.2 x 9.5 209-147 fixing hole Ø 1.8 mm	
with fixing flanges		with mounting feet	with fixing flanges		with mounting feet	Test plug, with cable 500 mm/1'7.7" long	
2***	721-202/031-000	721-202/008-000	2	721-332/031-000	721-332/008-000	2 mm Ø 210-136 red 2.3 mm Ø 210-137 yellow	
3	721-203/031-000	721-203/008-000	3	721-333/031-000	721-333/008-000	Countersunk screw, M 2 x 12 not offered by WAGO	
4	721-204/031-000	721-204/008-000	4	721-334/031-000	721-334/008-000	Screwdriver, with partially insulated shaft (3.5 x 0.5) mm 210-620	
5	721-205/031-000	721-205/008-000	5	721-335/031-000	721-335/008-000		
6	721-206/031-000	721-206/008-000	6	721-336/031-000	721-336/008-000		
:	:	:	:	:	:		
11	721-211/031-000	721-211/008-000	11	721-341/031-000	721-341/008-000		
12	721-212/031-000	721-212/008-000	12	721-342/031-000	721-342/008-000		
*** one latch only							
Dimensions L ₁ = (No. of poles x pin spacing) + 3 mm L ₂ = (No. of poles x pin spacing) + 8 mm L ₃ = (No. of poles x pin spacing) + 14.8 mm							



Please find the entire product range in our General Catalogue W4, Volume 2. More information at www.wago.com.

6

6 MULTI CONNECTION SYSTEM *MIDI*

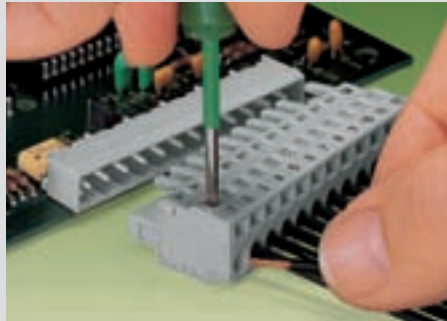
Description and Handling

10

CAGE CLAMP® connection



Connection of conductors – front-entry

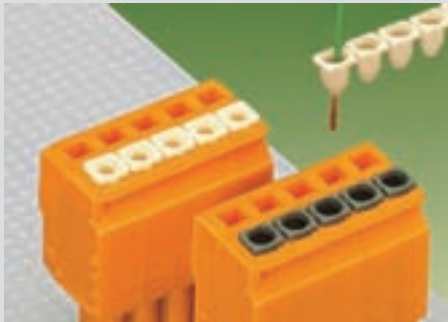


Connection of conductors – side-entry

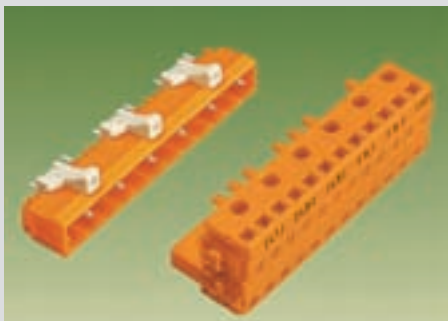


Connection of conductors – side-entry wiring with snap-on lever. Item No. 231-131

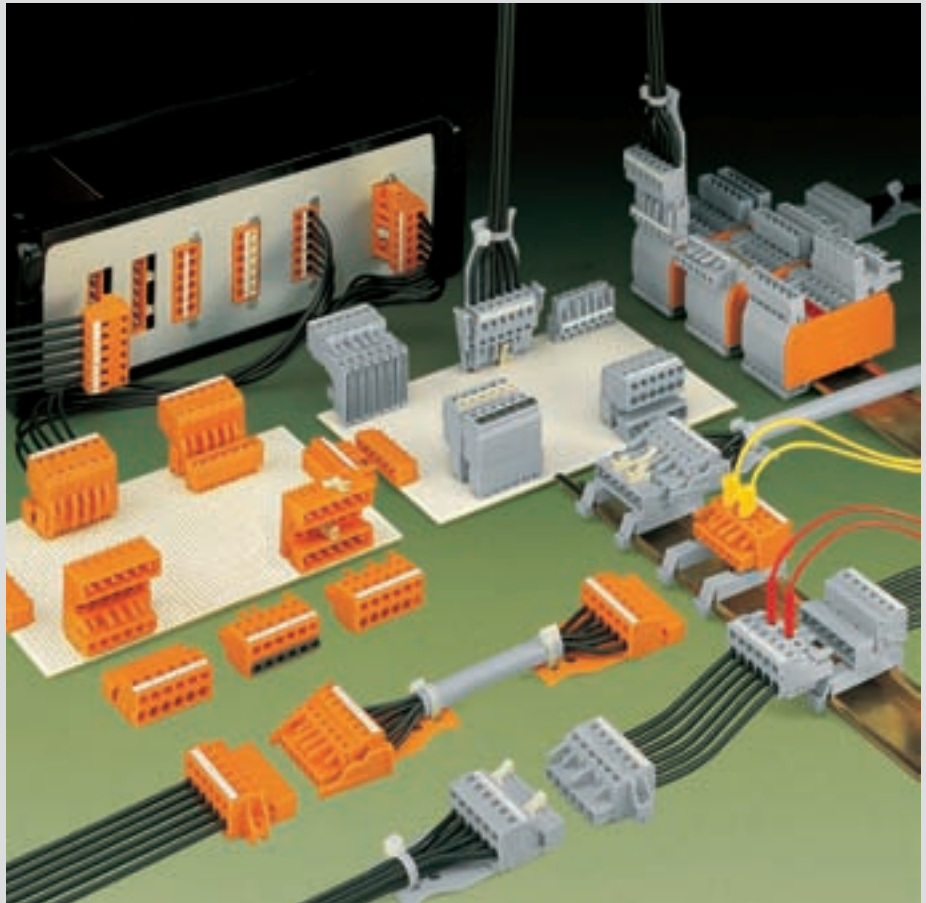
Insulation stop



Pin spacings 10 mm/0.394 in and 10.16 mm/0.4 in



Here shown with 10.16 mm/0.4 in spacing, contact factory



Coding

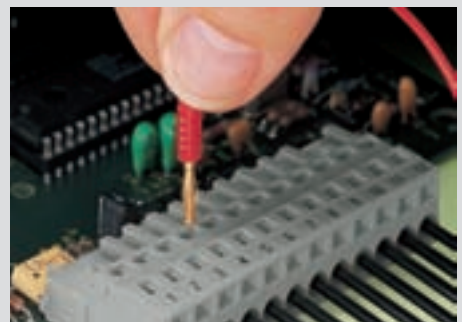


Coding of a header – fitting of coding key(s)



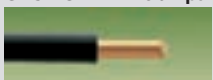
Coding of a female connector – removal of coding finger(s)

Testing

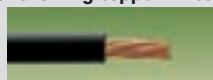


Testing with test plug 2 mm/0.079 in Ø or 2.3 mm/0.091 in Ø

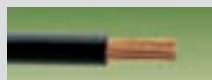
CAGE CLAMP® clamps the following copper wires:



solid



stranded



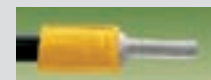
fine-stranded



tip bonded



with crimped ferrule



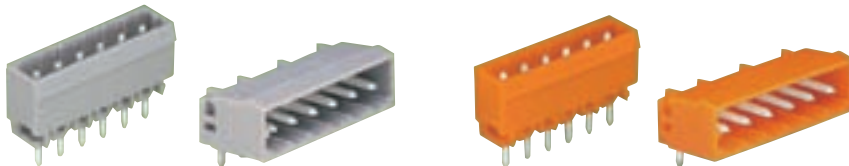
with crimped pin terminal

MULTI CONNECTION SYSTEM **MIDI**

Headers with Solder Pins,

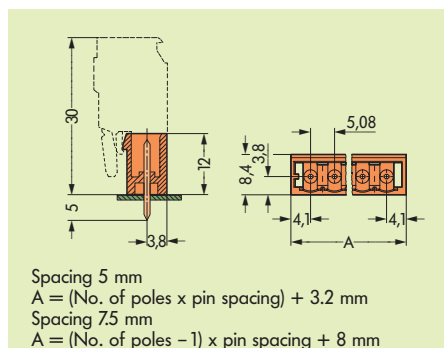
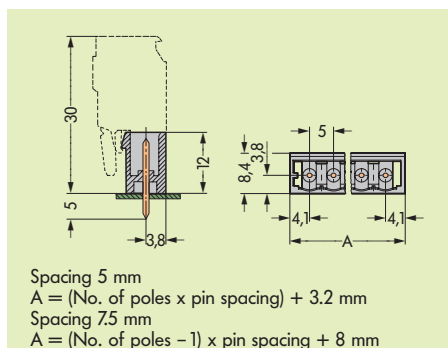
Pin Spacings 5 mm/0.197 in; 5.08 mm/0.2 in; 7.5 mm/0.295 in and 7.62 mm/0.3 in

<p>Pin spacing 5 mm/0.197 in, grey 250 V/4 kV/3 300 V, 10 A 12 A</p> <p>Pin spacing 7.5 mm/0.295 in, grey 400 V/6 kV/3 300 V, 10 A 12 A</p> <p>* </p>	<p>Pin spacing 5.08 mm/0.2 in, orange 250 V/4 kV/3 300 V, 10 A 12 A</p> <p>Pin spacing 7.62 mm/0.3 in, orange 400 V/6 kV/3 300 V, 10 A 12 A</p> <p>* </p>	<p>Accessories</p>
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No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	Accessories, Series 231	Item No.
Headers with solder pins, grey solder pin 1 mm x 1 mm			Headers with solder pins, orange, solder pin 1 mm x 1 mm			Coding key, snap-on type,	
Pin spacing 5 mm			Pin spacing 5.08 mm			Spacings 5 mm and 5.08 mm light grey 231-129	
straight angled			straight angled			Spacings 7.5 mm and 7.62 mm light grey 231-130	
2	231-132/001-000	231-432/001-000	2	231-332/001-000	231-532/001-000	Fixing element, horizontal	
3	231-133/001-000	231-433/001-000	3	231-333/001-000	231-533/001-000	Spacings 5 mm and 7.5 mm grey 231-193	
4	231-134/001-000	231-434/001-000	4	231-334/001-000	231-534/001-000	Fixing element, horizontal	
:	:	:	:	:	:	Spac. 5.08 mm and 7.62 mm orange 231-393	
12	231-142/001-000	231-442/001-000	12	231-342/001-000	231-542/001-000	Tapping screw,	
:	:	:	:	:	:	B 2.2 x 13 231-194 fixing hole Ø 1.8 mm	
21	231-151/001-000	231-451/001-000	21	231-351/001-000	231-551/001-000	Screw with nut,	
22	231-152/001-000	231-452/001-000	22	231-352/001-000	231-552/001-000	M 2 x 12 231-195 for fixing element	
23	231-153/001-000	231-453/001-000	23	231-353/001-000	231-553/001-000	Separator, for formation of groups,	
24	231-154/001-000	231-454/001-000	24	231-354/001-000	231-554/001-000	light grey 231-500	
Pin spacing 7.5 mm			Pin spacing 7.62 mm				
straight angled			straight angled				
2	231-232/001-000	231-832/001-000	2	231-732/001-000	231-932/001-000		
3	231-233/001-000	231-833/001-000	3	231-733/001-000	231-933/001-000		
4	231-234/001-000	231-834/001-000	4	231-734/001-000	231-934/001-000		
5	231-235/001-000	231-835/001-000	5	231-735/001-000	231-935/001-000		
6	231-236/001-000	231-836/001-000	6	231-736/001-000	231-936/001-000		
7	231-237/001-000	231-837/001-000	7	231-737/001-000	231-937/001-000		
8	231-238/001-000	231-838/001-000	8	231-738/001-000	231-938/001-000		
9	231-239/001-000	231-839/001-000	9	231-739/001-000	231-939/001-000		
10	231-240/001-000	231-840/001-000	10	231-740/001-000	231-940/001-000		
11	231-241/001-000	231-841/001-000	11	231-741/001-000	231-941/001-000		
12	231-242/001-000	231-842/001-000	12	231-742/001-000	231-942/001-000		
13	231-243/001-000	231-843/001-000					
16	231-246/001-000	231-846/001-000					

Dimensions (in mm) Diameter of drilled hole: 1.4^{+0.1} mm (solder pin 1 mm x 1 mm)























* You can find approvals on the Internet at www.wago.com.

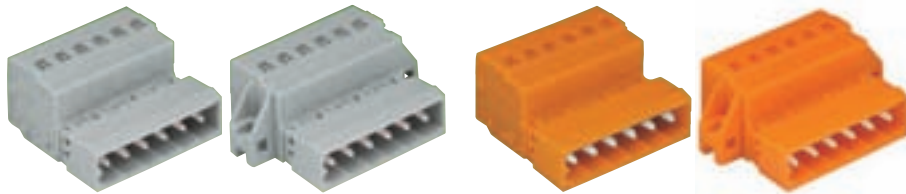
Technical explanations and abbreviations see page 10.2.

MULTI CONNECTION SYSTEM **MIDI**

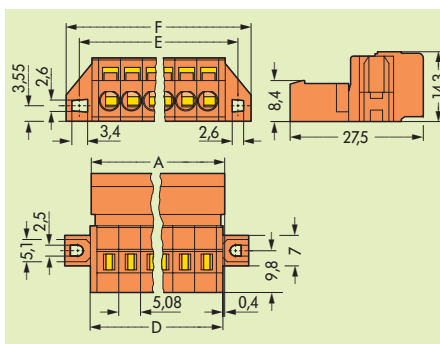
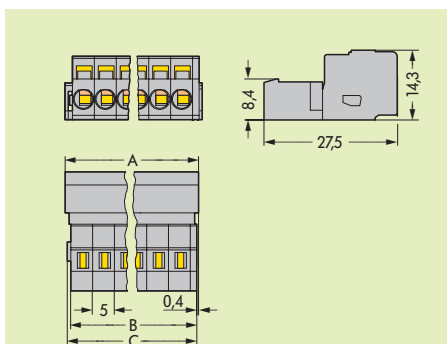
Male Connectors with **CAGE CLAMP®**,

Pin Spacings 5 mm/0.197 in; 5.08 mm/0.2 in; 7.5 mm/0.295 in; 7.62 mm/0.3 in

<p>Pin spacing 5 mm/0.197 in, grey 0.08 – 2.5 mm² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A   12 A</p> <p>Pin spacing 7.5 mm/0.295 in, grey 400 V/6 kV/3 300 V, 15 A   *      </p>	<p>Pin spacing 5.08 mm/0.2 in, orange 0.08 – 2.5 mm² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A   12 A</p> <p>Pin spacing 7.62 mm/0.3 in, orange 400 V/6 kV/3 300 V, 15 A   *      </p>	<p>Accessories</p>
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No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	Accessories, Series 231 and 731	Item No.	
Male connectors with CAGE CLAMP® , grey, and fixing flanges, for screw fixing or similar methods, for vertical or horizontal fixing			Male connectors with CAGE CLAMP® , orange, and fixing flanges, for screw fixing or similar methods, for vertical or horizontal fixing			Marker strips, 100 self-adhesive strips		
Pin spacing 5 mm with fixing flanges			Pin spacing 5.08 mm with fixing flanges			Spacing 5 mm		
2	231-602	231-602/019-000	2	231-632	231-632/019-000	1-12 (300x)	210-331/0500-0103	
3	231-603	231-602/019-000	3	231-633	231-632/019-000	13-24 (300x)	210-331/0500-0104	
4	231-604	231-602/019-000	4	231-634	231-632/019-000	Spacing 5.08 mm		
:	:	:	:	:	:	1-12 (200x)	210-331/0508-0103	
12	231-612	231-602/019-000	12	231-642	231-642/019-000	13-24 (200x)	210-331/0508-0104	
:	:	:	:	:	:	Spacing 7.5 mm		
21	231-621	231-602/019-000	21	231-651	231-651/019-000	1-16 (100x)	210-331/0750-0202	
22	231-622	231-602/019-000	22	231-652	231-652/019-000	Spacing 7.62 mm		
23	231-623	231-602/019-000	23	231-653	231-653/019-000	1-16 (100x)	210-331/0762-0202	
24	231-624	231-602/019-000	24	231-654	231-654/019-000	Coding key, snap-on type,		
Pin spacing 7.5 mm with fixing flanges			Pin spacing 7.62 mm with fixing flanges			Spacings 5 mm and 5.08 mm		
2	731-602	731-602/019-000	2	731-632	731-632/019-000	light grey	231-129	
3	731-603	731-603/019-000	3	731-633	731-633/019-000	Spacings 7.5 mm and 7.62 mm		
4	731-604	731-604/019-000	4	731-634	731-634/019-000	light grey	231-130	
5	731-605	731-605/019-000	5	731-635	731-635/019-000	Insulation stop, 5 pcs/strip		
6	731-606	731-606/019-000	6	731-636	731-636/019-000	Spacings 5 mm and 5.08 mm		
7	731-607	731-607/019-000	7	731-637	731-637/019-000	0.08 - 0.2 mm ² ①		
8	731-608	731-608/019-000	8	731-638	731-638/019-000	white	231-670	
9	731-609	731-609/019-000	9	731-639	731-639/019-000	0.25 - 0.5 mm ²		
10	731-610	731-610/019-000	10	731-640	731-640/019-000	light grey	231-671	
11	731-611	731-611/019-000	11	731-641	731-641/019-000	0.75 - 1 mm ²		
12	731-612	731-612/019-000	12	731-642	731-642/019-000	dark grey	231-672	
13	731-613	731-613/019-000				Spacings 7.5 mm and 7.62 mm		
16	731-616	731-616/019-000				0.08 - 0.2 mm ² ①		
Dimensions (in mm) A = (No. of poles x pin spacing) + 3.2 mm B = A - 1.7 mm C = A - 1.2 mm						white		231-673
						0.25 - 0.5 mm ²		
						light grey		231-674
						0.75 - 1 mm ²		
						dark grey		231-675



① 0.2 mm²"s" (0.14 mm²"f-st")

Tapping screw,



B 2.2 x 9.5 **209-147**
fixing hole Ø 1.8 mm

Separator, for formation of groups,



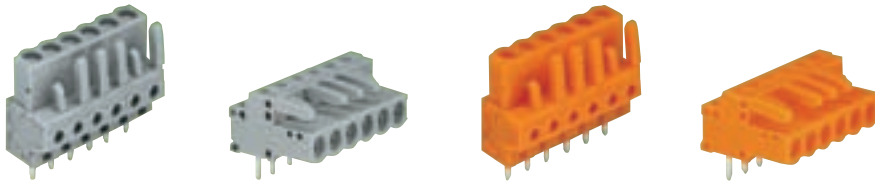
light grey **231-500**

MULTI CONNECTION SYSTEM **MIDI**

Female Connectors with Solder Pins,

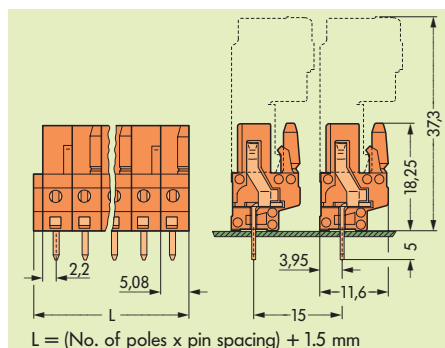
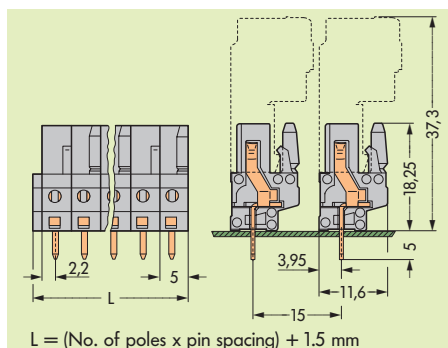
Pin Spacings 5 mm/0.197 in; 5.08 mm/0.2 in; 7.5 mm/0.295 in; 7.62 mm/0.3 in

Pin spacing 5 mm/0.197 in, grey 250 V/4 kV/3 300 V, 15 A 12 A Pin spacing 7.5 mm/0.295 in, grey 400 V/6 kV/3 300 V, 15 A 12 A *	Pin spacing 5.08 mm/0.2 in, orange 250 V/4 kV/3 300 V, 15 A 12 A Pin spacing 7.62 mm/0.3 in, orange 400 V/6 kV/3 300 V, 15 A 12 A *	Accessories
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No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	Accessories, Series 232	Item No.
Female connectors with solder pins, with coding fingers, with two latches, grey, solder pin 0.6 mm x 1 mm			Female connectors with solder pins, with coding fingers, with two latches, orange, solder pin 0.6 mm x 1 mm			Marker strips, 100 self-adhesive strips	
Pin spacing 5 mm			Pin spacing 5.08 mm			Spacing 5 mm	
	straight	angled		straight	angled	1-12 (300x) 210-331/0500-0103	
2**	232-132	232-232	2**	232-162	232-262	13-24 (300x) 210-331/0500-0104	
3**	232-133	232-233	3**	232-1333	232-263		
4	232-134	232-234	4	232-164	232-264	Spacing 5.08 mm	
5	232-135	232-235	5	232-165	232-265	1-12 (200x) 210-331/0508-0103	
:	:	:	:	:	:	13-24 (200x) 210-331/0508-0104	
12	232-142	232-242	12	232-172	232-272	Spacing 7.5 mm	
:	:	:	:	:	:	1-16 (100x) 210-331/0750-0202	
21	232-151	232-251	21	232-181	232-281	Spacing 7.62 mm	
22	232-152	232-252	22	232-182	232-282	1-16 (100x) 210-331/0762-0202	
23	232-153	232-253	23	232-183	232-283	Test plug, with cable 500 mm/1'7.7" long,	
24	232-154	232-254	24	232-184	232-284	2 mm Ø 210-136 red	
Pin spacing 7.5 mm			Pin spacing 7.62 mm			2.3 mm Ø 210-137 yellow	
	straight	angled		straight	angled		
2**	232-732	232-832	2**	232-762	232-862		
3**	232-733	232-833	3**	232-763	232-863		
4	232-734	232-834	4	232-764	232-864		
5	232-735	232-835	5	232-765	232-865		
6	232-736	232-836	6	232-766	232-866		
7	232-737	232-837	7	232-767	232-867		
8	232-738	232-838	8	232-768	232-868		
9	232-739	232-839	9	232-769	232-869		
10	232-740	232-840	10	232-770	232-870		
11	232-741	232-841	11	232-711	232-871		
12	232-742	232-842	12	232-772	232-872		
13	232-743	232-843					
16	232-746	232-846					
**one latch only			**one latch only				

Dimensions (in mm)

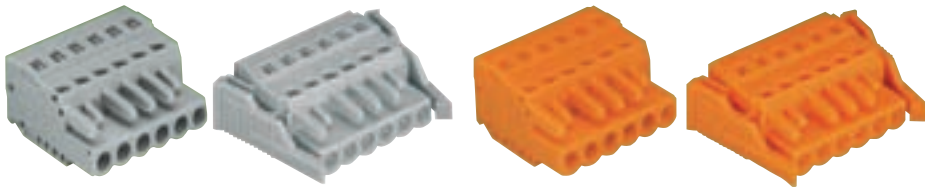


MULTI CONNECTION SYSTEM MIDI

Female Connectors with CAGE CLAMP®

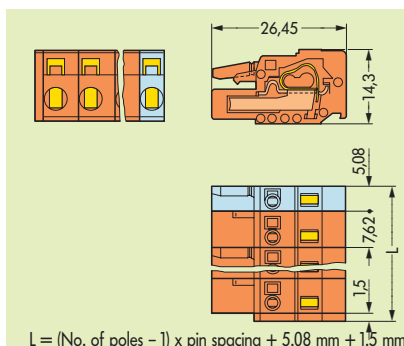
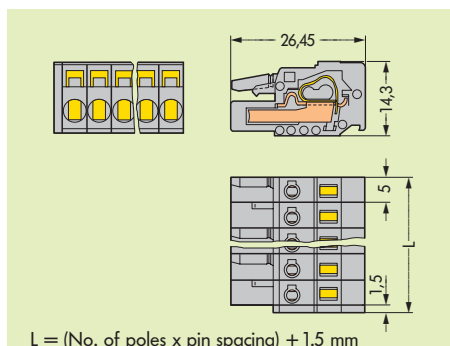
Pin Spacings 5 mm/0.197 in; 5.08 mm/0.2 in; 7.5 mm/0.295 in; 7.62 mm/0.3 in

<p>Pin spacing 5 mm/0.197 in, grey 0.08 – 2.5 mm² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A </p> <p>Pin spacing 7.5 mm/0.295 in, grey 400 V/6 kV/3 300 V, 15 A </p>	<p>Pin spacing 5.08 mm/0.2 in, orange 0.08 – 2.5 mm² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A </p> <p>Pin spacing 7.62 mm/0.3 in, orange 400 V/6 kV/3 300 V, 15 A </p>	<p>Accessories</p>
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No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	Accessories, Series 231	Item No.
Female connectors with CAGE CLAMP®, with coding fingers, with two latches, grey		Female connectors with CAGE CLAMP®, with coding fingers, with two latches, orange				Marker strips, 100 self-adhesive strips	
Pin spacing 5 mm		Pin spacing 5.08 mm				Spacing 5 mm	
with locking device		with locking device				1-12 (300x) 210-331/0500-0103	
2***	231-102/026-000	231-102/037-000	2***	231-302/026-000	231-302/037-000	13-24 (300x) 210-331/0500-0104	
3***	231-103/026-000	231-103/037-000	3***	231-303/026-000	231-303/037-000	Spacing 5.08 mm	
4	231-104/026-000	231-104/037-000	4	231-304/026-000	231-304/037-000	1-12 (200x) 210-331/0508-0103	
5	231-105/026-000	231-105/037-000	5	231-305/026-000	231-305/037-000	13-24 (200x) 210-331/0508-0104	
:	:	:	:	:	:	Spacing 7.5 mm	
12	231-112/026-000	231-112/037-000	12	231-312/026-000	231-312/037-000	1-16 (100x) 210-331/0750-0202	
:	:	:	:	:	:	Spacing 7.62 mm	
21	231-121/026-000	231-121/037-000	21	231-321/026-000	231-321/037-000	1-16 (100x) 210-331/0762-0202	
22	231-122/026-000	231-122/037-000	22	231-322/026-000	231-322/037-000	Insulation stop, 5 pcs/strip	
23	231-123/026-000	231-123/037-000	23	231-323/026-000	231-323/037-000	Spacing 5 mm and 5.08 mm	
24	231-124/026-000	231-124/037-000	24	231-324/026-000	231-324/037-000	0.08 - 0.2 mm ² ①	
Pin spacing 7.5 mm		Pin spacing 7.62 mm				white 231-670	
with locking device		with locking device				0.25 - 0.5 mm ²	
2***	231-202/026-000	231-202/037-000	2***	231-702/026-000	231-702/037-000	light grey 231-671	
3***	231-203/026-000	231-203/037-000	3***	231-703/026-000	231-703/037-000	0.75 - 1 mm ²	
4	231-204/026-000	231-204/037-000	4	231-704/026-000	231-704/037-000	dark grey 231-672	
5	231-205/026-000	231-205/037-000	5	231-705/026-000	231-705/037-000	Spacing 7.5 mm and 7.62 mm	
6	231-206/026-000	231-206/037-000	6	231-706/026-000	231-706/037-000	0.08 - 0.2 mm ² ①	
7	231-207/026-000	231-207/037-000	7	231-707/026-000	231-707/037-000	white 231-673	
8	231-208/026-000	231-208/037-000	8	231-708/026-000	231-708/037-000	0.25 - 0.5 mm ²	
9	231-209/026-000	231-209/037-000	9	231-709/026-000	231-709/037-000	light grey 231-674	
10	231-210/026-000	231-210/037-000	10	231-710/026-000	231-710/037-000	0.75 - 1 mm ²	
11	231-211/026-000	231-211/037-000	11	231-711/026-000	231-711/037-000	dark grey 231-675	
12	231-212/026-000	231-212/037-000	12	231-712/026-000	231-712/037-000	① 0.2 mm²"s" (0.14 mm²"f-st")	
13	231-213/026-000	231-213/037-000					Test plug, with cable 500 mm/17.7" long,
16	231-216/026-000	231-216/037-000					2 mm Ø 210-136 red
*** one latch only		*** one latch only				2.3 mm Ø 210-137 yellow	

Dimensions (in mm)



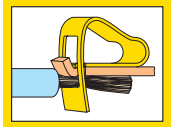
Screwdriver, with partially insulated shaft (3.5x0.5) mm	210-620
Operating tool, for female and male connectors with CAGE CLAMP®	210-250
Operating lever, loose, for female and male connectors with CAGE CLAMP®	231-131

* You can find approvals on the Internet at www.wago.com.
Technical explanations and abbreviations see page 10.2.

** AWG 12: THHN, THWN

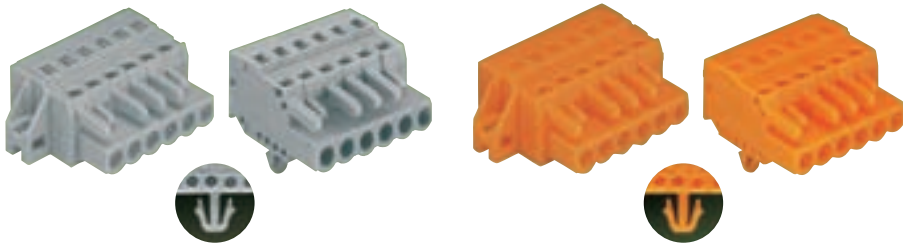
MULTI CONNECTION SYSTEM MIDI

Female Connectors with CAGE CLAMP® and Snap-In Mounting Feet Pin Spacings 5 mm/0.197 in; 5.08 mm/0.2 in; 7.5 mm/0.295 in; 7.62 mm/0.3 in



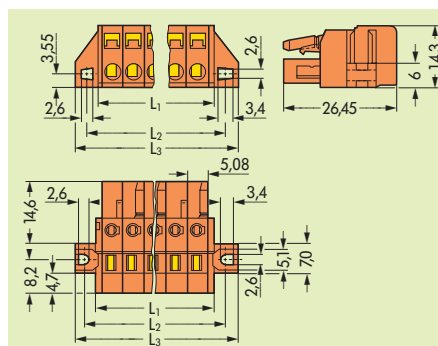
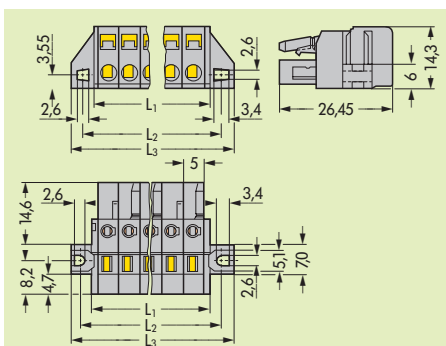
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<p>Pin spacing 5 mm/0.197 in, grey 0.08 – 2.5 mm² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A 16 A</p> <p>Pin spacing 7.5 mm/0.295 in, grey 400 V/6 kV/3 300 V, 15 A * </p>	<p>Pin spacing 5.08 mm/0.2 in, orange 0.08 – 2.5 mm² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A 16 A</p> <p>Pin spacing 7.62 mm/0.3 in, orange 400 V/6 kV/3 300 V, 15 A * </p>	<p>Accessories</p>
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No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	Accessories, Series 231	Item No.
Female connectors with CAGE CLAMP® and fixing flanges, for panel mounting, with coding fingers, with two latches, for screw fixing or similar methods, grey			Female connectors with CAGE CLAMP® and fixing flanges, for panel mounting, with coding fingers, with two latches, for screw fixing or similar methods, orange			Marker strips, 100 self-adhesive strips	
and snap-in mounting feet, for plate thickness 0.6 mm – 1.2 mm, fixing hole Ø 3.5 mm, (or with mounting adapter 209-137 for DIN 35 rail)			and snap-in mounting feet, for plate thickness 0.6 mm – 1.2 mm, fixing hole Ø 3.5 mm, (or with mounting adapter 209-137 for DIN 35 rail)			Spacing 5 mm	
Pin spacing 5 mm		Pin spacing 5.08 mm		Pin spacing 7.5 mm		Spacing 5.08 mm	
with fixing flanges	with mounting feet	with fixing flanges	with mounting feet	with fixing flanges	with mounting feet	1-12 (300x)	210-331/0500-0103
2***	231-102/031-000	231-102/008-000	2***	231-302/031-000	231-302/008-000	13-24 (300x)	210-331/0500-0104
3***	231-103/031-000	231-103/008-000	3***	231-303/031-000	231-303/008-000	Spacing 7.5 mm	
4	231-104/031-000	231-104/008-000	4	231-304/031-000	231-304/008-000	1-16 (100x)	210-331/0750-0202
5	231-105/031-000	231-105/008-000	5	231-305/031-000	231-305/008-000	Spacing 7.62 mm	
:	:	:	:	:	:	1-16 (100x)	210-331/0762-0202
12	231-112/031-000	231-112/008-000	12	231-312/031-000	231-312/008-000	Insulation stop, 5 pcs/strip	
:	:	:	:	:	:	Spacing 5 mm and 5.08 mm	
22	231-122/031-000	231-122/008-000	22	231-322/031-000	231-322/008-000	0.08 - 0.2 mm ² ①	
23	231-123/031-000	231-123/008-000	23	231-323/031-000	231-323/008-000	white	231-670
24	231-124/031-000	231-124/008-000	24	231-324/031-000	231-324/008-000	0.25 - 0.5 mm ²	
Pin spacing 7.5 mm		Pin spacing 7.62 mm		Pin spacing 7.5 mm and 7.62 mm		light grey	231-671
with fixing flanges	with mounting feet	with fixing flanges	with mounting feet	with fixing flanges	with mounting feet	0.75 - 1 mm ²	
2***	231-202/008-000	2***	231-702/031-000	231-702/008-000	231-702/008-000	dark grey	231-672
3***	231-203/031-000	231-203/008-000	3***	231-703/031-000	231-703/008-000	Spacing 7.5 mm and 7.62 mm	
4	231-204/031-000	231-204/008-000	4	231-704/031-000	231-704/008-000	0.08 - 0.2 mm ² ①	
5	231-205/031-000	231-205/008-000	5	231-705/031-000	231-705/008-000	white	231-673
6	231-206/031-000	231-206/008-000	6	231-706/031-000	231-706/008-000	0.25 - 0.5 mm ²	
7	231-207/031-000	231-207/008-000	7	231-707/031-000	231-707/008-000	light grey	231-674
8	231-208/031-000	231-208/008-000	8	231-708/031-000	231-708/008-000	0.75 - 1 mm ²	
:	:	:	:	:	:	dark grey	231-675
16	231-216/031-000	231-216/008-000	12	231-712/031-000	231-712/008-000	① 0.2 mm²"s" (0.14 mm²"f-st")	
***one latch only			***one latch only			Test plug, with cable 500 mm/1'7.7" long,	



Dimensions L₁ = (No. of poles x pin spacing) + 3 mm L₂ = (No. of poles x pin spacing) + 8.8 mm
L₃ = (No. of poles x pin spacing) + 14.8 mm









Please find the entire product range in our General Catalogue W4, Volume 2. More information at www.wago.com.

MULTI CONNECTION SYSTEM MIDI

Angled Female Connectors with CAGE CLAMP®, Pin Spacings 5 mm/0.197 in and 7.5 mm/0.295 in, Multi Mounting Adapter, Test Plugs


Pin spacing 5 mm/0.197 in, grey
 0.08 – 2.5 mm² | AWG 28 – 12**
 250 V/4 kV/3 | 300 V, 15 A  
 16 A

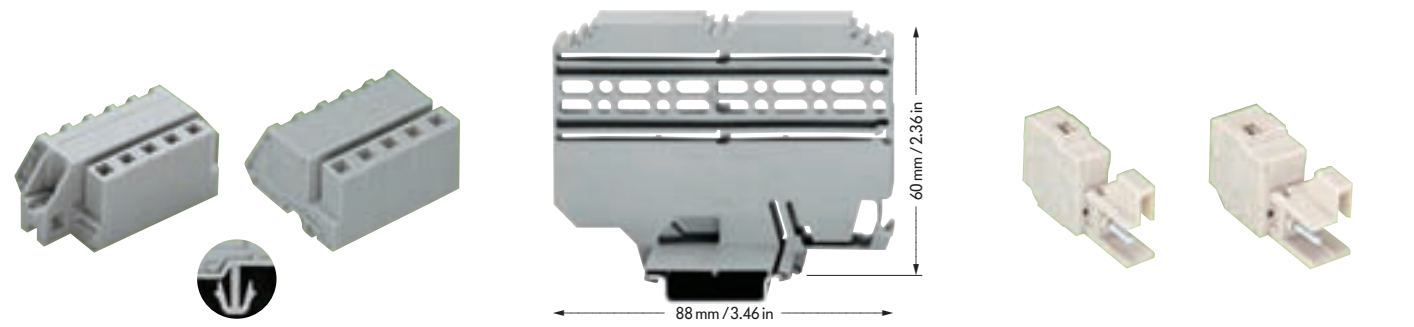
Pin spacing 7.5 mm/0.295 in, grey
 400 V/6 kV/3 | 300 V, 15 A  
 *    

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

Adapter width 10 mm/0.394 in

Test plugs for female connectors
 Pin spacings 5 mm; 5.08 mm; 7.5 mm u. 7.62 mm
 0.08 – 2.5 mm² | AWG 28 – 12
 250 V/4 kV/3 | 12 A

 8 – 9 mm / 0.33 in


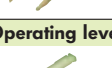


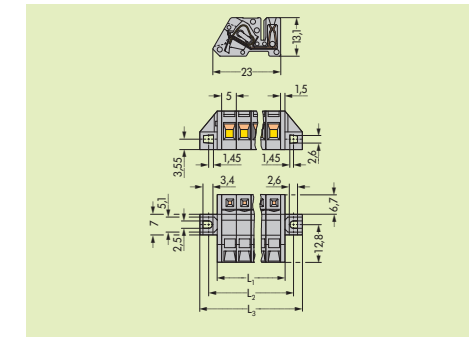
No. of poles	Item No.	Item No.
Angled female connectors with CAGE CLAMP® and fixing flanges, for panel mounting for screw fixing or similar methods, grey		
and snap-in mounting feet, for plate thickness 0.6 mm – 1.2 mm, fixing hole Ø 3.5 mm,		
Pin spacing 5 mm		
	with fixing flanges	with mounting feet
2	731-502/031-000	731-502/008-000
3	731-503/031-000	731-503/008-000
4	731-504/031-000	731-504/008-000
5	731-505/031-000	731-505/008-000
:	:	:
12	731-512/031-000	731-512/008-000
:	:	:
17	731-517/031-000	731-517/008-000
18	731-518/031-000	731-518/008-000
19	731-519/031-000	731-519/008-000
20	731-520/031-000	731-520/008-000
Pin spacing 7.5 mm		
	with fixing flanges	with mounting feet
2	731-532/031-000	731-532/008-000
3	731-533/031-000	731-533/008-000
4	731-534/031-000	731-534/008-000
5	731-535/031-000	731-535/008-000
6	731-536/031-000	731-536/008-000
7	731-537/031-000	731-537/008-000
:	:	:
10	731-540/031-000	731-540/008-000
11	731-541/031-000	731-541/008-000
12	731-542/031-000	731-542/008-000
Dimensions (in mm) see also page 6.9		

Item No. 209-148

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

The adapter allows the use of WSB, miniature WSB or WMB marker cards.
 Marking accessories see chapter 9.

Item No.	
Test plug for female connectors, with CAGE CLAMP® 0.08 mm ² – 2.5 mm ²	
Spacing 5 mm and 5.08 mm 231-661	
Spacing 7.5 mm and 7.62 mm 231-662	
Accessories	
Test plug, with cable 500 mm/1'7.7" long,	
 2 mm Ø 210-136 red	
 2.3 mm Ø 210-137 yellow	
Operating lever, for female and male connectors with CAGE CLAMP®	231-131
Countersunk screw, M 2 x 12	not offered by WAGO
Screwdriver, with partially insulated shaft (3.5 x 0.5) mm	210-620
Marker 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	



* You can find approvals on the Internet at www.wago.com.
 Technical explanations and abbreviations see page 10.2.

** AWG 12: THHN, THWN

MULTI CONNECTION SYSTEM *MINI* and *MIDI*

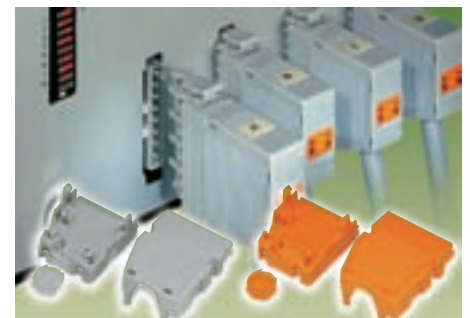
Strain Relief Plates and Snap-on Type Strain Relief Housings for Series 734, Pin Spacings 5 mm/0.197 in; 5.08 mm/0.2 in; 7.5 mm/0.295 in; 7.62 mm/0.3 in

Strain relief plates suitable for
 – Female connectors with CAGE CLAMP®
 – Male connectors with CAGE CLAMP®

MULTI CONNECTION SYSTEM *MINI*
 Series 734

MULTI CONNECTION SYSTEM *MIDI*
 Series 231, 721 and 731

Snap-on type strain relief housings suitable for
 – straight and angled female connectors with CAGE CLAMP®
 – male connectors with CAGE CLAMP®



Width	Additional Item No.	Width	Additional Item No.	No. of poles	Item No.	Item No.
Strain relief plate, assembled suitable for series 734		Strain relief plate, assembled suitable for series 231, 721 and 731		Snap-on type strain relief housings, consisting of: strain relief support and strain relief housing, suitable for series 734		
6 mm	.../032-000	11.5 mm	.../032-000		Spacing 3.5 mm grey	Spacing 3.81 mm orange
12.5 mm	.../033-000	20 mm	.../033-000	2	734-602*	734-632*
25 mm	.../034-000	30 mm	.../034-000	3	734-603*	734-633*
35 mm	.../035-000	50 mm	.../035-000	:	:	:
Ordering examples: Female connector, pin spacing 3.81 mm, orange, 5 poles, with strain relief plate 734-205/033-000		Ordering examples: Male connector, pin spacing 5 mm, light grey, 8 poles with strain relief plate 721-608/034-000		6	734-606	734-636
				7	734-607	–
				8	734-608	734-638
				9	734-609	734-639
				10	734-610	734-640
				12	734-612	734-642
				series 231 and 721		
					Spacing 5 mm	Spacing 5.08 mm
				2	232-602	232-632
				3	232-603	232-633
				:	:	:
				6	232-606	232-636
				7	232-607	–
				8	232-608	232-638
				9	232-609	232-639
				10	232-610	232-640
				12	232-612	232-642
				series 231, 721 and 731		
					Spacing 7.5 mm	Spacing 7.62 mm
				2	232-662	232-682
				3	232-663	232-683
				4	232-664	232-684
				5	232-665	232-685
				7	232-667	232-687

Strain relief plate, loose suitable for series 734

Item No.	Colour	Width
734-127 734-227	light grey orange	6 mm
734-128 734-228	light grey orange	12.5 mm
734-129 734-229	light grey orange	25 mm
734-126 734-226	light grey orange	35 mm

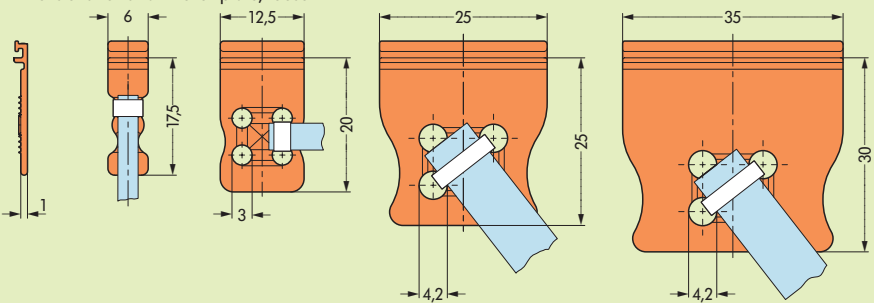
Male connectors as well as female connectors with CAGE CLAMP® can be supplied with assembled strain relief plate. Plates are offered in 4 different sizes.

An additional item number, referring to the width of the strain relief plate, is added to the "basic item number" and determines the type (see ordering examples).

It is therefore possible to order not only the "standard version" of male connectors or female connectors with strain relief plate, but also the version with fixing flanges or snap-in mounting feet.

The arrangement of the fixing holes for cable ties allows single conductors or multicore cables to be attached in several different orientations.

Dimensions for strain relief plate, loose

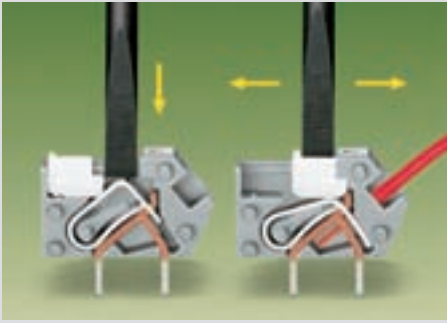


Cable clamp, for strain relief	209-177	
	for No. of poles	
	Spacing/mm	
	6 to 12 poles	3.5 + 3.81
	4 to 6 poles	5 + 5.08
	3 poles	7.5 + 7.62
Cable clamp, for strain relief	209-174	
	from 7 poles	5 + 5.08
	from 5 poles	7.5 + 7.62
Fixing screws, for cable clamp	209-176	
	for No. of poles	Spacing/mm
	4 to 6 poles	5 + 5.08
	3 poles	7.5 + 7.62
Fixing screws, for cable clamp	209-172	
	6 to 12 poles	3.5 + 3.81
Fixing screws, for cable clamp	209-173	
	from 7 poles	5 + 5.08
	from 5 poles	7.5 + 7.62

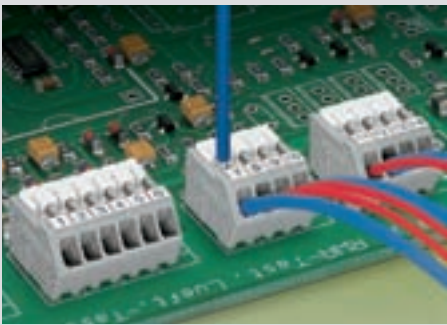
*2 up to 5 poles only suitable for cable ties (Series 734), 2- to 3-poles only for cable ties (Series 231, 721 and 731)

7 Description and Handling PCB Terminal Strips with CAGE CLAMP® Series 218, 233 and 234

Series 218



Wire connection: open the clamping unit using a screwdriver or move the locking slide towards the conductor entry hole, fully insert stripped wire and move locking slide back to its original position (also possible without operating tool using a fingernail)



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



... or with customised direct printing

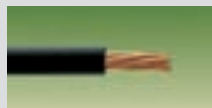


Size comparison between Series 218 and Series 745 high current terminal blocks

CAGE CLAMP® clamps the following copper wires:



solid



stranded

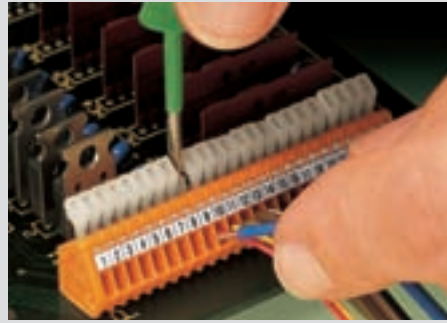


fine-stranded

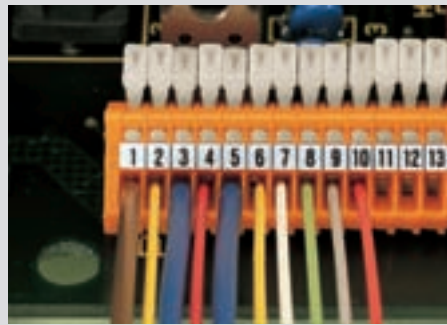


tip-bonded

Series 233



Connection/removal of conductors



Nominal cross section 0.5 mm²/AWG 20,
in adjacent positions 0.75 mm²/AWG 18



Marking with self-adhesive marker strips
or with customised direct printing

Series 234



Connection/removal of conductors

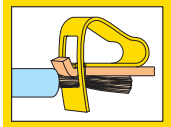


Nominal cross section 0.5 mm²/AWG 20,
in adjacent positions 0.75 mm²/AWG 18



Marking with customised direct printing or with
self-adhesive marker strips

PCB Terminal Strips with Locking Slide, Pin Spacings 2.5 mm/0.098 in and 2.54 mm/0.1 in; Series 218



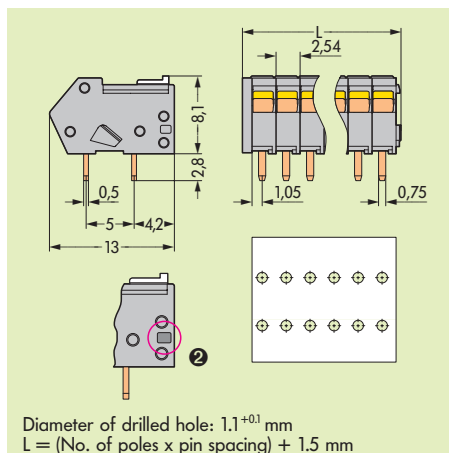
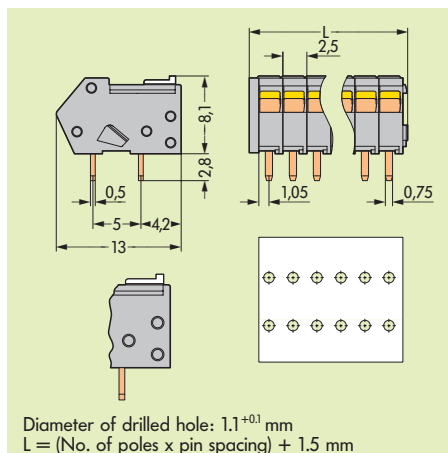
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<p>Pin spacing 2.5 mm / 0.098 in 0.08 – 0.5 mm² ① AWG 28 – 20 ② 250 V/2.5 kV/2 150 V, 4 A 6 A</p> <p> 5 – 6 mm / 0.22 in</p> <p>* </p>	<p>Pin spacing 2.54 mm / 0.1 in 0.08 – 0.5 mm² ① AWG 28 – 20 ② 250 V/2.5 kV/2 150 V, 4 A 6 A</p> <p> 5 – 6 mm / 0.22 in</p> <p>* </p>	<p>Accessories</p>
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No. of poles	Item No.	Pack.-unit pcs	No. of poles	Item No.	Pack.-unit pcs	Accessories, Series 218	Item No.
1-conductor terminal strips with locking slide, 2 solder pins/pole in line, grey, locking slide, white			1-conductor terminal strips with locking slide, 2 solder pins/pole in line, grey, locking slide, white			Marker cards,	
2	218-102	1000 (10x100)	2	218-502	1000 (10x100)		100 self-adhesive strips per card
3	218-103	1000 (10x100)	3	218-503	1000 (10x100)		Pin spacing 2.5 mm
4	218-104	500 (5x100)	4	218-504	500 (5x100)	1-16 (400x)	210-331/0250-0202
5	218-105	500 (5x100)	5	218-505	500 (5x100)	17-32 (400x)	210-331/0250-0204
6	218-106	280 (4x 70)	6	218-506	280 (4x 70)	Pin spacing 2.54 mm	
7	218-107	240 (4x 60)	7	218-507	240 (4x 60)	1-16 (400x)	210-331/0254-0202
8	218-108	220 (4x 55)	8	218-508	220 (4x 55)	17-32 (400x)	210-331/0254-0204
9	218-109	200 (4x 50)	9	218-509	200 (4x 50)	Direct printing on request	
10	218-110	180 (4x 45)	10	218-510	180 (4x 45)	Test pin, 1 mm/0.039 in Ø	
11	218-111	160 (4x 40)	11	218-511	160 (4x 40)		735-500
12	218-112	140 (4x 35)	12	218-512	140 (4x 35)		Test wire for sold. onto test plug
13	218-113	140 (4x 35)	13	218-513	140 (4x 35)	Screwdriver, with partially insulated shaft	
14	218-114	120 (4x 30)	14	218-514	120 (4x 30)	(2.5 x 0.4) mm	210-619
15	218-115	120 (4x 30)	15	218-515	120 (4x 30)		
16	218-116	100 (4x 25)	16	218-516	100 (4x 25)		
:	:	:	:	:	:		
21	218-121	100 (4x 25)	21	218-521	100 (4x 25)		
22	218-122	100 (4x 25)	22	218-522	100 (4x 25)		
23	218-123	100 (4x 25)	23	218-523	100 (4x 25)		
24	218-124	80 (4x 20)	24	218-524	80 (4x 20)		
Additional item numbers for coloured terminal strips			Ordering example				
red	.../000-005		Terminal strips, pin spacing 2.5 mm, 8 poles, orange				
blue	.../000-006		2 solder pins in line 218-108/000-012				
orange	.../000-012						
green	.../000-023						
locking slide, white							

Dimensions (in mm)

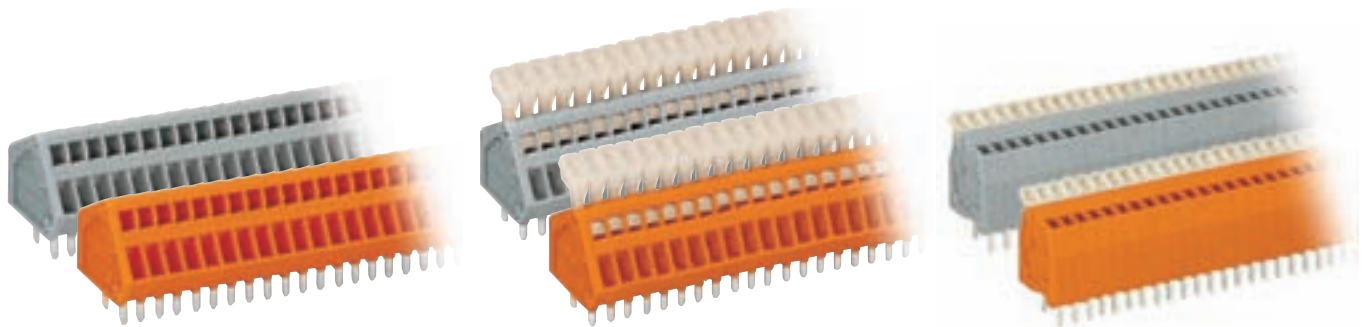


- ① in adjacent positions 0.75 mm²/AWG 18
- ② A groove in the back of the terminal block differentiates between the two pin spacings

* You can find approvals on the Internet at www.wago.com. Technical explanations and abbreviations see page 10.2.



PCB Terminal Strips 0.5 mm², Pin Spacings 2.5 mm/0.098 in und 2.54 mm/0.1 in; Series 233 and 234

Pin spacing 2.5 mm/0.098 in Pin spacing 2.54 mm/0.1 in 0.08 – 0.5 mm ² ① AWG 28 – 20 ① 250 V/2.5 kV/2 150 V, 4 A ② ③ ④ 6 A 5 – 6 mm / 0.22 in * ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿	Pin spacing 2.5 mm/0.098 in Pin spacing 2.54 mm/0.1 in 0.08 – 0.5 mm ² ① AWG 28 – 20 ① 250 V/2.5 kV/2 150 V, 4 A ② ③ ④ 6 A 5 – 6 mm / 0.22 in * ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿	Pin spacing 2.5 mm/0.098 in Pin spacing 2.54 mm/0.1 in 0.08 – 0.5 mm ² ① AWG 28 – 20 ① 250 V/2.5 kV/2 150 V, 4 A ② ③ ④ 6 A 5 – 6 mm / 0.22 in * ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿
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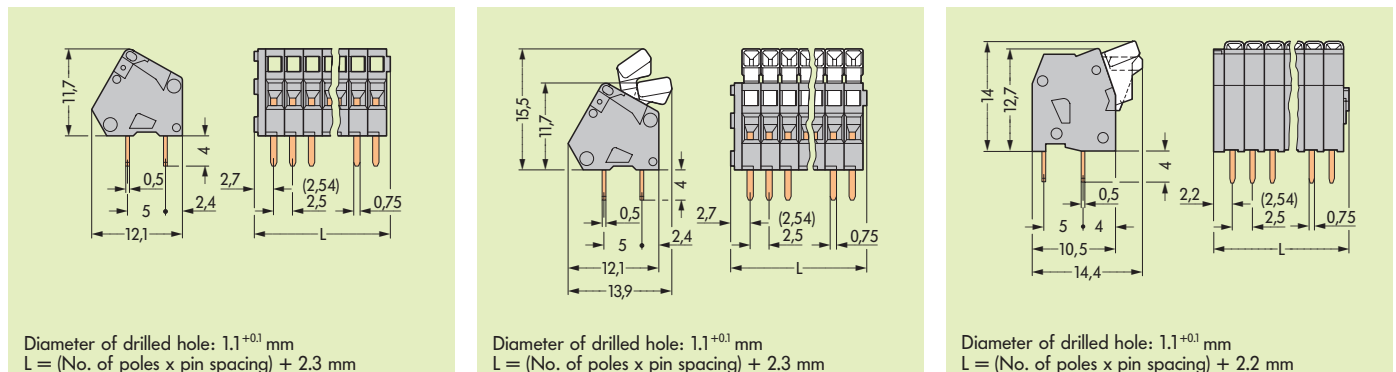


No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.
Terminal strips, standard length, for other lengths contact factory, 2 solder pins/pole			Terminal strips with push buttons, standard length, for other lengths contact factory, 2 solder pins/pole			Terminal strips with push buttons, standard length, for other lengths contact factory, 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
	grey	orange		grey	orange		grey	orange
2	233-102	233-402	2	233-202	233-502	2	234-202	234-502
3	233-103	233-403	3	233-203	233-503	3	234-203	234-503
4	233-104	233-404	4	233-204	233-504	4	234-204	234-504
5	233-105	233-405	5	233-205	233-505	5	234-205	234-505
6	233-106	233-406	6	233-206	233-506	6	234-206	234-506
7	233-107	233-407	7	233-207	233-507	7	234-207	234-507
8	233-108	233-408	8	233-208	233-508	8	234-208	234-508
9	233-109	233-409	9	233-209	233-509	9	234-209	234-509
10	233-110	233-410	10	233-210	233-510	10	234-210	234-510
12	233-112	233-412	12	233-212	233-512	12	234-212	234-512
16	233-116	233-416	16	233-216	233-516	16	234-216	234-516
24	233-124	233-424	24	233-224	233-524	24	234-224	234-524
Terminal strips without push buttons cannot be retrofitted with push buttons!			Other colours on request			Other colours on request		

Accessories, Series 233 and 234

Marker cards, 100 self-adhesive strips per card 	Operating tool, for a professional wiring of terminal strips  partially insulated 233-335 of insulating material 233-332												
<table border="1"> <thead> <tr> <th>Marking</th> <th>Pin spacing 2.5 mm</th> <th>Pin spacing 2.54 mm</th> </tr> </thead> <tbody> <tr> <td>1-16 (400 x)</td> <td>210-331/0250-0202</td> <td>210-331/0254-0202</td> </tr> <tr> <td>17-32 (400 x)</td> <td>210-331/0250-0204</td> <td>210-331/0254-0204</td> </tr> <tr> <td>33-48 (400 x)</td> <td>210-331/0250-0206</td> <td>210-331/0254-0206</td> </tr> </tbody> </table>	Marking	Pin spacing 2.5 mm	Pin spacing 2.54 mm	1-16 (400 x)	210-331/0250-0202	210-331/0254-0202	17-32 (400 x)	210-331/0250-0204	210-331/0254-0204	33-48 (400 x)	210-331/0250-0206	210-331/0254-0206	
Marking	Pin spacing 2.5 mm	Pin spacing 2.54 mm											
1-16 (400 x)	210-331/0250-0202	210-331/0254-0202											
17-32 (400 x)	210-331/0250-0204	210-331/0254-0204											
33-48 (400 x)	210-331/0250-0206	210-331/0254-0206											
Direct printing contact factory													

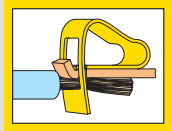
Dimensions (in mm)



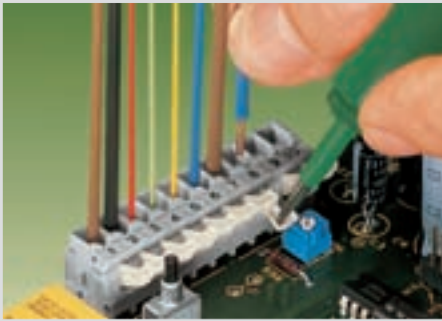
* You can find approvals on the Internet at www.wago.com.
 Technical explanations and abbreviations see page 10.2.

① in adjacent positions 0.75 mm²/AWG 18

Description and Handling PCB Terminal Strips with CAGE CLAMP® Series 255, 256 and 257



Series 255



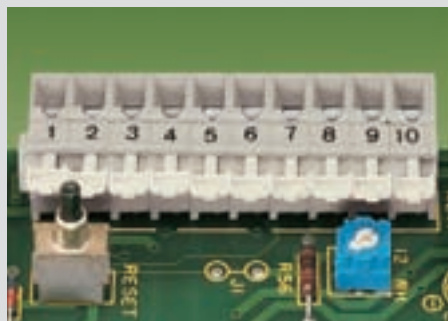
Connection/removal of conductors, series 255



Testing with test probes

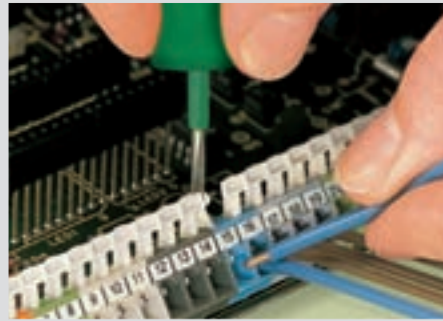


Connection/removal of conductors, series 255
Finger operation
Terminal strips with finger operated levers
see General Catalogue



Marking with customised direct printing

Series 256



Connection/removal of conductors, series 256



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

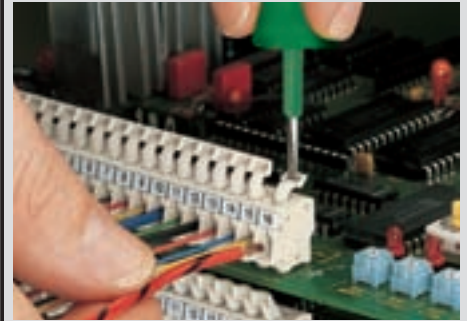


Connection/removal of conductors, series 256
Finger operation
Terminal strips with finger operated levers
see General Catalogue



Marking with self-adhesive marker strips

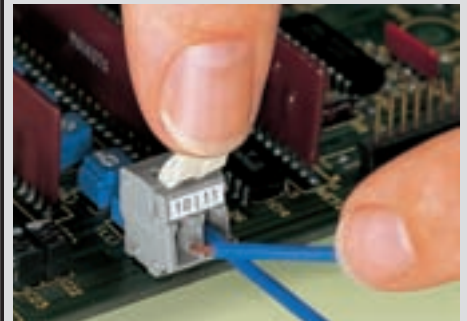
Series 257



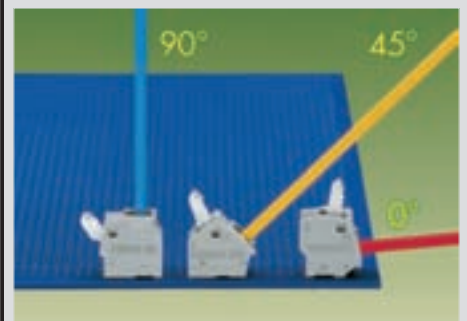
Connection/removal of conductors, series 257
Straight lever, front-entry
Angled lever, side-entry



Testing with test plug adapter

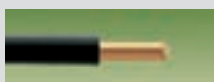


Connection/removal of conductors, series 257
Finger operation
Terminal strips with finger operated levers
see General Catalogue

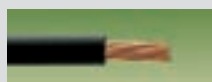


Series 255 256 257
Conductor entry angles

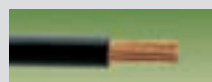
CAGE CLAMP® clamps the following copper wires:



solid



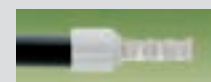
stranded



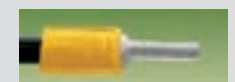
fine-stranded



tip-bonded



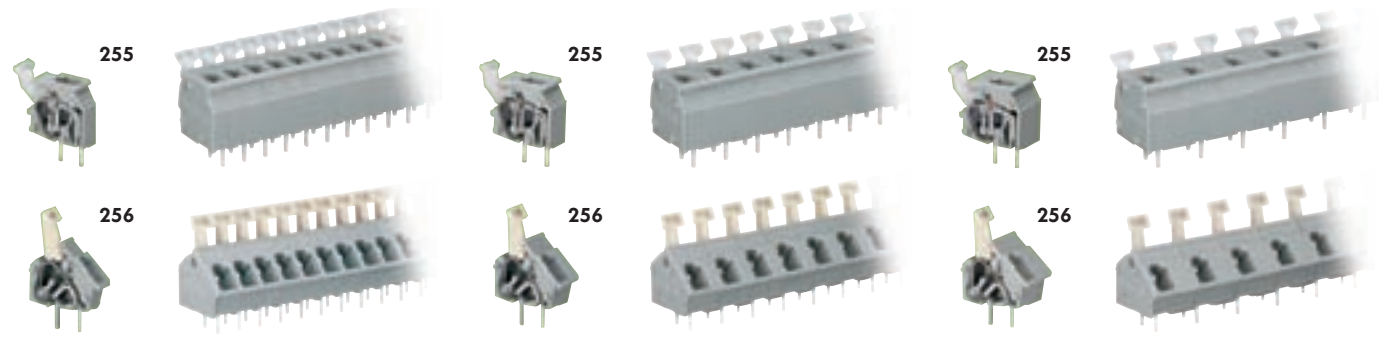
with crimped ferrule



with crimped pin terminal

Modular PCB Terminal Blocks and Terminal Strips 2.5 mm² Pin Spacings 5/5.08 mm/0.2 in, 7.5/7.62 mm/0.3 in and 10/10.16 mm/0.4 in; Series 255 and 256

<p>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</p> <p>5 – 6 mm / 0.22 in</p> <p>* </p>	<p>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</p> <p>5 – 6 mm / 0.22 in</p> <p>* </p>	<p>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</p> <p>5 – 6 mm / 0.22 in</p> <p>* </p>
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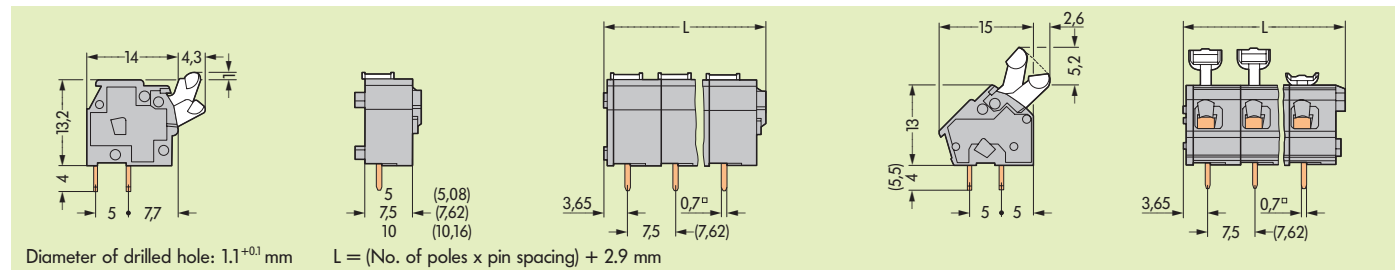


Colour No. of poles	Item No.	Item No.	Colour No. of poles	Item No.	Item No.	Colour No. of poles	Item No.	Item No.
Modular terminal blocks, 2 solder pins/pole			Modular terminal blocks, 2 solder pins/pole			Modular terminal blocks, 2 solder pins/pole		
grey	255-401	256-401	grey	255-501	256-501	grey	255-601	256-601
red	255-740	256-740	red	255-750	256-750	red	255-760	256-760
dark grey	255-742	256-742	dark grey	255-752	256-752	dark grey	255-762	256-762
light grey (Ex)	255-743	256-743	light grey (Ex)	255-753	256-753	light grey (Ex)	255-763	256-763
blue	255-744	256-744	blue	255-754	256-754	blue	255-764	256-764
orange	255-746	256-746	orange	255-756	256-756	orange	255-766	256-766
light green	255-747	256-747	light green	255-757	256-757	light green	255-767	256-767
Terminal strips, grey, standard lengths,** 2 solder pins/pole			Terminal strips, grey, standard lengths,** 2 solder pins/pole			Terminal strips, grey, standard lengths,** 2 solder pins/pole		
2	255-402	256-402	2	255-502	256-502	2	255-602	256-602
3	255-403	256-403	3	255-503	256-503	3	255-603	256-603
4	255-404	256-404	4	255-504	256-504	4	255-604	256-604
:	:	:	:	:	:	:	:	:
9	255-409	256-409	7	255-507	256-507	7	255-607	256-607
10	255-410	256-410	8	255-508	256-508	8	255-608	256-608
12	255-412	256-412	9	255-509	256-509	9	255-609	256-609
16	255-416	256-416	10	255-510	256-510	10	255-610	256-610
24	255-424	256-424	12	255-512	256-512	12	255-612	256-612
36	255-436	256-436	16	255-516	256-516	16	255-616	256-616
48	255-448	256-448	24	255-524	256-524	24	255-624	256-624

Accessories, Series 255 and 256 (Marker strips see section 9) ** Additional item numbers for coloured terminal strips see page 7.5

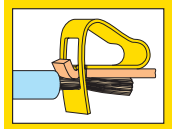
<p>Spacer, 5/5.08 mm/0.2 in thick, grey 255-801 for doubling the pin spacing</p>	<p>Spacer, 7.5/7.62 mm/0.3 in thick, grey 255-811 for doubling the pin spacing</p>	<p>Spacer, 10/10.16 mm/0.4 in thick, grey 255-821 for doubling the pin spacing</p>																																										
<p>End plates, snap-on type, 1 mm/0.039 in thick Series 255</p> <table border="1"> <tr><td>grey</td><td>255-100</td><td>100</td></tr> <tr><td>dark grey</td><td>255-200</td><td>100</td></tr> <tr><td>light grey</td><td>255-300</td><td>100</td></tr> <tr><td>blue</td><td>255-400</td><td>100</td></tr> <tr><td>red</td><td>255-500</td><td>100</td></tr> <tr><td>orange</td><td>255-600</td><td>100</td></tr> <tr><td>light green</td><td>255-700</td><td>100</td></tr> </table>	grey	255-100	100	dark grey	255-200	100	light grey	255-300	100	blue	255-400	100	red	255-500	100	orange	255-600	100	light green	255-700	100	<p>End plates, snap-on type, 1 mm/0.039 in thick Series 256</p> <table border="1"> <tr><td>grey</td><td>256-100</td><td>100</td></tr> <tr><td>dark grey</td><td>256-200</td><td>100</td></tr> <tr><td>light grey</td><td>256-300</td><td>100</td></tr> <tr><td>blue</td><td>256-400</td><td>100</td></tr> <tr><td>red</td><td>256-500</td><td>100</td></tr> <tr><td>orange</td><td>256-600</td><td>100</td></tr> <tr><td>light green</td><td>256-700</td><td>100</td></tr> </table>	grey	256-100	100	dark grey	256-200	100	light grey	256-300	100	blue	256-400	100	red	256-500	100	orange	256-600	100	light green	256-700	100	
grey	255-100	100																																										
dark grey	255-200	100																																										
light grey	255-300	100																																										
blue	255-400	100																																										
red	255-500	100																																										
orange	255-600	100																																										
light green	255-700	100																																										
grey	256-100	100																																										
dark grey	256-200	100																																										
light grey	256-300	100																																										
blue	256-400	100																																										
red	256-500	100																																										
orange	256-600	100																																										
light green	256-700	100																																										

Dimensions (Adjustment of pin spacing is made by pulling on the end blocks so that they expand to satisfy the hole centers required.) Terminal blocks for Ex e II applications see General Catalogue W4, Volume 2

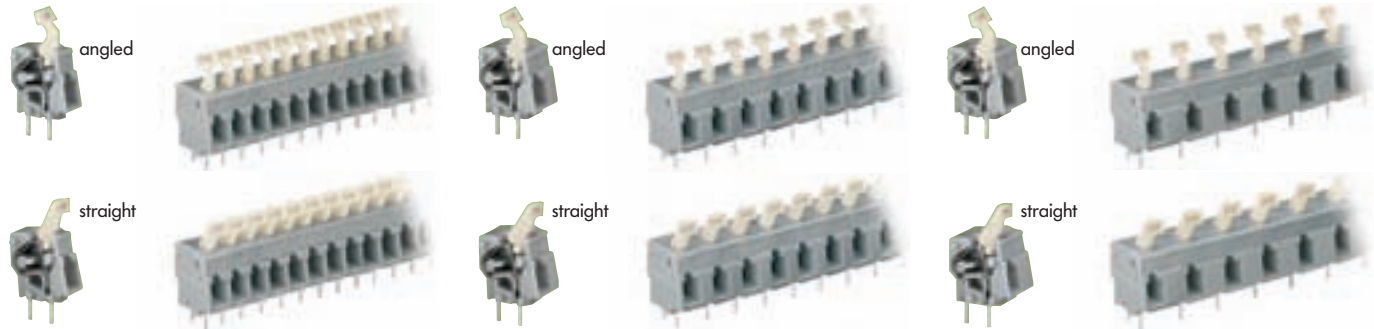


* You can find approvals on the Internet at www.wago.com. **AWG 12: THHN, THWN
Technical explanations and abbreviations see page 10.2.

Modular PCB Terminal Blocks and Terminal Strips 2.5 mm² Pin Spacings 5/5.08 mm/0.2 in, 7.5/7.62 mm/0.3 in and 10/10.16 mm/0.4 in, Series 257



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	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	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
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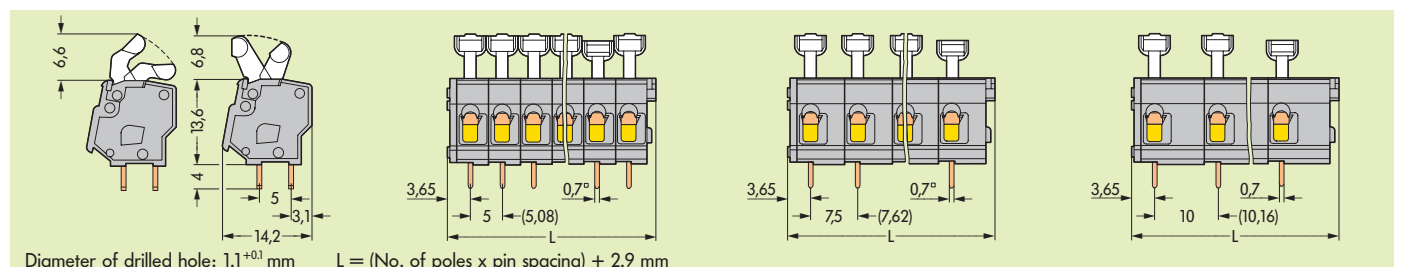


Colour No. of poles	Item No.	Item No.	Colour No. of poles	Item No.	Item No.	Colour No. of poles	Item No.	Item No.
Modular terminal blocks, 2 solder pins/pole			Modular terminal blocks, 2 solder pins/pole			Modular terminal blocks, 2 solder pins/pole		
	angled	straight		angled	straight		angled	straight
	lever	lever		lever	lever		lever	lever
grey	257-451	257-401	grey	257-551	257-501	grey	257-651	257-601
red	257-840	257-740	red	257-850	257-750	red	257-860	257-760
dark grey	257-842	257-742	dark grey	257-852	257-752	dark grey	257-862	257-762
light grey	257-843	257-743	light grey	257-853	257-753	light grey	257-863	257-763
blue	257-844	257-744	blue	257-854	257-754	blue	257-864	257-764
orange	257-846	257-746	orange	257-856	257-756	orange	257-866	257-766
light green	257-847	257-747	light green	257-857	257-757	light green	257-867	257-767
Terminal strips, grey, standard lengths, 2 solder pins/pole			Terminal strips, grey, standard lengths, 2 solder pins/pole			Terminal strips, grey, standard lengths, 2 solder pins/pole		
2	257-452	257-402	2	257-552	257-502	2	257-652	257-602
3	257-453	257-403	3	257-553	257-503	3	257-653	257-603
:	:	:	4	257-554	257-504	4	257-654	257-604
10	257-460	257-410	:	:	:	:	:	:
12	257-462	257-412	9	257-559	257-509	9	257-659	257-609
16	257-466	257-416	10	257-560	257-510	10	257-660	257-610
24	257-474	257-424	12	257-562	257-512	12	257-662	257-612
36	257-486	257-436	16	257-566	257-516	16	257-666	257-616
48	257-498	257-448	24	257-574	257-524	24	257-674	257-624

Accessories, Series 257 (Marker strips see section 9)

Spacer, 5/5.08 mm/0.2 in thick, grey 257-801 for doubling the pin spacing	Spacer, 7.5/7.62 mm/0.3 in thick, grey 257-811 for doubling the pin spacing	Spacer, 10/10.16 mm/0.4 in thick, grey 257-821 for doubling the pin spacing
End plates, snap-on type, 1 mm/0.039 in thick Series 257 grey 257-100 100 dark grey 257-200 100 light grey 257-300 100 blue 257-400 100 red 257-500 100 orange 257-600 100 light green 257-700 100	Additional item numbers for coloured terminal strips red .../000-005 blue .../000-006 dark grey .../000-008 light grey .../000-009 orange .../000-012 light green .../000-017	Additional item numbers for coloured terminal strips red .../000-005 blue .../000-006 dark grey .../000-008 light grey .../000-009 orange .../000-012 light green .../000-017
Dimensions (Adjustment of pin spacing is made by pulling on the end blocks so that they expand to satisfy the hole centers required.)		

Suitable for Ex i applications (only for pin spacings 7.5/7.62 mm/0.3 in and 10/10.16 mm/0.4 in)



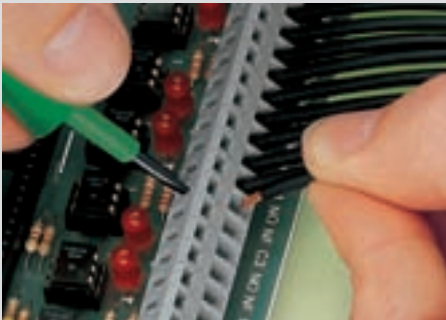
7 Description and Handling PCB Terminal Strips with CAGE CLAMP® Series 236, 736, 737, 738, 742 and 745

6

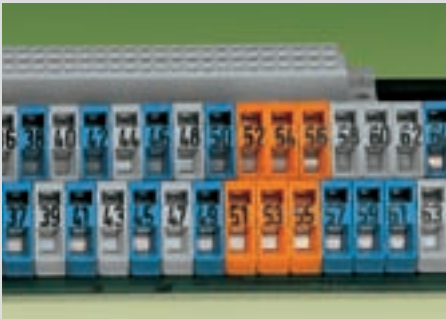
Series 236



Connection of conductors "Front-entry"



Connection of conductors "Side-entry"



Coloured mixed terminal strips, with customised direct printing

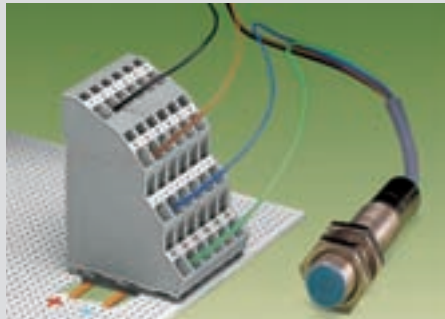
Series 736, 737 and 738



Mix of double deck and triple deck terminal strips



Space saving with triple deck terminal strip



Wiring of 4-conductor sensors

Series 745



Connection of conductors using screwdriver 5.5 mm



Coloured terminal strips on request

Series 742



Opening of disconnect

Reflow Technique



In the manufacture of electronic products, **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 an optimised pin design the WAGO **Through Hole Reflow** PCB terminal blocks meet the requirement for SMT process capability while maintaining the necessary stability.

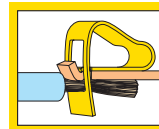
Press In Technique



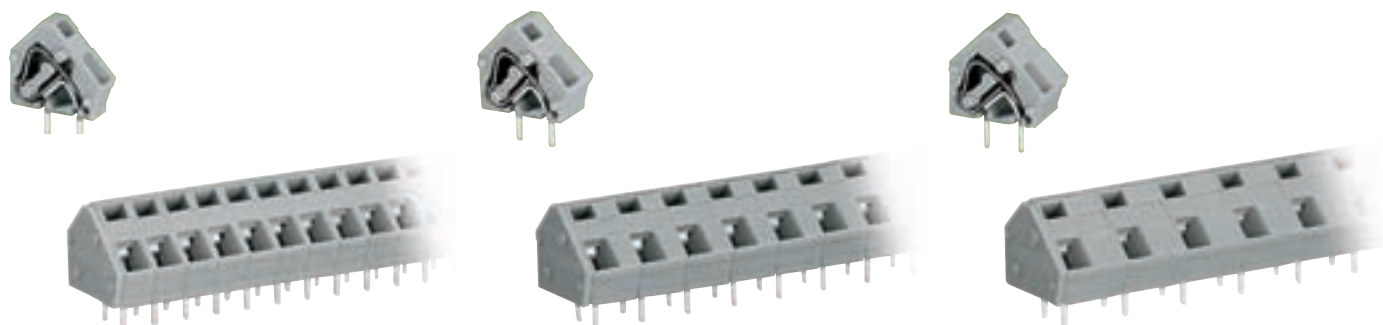
Special features of the WAGO Press In Technique:

- Press-in pin with special elastic contact zone according to the needle eye principle
- suitable for all printed circuit boards with the correct tin plating for press-in connectors
- mechanically stable pin dimensions
 - 0.6 mm x 0.6 mm or
 - 0.8 mm x 0.8 mm
- metal-plated hole with optimum diameter – 1.0 or 1.45 ± 0.02 mm
- press-in pin for PCB thickness from 1.4 mm to 3 mm – (similar to DIN EN 60352-5 EE 1.45 standard)
- press-in length of approx 3.2 mm – no unnecessary projection on underside of PCB
- low press-in force required – advantage for both PCB and components
- high retention force within the PCB – double the values required by DIN EN 60352-5
- good bonded connection
- excellent elastic spring behaviour
- no deformation of the metal-plated end hole
- length of the contact area ≥ 1.3 mm
- no deformation of multilayer PCBs
- only slight tin removal in the contact hole – advantage for PCB and the contact points
- application specific press-in tool – please contact factory

Modular PCB Terminal Blocks, 2.5 mm² Pin Spacings 5/5.08 mm/0.2 in, 7.5/7.62 mm/0.3 in and 10/10.16 mm/0.4 in; Series 236



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 V, 15 A 5 – 6 mm / 0.22 in *	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 V, 15 A 5 – 6 mm / 0.22 in *	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 V, 15 A 5 – 6 mm / 0.22 in *
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Colour No. of poles	Item No.	Item- No.	Colour No. of poles	Item No.	Item No.	Colour No. of poles	Item No.	Item No.
Modular terminal blocks,			Modular terminal blocks,			Modular terminal blocks,		
1 solder pin/pole, rear ①		2 solder pins/pole	1 solder pin/pole, rear ①		2 solder pins/pole	1 solder pin/pole, rear ①		2 solder pins/pole
grey	236-101	236-401	grey	236-201	236-501	grey	236-301	236-601
dark grey	236-712	236-742	dark grey	236-722	236-752	dark grey	236-732	236-762
light grey	236-713	236-743	light grey	236-723	236-753	light grey	236-733	236-763
blue	236-714	236-744	blue	236-724	236-754	blue	236-734	236-764
green	236-715	236-745	green	236-725	236-755	green	236-735	236-765
orange	236-716	236-746	orange	236-726	236-756	orange	236-736	236-766
light green	236-717	236-747	light green	236-727	236-757	light green	236-737	236-767
black	236-854	236-851	black	236-855	236-852	black	236-856	236-853
Pieces per packing unit 600 (6 x 100)			Pieces per packing unit 400 (4 x 100)			Pieces per packing unit 300 (3 x 100)		
Terminal strips, grey, standard lengths,			Terminal strips, grey, standard lengths,			Terminal strips, grey, standard lengths,		
1 solder pin/pole, rear ①		2 solder pins/pole	1 solder pin/pole, rear ①		2 solder pins/pole	1 solder pin/pole, rear ①		2 solder pins/pole
2	236-102	236-402	2	236-202	236-502	2	236-302	236-602
3	236-103	236-403	3	236-203	236-503	3	236-303	236-603
:	:	:	4	236-204	236-504	4	236-304	236-604
8	236-108	236-408	6	236-206	236-506	6	236-306	236-606
12	236-112	236-412	8	236-208	236-508	8	236-308	236-608
16	236-116	236-416	12	236-212	236-512	12	236-312	236-612
24	236-124	236-424	16	236-216	236-516	16	236-316	236-616
36	236-136	236-436	24	236-224	236-524	24	236-324	236-624
48	236-148	236-448						

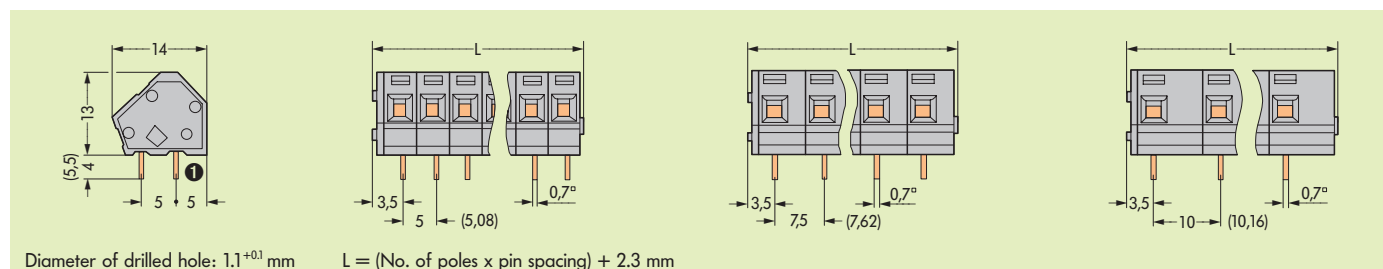
Accessories, Series 236 (Marker strips see section 9)

	Operating tool ③,			Additional item numbers for coloured terminal strips	
	plastic	236-332 1		black	.../...-004
	metal	236-335 1	blue	.../...-006	
	End plates, snap-on type, 1 mm/0.039 in thick		dark grey	.../...-008	
	grey	236-100 100	light grey	.../...-009	
	dark grey	236-200 100	orange	.../...-012	
	light grey	236-300 100	light green	.../...-017	
	blue	236-400 100	green	.../...-023	
	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 General Catalogue W4, Volume 2

Suitable for Ex i applications (only for pin spacings 7.5/7.62 mm/0.3 in and 10/10.16 mm/0.4 in)

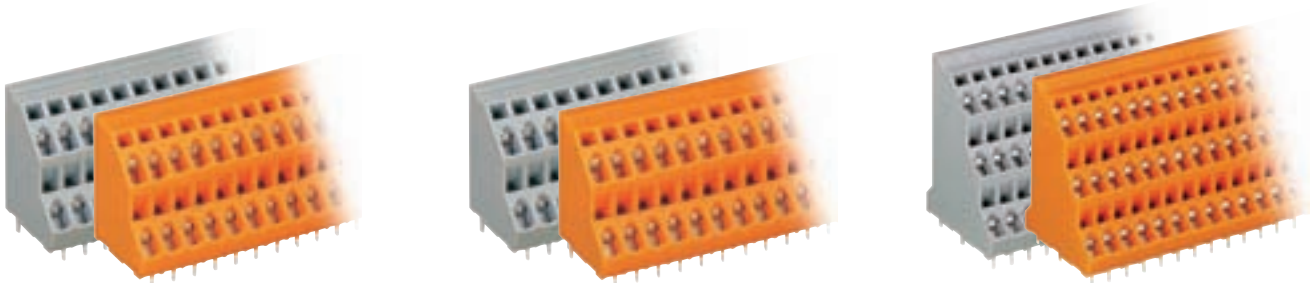
Dimensions (Adjustment of pin spacing is made by pulling on the end blocks so that they expand to satisfy the hole centers required.)



* You can find approvals on the Internet at www.wago.com. Technical explanations and abbreviations see page 10.2.
 ① solder pin rear ③ for factory wiring of terminal strips

Double Deck and Triple Deck PCB Terminal Strips 2.5 mm² Pin Spacings 5 mm/0.197 and 5.08 mm/0.2 in Series 736 and 737

Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 – 2.5 mm ² AWG 28 – 12** 250 V/4 kV/3 Ⓢ, 12 A 300 V, 10 A 500 V/4 kV/2 Ⓢ, 12 A 300/600 V, 10 A 5 – 6 mm / 0.22 in * Ⓢ CCA Ⓢ GL BV Ⓢ ABS	Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 – 2.5 mm ² AWG 28 – 12** 250 V/4 kV/3 Ⓢ, 12 A 300 V, 10 A 500 V/4 kV/2 Ⓢ, 12 A 300/600 V, 10 A 5 – 6 mm / 0.22 in * Ⓢ CCA Ⓢ GL BV Ⓢ ABS	Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 – 2.5 mm ² AWG 28 – 12** 250 V/4 kV/3 Ⓢ, 12 A 300 V, 10 A 500 V/4 kV/2 Ⓢ, 12 A 300/600 V, 10 A 5 – 6 mm / 0.22 in * Ⓢ CCA Ⓢ GL BV Ⓢ ABS
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No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.
Double deck terminal strips, 2 solder pins in line			Double deck terminal strips, 2 solder pins staggered by half the pin spacing			Triple deck terminal strips, 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
	grey	orange		grey	orange		grey	orange
2 x 2	736-102	736-302	2 x 2	736-202	736-402	2 x 3	737-102	737-302
3 x 2	736-103	736-303	3 x 2	736-203	736-403	3 x 3	737-103	737-303
4 x 2	736-104	736-304	4 x 2	736-204	736-404	4 x 3	737-104	737-304
6 x 2	736-106	736-306	6 x 2	736-206	736-406	6 x 3	737-106	737-306
8 x 2	736-108	736-308	8 x 2	736-208	736-408	8 x 3	737-108	737-308
12 x 2	736-112	736-312	12 x 2	736-212	736-412	12 x 3	737-112	737-312
16 x 2	736-116	736-316	16 x 2	736-216	736-416	16 x 3	737-116	737-316
24 x 2	736-124	736-324	24 x 2	736-224	736-424	24 x 3	737-124	737-324
For other lengths, please contact factory			For other lengths, please contact factory			For other lengths, please contact factory		

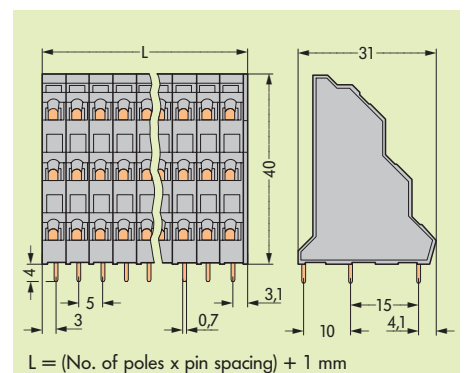
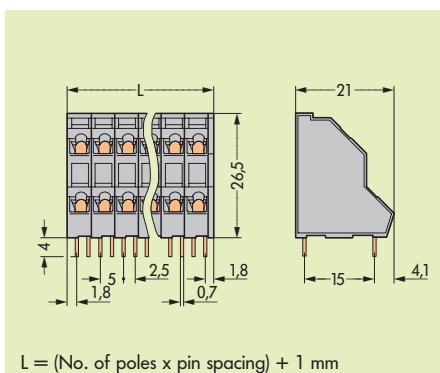
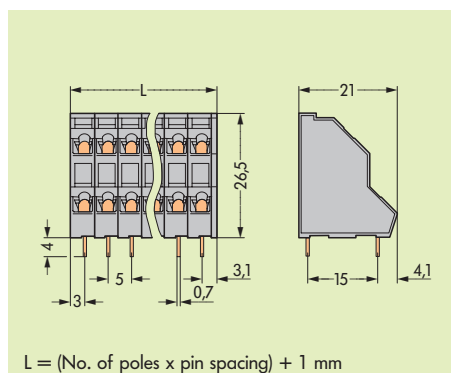
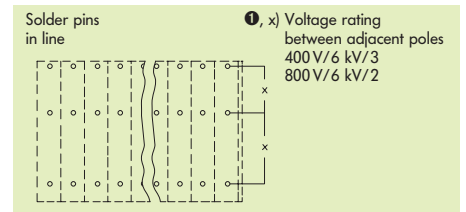
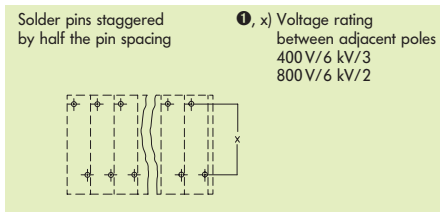
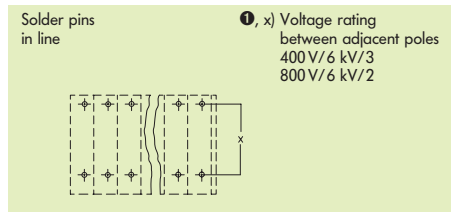
Accessories, Series 736 and 737

Marker cards, 80 self-adhesive strips per card

Marking	Pin spacing 5 mm	Pin spacing 5.08 mm
1 – 16 (160x)	210-332/0500-0202	210-332/0508-0202
17 – 32 (160x)	210-332/0500-0204	210-332/0508-0204
33 – 48 (160x)	210-332/0500-0206	210-332/0508-0206
1 – 32 (80x)	210-332/0500-0205	210-332/0508-0205

For direct printing, please contact factory

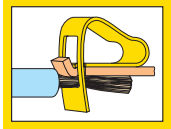
Dimensions Diameter of drilled hole: 1.3^{+0.1} mm



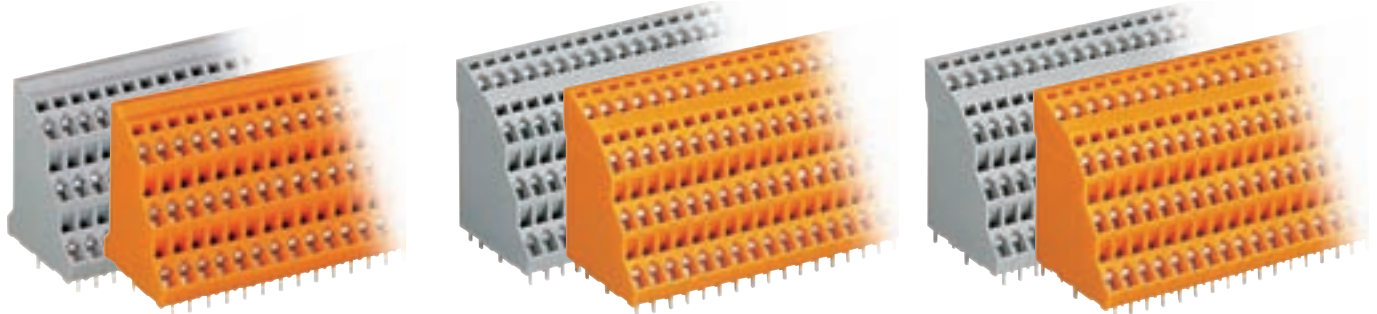
* You can find approvals on the Internet at www.wago.com. Technical explanations and abbreviations see page 10.2.

**AWG 12: THHN, THWN

Triple Deck and Quadruple Deck Terminal Strips 2.5 mm² Pin Spacings 5 mm/0.197 in and 5.08 mm/0.2 in Series 737 and 738



Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 – 2.5 mm ² AWG 28 – 12** 250 V/4 kV/3 ①, 12 A 300 V, 10 A 500 V/4 kV/2 ①, 12 A 300/600 V, 10 A 5 – 6 mm / 0.22 in	Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 – 2.5 mm ² AWG 28 – 12** 250 V/4 kV/3 ①, 10 A 300 V, 10 A 500 V/4 kV/2 ①, 10 A 300 V, 10 A 5 – 6 mm / 0.22 in	Pin spacing 5 mm / 0.197 in Pin spacing 5.08 mm / 0.2 in 0.08 – 2.5 mm ² AWG 28 – 12** 250 V/4 kV/3 ①, 10 A 300 V, 10 A 500 V/4 kV/2 ①, 10 A 300 V, 10 A 5 – 6 mm / 0.22 in
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No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.	No. of poles	Item No.	Item No.
Triple deck terminal strips, solder pins for deck 2 staggered by half the pin spacing			Quadruple deck terminal strips, 4 solder pins in line			Quadruple deck terminal strips, 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
	grey	orange		grey	orange		grey	orange
2 x 3	737-202	737-402	2 x 4	738-102	738-302	2 x 4	738-202	738-402
3 x 3	737-203	737-403	3 x 4	738-103	738-303	3 x 4	738-203	738-403
4 x 3	737-204	737-404	4 x 4	738-104	738-304	4 x 4	738-204	738-404
6 x 3	737-206	737-406	6 x 4	738-106	738-306	6 x 4	738-206	738-406
8 x 3	737-208	737-408	8 x 4	738-108	738-308	8 x 4	738-208	738-408
12 x 3	737-212	737-412	12 x 4	738-112	738-312	12 x 4	738-212	738-412
16 x 3	737-216	737-416	16 x 4	738-116	738-316	16 x 4	738-216	738-416
24 x 3	737-224	737-424	24 x 4	738-124	738-324	24 x 4	738-224	738-424
For other lengths, please contact factory			For other lengths, please contact factory			For other lengths, please contact factory		

Accessories, Series 737 and 738

Marker cards, 80 self-adhesive strips per card

Marking	Pin spacing 5 mm	Pin spacing 5.08 mm
1 – 16 (160x)	210-332/0500-0202	210-332/0508-0202
17 – 32 (160x)	210-332/0500-0204	210-332/0508-0204
33 – 48 (160x)	210-332/0500-0206	210-332/0508-0206
1 – 32 (80x)	210-332/0500-0205	210-332/0508-0205

For direct printing, please contact factory

Dimensions Diameter of drilled hole: 1.3^{+0.1}mm

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

① x) Voltage rating between adjacent poles
 x 400 V/6 kV/3
 800 V/6 kV/2

Solder pins in line

① Voltage rating between adjacent poles
 x 400 V/6 kV/3
 800 V/6 kV/2
 y 250 V/4 kV/3
 500 V/4 kV/2

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







① Voltage rating between adjacent poles
 x 400 V/6 kV/3
 800 V/6 kV/2
 y 250 V/4 kV/3
 500 V/4 kV/2




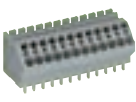
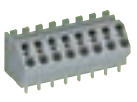
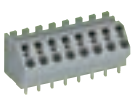
L = (No. of poles x pin spacing) + 1 mm

L = (No. of poles x pin spacing) + 1 mm

L = (No. of poles x pin spacing) + 1 mm












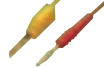



Modular PCB Terminal Blocks and Terminal Strips 4 mm² Pin Spacings 5 mm/0.197 in, 7.5 mm/0.295 in and 10 mm/0.394 in, Series 745

Pin spacing 5 mm / 0.197 in 0.08 – 4 mm ² AWG 28 – 12 250 V/4 kV/3 300 V, 20 A 20 A  8 – 9 mm / 0.33 in *  ENEC	Pin spacing 7.5 mm / 0.295 in 0.08 – 4 mm ² AWG 28 – 12 500 V/6 kV/3 300 V, 20 A 20 A  8 – 9 mm / 0.33 in *  ENEC	Pin spacing 10 mm / 0.394 in 0.08 – 4 mm ² AWG 28 – 12 630 V/8 kV/3 300 V, 20 A 20 A  8 – 9 mm / 0.33 in *  ENEC
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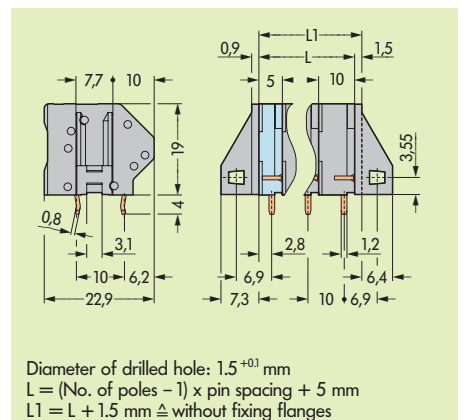
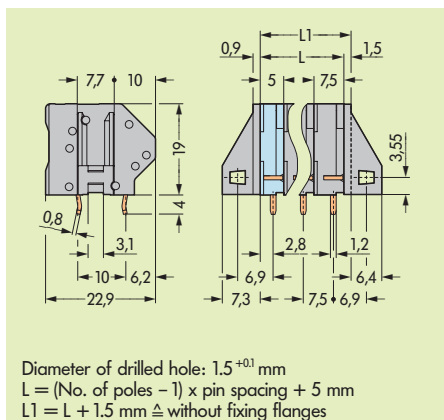
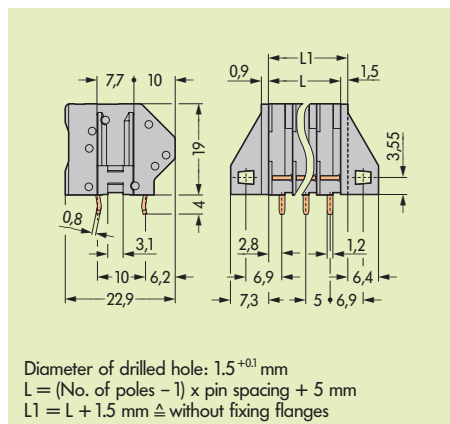
Colour	Item No.	Colour	Item No.	Colour	Item No.
Modular terminal blocks, 2 solder pins/pole		Modular terminal blocks, 2 solder pins/pole		Modular terminal blocks, 2 solder pins/pole	
	grey 745-801		grey 745-811		grey 745-821
	light grey 745-803		light grey 745-813		light grey 745-823
	blue 745-804		blue 745-814		blue 745-824
	green-yellow 745-807		green-yellow 745-817		green-yellow 745-827
	light green 745-808		light green 745-818		light green 745-828
No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.
Terminal strips without fixing flanges, grey, 2 solder pins/pole		Terminal strips without fixing flanges, grey, 2 solder pins/pole		Terminal strips without fixing flanges, grey, 2 solder pins/pole	
	2 745-102		2 745-152		2 745-202
	3 745-103		3 745-153		3 745-203
	4 745-104		4 745-154		4 745-204
	5 745-105		5 745-155		5 745-205
	: :		: :		: :
	10 745-110		10 745-160		10 745-210
	12 745-112		12 745-162		12 745-212

Accessories, Series 745

appropriate marking system **WMB/Mini-WSB**

	End plate, snap-on type, 1.5 mm/0.059 in thick, grey 745-100		End plate, snap-on type, 1.5 mm/0.059 in thick, grey 745-100		End plate, snap-on type, 1.5 mm/0.059 in thick, grey 745-100
	End plate with fixing flange grey 745-140		End plate with fixing flange grey 745-140		End plate with fixing flange grey 745-140
	End plate with fixing flange grey 745-145		End plate with fixing flange grey 745-145		End plate with fixing flange grey 745-145
	Test plug, w. cable 500 mm/177" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137		Screwdriver, with partially insulated shaft (3.5 x 0.5) mm 210-620		Test plug, w. cable 500 mm/177" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137
	Comb type jumper bar 1 to 3 745-181		Comb type jumper bar 1 to 3 745-191		Comb type jumper bar 1 to 3 745-281
	2-way 745-182		2-way 745-192		2-way 745-282
	3-way 745-183		3-way 745-193		3-way 745-283
	4-way 745-184		4-way 745-194		4-way 745-284
	5-way 745-185		5-way 745-195		5-way 745-285
	10-way 745-180		10-way 745-190		10-way 745-280

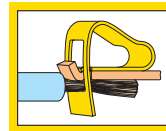
Dimensions (in mm)



* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

Modular PCB Terminal Blocks and Terminal Strips 6 mm² Pin Spacing 7.5 mm/0.295 in and 10 mm/0.394 in, Series 745



7
11

Pin spacing 7.5 mm / 0.295 in 0.2 – 6 mm ² AWG 24 – 10 400 V/6 kV/3 300 V, 30 A 32 A 11 – 12 mm / 0.45 in * ENEC	Pin spacing 10 mm / 0.394 in 0.2 – 6 mm ² AWG 24 – 10 630 V/8 kV/3 300 V, 30 A 32 A 11 – 12 mm / 0.45 in * ENEC
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Colour	Item No.	Colour	Item No.
Modular terminal blocks, 2 solder pins/pole		Modular terminal blocks, 2 solder pins/pole	
	grey 745-831		grey 745-841
	light grey 745-833		light grey 745-843
	blue 745-834		blue 745-844
	green-yellow 745-837		green-yellow 745-847
	light green 745-838		light green 745-848
No. of poles	Item No.	No. of poles	Item No.
Terminal strips without fixing flanges, grey, 2 solder pins/pole		Terminal strips without fixing flanges, grey, 2 solder pins/pole	
	2 745-302		2 745-352
	3 745-303		3 745-353
	4 745-304		4 745-354
	5 745-305		5 745-355
:	:	:	:
10	745-310	10	745-360
12	745-312	12	745-362



Additional item numbers for coloured terminal strips and end plates

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

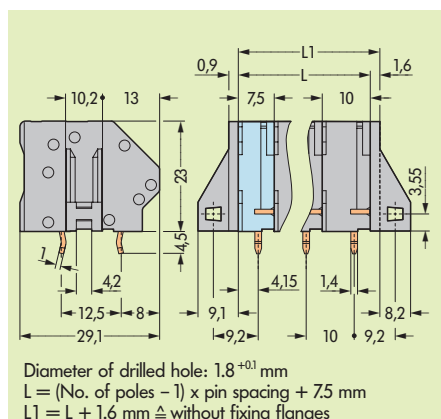
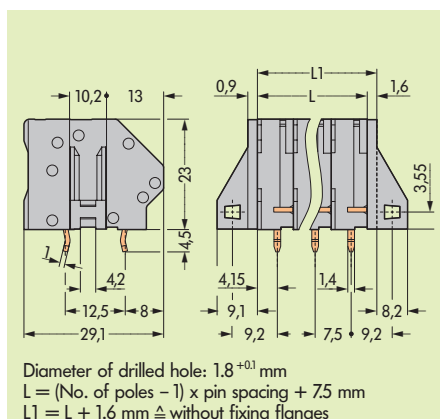
Accessories, Series 745

appropriate marking system **WMB/Mini-WSB**




	End plate, snap-on type, 1.5 mm/0.059 in thick, grey 745-300		End plate, snap-on type, 1.5 mm/0.059 in thick, grey 745-300	Ordering examples Terminal strip, pin spacing 7.5 mm 8 poles, light grey: 745-308/000-009
	End plate with fixing flange grey 745-340		End plate with fixing flange grey 745-340	Terminal strip with fixing flanges, pin spacing 10 mm
	End plate with fixing flange grey 745-345		End plate with fixing flange grey 745-345	12 poles, blue: 745-362/005-006
	Test plug, w. cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137		Screwdriver, with partially insulated shaft (5.5 x 0.8) mm 210-621	
	Comb type jumper bar 1 to 3 745-381 2-way 745-382 3-way 745-383 4-way 745-384 5-way 745-385 10-way 745-380		Comb type jumper bar 1 to 3 745-391 2-way 745-392 3-way 745-393 4-way 745-394 5-way 745-395 10-way 745-390	






















1 Suitable for Ex i applications
(only for pin spacings 7.5 mm/0.295 in
and 10 mm/0.394 in)

Dimensions (in mm)

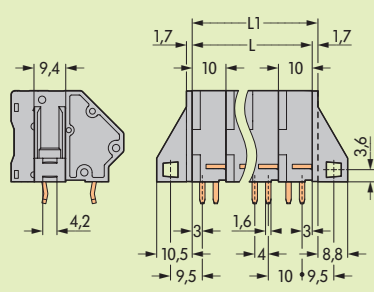


Modular PCB Terminal Blocks and Terminal Strips 16 mm² Pin Spacing 10 mm/0.394 in, 15 mm/0.591 in and 20 mm/0.787 in, Series 745

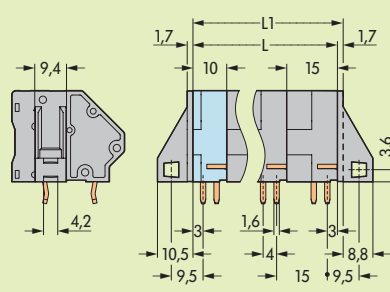
Pin spacing 10 mm / 0.394 in 0.2 – 16 mm ² AWG 24 – 6 250 V/4 kV/3 300 V, 65 A 76 A ①  12 – 13 mm / 0.49 in *ENEC	Pin spacing 15 mm / 0.591 in 0.2 – 16 mm ² AWG 24 – 6 630 V/8 kV/3 300 V, 65 A 76 A ①  12 – 13 mm / 0.49 in *ENEC	Pin spacing 20 mm / 0.787 in 0.2 – 16 mm ² AWG 24 – 6 1000 V/12 kV/3 600 V, 65 A 76 A ①  12 – 13 mm / 0.49 in *ENEC
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Colour	Item No.	Colour	Item No.	Colour	Item No.
Modular terminal blocks, 2 solder pins/pole  <ul style="list-style-type: none"> grey 745-851/006-000 light grey 745-853/006-000 blue 745-854/006-000 green-yel. 745-857/006-000 light green 745-858/006-000 		Modular terminal blocks, 2 solder pins/pole  <ul style="list-style-type: none"> grey 745-871/006-000 light grey 745-873/006-000 blue 745-874/006-000 green-yel. 745-877/006-000 light green 745-878/006-000 		Modular terminal blocks, 2 solder pins/pole  <ul style="list-style-type: none"> grey 745-881/006-000 light grey 745-883/006-000 blue 745-884/006-000 green-yel. 745-887/006-000 light green 745-888/006-000 	
Terminal strips without fixing flanges, grey, 4 solder pins/pole  <ul style="list-style-type: none"> 2 745-502/006-000 3 745-503/006-000 4 745-504/006-000 5 745-505/006-000 		Terminal strips without fixing flanges, grey, 4 solder pins/pole  <ul style="list-style-type: none"> 2 745-602/006-000 3 745-603/006-000 4 745-604/006-000 5 745-605/006-000 		Terminal strips without fixing flanges, grey, 4 solder pins/pole  <ul style="list-style-type: none"> 2 745-652/006-000 3 745-653/006-000 4 745-654/006-000 5 745-655/006-000 	
Accessories, Series 745 appropriate marking system WMB/Mini-WSB					
 End plate, snap-on type, 1.7 mm/0.059 in thick, grey 745-500		 End plate, snap-on type, 1.7 mm/0.059 in thick, grey 745-500		 End plate, snap-on type, 1.7 mm/0.059 in thick, grey 745-500	
 End plate with fixing flange grey 745-540		 End plate with fixing flange grey 745-540		 End plate with fixing flange grey 745-540	
 End plate with fixing flange grey 745-545		 End plate with fixing flange grey 745-545		 End plate with fixing flange grey 745-545	
 Test plug, w. cable 500 mm/1'77" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137		 Screwdriver, with partially insulated shaft (5.5 x 0.8) mm 210-621		 Test plug, w. cable 500 mm/1'77" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yel. 210-137	
 Comb type jumper bar 1 to 3 745-581 2-way 745-582 3-way 745-583 4-way 745-584 5-way 745-585		 Comb type jumper bar 1 to 3 745-631 2-way 745-632 3-way 745-633 4-way 745-634 5-way 745-635		 Comb type jumper bar 1 to 3 745-681 2-way 745-682 3-way 745-683 4-way 745-684 5-way 745-685	
Dimensions (in mm)					

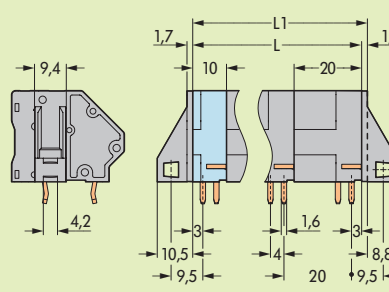
② Suitable for Ex i applications (only for pin spacings 15 mm/0.591 in and 20 mm/0.787 in)



Diameter of drilled hole: 2.2^{+0.1} mm
 L = (No. of poles - 1) x pin spacing + 10 mm
 L1 = L + 1.7 mm Δ without fixing flanges



Diameter of drilled hole: 2.2^{+0.1} mm
 L = (No. of poles - 1) x pin spacing + 10 mm
 L1 = L + 1.7 mm Δ without fixing flanges

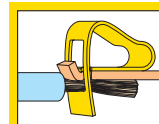


Diameter of drilled hole: 2.2^{+0.1} mm
 L = (No. of poles - 1) x pin spacing + 10 mm
 L1 = L + 1.7 mm Δ without fixing flanges

* You can find approvals on the Internet at www.wago.com.
 ① Currents require an adapted PCB track design

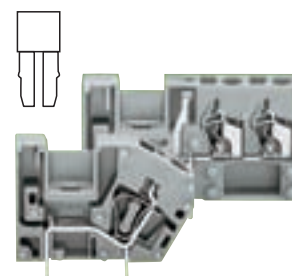
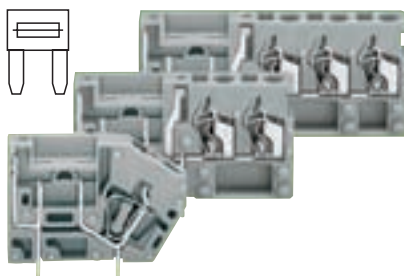
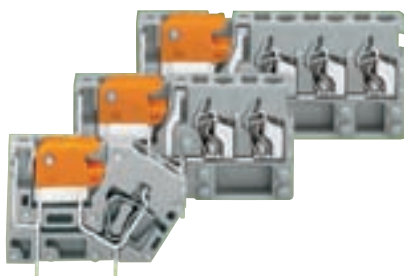
Technical explanations and abbreviations see page 10.2.

Modular PCB Fuse and Disconnect Terminal Blocks; Modular PCB Terminal Blocks with Jumpering Possibility 2.5 mm², Pin Spacings 5 mm/0.197 in and 5.08 mm/0.2 in; Series 742



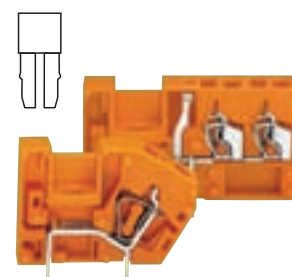
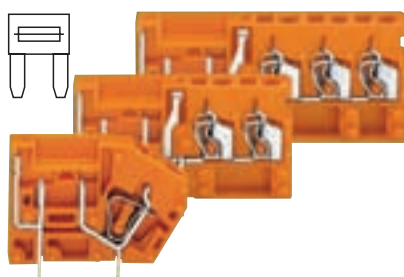
7
13

Pin spacing 5 mm / 0.197 in 0.08 – 2.5 mm ² AWG 28 – 12 250 V/4 kV/3, 16 A 300 V, 10 A 500 V/4 kV/2, 16 A 300 V, 16 A 8 – 9 mm / 0.33 in * CCA GL BV NV	Pin spacing 5 mm / 0.197 in 0.08 – 2.5 mm ² AWG 28 – 12 250 V/4 kV/3, 15 A 300 V, 10 A 500 V/4 kV/2, 15 A 300 V, 16 A 8 – 9 mm / 0.33 in *	Pin spacing 5 mm / 0.197 in 0.08 – 2.5 mm ² AWG 28 – 12 250 V/4 kV/3, 16 A 300 V, 10 A 500 V/4 kV/2, 16 A 300 V, 16 A 8 – 9 mm / 0.33 in * CCA GL BV NV
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Modular 1-conductor disconnect/test term. block, 2 solder pins/pole, disconnect link orange			Modular 1-conductor fuse terminal block, 2 solder pins/pole			Modular 1-conductor terminal block with jumpering possibility, 2 solder pins/pole		
grey	742-101	384	grey	742-111	384	grey	742-121	384
			Modular 2-conductor fuse terminal block			blue	742-124	384
						green-yellow	742-128	384
Modular 2-conductor disconnect/test term. block						Modular 2-conductor terminal blocks		
grey	742-151	200 (4 x 50)	grey	742-161	200 (4 x 50)	grey	742-171	200 (4 x 50)
			Modular 3-conductor fuse terminal block			blue	742-174	200 (4 x 50)
Modular 3-conductor disconnect/test term. block			grey	742-163	100 (2 x 50)	green-yellow	742-178	200 (4 x 50)
grey	742-153	100 (2 x 50)						

Pin spacing 5.08 mm / 0.2 in	Pin spacing 5.08 mm / 0.2 in	Pin spacing 5.08 mm / 0.2 in
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Modular 1-conductor disconnect/test term. block, 2 solder pins/pole, disconnect link white			Modular 1-conductor fuse terminal block, 2 solder pins/pole			Modular 1-conductor terminal block with jumpering possibility, 2 solder pins/pole		
orange	742-106	384	orange	742-116	384	orange	742-126	384
			Modular 2-conductor fuse terminal block			Modular 2-conductor terminal blocks		
Modular 2-conductor disconnect/test term. block						orange	742-176	200 (4 x 50)
orange	742-156	200 (4 x 50)	Modular 3-conductor fuse terminal block					
Modular 3-conductor disconnect/test term. block			Modular 3-conductor fuse terminal block					
orange	742-158	100 (2 x 50)	orange	742-168	100 (2 x 50)			

Accessories, Series 742 appropriate marking system Mini-WSB/marker strips (see section 9)

<p>End plate, snap-on type, for 1-conductor term. blocks, 1.5 mm/0.059 in thick grey 742-100 300 (3 x 100) blue 742-400 300 (3 x 100) orange 742-600 300 (3 x 100) green-yel. 742-800 300 (3 x 100)</p>	<p>End plate, snap-on type, for 2-conductor term. blocks, 1.5 mm/0.059 in thick grey 742-150 300 (3 x 100) blue 742-450 300 (3 x 100) orange 742-650 300 (3 x 100) green-yel. 742-850 300 (3 x 100)</p>	<p>End plate, snap-on type, for 3-conductor term. blocks, 1.5 mm/0.059 in thick grey 742-152 300 (3 x 100) orange 742-651 300 (3 x 100)</p>
<p>Test plug, w. cable 500 mm/1.77" 2 mm/0.079 in Ø, red 210-136 2.3 mm/0.091 in Ø, yellow 210-137</p>	<p>Blade-type fuse cartridges, acc. to DIN 72581-3f not offered by WAGO</p>	<p>Adjacent jumper, insulated, I_N 24 A grey 280-402 200 (8 x 25)</p>

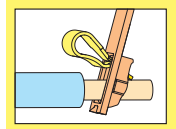
Please find the entire product range in our General Catalogue W4, Volume 2. More information at www.wago.com.

in individual arrangement 15 A, in our arrangement 10 A, from 42 V up protection against direct contact must be observed.

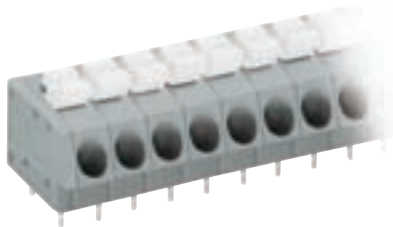


7

PCB Terminal Strips with CAGE CLAMP® S Connection 2.5 mm² Pin Spacings 5 mm/0.197 in and 7.5 mm/0.295 in; Series 804



<p>Pin spacing 5 mm / 0.197 in 0.5–2.5 mm²“s+f-str” AWG 20 – 12 “sol.+str.” 250 V/4 kV/3; 16 A 300 V, 10 A </p> <p> 10 – 11 mm / 0.41 in</p> <p>* ENEC</p>	<p>Pin spacing 7.5 mm / 0.295 in 0.5–2.5 mm²“s+f-str” AWG 20 – 12 “sol.+str.” 400 V/6 kV/3; 16 A 300 V, 10 A </p> <p> 10 – 11 mm / 0.41 in</p> <p>* </p>	<p>Application notes</p> <p>Accessories</p>
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Connection of solid wires:
Fully insert stripped wire into the terminal block

No. of poles	Item No.	Pack.-unit pcs	No. of poles	Item No.	Pack.-unit pcs
1-conductor terminal strips with push button, 2 solder pins/pole staggered, grey, with test slot for test pin 1 mm/0.039 in Ø			1-conductor terminal strips with push button, 2 solder pins/pole staggered, grey, with test slot for test pin 1 mm/0.039 in Ø		
2	804-102	420 (4 x 105)	2	804-302	320 (4 x 85)
3	804-103	280 (4 x 70)	3	804-303	220 (4 x 55)
4	804-104	220 (4 x 55)	4	804-304	160 (4 x 40)
5	804-105	180 (4 x 45)	5	804-305	120 (4 x 30)
6	804-106	140 (4 x 35)	6	804-306	100 (4 x 25)
7	804-107	120 (4 x 30)	7	804-307	80 (4 x 20)
8	804-108	100 (4 x 25)	8	804-308	80 (4 x 20)
9	804-109	100 (4 x 25)	9	804-309	60 (4 x 15)
10	804-110	80 (4 x 20)	10	804-310	60 (4 x 15)
11	804-111	80 (4 x 20)	11	804-311	60 (4 x 15)
12	804-112	60 (4 x 15)	12	804-312	40 (4 x 10)
13	804-113	60 (4 x 15)			
14	804-114	60 (4 x 15)			
15	804-115	60 (4 x 15)			
16	804-116	40 (4 x 10)			
Pin spacing 10 mm (with spacer) on request					



Connection/removal of fine-stranded wires:
Open the clamping unit using push button and fully insert stripped wire into the terminal block

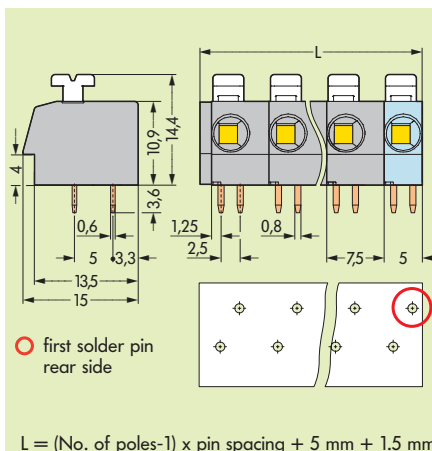
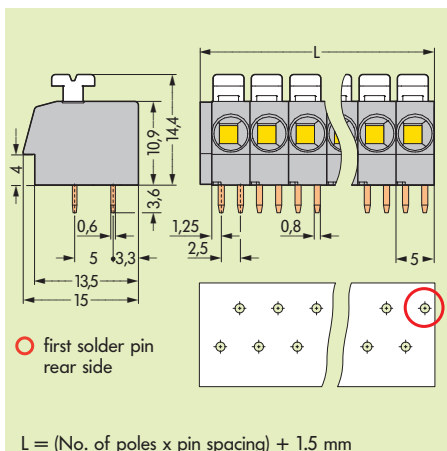
Additional item numbers for coloured terminal strips	Ordering example
red ... /000-005	Terminal strip, pin spacing 5 mm, 8 poles, orange
blue ... /000-006	2 solder pins staggered 804-108/000-012
orange ... /000-012	
light green ... /000-017	

Suitable for Ex i applications (only for pin spacings 7.5 mm/0.295 in and 10 mm/0.394 in)



Terminal blocks of different colours with/without spacers are available upon request

Dimensions (in mm) Diameter of drilled hole: 1^{+0.1} mm



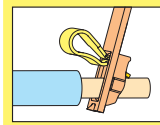
Accessories, Series 804 Item No.



Marker strips, self-adhesive,	20 strips per card
Spacing 5 mm	
1–12 (300x)	210-331/0500-0103
13–24 (300x)	210-331/0500-0104
Spacing 7.5 mm	
1–16 (100x)	210-331/0750-0202
Test pin, 1 mm/0.039 in Ø	
	735-500
	Test wire for sold. onto test plug
Screwdriver, with partially insulated shaft	
(3.5 x 0.5) mm	
	210-620 1

* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

2-Conductor Female Socket Strips with CAGE CLAMP® S Connection 1.5 mm² Pin Spacing 5 mm/0.197 in, Series 806



Pin spacing 5 mm / 0.197 in 2 x 0.2 – 1.5 mm ² 2 x AWG 24 – 16 250 V / 2.5 kV/3 300 V, 10 A Ⓢ 10 A  9 – 10 mm / 0.37 in * Ⓢ CCA	Pin spacing 5 mm / 0.197 in 2 x 0.2 – 1.5 mm ² 2 x AWG 24 – 16 250 V / 2.5 kV/3 300 V, 10 A Ⓢ 10 A  9 – 10 mm / 0.37 in * Ⓢ CCA	Application notes
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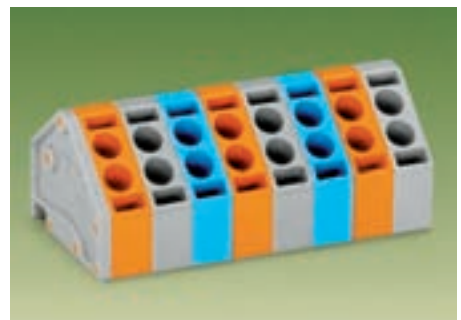
Connection of solid wires:
Fully insert stripped wire into the terminal block

Connection/removal of fine-stranded wires:
Open the clamping unit using a screwdriver (210-620) and fully insert stripped wire into the terminal block







Easy exchange of the PCB through socket strip removal

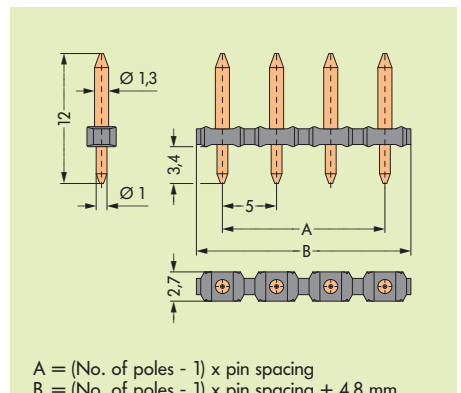
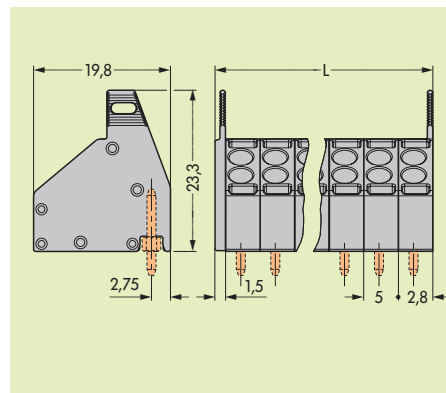
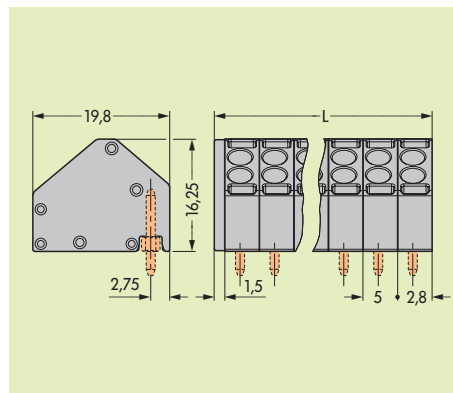
No. of poles	Item No.	No. of poles	Item No.
Female socket strips, grey		Female socket strips with removal aid, grey	
for solder pin strip		for solder pin strip	
2	806-102	2	806-202
3	806-103	3	806-203
4	806-104	4	806-204
5	806-105	5	806-205
6	806-106	6	806-206
7	806-107	7	806-207
8	806-108	8	806-208
9	806-109	9	806-209
10	806-110	10	806-210
11	806-111	11	806-211
12	806-112	12	806-212
For other lengths, please contact factory		For other lengths, please contact factory	
Additional item numbers for coloured terminal strips		Additional item numbers for coloured terminal strips	
blue	.../000-006 ●	blue	.../000-006 ●
orange	.../000-012 ●	orange	.../000-012 ●



Coloured terminal strips on request

Accessories, Series 806			
	Solder pin strip, pin 1.3 mm/0.051 in Ø solder pin 1 mm/0.039 in Ø 2 to 12 poles 806-902 to 806-912		Solder pin strip, pin 1.3 mm/0.051 in Ø solder pin 1 mm/0.039 in Ø 2 to 12 poles 806-902 to 806-912
	Marker cards, 80 self-adhesive strips per card 1 – 16 (160 x) 210-332/0500-0202 1 card Direct printing upon request		Marker cards, 80 self-adhesive strips per card 1 – 16 (160 x) 210-332/0500-0202 1 card Direct printing upon request

Dimensions (in mm) Diameter of drilled hole: 1.3 mm L = No. of poles x pin spacing + 1.5 mm



Description and Handling PCB Terminal Strips with Push-Wire Connection Series 235, 250 and 253

Series 235



Connection of conductors – insertion
Terminal blocks without push button



Fine-stranded wire, tip bonded
Connection/removal using push button



Removal of conductors without push button



Example of application – terminal strip for field connections

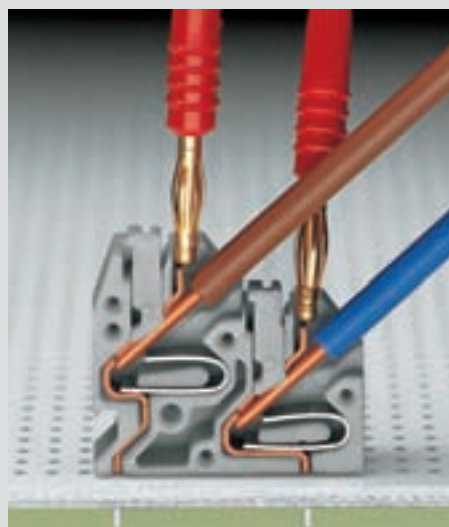
Series 250



Marking with self-adhesive marker strips
or direct printing.
Terminal strips mixed in different colours
with/without spacer – contact factory

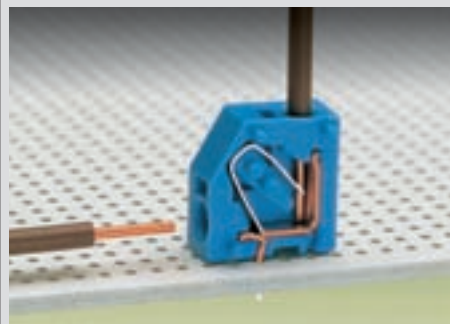


Space saving wiring.
Connection of conductors – insertion

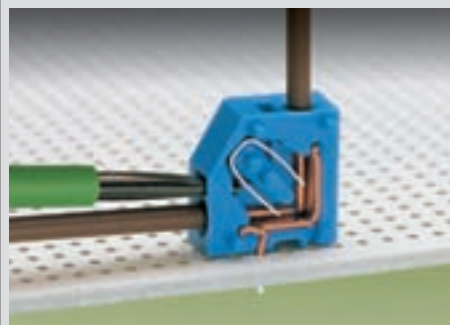


Testing with test plug 2 mm/0.079 in Ø

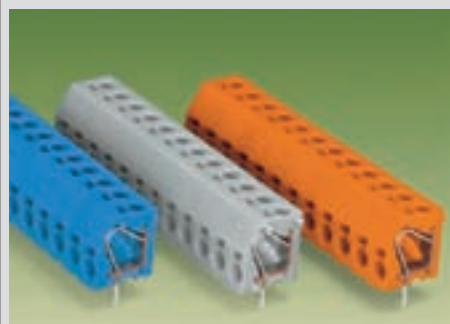
Series 253



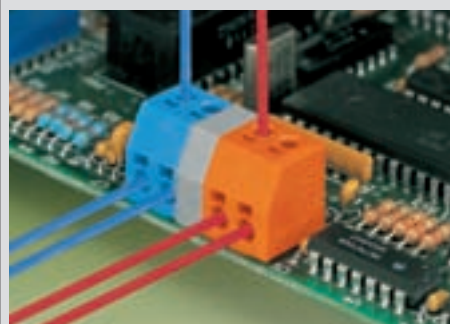
Connection of conductors – insertion
Front-entry / side-entry wiring



Disconnecting a conductor using a screwdriver
2.5 mm/0.098 in



Terminal strips available in different colours



Terminal strips mixed in different colours
with/without spacer – contact factory

The push-wire contact clamps the following copper wires:

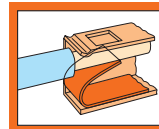


solid

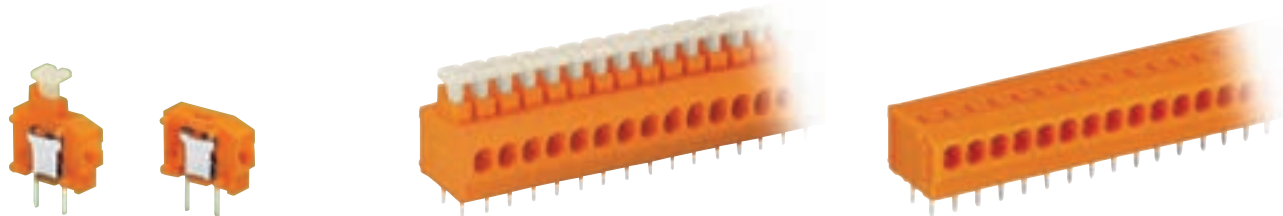


① fine-stranded, see following pages

Modular PCB Terminal Blocks and Terminal Strips 1.5 mm² Pin Spacing 3.81 mm/0.15 in; Series 235



Pin spacing 3.81 mm / 0.15 in 0.5 – 1.5 mm ² “s” ① AWG 20–16 “sol.” 200 V/4 kV/3, 10 A 300 V, 10 A ② ③ 400 V/4 kV/2, 10 A 9 – 10 mm / 0.37 in * ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳	Pin spacing 3.81 mm / 0.15 in 0.5 – 1.5 mm ² “s” ① AWG 20–16 “sol.” 200 V/4 kV/3, 10 A 300 V, 10 A ② ③ 400 V/4 kV/2, 10 A 9 – 10 mm / 0.37 in * ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳	Pin spacing 3.81 mm / 0.15 in 0.5 – 1.5 mm ² “s” AWG 20–16 “sol.” 200 V/4 kV/3, 10 A 300 V, 10 A ② ③ 400 V/4 kV/2, 10 A 300 V, 10 A ④ 9 – 10 mm / 0.37 in * ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳
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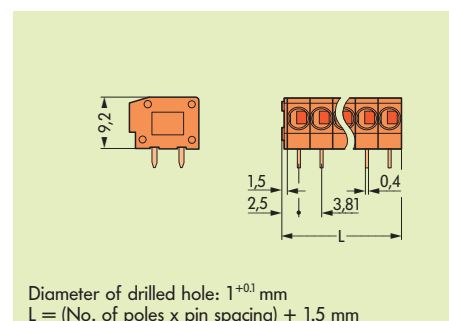
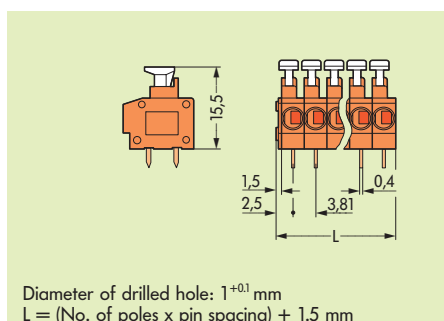
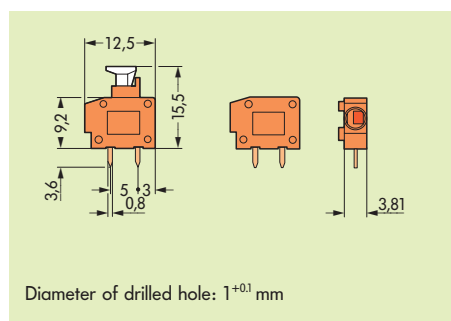


Colour	Item No.	Pack.-unit pcs	No. of poles Colour	Item No.	Pack.-unit pcs	No. of poles	Item No.	Pack.-unit pcs
Single-conductor modular terminal block with push button ①, 2 solder pins/pole			Single-conductor terminal strips with push button ①, 2 solder pins/pole, orange			Single-conductor terminal strips without push buttons, 2 solder pins/pole, orange		
orange	235-101	800 (8 x 100)	2	235-102	520 (4 x 130)	2	235-102/330-000	520 (4 x 130)
red	235-770	800 (8 x 100)	3	235-103	360 (4 x 90)	3	235-103/330-000	360 (4 x 90)
grey	235-771	800 (8 x 100)	4	235-104	280 (4 x 70)	4	235-104/330-000	280 (4 x 70)
dark grey	235-772	800 (8 x 100)	5	235-105	220 (4 x 55)	5	235-105/330-000	220 (4 x 55)
blue	235-774	800 (8 x 100)	6	235-106	180 (4 x 45)	6	235-106/330-000	180 (4 x 45)
white	235-775	800 (8 x 100)	7	235-107	160 (4 x 40)	7	235-107/330-000	160 (4 x 40)
yellow	235-776	800 (8 x 100)	8	235-108	140 (4 x 35)	8	235-108/330-000	140 (4 x 35)
light green	235-777	800 (8 x 100)	9	235-109	120 (4 x 30)	9	235-109/330-000	120 (4 x 30)
black	235-778	800 (8 x 100)	10	235-110	120 (4 x 30)	10	235-110/330-000	120 (4 x 30)
			12	235-112	100 (4 x 25)	12	235-112/330-000	100 (4 x 25)
			16	235-116	60 (4 x 15)	16	235-116/330-000	60 (4 x 15)
Single-conductor modular terminal block without push button, 2 solder pins/pole								
orange	235-101/330-000	800 (8 x 100)	24	235-124	40 (4 x 10)	24	235-124/330-000	40 (4 x 10)
			36	235-136	20 (4 x 5)	36	235-136/330-000	20 (4 x 5)
			48	235-148	20 (4 x 5)	48	235-148/330-000	20 (4 x 5)
			Additional item numbers for coloured terminal strips					
			yellow ... /000-002					
			black ... /000-004					
			red ... /000-005					
			blue ... /000-006					
			grey ... /000-007					
			dark grey ... /000-008					
			light green ... /000-017					
			white ... /000-050					
			For other lengths, please contact factory			For other lengths, please contact factory		

Accessories, Series 235 (Marker strips see chapter 9)

End plate , snap-on type, 1 mm/0.039 in thick orange 235-600 100	more coloured end plates see page 718	① Connectable conductor cross section (fine-stranded): 0.75 mm ² – 1.5 mm ² 4 A
Spacer , for doubling the pin spacing orange 235-316 100	Screwdriver , with partially insulated shaft (2.5 x 0.4) mm 210-619	

Dimensions (in mm)

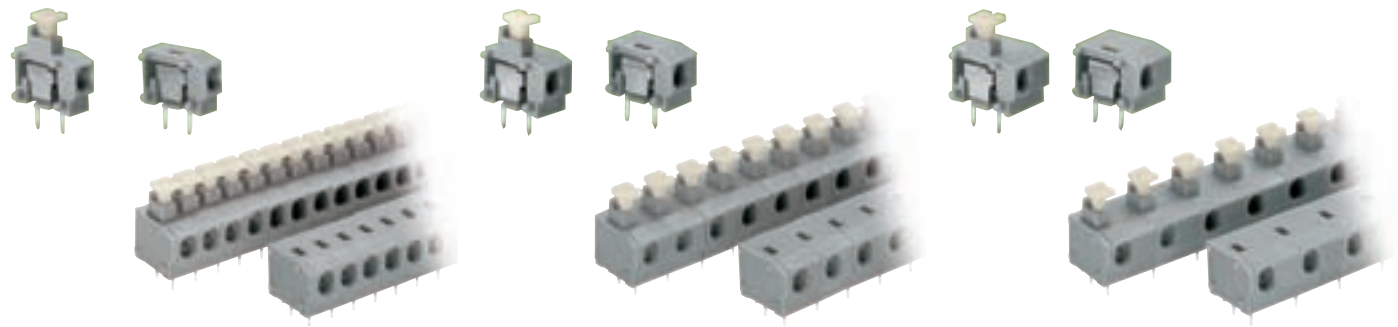


* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.





Single-Conductor Modular PCB Terminal Blocks and Terminal Strips 2.5 mm² Pin Spacings 5/5.08 mm/0.2 in, 7.5/7.62 mm/0.3 in and 10/10.16 mm/0.4 in Series 235

Pin spacing 5/5.08 mm / 0.2 in 0.5 – 2.5 mm ² s ¹ (1.5 mm ² s ¹ w. push bu.) 250 V/4 kV/3, 10 A 500 V/4 kV/2, 10 A 9 – 10 mm / 0.37 in * CCA GL BV ABS	Pin spacing 7.5/7.62 mm / 0.3 in 0.5 – 2.5 mm ² s ¹ (1.5 mm ² s ¹ w. push bu.) 400 V/6 kV/3, 10 A 800 V/6 kV/2, 10 A 9 – 10 mm / 0.37 in * CCA GL BV ABS	Pin spacing 10/10.16 mm / 0.4 in 0.5 – 2.5 mm ² s ¹ (1.5 mm ² s ¹ w. push bu.) 500 V/6 kV/3, 10 A 1000 V/6 kV/2, 10 A 9 – 10 mm / 0.37 in * CCA GL BV ABS
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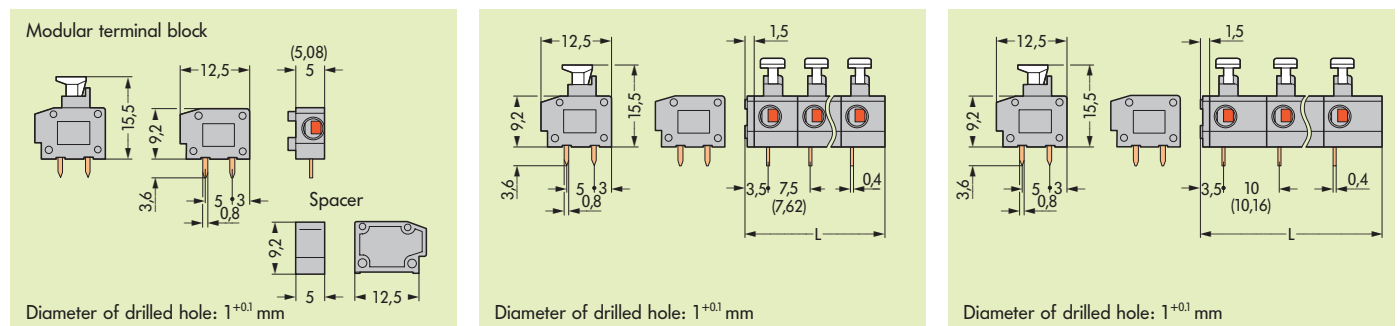


Colour No. of poles	Item No.	Item No.	Colour No. of poles	Item No.	Item No.	Colour No. of poles	Item No.	Item No.
Single-cond. modular term. bl., 2 solder pins/pole, with push buttons ①			Single-cond. modular term. bl., 2 solder pins/pole, without			Single-cond. modular term. bl., 2 solder pins/pole, with push buttons ①		
grey	235-401/331-000	235-401	grey	235-501/331-000	235-501	grey	235-801/331-000	235-801
red	235-740/331-000		dark grey	235-752/331-000	235-752	dark grey	235-762/331-000	235-762
yellow	235-741/331-000		light grey	235-753/331-000	235-753	light grey	235-763/331-000	235-763
dark grey	235-742/331-000	235-742	blue	235-754/331-000	235-754	blue	235-764/331-000	235-764
light grey	235-743/331-000	235-743	white	235-755/331-000		white	235-765/331-000	
blue	235-744/331-000	235-744	orange	235-756/331-000	235-756	orange	235-766/331-000	235-766
white	235-745/331-000		light green	235-757/331-000	235-757	light green	235-767/331-000	235-767
orange	235-746/331-000	235-746	black	235-758/331-000		black	235-768/331-000	
light green	235-747/331-000	235-747	Single-conductor terminal strips without push buttons, 2 solder pins/pole, grey, standard lengths			Single-conductor terminal strips without push buttons, 2 solder pins/pole, grey, standard lengths		
black	235-748/331-000		2	235-502	8 235-508	2	235-802	8 235-808
violet	235-749/331-000		3	235-503	9 235-509	3	235-803	9 235-809
Single-conductor terminal strips without push buttons, 2 solder pins/pole, grey, standard lengths			4	235-504	10 235-510	4	235-804	10 235-810
2	235-402	12 235-412	5	235-505	12 235-512	5	235-805	12 235-812
3	235-403	16 235-416	6	235-506	16 235-516	6	235-806	16 235-816
:	:	24 235-424	7	235-507	24 235-524	7	235-807	24 235-824
9	235-409	36 235-436	For special assemblies please contact factory			For special assemblies please contact factory		
10	235-410	48 235-448						

Accessories for modular terminal blocks and terminal strips, Series 235 (Marker strips see chapter 9)

 End plates, snap-on type, 1 mm/0.039 in thick grey 235-100 100 dark grey 235-200 100 light grey 235-300 100 blue 235-400 100 black 235-500 100 yellow 235-550 100	 End plates, snap-on type, 1 mm/0.039 in thick orange 235-600 100 violet 235-650 100 light green 235-700 100 red 235-800 100 white 235-850 100	Additional item numbers for coloured terminal strips with push buttons ① blue .../...-006 ② dark grey .../...-008 light grey .../...-009 orange .../...-012 light green .../...-017
 Spacer, for doubling the pin spacing grey 235-701 100	 Screwdriver, with partially insulated shaft (3.5 x 0.5) mm 210-620 1	① Connectable conductor cross section (fine-stranded): 0.25 mm ² – 0.5 mm ² 2 A 0.75 mm ² – 1.5 mm ² 6 A

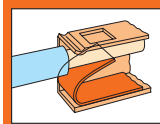
Dimensions (Adjustment of pin spacing is made by pulling on the end blocks so that they expand to satisfy the hole centers required.) L = (No. of poles x pin spacing) + 1.5 mm



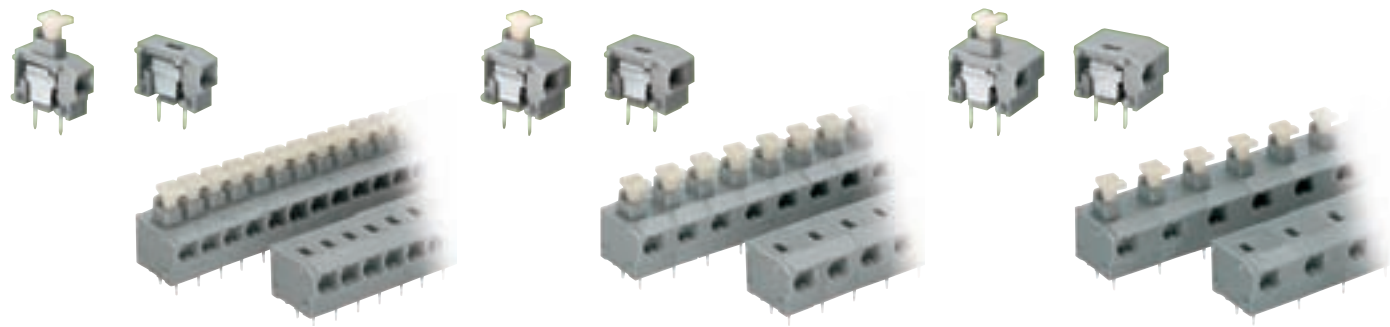
* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

2-Conductor Modular PCB Terminal Blocks and Terminal Strips 2.5 mm² Pin Spacings 5/5.08 mm/0.2 in, 7.5/7.62 mm/0.3 in and 10/10.16 mm/0.4 in; Series 235



Pin spacing 5/5.08 mm / 0.2 in 2 x 0.25 – 0.75 mm ² “s” 2 x AWG 24–18 “sol.” 250 V/4 kV/3, 10 A 300 V, 10 A 500 V/4 kV/2, 10 A 9 – 10 mm / 0.37 in *	Pin spacing 7.5/7.62 mm / 0.3 in 2 x 0.25 – 0.75 mm ² “s” 2 x AWG 24–18 “sol.” 400 V/6 kV/3, 10 A 300 V, 10 A 800 V/6 kV/2, 10 A 9 – 10 mm / 0.37 in *	Pin spacing 10/10.16 mm / 0.4 in 2 x 0.25 – 0.75 mm ² “s” 2 x AWG 24–18 “sol.” 500 V/4 kV/3, 10 A 300 V, 10 A 1000 V/4 kV/2, 10 A 9 – 10 mm / 0.37 in *
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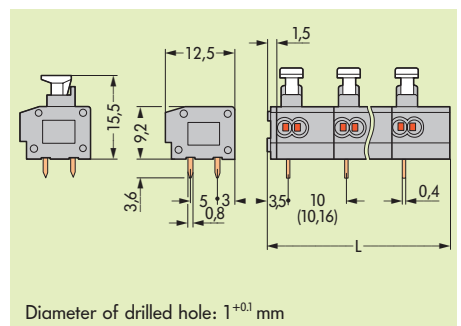
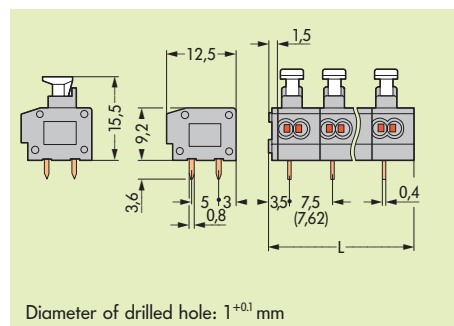
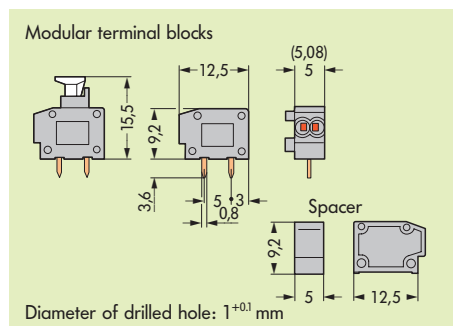


Colour	Item No.	Item No.	Colour	Item No.	Item No.	Colour	Item No.	Item No.
No. of poles			No. of poles			No. of poles		
2-conductor modular term. bl., 2 solder pins/pole, with push buttons			2-conductor modular term. bl., 2 solder pins/pole, with push buttons			2-conductor modular term. bl., 2 solder pins/pole, with push buttons		
		without			without			without
grey	235-711/331-000	235-711	grey	235-551/331-000	235-551	grey	235-851/331-000	235-851
dark grey	235-712/331-000	235-712	dark grey	235-722/331-000	235-722	dark grey	235-732/331-000	235-732
light grey	235-713/331-000	235-713	light grey	235-723/331-000	235-723	light grey	235-733/331-000	235-733
blue	235-714/331-000	235-714	blue	235-724/331-000	235-724	blue	235-734/331-000	235-734
orange	235-716/331-000	235-716	orange	235-726/331-000	235-726	orange	235-736/331-000	235-736
light green	235-717/331-000	235-717	light green	235-727/331-000	235-727	light green	235-737/331-000	235-737
2-conductor terminal strips without push buttons, 2 solder pins/pole, grey, standard lengths			2-conductor terminal strips without push buttons, 2 solder pins/pole, grey, standard lengths			2-conductor terminal strips without push buttons, 2 solder pins/pole, grey, standard lengths		
2	235-452	9 235-459	2	235-552	8 235-558	2	235-852	8 235-858
3	235-453	10 235-460	3	235-553	9 235-559	3	235-853	9 235-859
4	235-454	12 235-462	4	235-554	10 235-560	4	235-854	10 235-860
5	235-455	16 235-466	5	235-555	12 235-562	5	235-855	12 235-862
6	235-456	24 235-474	6	235-556	16 235-566	6	235-856	16 235-866
7	235-457	36 235-486	7	235-557	24 235-574	7	235-857	24 235-874
8	235-458	48 235-498						

Accessories for modular terminal blocks and terminal strips, Series 235 (Marker strips see chapter 9)

	End plates, snap-on type, 1 mm/0.039 in thick		Additional item numbers for coloured terminal strips
	grey 235-100 100		blue .../...-006
	dark grey 235-200 100		dark grey .../...-008
	light grey 235-300 100		light grey .../...-009
	blue 235-400 100		orange .../...-012
orange 235-600 100	light green .../...-017		
light green 235-700 100			
	Spacer, for doubling the pin spacing	Additional item numbers for 2 conductor terminal blocks with push buttons .../331-000	② Suitable for Ex i applications (only for pin spacings 7.5/7.62 mm and 10/10.16 mm)
	grey 235-701 100		

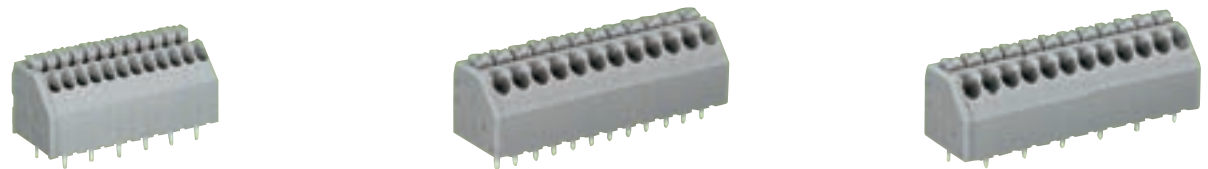
Dimensions (Adjustment of pin spacing is made by pulling on the end blocks so that they expand to satisfy the hole centers required.) **L = (No. of poles x pin spacing) + 1.5 mm**



* You can find approvals on the Internet at www.wago.com.

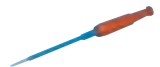

PCB Terminal Strips 0.8 mm Ø and 1.5 mm² Pin Spacings 2.5 mm/0.098 in; 2.54 mm/0.1 in and 3.5 mm/0.138 in; Series 250

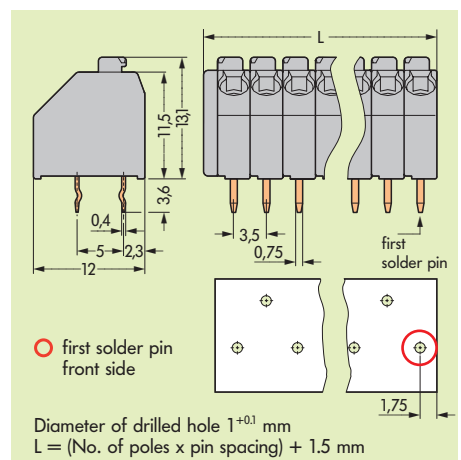
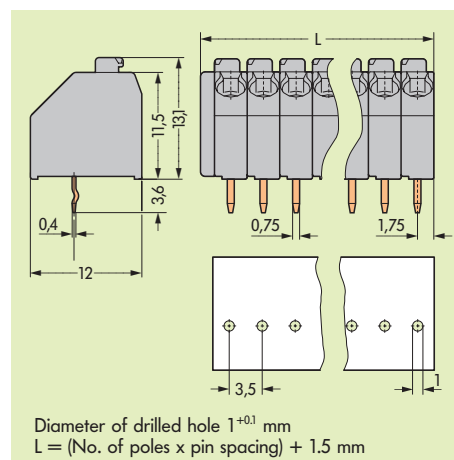
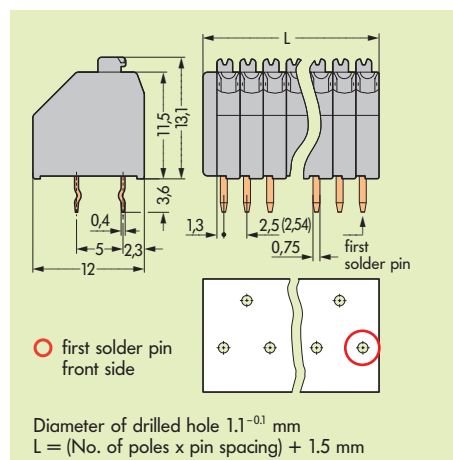
Pin spacing 2.5 mm / 0.098 in Pin spacing 2.54 mm / 0.1 in 0.4 – 0.8 mm Ø "s" ① AWG 26 – 20 "sol." 250 V/2.5 kV/2 300 V, 2 A ② ③ 2 A 8.5 – 9.5 mm / 0.35 in * ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳	Pin spacing 3.5 mm / 0.138 in 0.5 – 1.5 mm ² "s+f-s" AWG 20 – 16 "sol." 250 V/2.5 kV/2 300 V, 2 A ② ③ 2 A ④ 8.5 – 9.5 mm / 0.35 in * ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳	Pin spacing 3.5 mm / 0.138 in 0.5 – 1.5 mm ² "s+f-s" AWG 20 – 16 "sol." 400 V/4 kV/2 300 V, 2 A ② ③ 2 A ④ 8.5 – 9.5 mm / 0.35 in * ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳
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No. of poles Colour	Item No.	Item No.	No. of poles Colour	Item No.	Pack.-unit pcs	No. of poles Colour	Item No.	Pack.-unit pcs
1-conductor terminal strips with push button, 1 solder pin/pole staggered, grey with test slot for test pin up to 1.3 mm/0.051 in Ø			1-conductor terminal strips with push button, 1 solder pins/pole front, grey, with test slot for test pin up to 1.3 mm/0.051 in Ø			1-conductor terminal strips with push button, 1 solder pin/pole staggered, grey with test slot for test pin up to 1.3 mm/0.051 in Ø		
	Pin spacing 5 mm	5.08 mm	2	250-102	560 (4 x 140)	2	250-202	560 (4 x 140)
2	250-402	250-1402	3	250-103	400 (4 x 100)	3	250-203	400 (4 x 100)
3	250-403	250-1403	4	250-104	300 (4 x 75)	4	250-204	300 (4 x 75)
4	250-404	250-1404	5	250-105	240 (4 x 60)	5	250-205	240 (4 x 60)
:	:	:	:	:	:	:	:	:
11	250-411	250-1411	11	250-111	120 (4 x 30)	11	250-211	120 (4 x 30)
12	250-412	250-1412	12	250-112	100 (4 x 25)	12	250-212	100 (4 x 25)
:	:	:	:	:	:	:	:	:
19	250-419	250-1419	17	250-117	80 (4 x 20)	17	250-217	80 (4 x 20)
20	250-420	250-1420	18	250-118	60 (4 x 15)	18	250-218	60 (4 x 15)
21	250-421	250-1421	19	250-119	60 (4 x 15)	19	250-219	60 (4 x 15)
22	250-422	250-1422	20	250-120	60 (4 x 15)	20	250-220	60 (4 x 15)
23	250-423	250-1423	21	250-121	60 (4 x 15)	21	250-221	60 (4 x 15)
24	250-424	250-1424	22	250-122	60 (4 x 15)	22	250-222	60 (4 x 15)
For pin spacing 2.5 mm and 2.54 mm			For pin spacing 3.5 mm			For pin spacing 3.5 mm		
Additional item numbers for coloured terminal strips			Additional item numbers for coloured terminal strips			Additional item numbers for coloured terminal strips		
black	... /000-004 ●		yellow	... /000-002 ●		brown	... /000-014 ●	
red	... /000-005 ●		black	... /000-004 ●		light green	... /000-017 ●	
blue	... /000-006 ●		red	... /000-005 ●		violet	... /000-024 ●	
light grey	... /000-009 ○		blue	... /000-006 ●		white	... /000-050 ○	
orange	... /000-012 ●		light grey	... /000-009 ○		For other colours, please contact factory		
violet	... /000-024 ●		orange	... /000-012 ●				
white	... /000-050 ○							

Accessories, Series 250 (Marker strips see chapter 9)

① Connectable conductor cross section (fine-stranded): 0.2 mm ² – 0.5 mm ²	 Test pin, 1 mm/0.039 in Ø 735-500 Test wire for sold. onto test plug	 Screwdriver, with partially insulated shaft (3.5 x 0.5) mm 210-619 1
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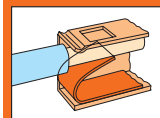


* You can find approvals on the Internet at www.wago.com.
 Technical explanations and abbreviations see page 10.2.

② Higher currents on request

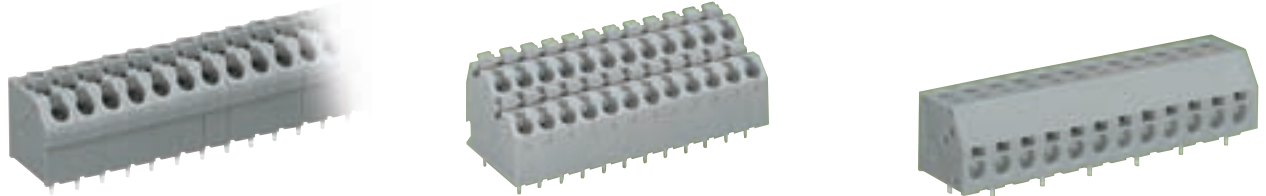
PCB Terminal Strips 1.5 mm²; Pin Spacings 5 mm/0.197 in and 7.5 mm/0.295 in; Series 250

PCB Terminal Strips 1.5 mm²; Pin Spacing 5 mm/0.197 in; Series 253



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 "s" ① AWG 22 – 14 "sol." 800 V/4 kV/2 300 V, 2 A ② 10 A 300 V, 10 A ③ 9 – 10 mm / 0.37 in	Pin spacing 5 mm / 0.197 in 0.5 – 1.5 mm ² "s" ① AWG 22 – 14 "sol." 400 V/4 kV/2 300 V, 10 A ② 10 A 9 mm / 0.35 in * ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿	Pin spacing 5 mm / 0.197 in 2 x 0.5 – 1.5 mm ² "s" AWG 20 – 16 "sol." 500 V/4 kV/2; 10 A 300 V, 2 A ② ③ 8.5 – 9.5 mm / 0.35 in, for front- and side-entry 7 – 8 mm / 0.30 in * ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿
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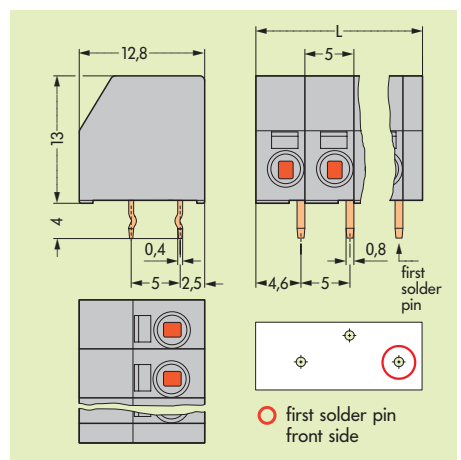
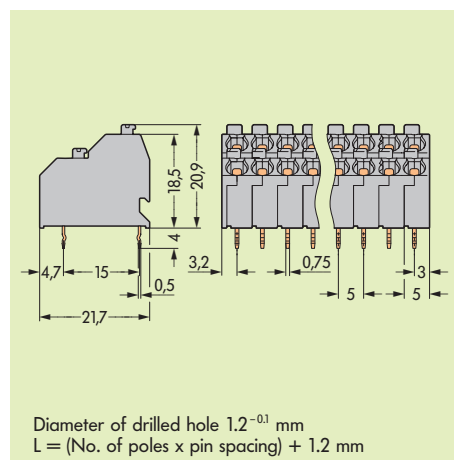
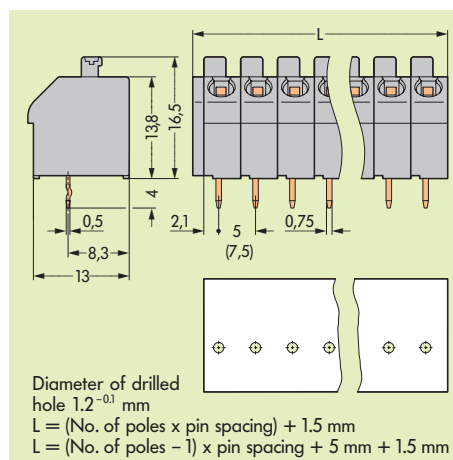
* ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿



No. of poles Colour	Item No.	Item No.	No. of poles Colour	Item No.	Pack.-unit pcs	No. of poles Colour	Item No.	Pack.-unit pcs			
1-conductor terminal strips with push button, 1 solder pin/pole in line, grey, with test slot for test pin up to 2 mm/0.079 in Ø			Double deck terminal strips with push buttons, 2 solder pin/pole in line, with test slot for test pin up to 2 mm/0.079 in Ø, grey			2-conductor terminal strips without push buttons, 1 solder pin/pole staggered, grey					
	Pin spacing 5 mm	7.5 mm									
2	250-502	250-602	2 x 2	250-702	264 (4 x 66)	2	253-102	400 (4 x 100)			
3	250-503	250-603	3 x 2	250-703	180 (4 x 45)	3	253-103	280 (4 x 70)			
:	:	:	4 x 2	250-704	132 (4 x 33)	4	253-104	200 (4 x 50)			
8	250-508	250-608	6 x 2	250-706	84 (4 x 21)	5	253-105	160 (4 x 40)			
9	250-509	250-609	8 x 2	250-708	72 (4 x 18)	6	253-106	140 (4 x 35)			
10	250-510	250-610	10 x 2	250-710	48 (4 x 12)	7	253-107	120 (4 x 30)			
11	250-511	250-611	12 x 2	250-712	36 (4 x 9)	8	253-108	100 (4 x 25)			
12	250-512	250-612	16 x 2	250-716	24 (4 x 6)	9	253-109	100 (4 x 25)			
13	250-513		24 x 2	250-724	12 (4 x 3)	10	253-110	80 (4 x 20)			
14	250-514		For other lengths, please contact factory			11	253-111	80 (4 x 20)			
15	250-515		For pin spacing 5 mm			12	253-112	60 (4 x 15)			
16	250-516		Additional item numbers for coloured terminal strips			13	253-113	60 (4 x 15)			
For pin spacings 5 mm and 7.5 mm			Additional item numbers for coloured terminal strips			14	253-114	60 (4 x 15)			
yellow	... /000-002	●	blue	... /000-006	●	15	253-115	60 (4 x 15)			
red	... /000-005	●	orange	... /000-012	●	16	253-116	40 (4 x 10)			
blue	... /000-006	●	① Connectable conductor cross section (fine-stranded): 0.5 mm ² 2 A 0.75 mm ² – 1.5 mm ² 4 A			Additional item numbers for coloured terminal strips					
light grey	... /000-009	○				yellow	... /000-002	●	black	... /000-004	●
orange	... /000-012	●				red	... /000-005	●	red	... /000-005	●
brown	... /000-014	●				blue	... /000-006	●	light grey	... /000-009	○
light green	... /000-017	●				light grey	... /000-009	○	orange	... /000-012	●
white	... /000-050	○	orange	... /000-012	●	light green	... /000-017	●			
For other colours, please contact factory			white	... /000-050	○	violet	... /000-024	●			
			white	... /000-050	○	white	... /000-050	○			

Accessories, Series 250 (Marker strips see chapter 9)

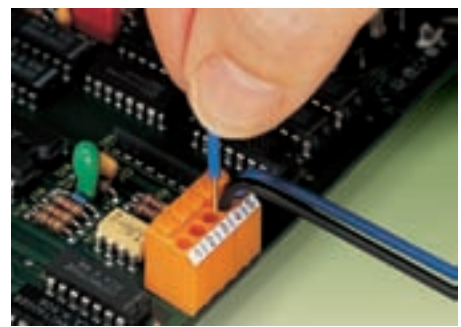
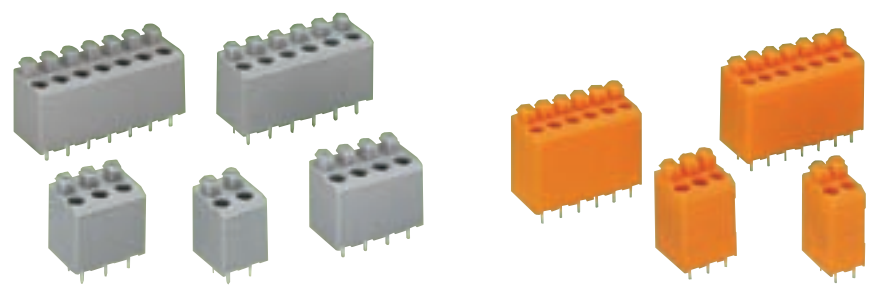
Test plug, w. cable 500 mm/177", 2 mm Ø red 210-136 50 (5 x 10)	Test plug, w. cable 500 mm/177" 2 mm Ø, red 210-136 50 2.3 mm Ø, yel. 210-137 50	Dimensions series 253 (in mm) Diameter of drilled hole: 1.1 ^{+0.1} mm L = (No. of poles x pin spacing) + 2 mm
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------



* You can find approvals on the Internet at www.wago.com.

PCB Terminal Blocks 1.5 mm² Pin Spacings 5 mm/0.197 in and 3.81 mm/0.15 in Series 735

Pin spacing 5 mm / 0.197 in 0.5 – 1.5 mm ² "s" AWG 20 – 16 "sol." 400 V/4 kV/2 300 V, 10 A 10 A 300 V, 10 A 8 – 9 mm / 0.33 in *	Pin spacing 3.81 mm / 0.15 in 0.5 – 1.5 mm ² "s" AWG 20 – 16 "sol." 400 V/4 kV/2** 300 V, 10 A 10 A 300 V, 10 A 8 – 9 mm / 0.33 in *	Description and handling
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------

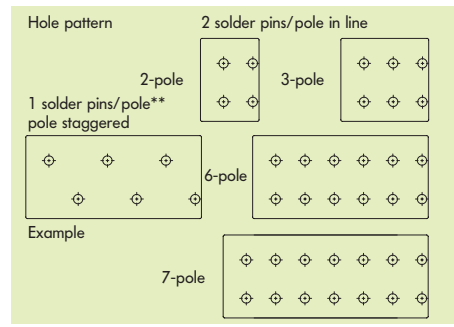
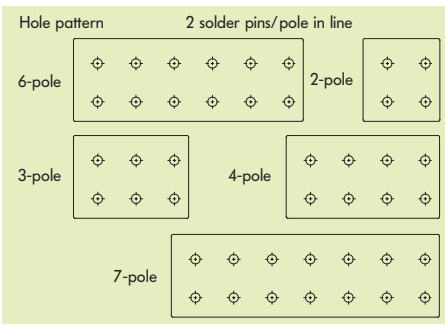


Terminal block for 0.5 mm² – 1.5 mm² / AWG 20-16 solid wires

No. of poles	Item No.	Pack.-unit pcs	No. of poles	Item No.	Pack.-unit pcs
Terminal blocks with push buttons, 2 solder pins/pole in line, grey, with test slot for test pin 1 mm/0.039 in Ø without spacer – low version –			Terminal blocks with push buttons, 2 solder pins/pole in line, orange, with test slot for test pin 1 mm/0.039 in Ø without spacer – high version –		
2	735-302	500	2	735-122	660
3	735-303	320	3	735-123	440
4	735-304	240			
6	735-306	160	6	735-126	220
7	735-307	140	7	735-127	180
Direct printing on request					

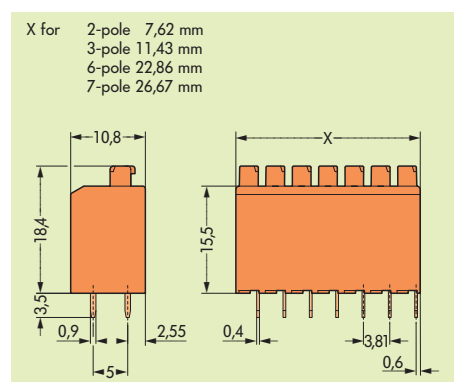
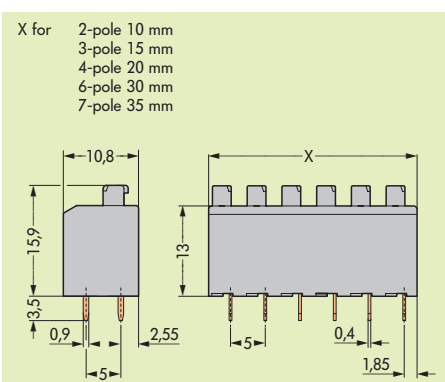


Testing with test pin 1 mm/0.039 in Ø



Use of spacer(s) allows increased air and creepage distances see General Catalogue W4, Volume 2

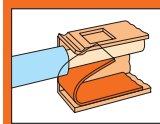
Accessories, Series 735 (Marker strips see chapter 9)	
Test pin, 1 mm/0.039 in Ø 735-500 1 Test wire for sold. onto test plug	Screwdriver, with partially insulated shaft (2.5 x 0.4) mm 210-619 1
Dimensions (in mm) Diameter of drilled hole 1^{+0.1} mm	



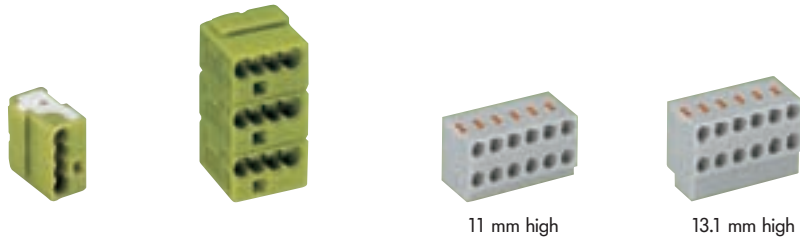
Pin center spacing may be maintained in an assembly

*You can find approvals on the Internet at www.wago.com. Technical explanations and abbreviations see page 10.2.
 **Versions with staggered solder pins that allow increased air and creepage distances on request

Modular Female PCB Connectors; Pin Spacing 5.75 mm; Series 243 2-Conductor Female PCB Terminal Blocks; Pin Spacing 3.5 mm; Series 252



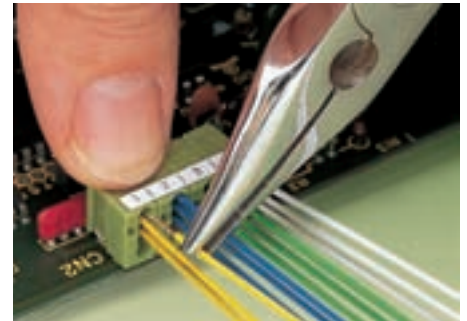
Pin spacing 5.75 mm / 0.226 in 4 x 0.5 Ø / 4 x 0.6 Ø / 4 x 0.8 Ø / 4 x 1 Ø mm "s" 4 x AWG 24 / 4 x AWG 22 / 4 x AWG 20 / 4 x AWG 18 "sol." 125 V 100 V / 1.5 kV / 2, 6 A 150 V 5 – 6 mm / 0.22 in	Pin spacing 3.5 mm / 0.138 in 2 x 0.4 – 0.8 Ø mm "s" 2 x AWG 26 – 20 "sol." 100 V / 1.5 kV / 2 300 V, 2 A 2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



11 mm high

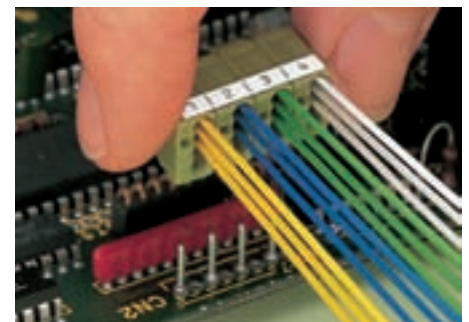
13.1 mm high

Series 243



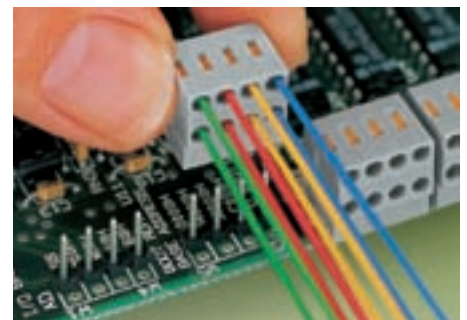
Connection:
Conductor is pushed in until the stop using pliers

Colour No. of poles	Item No.	Pack.-unit pcs	No. of poles	Item No.	Item No.
Female connectors , can be assembled to female strips using dovetail joints, with test slot, for solid wires			Female terminal blocks , grey for individual solder pins solder strip		
grey	243-721	400	2	252-102	252-152
blue	243-722	400	3	252-103	252-153
orange	243-723	400	4	252-104	252-154
light green	243-724	400	5	252-105	252-155
			6	252-106	252-156
			7	252-107	252-157
			8	252-108	252-158
			9	252-109	252-159
			10	252-110	252-160
			For other lengths, please contact factory		
Accessories, Series 252					
			Solder pin ,	Ø 1 x 8.5 mm for PCBs up to 2 mm / 0.079 in thick 243-131 for 11 mm high version	
			Solder pin strip ,	2 to 10 poles 252-902 to 252-910 for 13.1 mm high version	
Other colours see General Catalogue W4, Volume 2					
Accessories, Series 243					
			Solder pin , for PCBs up to 2 mm / 0.079 in thick	Solder pin strip with strain relief ,	
			243-131	4 poles 252-954 for 13.1 mm high version	
				1000	
Marker card ,			Marker cards ,		
			80 self-adhesive strips per card		
1 – 12 (160 x)			1 – 16 (240 x) 210-332/0350-0202		
210-332/0575-0103 1 card			17 – 32 (240 x) 210-332/0350-0204		

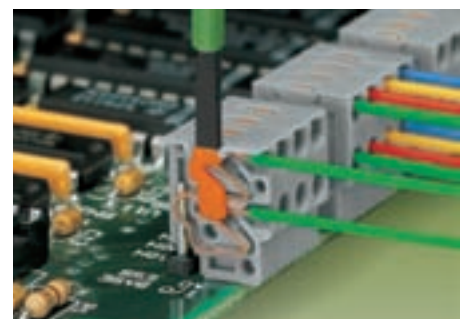


Replacement of the board by disconnection of the female connector strip

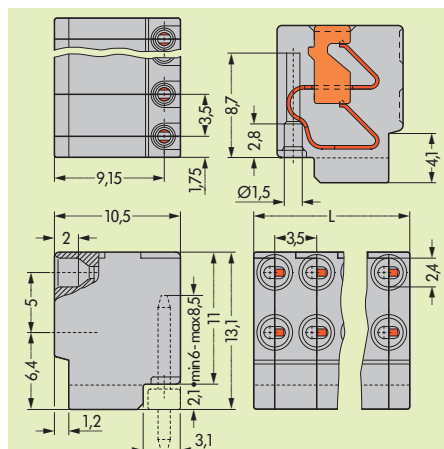
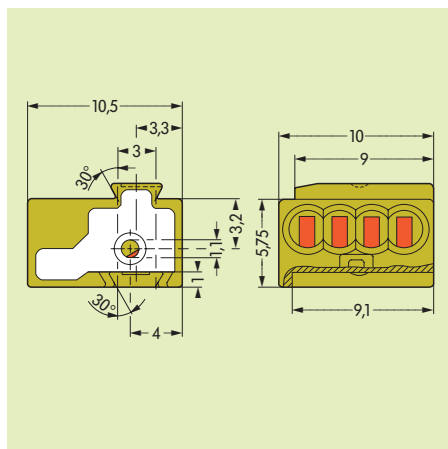
Series 252



Replacement of the board by disconnection of the female connector strip

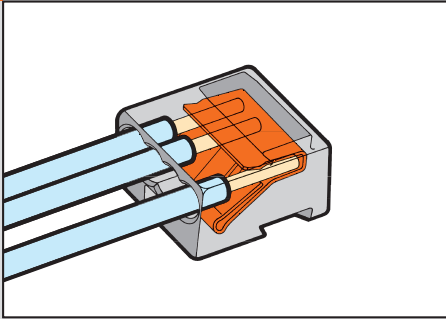


Removal of conductors



* You can find approvals on the Internet at www.wago.com.

Description and Handling MICRO Push-Wire Connectors for Junction Boxes,^① Series 243



Stripped length



Strip solid conductor to 5 – 6 mm / 0.22 in

Connector blocks



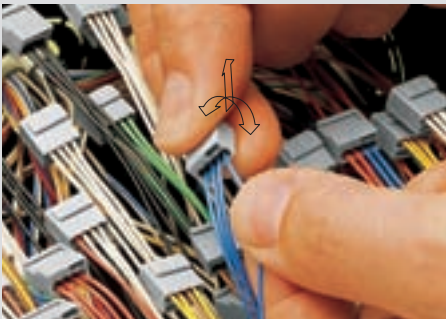
Assembly of modular connectors to connector strips

Push-wire connection



Connection: Insert stripped conductor FULLY.

Push-wire connection



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



Testing



Testing

Commoning



Commoned connector blocks

Packing units



Box for use on site (example)
Contents series 243: 50 pcs 8-conductor
100 pcs 4-conductor

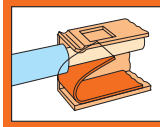
The push-wire connection clamps the following copper wires:



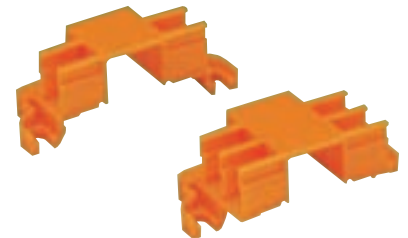
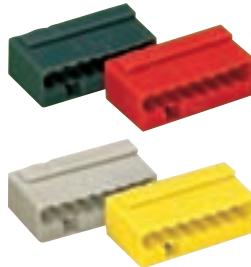
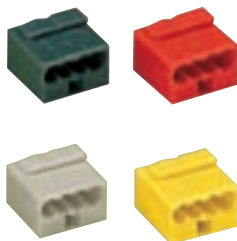
solid

① For distribution connectors for **EIB** (Euro Installation Bus) see General Catalogue W4, Volume 2, page 2.4

MICRO Push-Wire Connectors for Junction Boxes, Fixing Carrier Series 243



<p>4 x 0.6 – 0.8 Ø mm "s" ** 100 V/1.5 kV/2 6 A</p> <p>4 x AWG 22 – 20 "sol." ** 125 V, 7 A 150 V, 7 A</p> <p>5 – 6 mm / 0.22 in</p> <p>* VDE KEH CCA S O P A</p>	<p>8 x 0.6 – 0.8 Ø mm "s" ** 100 V/1.5 kV/2 6 A</p> <p>8 x AWG 22 – 20 "sol." ** 125 V, 7 A 150 V, 7 A</p> <p>5 – 6 mm / 0.22 in</p> <p>* VDE KEH CCA S O P A</p>	<p>Fixing carrier for MICRO push-wire connectors</p>
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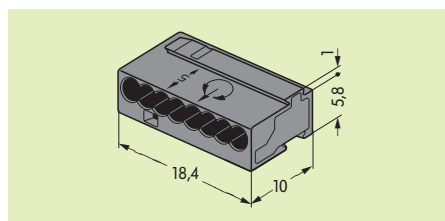
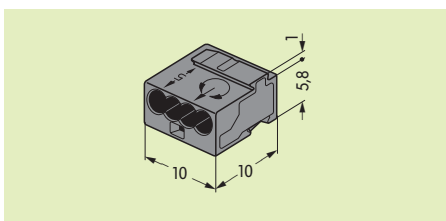
Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Description	Item No.	Pack.-unit pcs
MICRO push-wire connectors for junction boxes, 4-conductor connectors			MICRO push-wire connectors for junction boxes, 8-conductor connectors			Fixing carrier		
dark grey	243-204	1000 (10 x 100)	dark grey	243-208	500 (10 x 50)	for 4 push-wire connectors	243-112	50 (5 x 10)
red	243-804	1000 (10 x 100)	red	243-808	500 (10 x 50)	for 6 push-wire connectors	243-113	50 (5 x 10)
light grey	243-304	1000 (10 x 100)	light grey	243-308	500 (10 x 50)	Marker strip, plain	243-110	1
yellow	243-504	1000 (10 x 100)	yellow	243-508	500 (10 x 50)			

<p>4 x 0.4 – 0.5 Ø mm "s" 100 V/1.5 kV/2 6 A</p> <p>5 – 6 mm / 0.22 in</p> <p>* VDE CCA S O P A</p>	<p>4 x AWG 26 – 24 "sol."</p>
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Colour	Item No.	Pack.-unit pcs
MICRO push-wire connector for junction boxes, 4-conductor connector		
transparent	243-144	1000 (10 x 100)

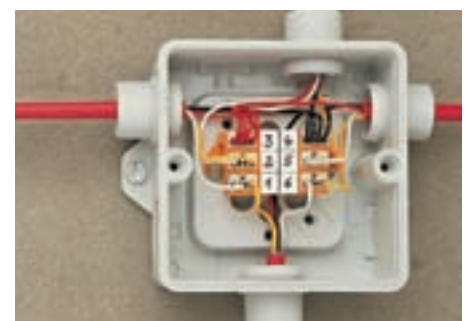
Dimensions (in mm)



Inserting a MICRO push-wire connector for junction boxes into the carrier



Example of house-bell application – mounted on DIN 35 rail



Typical application in a terminal box for burglar alarm – screw fixing

* You can find approvals on the Internet at www.wago.com.

**When using wires of the same diameter only, 0.5 Ø mm/AWG 24 or 1.0 Ø mm/AWG 18 are also possible

Technical explanations and abbreviations see page 10.2.

System and Handling Push-Wire Connectors for Junction Boxes, Series 773

Stripped length

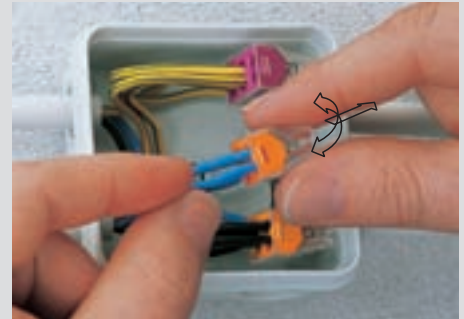


Strip solid conductor to 12 mm / 0.47 in

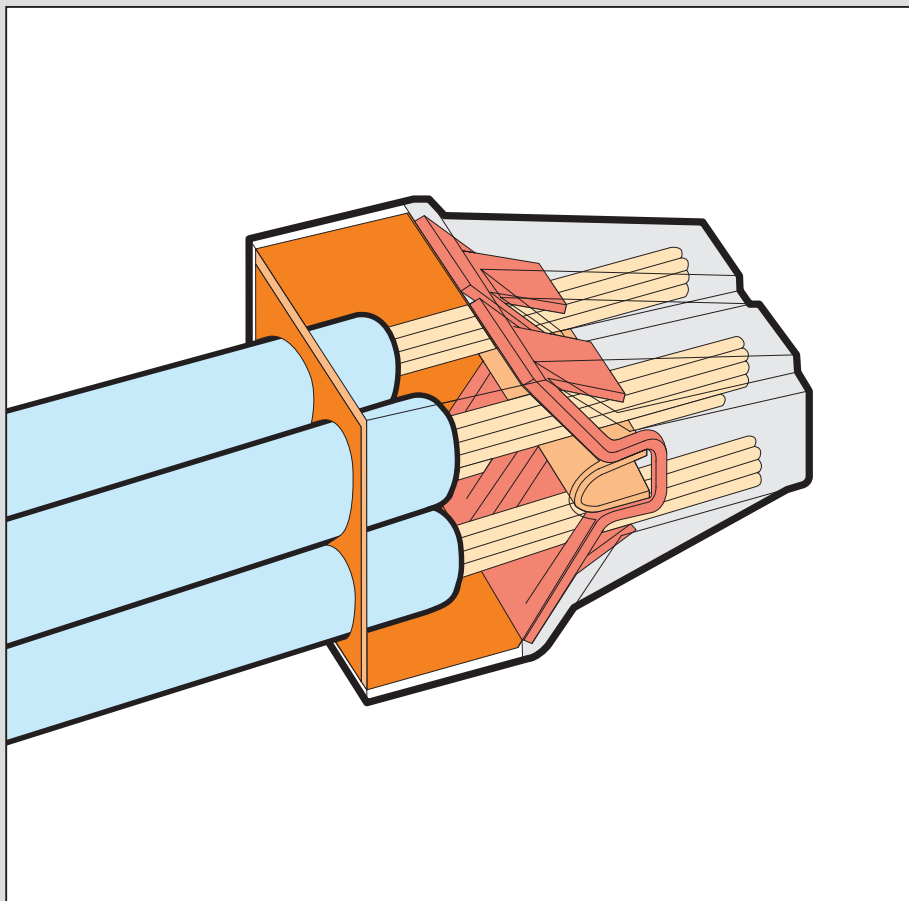
Push-wire connection



Connection: Insert stripped solid conductor FULLY



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



Stranded conductors



Connection: Insert stripped stranded conductor FULLY

Testing



Testing

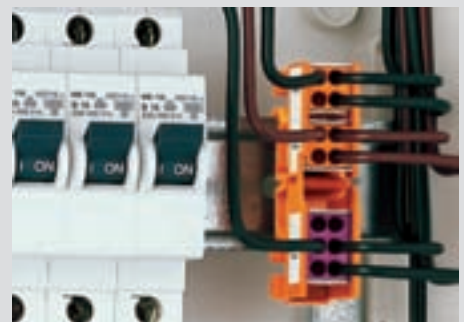
Applications



Push-wire connectors used in a junction box. (Australia)



Push-wire connectors used in a junction box. (Japan)

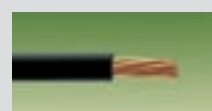


Fixing carrier

The push-wire connection clamps the following copper wires:

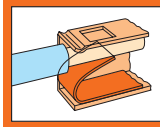


solid

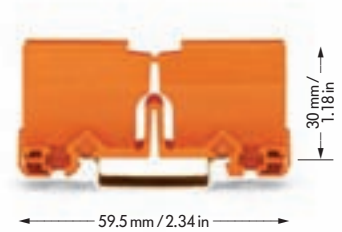
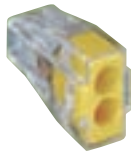


stranded

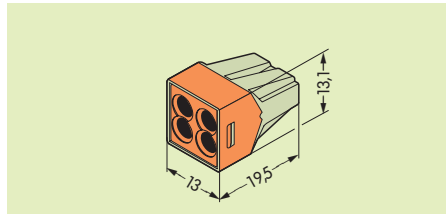
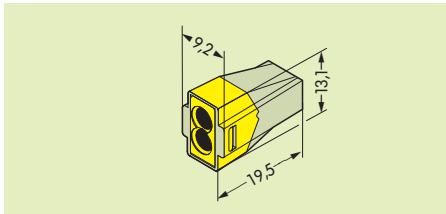
Push-Wire Connectors for Junction Boxes Series 773



<p>2 x 0.75 – 2.5 mm²sst 2 x 1.5 – 2.5 mm²sst 400 V / 4 kV / 2** 24 A</p> <p>2 x AWG 18 – 12 "sol." 2 x AWG 16 – 12 "str." 600 V, 20 A </p> <p></p> <p>* </p>	<p>4 x 0.75 – 2.5 mm²sst 4 x 1.5 – 2.5 mm²stst 400 V / 4 kV / 2** 24 A</p> <p>4 x AWG 18 – 12 "sol." 4 x AWG 16 – 12 "str." 600 V, 20 A </p> <p></p> <p>* </p>	<p>Carrier for push-wire connectors</p> <p>Carrier width 18 mm / 0.71 in</p>
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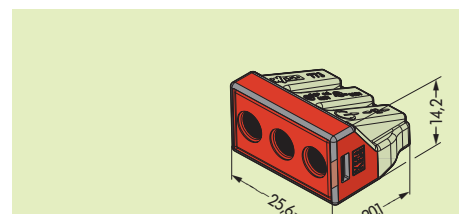
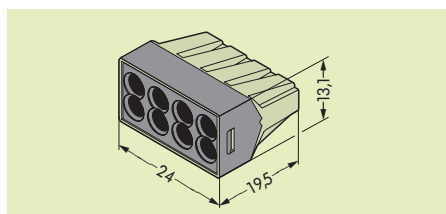
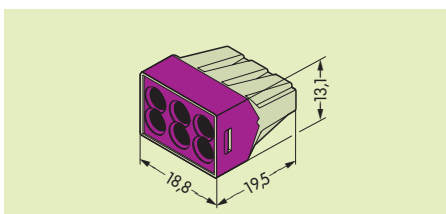
Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack. unit pcs
Push-wire connectors for junction boxes ①, 2-conductor connectors, colour of housing transparent, colour of cover yellow			Push-wire connectors for junction boxes ①, 4-conductor connectors, colour of housing transparent, colour of cover orange			Fixing carrier for 4 push-wire connectors orange		
	773-102	1000 (10x100)		773-104	1000 (10x100)		773-332	50 (5 x 10)
						Marker strip, plain		
							243-110	1



<p>6 x 0.75 – 2.5 mm²sst 6 x 1.5 – 2.5 mm²sst 400 V / 4 kV / 2** 24 A</p> <p>6 x AWG 18 – 12 "sol." 6 x AWG 16 – 12 "str." 600 V, 20 A </p> <p></p> <p>* </p>	<p>8 x 0.75 – 2.5 mm²sst 8 x 1.5 – 2.5 mm²stst 400 V / 4 kV / 2** 24 A</p> <p>8 x AWG 18 – 12 "sol." 8 x AWG 16 – 12 "str." 600 V, 20 A </p> <p></p> <p>* </p>	<p>3 x 2.5 – 6 mm²s + stst 400 V / 4 kV / 2** 41 A</p> <p>3 x AWG 14 – 10 "sol." + "str." 600 V, 30 A </p> <p></p> <p>* </p>
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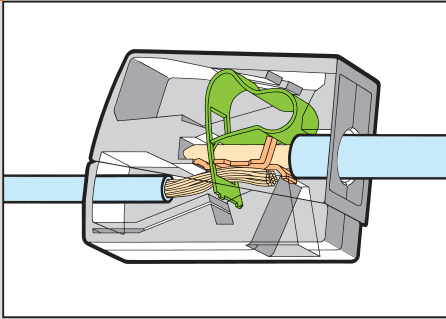


Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Push-wire connectors for junction boxes ①, 6-conductor connectors, colour of housing transparent, colour of cover violet			Push-wire connectors for junction boxes ①, 8-conductor connectors, colour of housing transparent, colour of cover dark grey			Push-wire connectors for junction boxes, 3-conductor connectors, colour of housing transparent, colour of cover red		
	773-106	500 (10 x 50)		773-108	500 (10 x 50)		773-173	500 (10 x 50)



* You can find approvals on the Internet at www.wago.com. ** In grounded (earthed) supply system
 ① Also available for increased continuous service temperature of 120 °C Technical explanations and abbreviations see page 10.2.

Stripped length



Strip conductor to 9 – 11 mm / 0.39 in

Testing



Testing through separate test slot

Testing

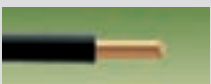


Testing through separate test slot

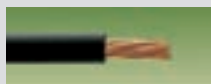
Applications



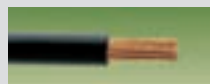
CAGE CLAMP® clamps the following copper wires:



solid



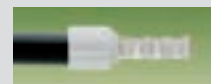
stranded



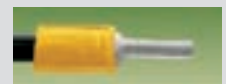
fine-stranded



tip-bonded



with crimped ferrule



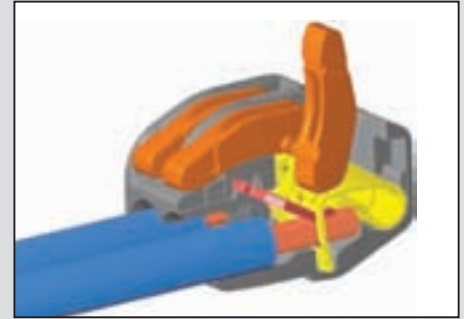
with crimped pin terminal

The push-wire connection clamps the following copper wires:



solid

Connecting Terminal
for Flexible Conductors
Series 222



Stripped length



Strip wire to 9 – 10 mm / 0.37 in

CAGE CLAMP® COMPACT Connection



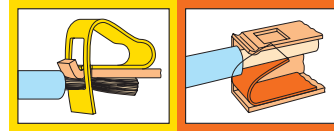
Wire connection: open clamping point using the lever and insert wire . . .



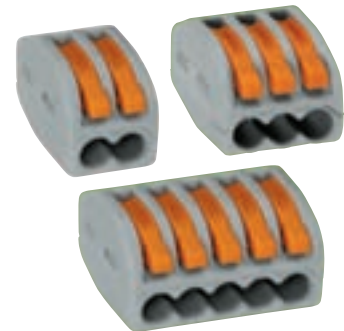
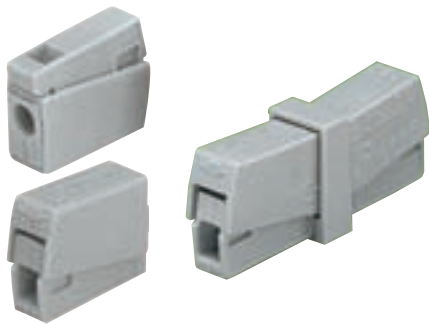
. . . return lever to its rest position

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

Lighting Connectors, "Service" Connector, Series 224 Connecting Terminal for Flexible Conductors, Series 222

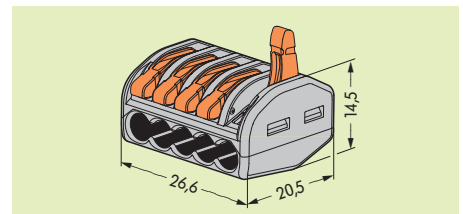
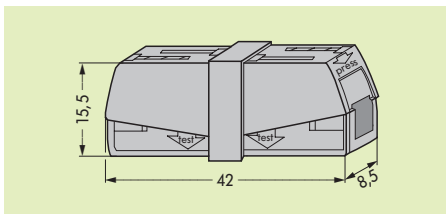
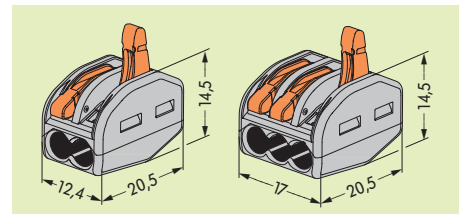
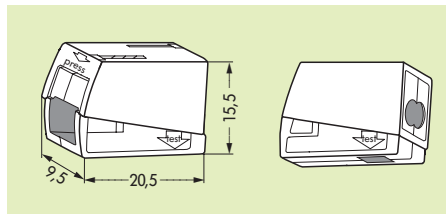
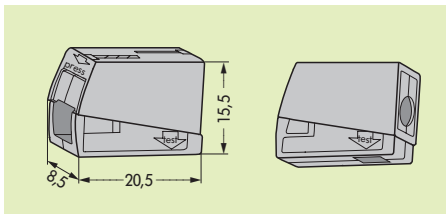


Installation side 1.0 – 2.5 mm ² "s" Lighting side 0.5 – 2.5 mm ² "s + f-st" 400 V/4 kV/2**; 24 A 9 – 11 mm / 0.39 in * VDE KEMA CCA N S D P GL BV	AWG 14 – 12 AWG 20 – 16 300 V, 20 A	Installation side 2 x 1.0 – 2.5 mm ² "s" Lighting side 0.5 – 2.5 mm ² "s + f-st" 400 V/4 kV/2**; 24 A 9 – 11 mm / 0.39 in * VDE KEMA CCA N S D P GL BV	AWG 16 – 14 AWG 20 – 16 300 V, 4 A	0.08 – 2.5 mm ² "s + f-st" 4 mm ² "f-st" 400 V/4 kV/2** 32 A 9 – 10 mm / 0.37 in * LR ENEC15	AWG 28 – 12 600 V, 20 A
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Lighting connectors, standard version,			2-conductor lighting connectors, standard version,			Connecting terminal for flexible conductors, grey	
continuous service temperature 105°C,			continuous service temperature 105°C,			2-conductor terminal block, with orange levers	
grey	224-101	1000 (10 x 100)	white	224-112	1000 (10 x 100)	222-412	500 (10 x 50)
max. continuous service temperature 85°C			version for increased			3-conductor terminal block	
continuous service temperature 120°C,			continuous service temperature 120°C,			222-413	500 (10 x 50)
black	224-104	100	black	224-114	100	222-415	400 (10 x 40)
"Service" connector						5-conductor terminal block	
grey	224-201	50					

Dimensions (in mm)



Connection of conductors (lighting side): Press button fully and insert stripped conductor into square entry and release.



Connection of conductors (installation side): Introduce stripped solid conductor into circular entry and push to stop.



Wiring of flexible conductors in a junction box

* You can find approvals on the Internet at www.wago.com.
 ** In grounded (earthed) supply systems

Technical explanations and abbreviations see page 10.2.

WINSTA® – new products

WINSTA® MINI

For use in applications where space is limited

- Sensors (switches, push buttons, window contacts, pressure switches, temperature sensors ...)
- Actuators (control valves, magnetic valves, servo motors, blinds/sun protection ...)
- Halogen lamps and lighting fixtures of protection class II
- Control signals
- 1.5 mm², 250 V, 16 A



WINSTA® MIDI

For the majority of applications

- General building installations, especially for modern functional buildings
- General lighting and safety lamps
- Exhibition construction and shop building
- Caravan manufacture
- Laboratory workstations
- Rail vehicles
- Marine applications
- 4 mm², 250/400 V, 25 A



WINSTA® MAXI

For high performance

- Power supply via 6 mm² cable due to long cable lengths
- Power supply via 32 A distribution boxes for high energy demands
- 6 mm², 250/400 V, 32 A



**WINSTA® –
The perfect connection!**

Floor distribution boxes



WINSTA® EIB

For the standardized bus

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



WINSTA® IDC

For a high degree of flexibility

- Supply and tap off is possible anytime and anywhere in the flat cable. No cutting, no need to remove outer or inner insulation → thus very user-friendly
- Very fast connection to flat cable by simple 120° rotation per pole
- Space saving using longitudinal tap off
- 2.5/4 mm², 400 V, 25 A
- 10 mm², 690 V, 57 A
- 16 mm², 690 V, 76 A



WINSTA® RD

For round conduits and ducts

- Outside diameter of 17.5 mm for applications in electrical conduits with an inner diameter > 18 mm
- Prefabricated houses
- Furniture lights
- Wall or ceiling openings



Cable ducts



Lighting



Opening the cable entry



Remove one cover plate

Inserting cable



Before connecting the conductor, put the cable through the strain relief housing (prelocking position)

Connection



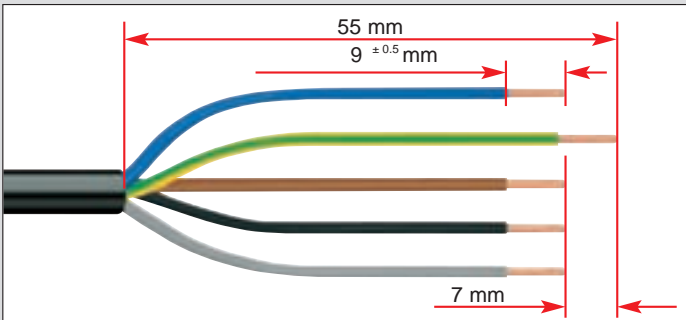
Open clamping unit using a screwdriver (2.5 x 0.4) mm and insert stripped wire as far as possible

Assembly



Put strain relief housing and plug/socket in position. Note the "TOP" marking

Stripped lengths



Solid conductors



Insert wire as far as possible

Flexible conductors



Open clamping unit using a screwdriver (2.5 x 0.4) mm and insert stripped wire as far as possible

Connecting enclosures and lighting fixtures using T-joints



Insert the snap-in type connector into the panel cutout



Plug the T-joint into the snap-in type connector until the locking device snaps into position



Mate the pre-assembled plug and socket cables to the T-joint

Removing the snap-in type connector from the panel cutout



Remove the snap-in type connector by hand from inside the enclosure



Remove the snap-in type connector from outside the enclosure inserting a screwdriver from the front

Direct ground (earth) contact



Snap-in type connector with direct ground (earth) contact

Sealing the socket



Sockets can be sealed using lockout caps

The CAGE CLAMP®S connection clamps the following copper wires:



solid



stranded

Snapping into final position



Snap the strain relief housing into final position

Tightening screw



Tighten strain relief screw

Marking



Moulded marking on a plug and socket connection



Marking strain relief housings using WSB quick marking system

Connected conductor



Removing the conductor



Open clamping unit using a screwdriver (2.5 x 0.4) mm and remove the conductor

Variable coding



Cut or break the coding pin off on the socket

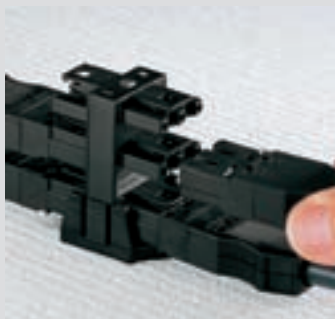


Insert coding pin with the broken edge first into the plug and fasten it

Distribution connector with mounting carrier



The distribution connector snaps directly onto the mounting carrier



The cables are safely locked by snapping the plugs or sockets

Distributor with phase selection



Lift lever out of delivery position (L2) using a screwdriver (2.5 x 0.4) mm



Move the lever into its new position (in this case L3)

Distribution box and accessories



- enclosure top panel/bottom panel
- 2 side panels
- 16 fixing pins



Plugs and sockets as well as locking devices are available according to the function of the distribution box

Fixing the connectors



Push the fixing pins into the connectors

Mounting the side panels



The spacing between the connectors are closed when mounting the side panels

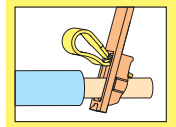


fine-stranded,
also with tinned single
strands

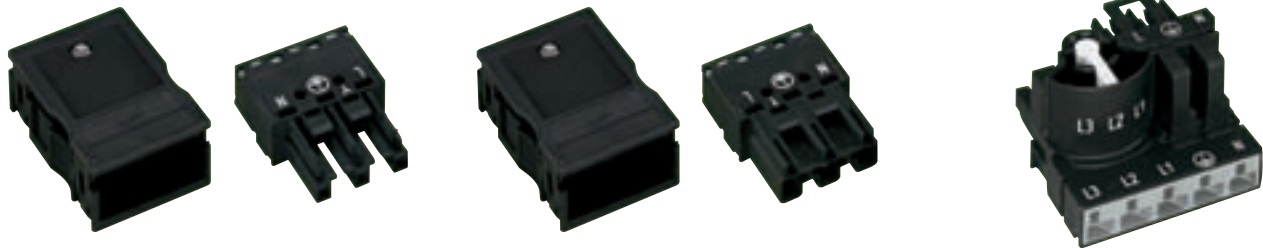


fine-stranded,
tip bonded

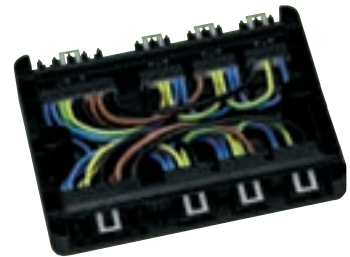
Connectors with Strain Relief Housing, Distributor with Phase Selection, Distribution Box Series 770



<p>2 x 0.5 – 4 mm² 250 V / 4 kV / 3, 3-pole 400 V / 6 kV / 3, 4- and 5-pole 25 A</p> <p> 9 mm / 0.35 in</p> <p>* VDE CCA GL LR NV</p>	<p>2 x AWG 20 - 12 600 V, 20 A</p>	<p>2 x 0.5 – 4 mm² 250 V / 4 kV / 3, 3-pole 400 V / 6 kV / 3, 4- and 5-pole 25 A</p> <p> 9 mm / 0.35 in</p> <p>* VDE CCA GL LR NV</p>	<p>2 x AWG 20 - 12 600 V, 20 A</p>	<p>2 x 0.5 – 4 mm² 250 V / 4 kV / 3, 3-pole 400 V / 6 kV / 3, 5-pole 25 A</p> <p> 9 mm / 0.35 in</p> <p>* CCA</p>	<p>2 x AWG 20 - 12 600 V, 20 A</p>
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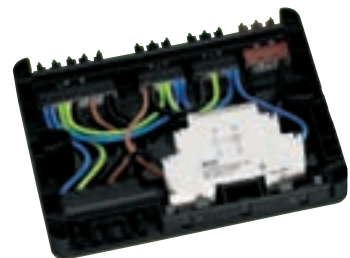


Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Socket, with strain relief housing			Plug, with strain relief housing			Distributor with phase selection, with strain relief housing,		
3-pole, cable diameter 8 – 12 mm			3-pole, cable diameter 8 – 12 mm			cable diameter 9 – 13 mm		
black	770-103	25	black	770-113	25	black	770-611	10
white	770-123	25	white	770-133	25	white	770-661	10
4-pole, cable diameter 9 – 13 mm			4-pole, cable diameter 9 – 13 mm			socket 3-pole N ⊕ L = wire branch		
black	770-104	25	black	770-114	25	socket 5-pole N ⊕ L1 L2 L3 = through connection		
white	770-124	25	white	770-134	25			
5-pole, cable diameter 9 – 13 mm			5-pole, cable diameter 9 – 13 mm					
black	770-105	25	black	770-115	25			
white	770-125	25	white	770-135	25			
5-pole, 1-conductor connection*, cable diameter 9 – 13 mm			5-pole, 1-conductor connection*, cable diameter 9 – 13 mm					
black	770-305	25	black	770-315	25			
white	770-325	25	white	770-335	25			
Socket, without strain relief housing			Plug, without strain relief housing					
3-pole,			3-pole,					
black	770-203	100	black	770-213	100			
white	770-223	100	white	770-233	100			
4-pole,			4-pole,					
black	770-204	50	black	770-214	50			
white	770-224	50	white	770-234	50			
5-pole,			5-pole,					
black	770-205	50	black	770-215	50			
white	770-225	50	white	770-235	50			
5-pole, 1-conductor connection*,			5-pole, 1-conductor connection*,					
black	770-405	50	black	770-415	50			
white	770-425	50	white	770-435	50			
*The large funnel-shaped conductor entry hole makes the connection of rigid wires (e.g. NYM) easier			*The large funnel-shaped conductor entry hole makes the connection of rigid wires (e.g. NYM) easier					



Wiring example

Colour	Item No.	Pack.-unit pcs
Distribution box, version 1,		
ready for mating 3-,4- and 5-pole plugs and sockets		
black	770-631	1
white	770-681	1



Wiring example

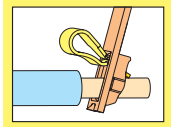
Accessories, Series 770		appropriate marking system	Mini-WSB/marker strips	(see page 8.10)
Locking device, hand-operated				
	black	770-101	100	(4 x 25)
	white	770-121	100	(4 x 25)
Locking device, tool-operated				
	black	770-111	100	(4 x 25)
	white	770-131	100	(4 x 25)
Lockout caps, for socket, dividable, 12-pole				
	black	770-201	100	
	white	770-221	100	
Screwdriver, with partially insulated shaft				
	(2.5 x 0.4) mm	210-619	1	
Coding pin, for plug				
	grey	770-401	100	
Wiring aid, for solid wires, for 5-pole plugs and sockets				
	orange	770-100	1	
Mounting carrier, for distribution connectors p. v. = 25				
	black	770-623	770-625	3-pole 5-pole
	white	770-673	770-675	

Colour	Item No.	Pack.-unit pcs
Distribution box, version 1,		
ready for mating 3-,4- and 5-pole plugs and sockets as well as DIN 35 mounted electronic modules		
black	770-632	1
white	770-682	1

* You can find approvals on the Internet at www.wago.com

Technical explanations and abbreviations see page 10.2.

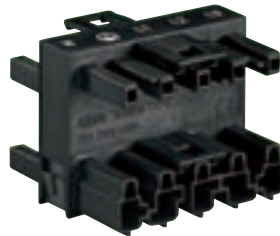
Distribution Connectors, 3- and 5-Pole Series 770



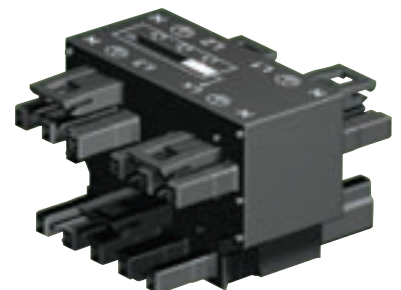
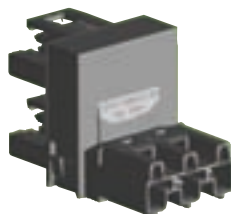
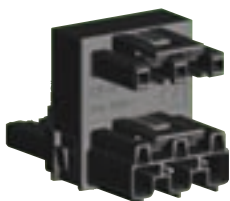
250 V / 4 kV / 3, 3-pole 400 V / 6 kV / 3, 5-pole 25 A	600 V, 20 A	250 V / 4 kV / 3, 3-pole 400 V / 6 kV / 3, 5-pole 25 A	600 V, 20 A	250 V / 4 kV / 3, 3-pole 400 V / 6 kV / 3, 5-pole 25 A	600 V, 20 A
* CCA		* CCA		* CCA	



Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
T-joint,			Distribution connector, 5-way			Distribution connector for single-pole switch or series circuits, 3-pole,		
1 x plug / 2 x socket, 3-pole			1 x plug / 5 x socket, 3-pole					
black	770-606	50	black	770-608	25	black	770-637	10
white	770-656	50	white	770-658	25	white	770-687	10
1 x plug / 2 x socket, 5-pole								
black	770-621	50						
white	770-671	50						

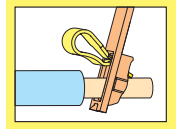











Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Distribution connector, 3-way,			Distribution connector, 3-way,			Distribution connector for single-pole switch or two-way circuits, 3-pole,		
1 x plug / 3 x socket, 3-pole			1 x plug / 3 x socket, 5-pole					
black	770-607	50	black	770-609	25	black	770-638	1
white	770-657	50	white	770-659	25	white	770-688	1

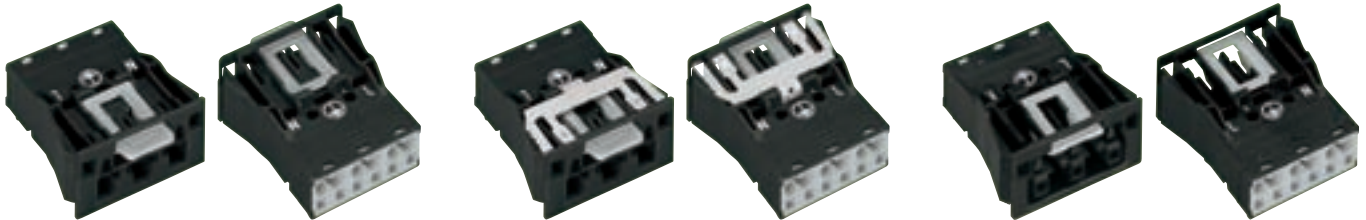




Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
h-joint, 3-pole, bidirectional,			h-joint, 3-pole, unidirectional,			Three-phase to single-phase distributor		
black	770-633	50	black	770-634	50	black	770-639	10
white	770-683	50	white	770-684	50	white	770-689	10

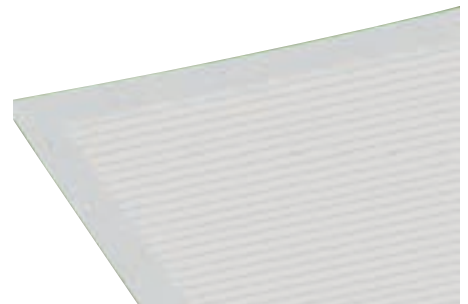
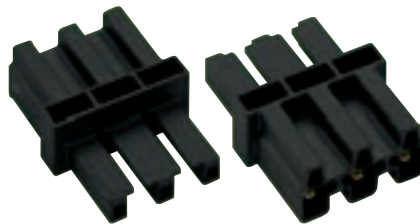
Connectors, Snap-In Type, 3-/4- and 5-Pole Coupling Device, 3- and 5-Pole Series 770



2 x 0.5 – 4 mm² 250 V / 4 kV / 3, 3-pole 400 V / 6 kV / 3, 4- and 5-pole 25 A  9 mm / 0.35 in <small>*   CCA GL LR NV</small>	2 x AWG 20 - 12 600 V, 20 A 400 V / 6 kV / 3, 4- and 5-pole 25 A  9 mm / 0.35 in <small>*   CCA GL LR NV</small>	2 x 0.5 – 4 mm² 250 V / 4 kV / 3, 3-pole 400 V / 6 kV / 3, 4- and 5-pole 25 A  9 mm / 0.35 in <small>*   CCA GL LR NV</small>
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Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs	Colour	Item No.	Pack.-unit pcs
Plug, 3-pole			Plug, 3-pole, with direct ground (earth) contact			Socket, 3-pole		
black	770-713	100	black	770-713/007-000	100	black	770-703	100
white	770-733	100	white	770-733/007-000	100	white	770-723	100
4-pole			4-pole, with direct ground (earth) contact			4-pole		
black	770-714	100	black	770-714/007-000	100	black	770-704	100
white	770-734	100	white	770-734/007-000	100	white	770-724	100
5-pole			5-pole, with direct ground (earth) contact			5-pole		
black	770-715	100	black	770-715/007-000	100	black	770-705	100
white	770-735	100	white	770-735/007-000	100	white	770-725	100
Cover, for panel cutout			Coupling device 250 V / 4 kV / 3, 3-pole 400 V / 6 kV / 3, 5-pole 25 A <small>*   CCA GL LR NV</small>			Marker strips		
3-pole								
black	770-643	100						
4-pole								
black	770-644	100						
white	770-694	100						
5-pole								
black	770-645	100						
white	770-695	100						

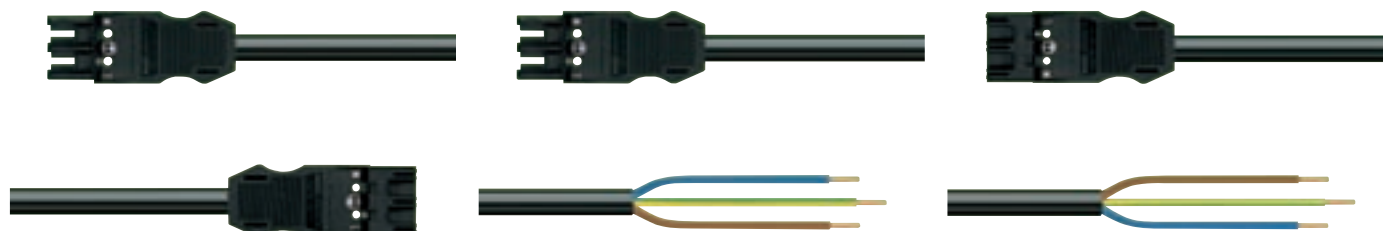


Snap-in versions with integrated locking device allow an easy connection through cutouts in enclosures

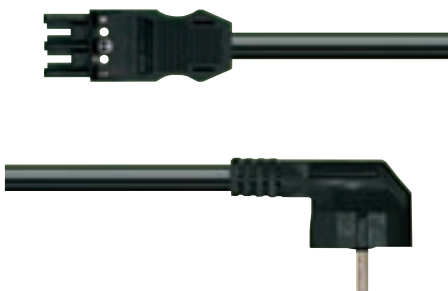
Colour	Item No.	Pack.-unit pcs	Item No.
Coupling device,			Self-adhesive marker strips
1 x plug / 1 x socket, 3-pole			on A4 cards, strip length 182 mm
black	770-603	100	Height of marker strip 5 mm (48x) 210-334 for series 771
white	770-653	100	
1 x plug / 1 x socket, 5-pole			Height of marker strip 6 mm (40x) 210-333 for series 770
black	770-605	100	
white	770-655	100	
Note:			
For thermal transfer printers the markers are also available. Please ask for delivery time and prices!			

Pre-Assembled Cables, 3-/4- and 5-Pole Series 771

Interconnection cables socket - plug *   CCA GL LR NV	Connection cables socket - stripped cable end *   CCA GL LR NV	Connection cables plug - stripped cable end *   CCA GL LR NV
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Length	Item No. black	Item No. white	Length	Item No. black	Item No. white	Length	Item No. black	Item No. white
3 x 1.5 mm²			3 x 1.5 mm²			3 x 1.5 mm²		
250 V/4 kV/3 16 A			250 V/4 kV/3 16 A			250 V/4 kV/3 16 A		
1 m	771-9993/006-101	.../...-102	1 m	771-9993/106-101	.../...-102	1 m	771-9993/206-101	.../...-102
2 m	771-9993/006-201	.../...-202	2 m	771-9993/106-201	.../...-202	2 m	771-9993/206-201	.../...-202
:	:	:	:	:	:	:	:	:
8 m	771-9993/006-801	.../...-802	8 m	771-9993/106-801	.../...-802	8 m	771-9993/206-801	.../...-802
3 x 2.5 mm²			3 x 2.5 mm²			3 x 2.5 mm²		
250 V/4 kV/3 20 A			250 V/4 kV/3 20 A			250 V/4 kV/3 20 A		
1 m	771-9993/007-101	.../...-102	1 m	771-9993/107-101	.../...-102	1 m	771-9993/207-101	.../...-102
2 m	771-9993/007-201	.../...-202	2 m	771-9993/107-201	.../...-202	2 m	771-9993/207-201	.../...-202
:	:	:	:	:	:	:	:	:
8 m	771-9993/007-801	.../...-802	8 m	771-9993/107-801	.../...-802	8 m	771-9993/207-801	.../...-802
4 x 1.5 mm²			4 x 1.5 mm²			4 x 1.5 mm²		
400 V/6 kV/3 16 A			400 V/6 kV/3 16 A			400 V/6 kV/3 16 A		
1 m	771-9994/006-101	.../...-102	1 m	771-9994/106-101	.../...-102	1 m	771-9994/206-101	.../...-102
2 m	771-9994/006-201	.../...-202	2 m	771-9994/106-201	.../...-202	2 m	771-9994/206-201	.../...-202
:	:	:	:	:	:	:	:	:
8 m	771-9994/006-801	.../...-802	8 m	771-9994/106-801	.../...-802	8 m	771-9994/206-801	.../...-802
5 x 1.5 mm²			5 x 1.5 mm²			5 x 1.5 mm²		
400 V/6 kV/3 16 A			400 V/6 kV/3 16 A			400 V/6 kV/3 16 A		
1 m	771-9995/006-101	.../...-102	1 m	771-9995/106-101	.../...-102	1 m	771-9995/206-101	.../...-102
2 m	771-9995/006-201	.../...-202	2 m	771-9995/106-201	.../...-202	2 m	771-9995/206-201	.../...-202
:	:	:	:	:	:	:	:	:
8 m	771-9995/006-801	.../...-802	8 m	771-9995/106-801	.../...-802	8 m	771-9995/206-801	.../...-802
5 x 2.5 mm²			5 x 2.5 mm²			5 x 2.5 mm²		
400 V/6 kV/3 20 A			400 V/6 kV/3 20 A			400 V/6 kV/3 20 A		
1 m	771-9995/007-101	.../...-102	1 m	771-9995/107-101	.../...-102	1 m	771-9995/207-101	.../...-102
2 m	771-9995/007-201	.../...-202	2 m	771-9995/107-201	.../...-202	2 m	771-9995/207-201	.../...-202
:	:	:	:	:	:	:	:	:
8 m	771-9995/007-801	.../...-802	8 m	771-9995/107-801	.../...-802	8 m	771-9995/207-801	.../...-802

More variations	Accessories, Series 771 appropriate marking system WSB/marker strips (see left page)	
	Locking device, hand-operated, for "flying leads" black 770-101 100 (4 x 25) white 770-121 100 (4 x 25)	Coding pin, for plug grey 770-401 100
	Locking device, tool-operated, for "flying leads" black 770-111 100 (4 x 25) white 770-131 100 (4 x 25)	
Country-specific connecting cables on request		

4-Conductor Device Connectors with CAGE CLAMP®S Connection Series 862

Wire connection



- 4 conductors per pole
- for solid and flexible conductors
- mixed wiring with solid and flexible conductors of different cross sections

Marking



Marking by direct printing and/or marker strips

Testing



Testing with test plug 2 mm/0.079 in Ø

Ground (earth) contact

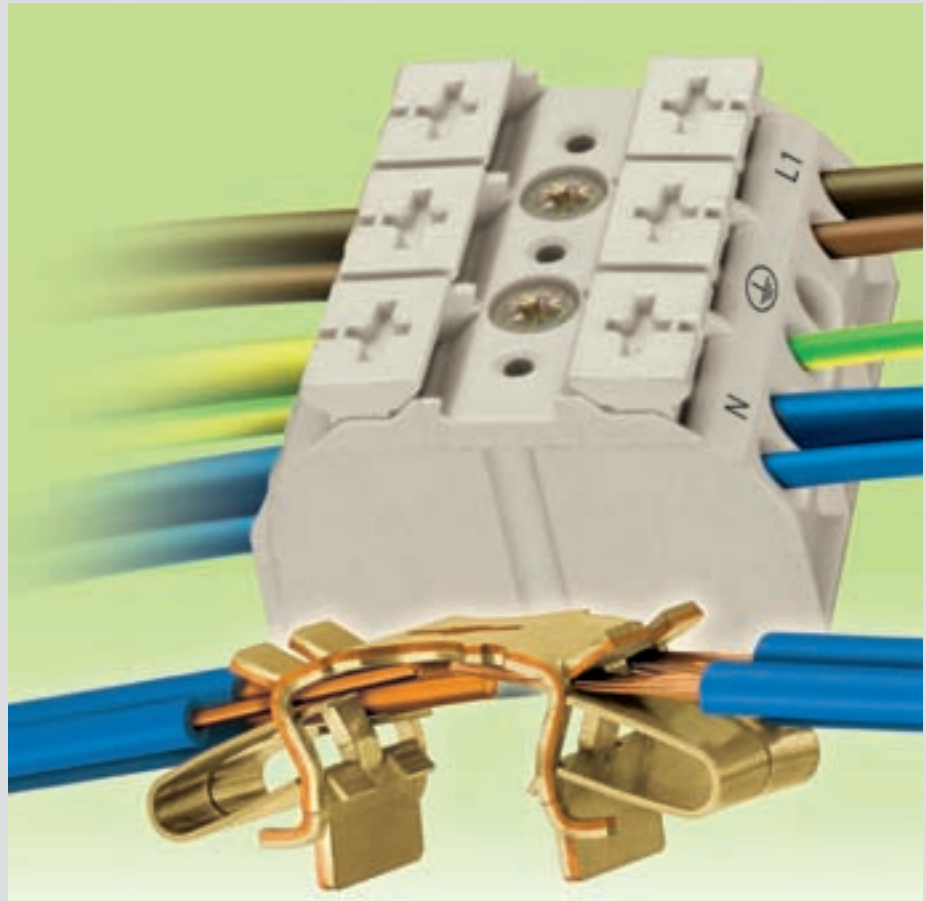


Make an automatic contact to the mounting plate. A varnish coating is penetrated automatically

Commoning



Commoning with comb type jumper bar



Features and advantages

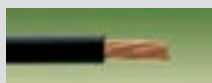
This new terminal block series has been developed specifically **to minimise the connection costs** of electrical devices. At the same time, the requirement for flexible assembly, for numerous electrical connection options and for easy handling were part of the development:

- The new CAGE CLAMP®S allows the connection of up to four conductors with cross sections from 0.5 mm² to 4 mm². Different cross sections can be used within one terminal block.
- For factory wiring, CAGE CLAMP®S allows the direct insertion of solid conductors or flexible conductors with crimped ferrules or with ultrasonically bonded wire ends from 0.5 mm² up to 4 mm² (length of bonded wire end min. 7 mm).
- Automatic grounding contact available as an option.
- Snap-in mounting feet for fast assembly.
- Push buttons for easy handling with a commercially available screwdriver or by hand.
- Direct testing with test plug 2 mm/0.079 in Ø.
- Standard marking per pole or, for large quantities, in accordance with customer's specification.

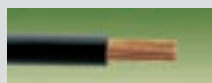
CAGE CLAMP® clamps the following copper wires:



solid



stranded



fine-stranded

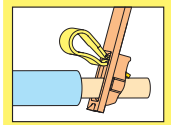


tip-bonded



with crimped ferrule

4-Conductor Device Connectors, 2- and 3-Pole 4 mm² with Unique Cost-Cutting Features Series 862



8

15

	4 x 0.5 – 4 mm² 500 V/6 kV/3 32 A	4 x AWG 20 – 12 300/600 V, 20/5 A		4 x 0.5 – 4 mm² 500 V/6 kV/3 32 A	4 x AWG 20 – 12 300/600 V, 20/5 A
	 10 – 11 mm / 0.41 in			 10 – 11 mm / 0.41 in	
	* ENEC			* ENEC	



Available in black and white colour



2-pole



3-pole

	without ground (earth) contact	with ground (earth) contact	Item No. black	Item No. white	Pack.-unit pcs	Item No. black	Item No. white	Pack.-unit pcs
for fixing screw 3 mm Ø or for self tapping screw 2.9 mm Ø from top								
	without marking		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								
	without marking		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								
	without marking		862-0532	862-0632	500			
	L1-N		862-1532	862-1632	500			
	N-L1		862-2532	862-2632	500			
for fixing screw 3 mm Ø or for self tapping screw 2.9 mm Ø from top								
	without marking					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								
	without marking					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 feet at pos. 1 + 3								
	without marking					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

Accessories, Series 862









Comb type jumper bar , can easily be inserted into the wire entry 32 A 862-482 5	Test plug , with cable 500 mm/1'77" 2 mm/0.079 in Ø red 210-136 50 (5 x 10)	Test plug , with cable 500 mm/1'77" 2.3 mm/0.091 in Ø yellow 210-137 50 (5 x 10)
Screwdriver , with partially insulated shaft (3.5 x 0.5) mm 210-620 1	Marker strip , white, plain, for central marking; 7.5 mm wide, on roll 50 m long 709-178 1	Marker strip , white, plain, for central marking; 7.5 mm wide, on roll 300 m long 709-188 1

* You can find approvals on the Internet at www.wago.com.

Technical explanations and abbreviations see page 10.2.

8

4-Conductor Device Connectors, 4- and 5-Pole 4 mm² with Unique Cost-Cutting Features Series 862

<p>4 x 0.5 – 4 mm² 500 V/6 kV/3 32 A</p> <p> 10 – 11 mm / 0.41 in</p> <p>*  ENEC</p>	<p>4 x AWG 20 – 12 300/600 V, 20/5 A  </p> <p> 10 – 11 mm / 0.41 in</p> <p>*  ENEC</p>	<p>4 x 0.5 – 4 mm² 500 V/6 kV/3 32 A</p> <p> 10 – 11 mm / 0.41 in</p> <p>*  ENEC</p>
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Available in black and white colour









4-pole



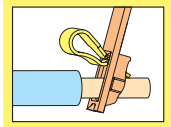
5-pole

without ground (earth) contact	with ground (earth) contact	Item No. black	Item No. white	Pack.-unit pcs	Item No. black	Item No. white	Pack.-unit pcs
for fixing screw 3 mm Ø or for self tapping screw 2.9 mm Ø from top							
without marking							
⊕-N-L1-L2		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							
without marking							
⊕-N-L1-L2		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 feet at pos. 1+4							
without marking							
⊕-N-L1-L2		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 fixing screw 3 mm Ø or for self tapping screw 2.9 mm Ø from top							
without marking							
⊕-N-L1-L2-L3					862-0505	862-0605	200
L3-N-⊕-L1-L2					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							
without marking							
⊕-N-L1-L2-L3					862-0525	862-0625	200
L3-N-⊕-L1-L2					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 feet at pos. 1+3+5							
without marking							
⊕-N-L1-L2-L3					862-0515	862-0615	200
L3-N-⊕-L1-L2					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

Accessories, Serie 862

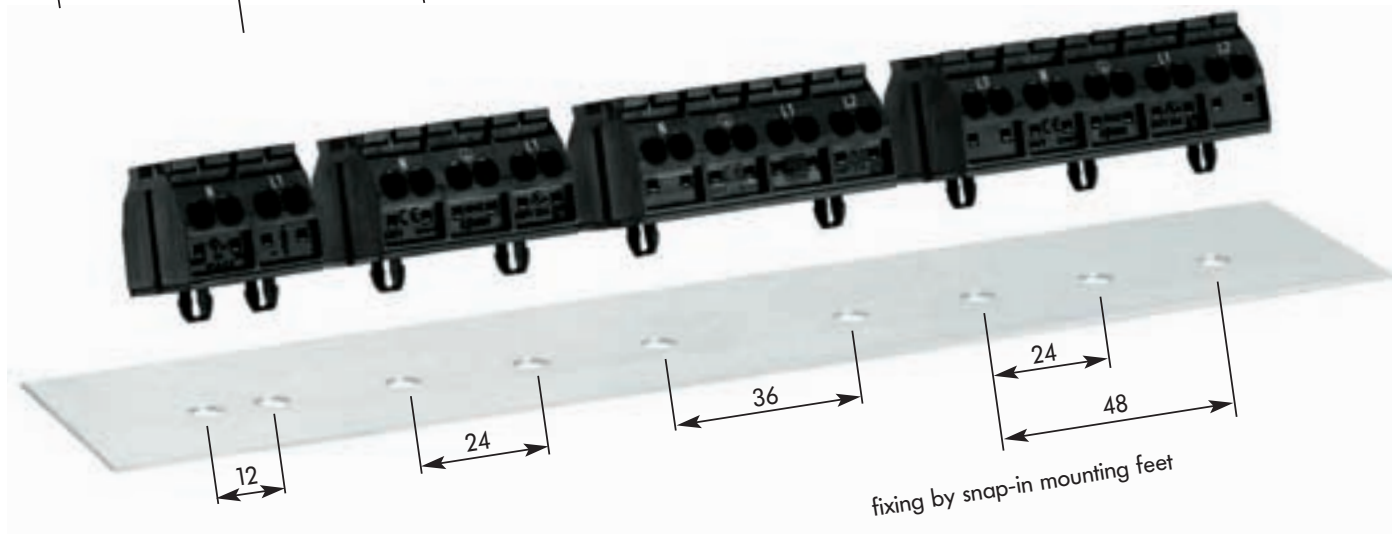
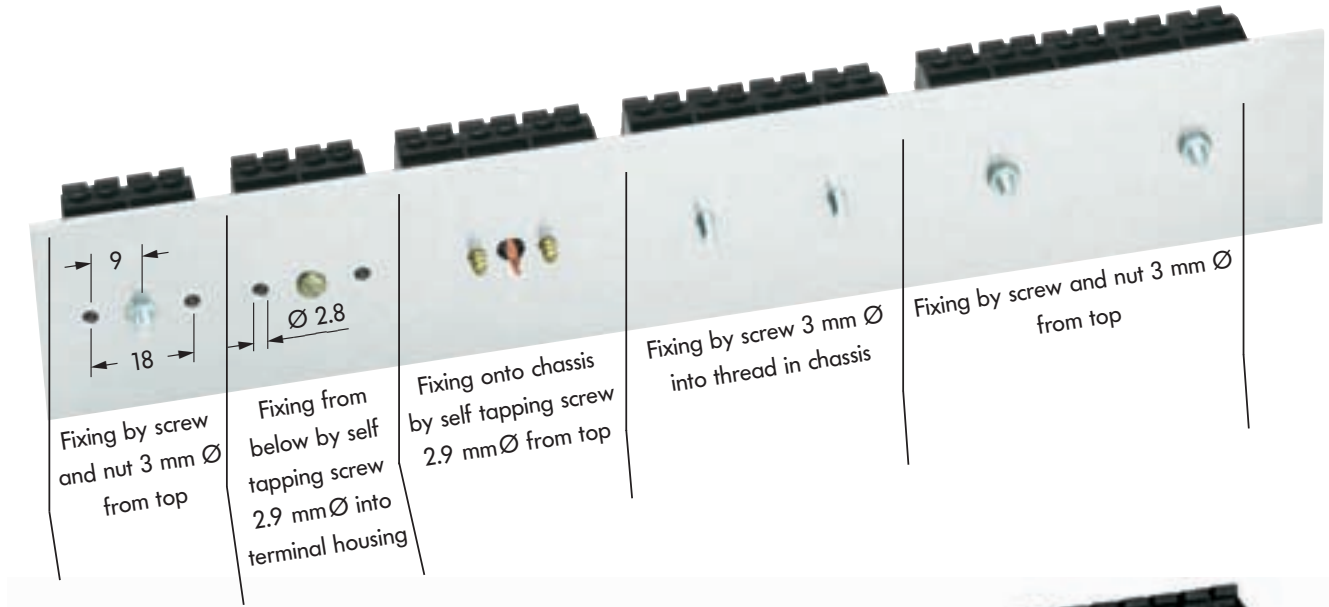
<p>Comb type jumper bar, can easily be inserted into the wire entry</p> <p> 32 A 862-482 5</p>	<p>Test plug, with cable 500 mm/1'77"</p> <p> 2 mm/0.079 in Ø red 210-136 50 (5 x 10)</p>	<p>Test plug, with cable 500 mm/1'77"</p> <p> 2.3 mm/0.091 in Ø yellow 210-137 50 (5 x 10)</p>
<p>Screwdriver, with partially insulated shaft (3.5 x 0.5) mm</p> <p> 210-620 1</p>	<p>Marker strip, white, plain, for central marking; 7.5 mm wide, on roll 50 m long 709-178 1</p> <p></p>	<p>Marker strip, white, plain, for central marking; 7.5 mm wide, on roll 300 m long 709-188 1</p> <p></p>

Fixing Options for 4-Conductor Device Connectors Series 862



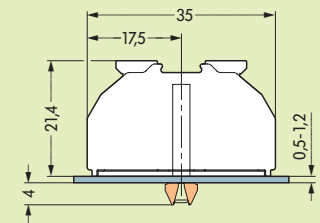
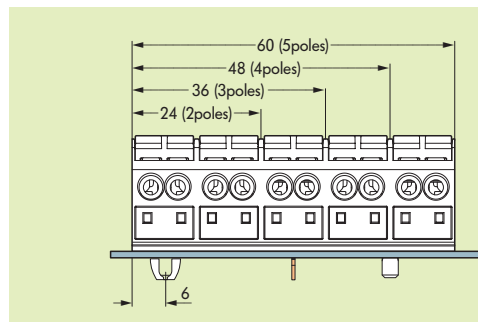
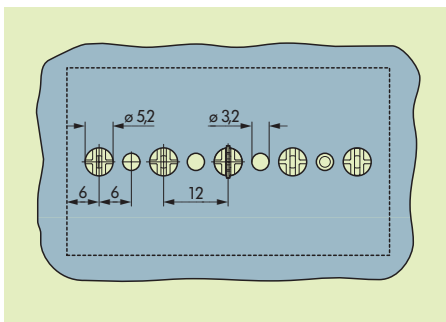
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17



fixing by snap-in mounting feet

Dimensions (in mm)



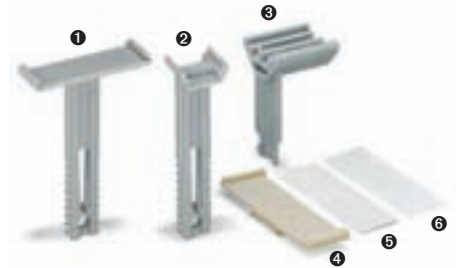
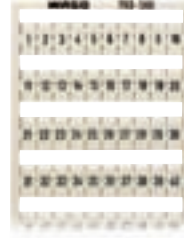
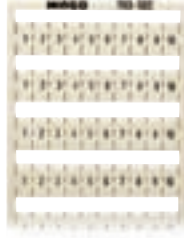
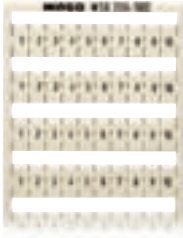
8

Ferrules		Sleeve for mm ²	AWG	Colour	Stripped length mm	L	L1	D mm	D1	D2	Item No.	Pack.-unit pcs
	Insulated ferrules	0.5	22	white	12.0	16.0	10.0	3.1	2.6	1.0	216-241	1000
	electrolytic copper,	0.75	20	grey	12.0	16.0	10.0	3.3	2.8	1.2	216-242	1000
	electro-tin plated	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
	Uninsulated ferrules	0.5	22		10	10		2.1		1.0	216-141	1000
	electrolytic copper,	0.75	20		10	10		2.3		1.2	216-142	1000
	electro-tin plated	1.0	18		10	10		2.5		1.4	216-143	1000
		1.5	16		10	10		2.8		1.7	216-144	1000

Please find the entire product range in our General Catalogue W4, Volume 1. More information at www.wago.com.

0 Marking Accessories

WAGO quick marking systems Miniature WSB and WSB 10 strips with 10 markers for each card 5 cards per packing unit	WAGO multi marking system WMB for use in miniature WSB and WSB marker receptacle profile of the terminal block 10 strips with 10 markers for each card 5 cards per packing unit	WAGO group marker carriers
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Marking per card	Item No.	Item No.	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
	Mini-WSB	WMB			Adjustable height group marker carrier,	
	for series 264, 869, 870	for terminal block width			for end stops 249-116 and 249-117 (see page 9.2)	
		4 / 4.2 mm	5 / 5.2 mm		for 1 marker card or self-adhesive label and transparent cover protection	
plain	248-501	793-4501	793-5501	5 cards	249-119 ①	50 (2 x 25)
1 ... 10 (10x)	248-502	793-4502	793-5502	5 cards	for 2 WSB Quick markers each or	
11 ... 20 (10x)	248-503	793-4503	793-5503	5 cards	1 x continuous marking strip	
21 ... 30 (10x)	248-504	793-4504	793-5504	5 cards	249-118 ②	100 (4 x 25)
31 ... 40 (10x)	248-505	793-4505	793-5505	5 cards	Group marker carrier, for up to 3 WMB markers,	
41 ... 50 (10x)	248-506	793-4506	793-5506	5 cards	15 mm/0.591 in wide	
1 ... 9 (10x)	248-565	793-4565	793-5565	5 cards	209-140 ③	50
10, 20 ... 50 (20x)	248-553	793-4553	793-5553	5 cards	Group marker carrier, for snapping into screwless end stops, 10 mm/0.394 in wide	
1 ... 50 (2x)	248-566	793-4566	793-5566	5 cards	209-112 ④	50
51 ... 100 (2x)	248-507	793-4507	793-5507	5 cards	Marker card, from white cardboard,	
101 ... 150 (2x)	248-508	793-4508	793-5508	5 cards	for self-marking, 100 markers per sheet	
151 ... 200 (2x)	248-509	793-4509	793-5509	5 cards	209-113 ⑤	1 sheet
R, S, T, U, V, W, X, Y, Z, MP	248-544	793-4544	793-5544	5 cards	Protection cover, transparent	
A, B, P, N, PE,					209-114 ⑥	50
PEN, L1, L2, L3, ⊕	248-545	793-4545	793-5545	5 cards		
(10 strips each with same numbers)						



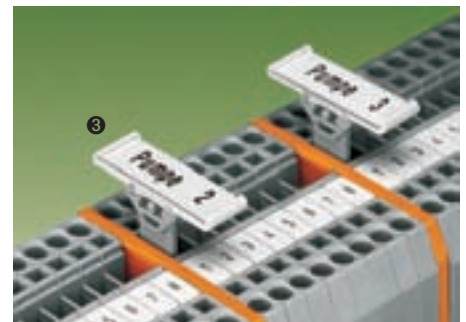
WSB marker receptacle



WSB



WMB



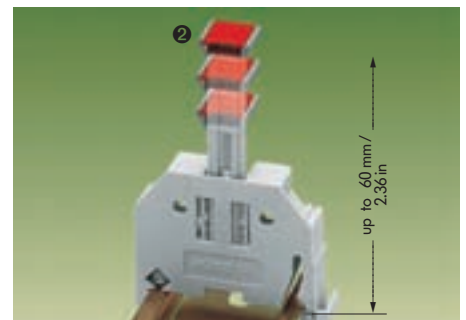
Mini-WSB marker receptacle



Mini-WSB



WMB



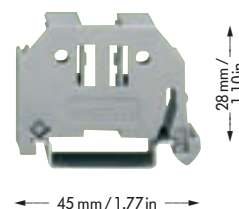
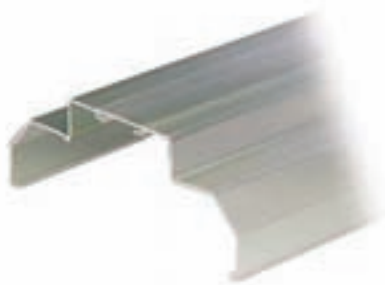
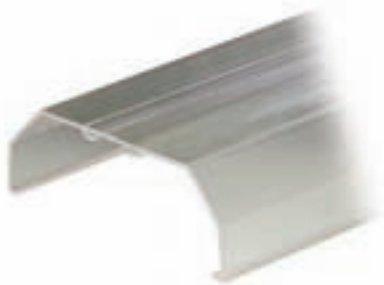
All markings stated above are also available with black printing on coloured marker cards.

Additional item numbers for coloured marker cards

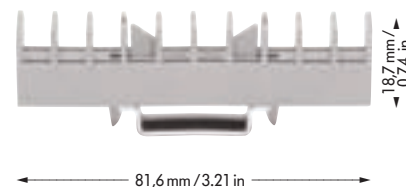
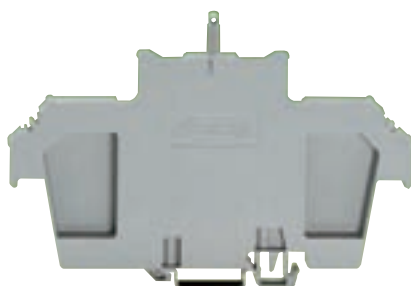
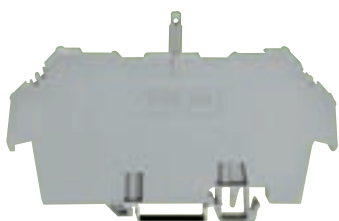
yellow	.../000-002
red	.../000-005
blue	.../000-006
grey	.../000-007
orange	.../000-012
light green	.../000-017
green	.../000-023
violet	.../000-024

Transparent Covers for Rail-Mounted Terminal Blocks, Usable with Lead Seals Screwless End Stops, Collective Carrier for Jumpers

Covers and cover carrier type 1, suitable for Rail-mounted terminal blocks series 279 to 282 Miniature rail-mounted terminal blocks series 264	Covers and cover carrier type 2, suitable for Rail-mounted terminal blocks series 283 to 285 Double and triple deck term. bl. series 280/281 Sensor/actuator terminal blocks series 280 Disconnect and measuring terminal blocks for transformer circuits series 282	Screwless end stop Collective carrier for jumpers
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Cover, type 1,		Cover, type 2,		Screwless end stop, for DIN 35 rail	
1 m/3'3" long, suitable for cover carrier, type 1		1 m/3'3" long, suitable for cover carrier, type 2		6 mm wide	
transparent	709-153	10	transparent	709-154	1
				10 mm wide	249-116
					100 (4 x 25)
					249-117
					50 (2 x 25)



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Cover carrier, type 1,		Cover carrier, type 2,		Collective carrier for jumpers	
incl. fixing/retaining screws and knurled nut		incl. fixing/retaining screws and knurled nut		282-369	
grey	709-167	10	grey	709-168	10
				Suitable for jumpers of the	
				transverse switch terminal block 282-811 and	
				longitudinal disconnect terminal block 282-821	

Accessories, Series 709

Spare fixing/retaining screws



209-196 200 (8 x 25)

Marker card with 6 marking strips



plain
709-183 1

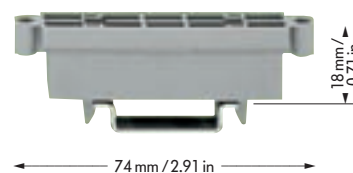
Spare knurled nut



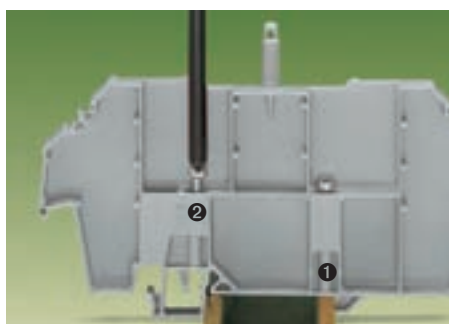
210-549 100 (4 x 25)

Diskette with WinWORD marking system

709-184 1



Example:
A cover, type 1, with safety warning and lead seals

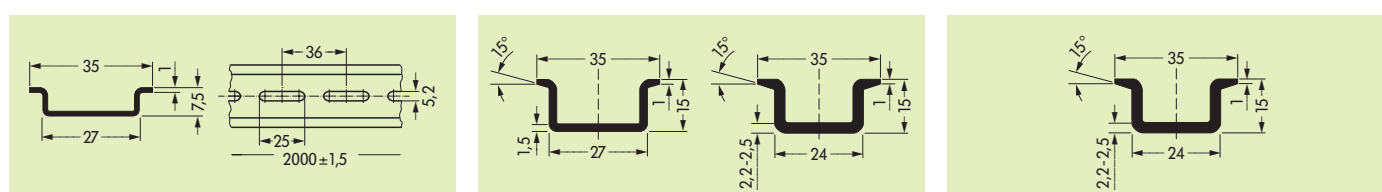
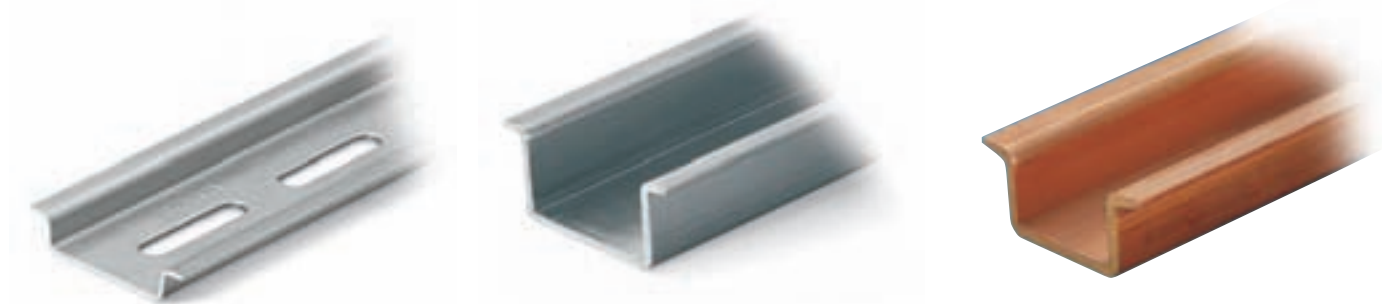


① Fixing screw – prevents the cover carrier from being moved on the rail
② Retaining screw – prevents lifting off from rail

Item No.	Pack.-unit pcs
Collective carrier for adjacent jumpers	
209-100	50 (2 x 25)
Suitable for adjacent jumpers series	
279, 280, 281, 282 and 284	
and banana plugs series 215	

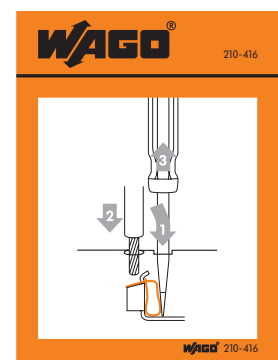
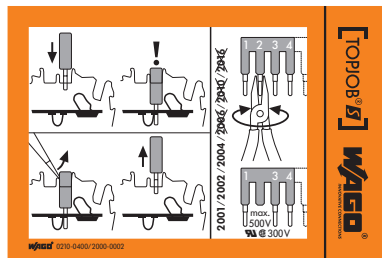
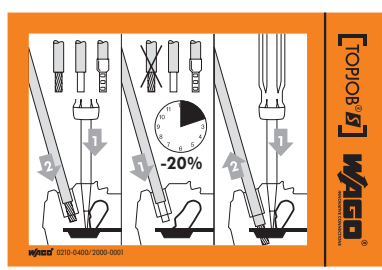
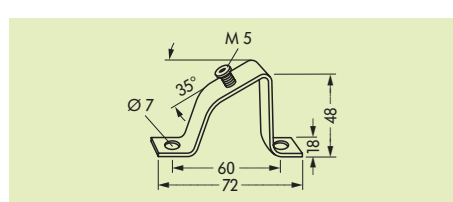
Mounting Accessories Carrier Rails and Sticker for Operating Instruction

<p>Carrier rail 35 x 7.5 mm, 1 mm/0.039 in thick, acc. to EN 60715, Steel, zinc-plated and yellow chromated I_N 76 A (referred to a length of 1 m)</p>	<p>Carrier rail 35 x 15 mm, 1.5 mm/0.059 in and 2.3 mm/0.091 in thick, acc. to EN 60715, Steel, zinc-plated and yellow chromated I_N 125 A (referred to a length of 1 m)</p>	<p>Carrier rail 35 x 15 mm, 2.3 mm/0.091 in thick, acc. to EN 60715, Copper, unplated I_N 309 A (referred to a length of 1 m)</p>
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Steel rail 35 x 7.5 mm, 1 mm/0.039 in th., unslotted 2 m/6'6" long	210-113 10	Steel rail 35 x 15 mm, 2 m/6'6" long 1.5 mm thick	210-114 unslotted 10	Copper carrier rail 35 x 15 mm, 2.3 mm/0.091 in thick, unslotted 2 m/6'6" long	210-198 10
Steel rail 35 x 7.5 mm, 1 mm/0.039 in th., slotted 2 m/6'6" long	210-112 10	1.5 mm thick	210-197 slotted 10		
		2.3 mm thick	210-118 unslotted 10		

<p>Angled support bracket Steel, zinc-plated and yellow chromated</p>	<p>Operating sticker, for rail-mounted terminal blocks with TOPJOB[®] connection Size 80 mm x 101 mm</p>	<p>Operating sticker, for CAGE CLAMP[®], universal Size 60 mm x 63 mm</p>
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Angled support bracket, without screw	210-148 10	Operating sticker, for rail-mounted terminal blocks with TOPJOB [®] Series 2001/2002/2004/2006/2010/2016	210-400/2000-0001 100	Operating sticker, for CAGE CLAMP [®] , universal	210-416 100
Screw M 5 x 8	210-149 100 (5 x 20)		210-400/2000-0002 100		

Operating Tools

Screwdrivers with partially insulated shaft for optimum handling of CAGE CLAMP® connection in terminal blocks and connectors

Multipole operating tools for front-entry terminal blocks (insulated)

Screwdrivers (DIN 5264) for optimum handling of CAGE CLAMP® connection in terminal blocks and connectors



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Screwdriver, with partially insulated shaft, blade 2.5 x 0.4 mm/0.098 x 0.016 in suitable for series 218, 233, 234, 235, 250, 253, 279, 733, 734, 735, 770, 2001		Operating tool, solid non-conducting material suitable for series 279		Screwdriver, short, blade 3.5 x 0.5 mm/0.138 x 0.020 in suitable for series 231, 232, 236, 255, 256, 257, 264, 280, 281, 721, 722, 736, 737, 738, 742, 745, 804, 869, 2002, 2004	
210-619	1	1-way	209-129	210-657	1
Screwdriver, with partially insulated shaft, blade 3.5 x 0.5 mm/0.137 x 0.020 in suitable for series 231, 232, 236, 255, 256, 257, 264, 280, 281, 721, 722, 736, 737, 738, 742, 745, 804, 869, 2002, 2004		suitable for series 279		Screwdriver, short angled, blade 3.5 x 0.5 mm/0.138 x 0.020 in specially suitable for sensor and actuator terminal blocks of series 280 or for series 231, 232, 236, 255, 256, 257, 264, 280, 281, 721, 722, 736, 737, 738, 742, 745, 804, 869, 2002, 2004	
210-620	1	2-way	279-432		
Screwdriver, with partially insulated shaft, blade 5.5 x 0.8 mm/0.217 x 0.031 in suitable for series 282, 283, 284, 285, 745, 2006, 2010, 2016		3-way	279-433		
210-621	1	10-way	279-440		
Screwdriver, with partially insulated shaft, - set -, consists of 210-619, 210-620 und 210-621		suitable for series 264*, 280, 281**			
210-622	1	1-way	209-130		
		2-way	280-432		
		3-way	280-433		
		4-way	280-434		
		5-way	280-435		
		6-way	280-436		
		7-way	280-437		
		8-way	280-438		
		9-way	280-439		
		10-way	280-440		
		suitable for series 281			
		5-way	281-440		
		* only 1- and 2-way			
		** only up to 3-way			

Application notes



Set of screwdrivers in a box




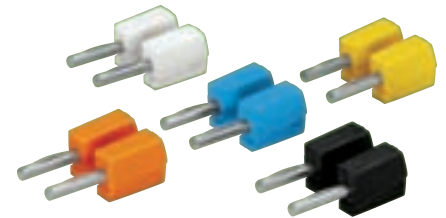
Commoning of front-entry through terminal blocks with comb type jumper bars with the aid of a 10-way operating tool



The blade dimensions of the a. m. screwdrivers (DIN 5264) are particularly appropriate for easy front-entry sensor and actuator terminal blocks of series 280

Voltage Tester and Testboy, Series 206 Banana Plugs, Series 215

Voltage tester Profipol 12 V to 400 V AC 12 V to 500 V DC Weight 138 g / 0.304 lbs	Testboy	Banana plugs for sockets Ø 4 mm 0.08 – 2.5 mm ² AWG 28 – 14 42 V 20 A  9 – 11 mm / 0.39 in
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Voltage tester Profipol		Testboy, with integrated flashligh		Banana plugs, for sockets Ø 4 mm	
206-802	1	206-804	1	colour mixed 215-111	50
				orange, blue, yellow, white, black	
Voltage range	AC 12 V to 400 V DC 12 V to 500 V	Voltage range	12 V up to AC 1000 V	Banana plugs, for sockets Ø 4 mm	
LED indication AC	12 V, 50 V, 100 V, 230 V, 400 V			orange 215-211	50
DC	12 V, 60 V, 120 V, 280 V, 500 V			red 215-212	50
Type of protection	IP 65			black 215-311	50
Operating time	30 s max.			green 215-411	50
Temperature range	-10° up to + 50°C			yellow 215-511	50
				blue 215-711	50
				grey 215-811	50
				green-yellow 215-911	50

Application notes



Voltage testing at push-wire connectors



A device that will reliably detect AC voltages in cables, sockets, fuses, switches, connector boxes, etc.



Connection of conductors: Press button fully and insert stripped conductor into square entry and release

- LED band provides clear voltage range readings
(white scale = AC voltage
red scale = DC voltage)
- LED indication of polarity
- double-pole voltage testing
- type of protection IP 65
- switching is not necessary
- 85 cm long highly flexible and nonskid test cable

The following can be detected by the WAGO Testboy:

- Live conductors
- Line breaks
- Blown fuses
- Defective switches
- Defective lamps

Wire Cutter and Stripping Tools Series 206

<p>Wire cutter acc. to VDE for copper and aluminium wires up to 35 mm²/AWG 2</p> <p>Weight 200 g / 0.441 lbs</p>	<p>Quickstrip 10 wire stripper 0.02 mm² – 10 mm² "f-st" (6 mm² "s") wire cutter up to 10 mm² "f-st" (1.5 mm² "s")</p> <p>Weight 136 g / 0.297 lbs</p>	<p>Quickstrip 16 wire stripper 4 mm² – 16 mm² wire cutter up to 10 mm² "f-st" (1.5 mm² "s")</p> <p>Weight 136 g / 0.297 lbs</p>
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Wire cutter		Stripping tool Quickstrip 10		Stripping tool Quickstrip 16	
206-118	1	206-124	1	206-125	1

Accessories, Series 206

Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
		Standard blade cassette		Standard blade cassette	
		0.02 mm ² up to 10 mm ²		4 mm ² up to 16 mm ²	
		206-126	1	206-128	1
		"V" blade cassette			
		0.02 mm ² up to 4 mm ² for PTFE			
		206-127	1		

Application notes



Cutting of wire



Quickstrip 16. Stripping of wire.



Quickstrip 16. Cutting of wire.

- Automatic adjustment to wire size.
- No damage to wire strands.
- Gripping pressure of jaws adjusts automatically to wire insulation diameter
- Full cycle strip – jaws open after stripping, ensures no nicked strands.
- Exact strip length may be set by sliding of black setting stop.
- Replaceable stripping jaw assembly.
- Self-sharpening, fully protected wire cutter.
- Glass fibre reinforced polyamide tool body.

Crimping Tool Variocrimp 4, Variocrimp 16 Ferrules

<p>Crimping tools for ferrules insulated or uninsulated</p> <p>Variocrimp 4 from 0.25 mm² – 4 mm² Weight 400 g / 0.882 lbs Variocrimp 16 from 6 mm² – 16 mm² Weight 580 g / 1.28 lbs</p>	<p>Insulated ferrules</p>
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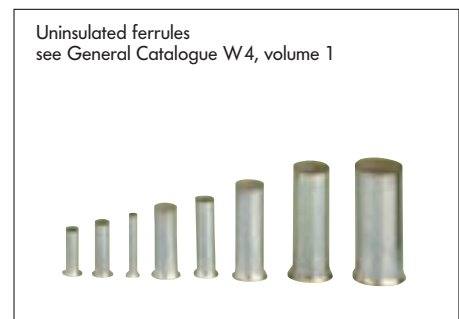
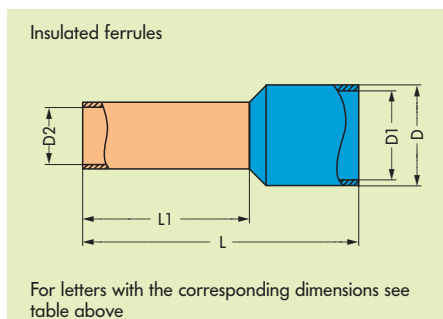
Item No.	Pack.-unit pcs	Sleeve for mm ²	AWG	Colour	Stripped length mm	L	L1	D mm	D1	D2	Item No.	Pack.-unit pcs		
Variocrimp 4 206-204	1	0.25	24	yellow	7.5	10.5	6.0	2.5	2.0	0.8	216-321	1000		
		0.25	24	yellow	9.5	12.5	8.0	2.5	2.0	0.8			216-301	1000
		0.35	24	green	7.5	10.5	6.0	2.5	2.0	0.8			216-322	1000
Variocrimp 16 206-216	1	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	grey	8.0	12.0	6.0	3.3	2.8	1.3			216-222	1000
		0.75	20	grey	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
Application notes		2.5	14	blue	10.0	15.0	8.0	4.8	4.2	2.3	216-206	1000		
		4.0	12	grey	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		



Introduce conductor with ferrule into crimping station. Squeeze handles until ratchet mechanism is released.

- With the Variocrimp 4, the built-in crimping pressure control automatically adjusts the crimping force to the conductor cross section used. With the Variocrimp 16 it is necessary to select the wire gauge on the tool before crimping.
- Each tool has only one crimping station for all wire sizes handled.
- Uniform compact crimping from all four sides for high conductor retention.
- No necessity to centralize the conductor into the terminal ferrule.
- Conductor and ferrule insertion possible from both sides (for left- and right handers).
- Built-in ratchet to guarantee complete crimping every time.
- Tools open automatically after crimping operation is complete.
- Comfortable handles for operator.

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	grey	12.0	16.0	10.0	3.3	2.8	1.2	216-242	1000		
0.75	20	grey	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	grey	14.0	20.0	12.0	5.4	4.8	2.8	216-267	500		
4.0	12	grey	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		





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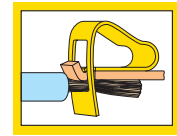
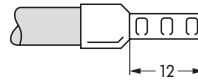
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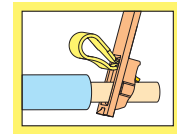
Technical Explanations and Abbreviations

<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 800 V/8 kV/3 600 V, 20 A ㉗ 24 A 600 V, 20 A ㉘</p> <p>Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in</p> <p>* ㉗ ㉘ ㉙ ㉚ CCA ㉛</p>	<p>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</p> <p> 10 – 11 mm / 0.41 in</p> <p>* ENEC</p>	<p>Pictographs</p>
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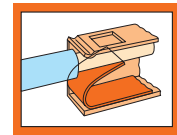
- ① can be connected: 0.25 mm² – 4 mm² "s+f-st"; can be pushed in directly:
 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm"
 (The length of the ferrule ONLY refers to its metal part)



CAGE CLAMP® connection



CAGE CLAMP®S connection



Push-wire connection

Pin spacing 5mm/0.197 in: pin spacing of the terminal block
 (e.g. for PCB terminal blocks and MULTI CONNECTION SYSTEM)

0.25 – 2.5 (4) mm² / AWG 22 – 12 : connectable conductor cross section min. - max.,
 when using insulated ferrules the conductor cross section is reduced to 2.5 mm² (see ①)

800 V/250 V/500 V: rated voltage (see General Catalogue W4, Volume 1 section 15)

8 kV/4 kV: rated surge voltage (see General Catalogue W4, Volume 1 section 15)

3/2: pollution degree (see General Catalogue W4, Volume 1 section 15)

24 A/16 A: maximum current

600 V, 20 A ㉗: Voltage and current ratings acc. to UL approval

600 V, 20 A ㉘: Voltage and current ratings acc. to CSA approval

300 V, 10 A: Voltage and current ratings acc. to requested UL and CSA approvals

Terminal block width 5.2 mm/0.205 in: width (e.g. rail-mounted terminal blocks)

 **10 – 12 mm / 0.43 in:** stripped length (flexible conductor)

 **10 – 11 mm / 0.41 in:** stripped length (solid conductor)

* ㉗ ㉘ ㉙ ㉚ CCA ㉛: approvals

Abbreviations

"s": solid conductor

"f-st": fine-stranded conductor

"s+f-st": solid and fine-stranded conductors

"sol.": solid conductor

"str": stranded conductor

AWG: American Wire Gauge

I_n 32 A: Rated current 32 A (e.g. for jumpers)

WCB: WAGO Combi marking system

WMB: WAGO Multi marking system

WSB: WAGO Quick marking system

Material specification

Insulation materials

For 40 years Nylon (PA 6.6 and PA 4.6) and Polycarbonate (PC) have been the preferred insulation materials for housings of current carrying parts and accessories of terminal blocks and connectors. They have been approved by almost all international test houses.

Contact materials

Electrolytic copper E_{CU}, hard and extrahard as well as extra-hard copper alloys are the standard materials for the current carrying parts of all WAGO products. This material combines excellent conductivity and good chemical resistance without risk of stress cracking.

Contact surface

The special tin alloy layer, the standard surface for all current-carrying parts in WAGO products, is the guarantee for the excellent long-term protection against corrosive substances. Furthermore, these layers make a gastight contact which provides a durable transition resistance.

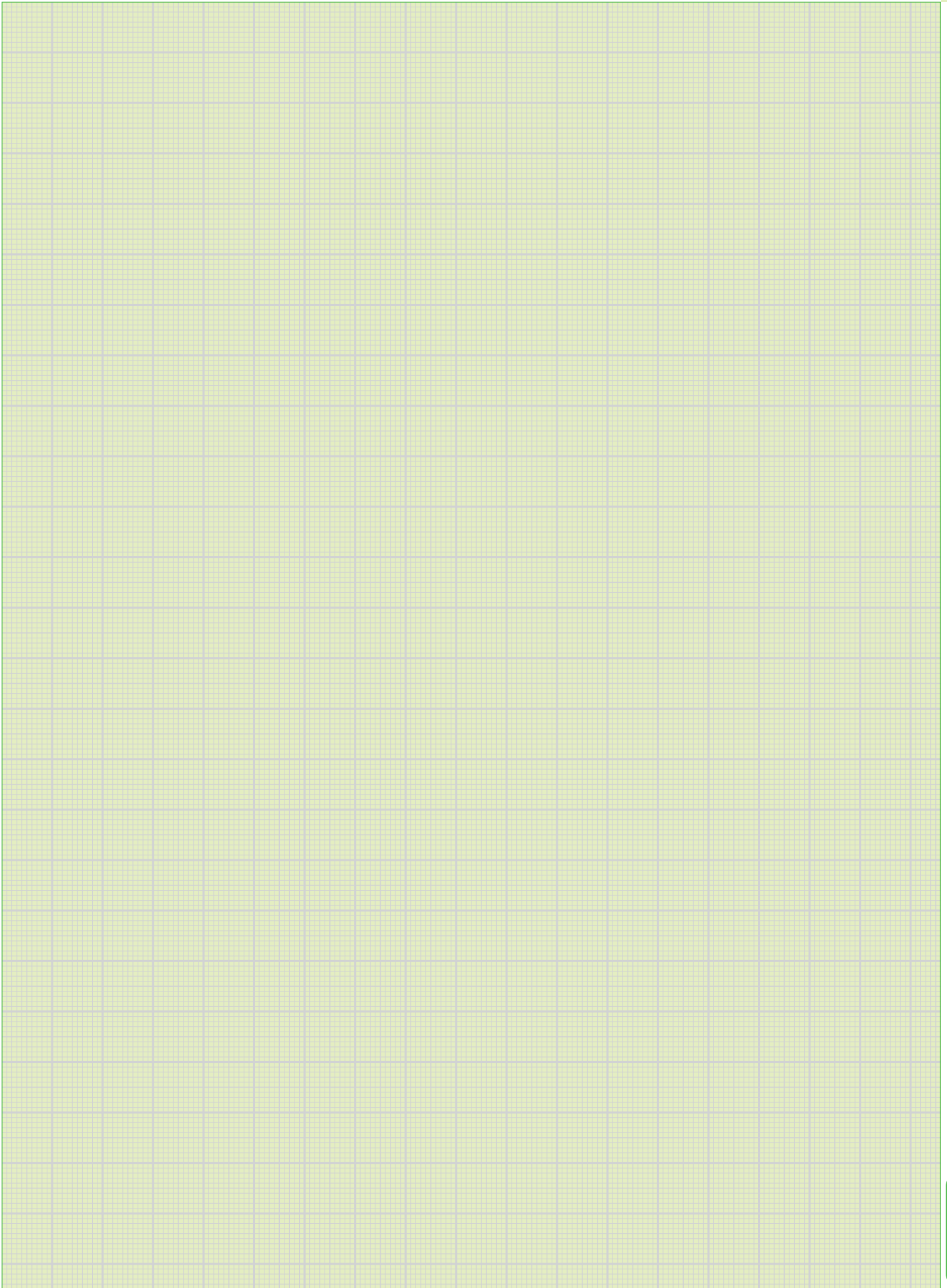
Material of clamping springs

All WAGO clamping springs are produced from high quality carefully selected austenitic chrome nickel spring steel (CrNi) with high tensile strength which has proven its resistance to corrosion in many years of practical use.

It is resistant to salt sea air, town gas and the industrial gases sulphur dioxide and hydrogen sulfide.

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		282-443	4.30	284-302	4.39	286-700	5.14
281-907	4.12	282-444	4.30	284-308	4.14	286-701	5.14
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282-104	4.38	282-687	4.13			286-730	5.15
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282-302	4.38	282-881	4.31	284-681	4.14		
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282-312	4.39	282-904	4.13	284-687/999-950	4.14	286-863	5.15
282-314	4.39	282-907	4.13	284-901	4.14	286-865	5.15
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282-405	4.38	283-992	4.15	286-512	5.14	289-509	5.13
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