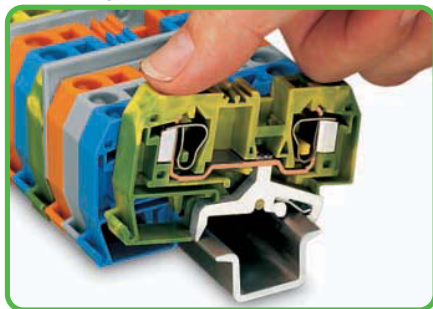


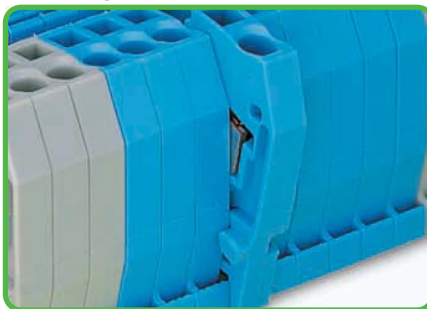
Rail-Mounted Terminal Blocks 279 to 285 Series and 880 Series

Assembly



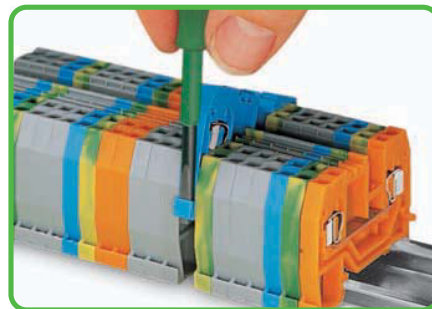
By snapping a ground conductor terminal block onto the carrier rail, a direct electrical connection is automatically made to the rail.

Assembly



Quick assembly keys prevent reverse mounting.

Removal



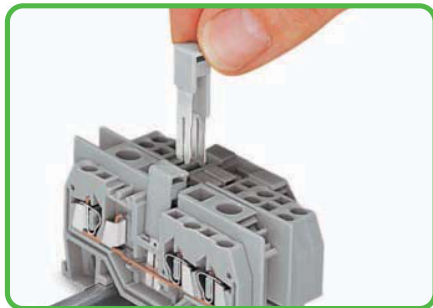
Removing a terminal block from the assembly.

Commoning



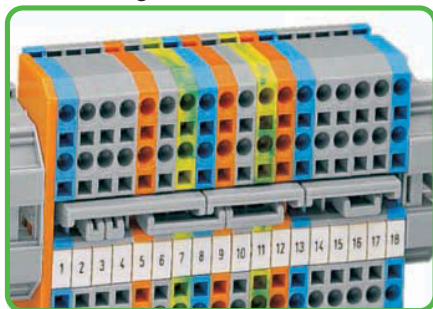
Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. In addition to the required marking of these blocks, use yellow-green adjacent jumpers.

Commoning with step-down jumpers



Commoning terminal blocks of different sizes – step down.
For application notes, see page 178.

Commoning



Staggered jumpers for sophisticated circuit requirements. Push jumpers down firmly until fully inserted. For additional notes, see page 201.

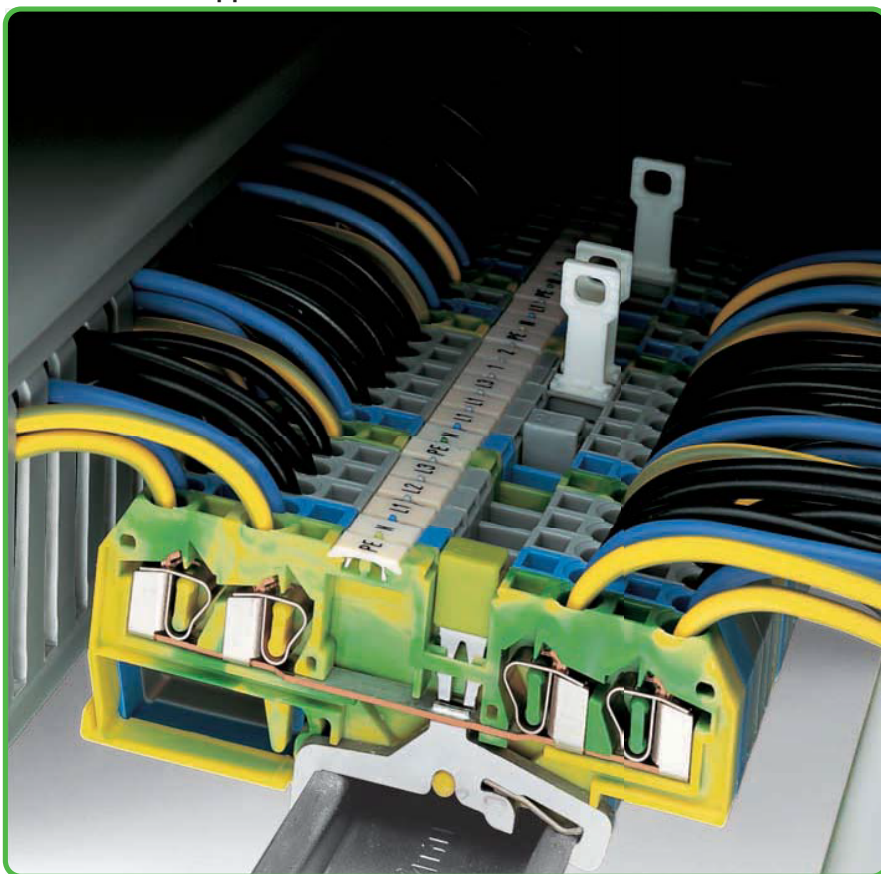
CAGE CLAMP®
clamps the following
copper conductors:*

solid

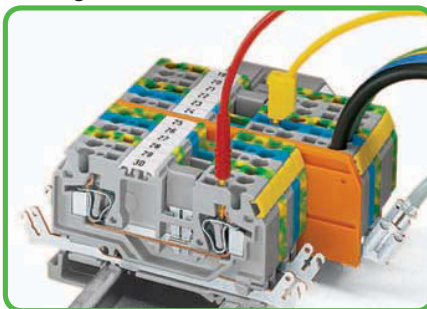
stranded

* For aluminum conductors, see notes in Section 14.

According to EN 60947-7-2 (VDE 0611, part 3), steel carrier rails shall not be used for PEN applications

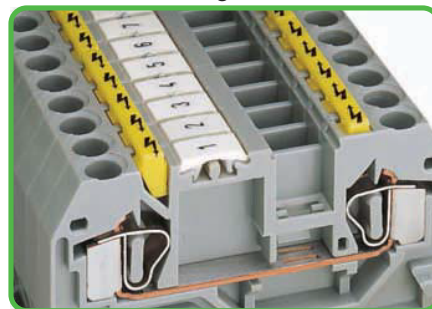


Testing - 880 Series



880 Series terminal blocks have an additional test slot for 2 mm Ø or 2.3 mm Ø test plugs.

Protective warning marker



Protective warning markers inserted into the operating slots.

fine-stranded,
also with tinned
single strands

- Description and Handling -

CAGE CLAMP® connection



Conductor termination

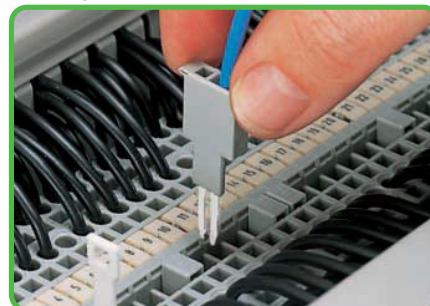
CAGE CLAMP® connection



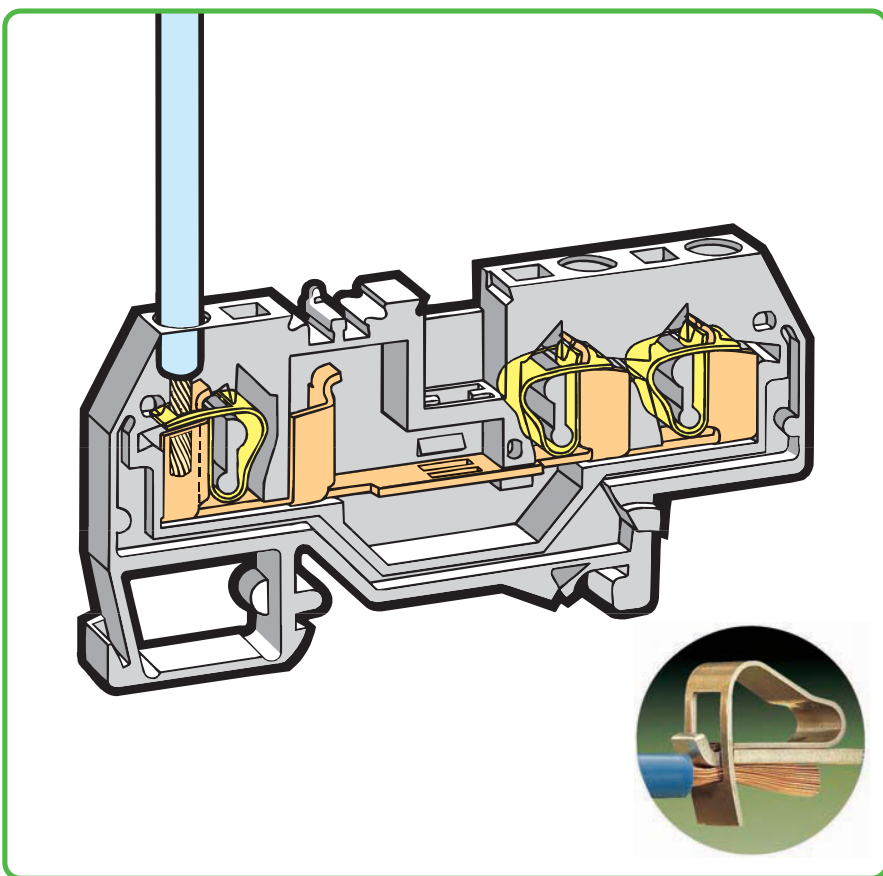
Conductor termination

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

Testing



Testing with test plug.
Test plug fitted with CAGE CLAMP®.

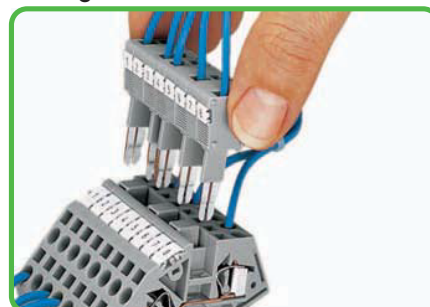


Testing



L-type test plug modules fitted with CAGE CLAMP®.
For application notes, see page 194.

Testing



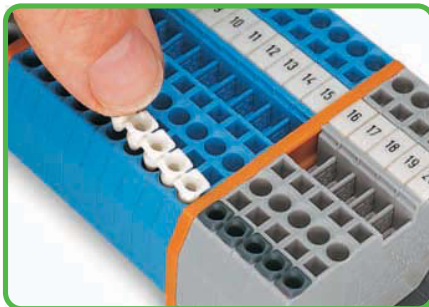
B-type test plug modules fitted with CAGE CLAMP®.
For application notes, see page 195.

Marking



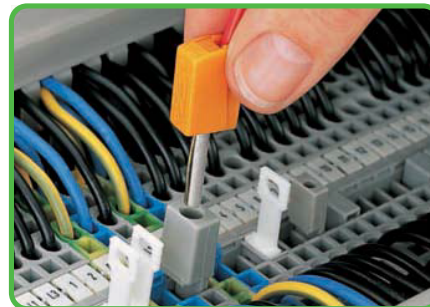
Marking with WMB Multi marking system.
For additional systems, see Section 13.

Insulation stop



Insertion of insulation stop.
For application notes, see page 199.

Testing



Testing with test plug.
Using 209-170 test plug adapter.



fine-stranded,
tip-bonded



fine-stranded,
with ferrule ❶
(gaslight crimped)



fine-stranded,
with pin terminal
(gaslight crimped)

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

0.08 - 4 mm²
800 V/8 kV/3 ①
I_N 32 A
Terminal block width 6 mm / 0.236 in
9 - 10 mm / 0.37 in ②

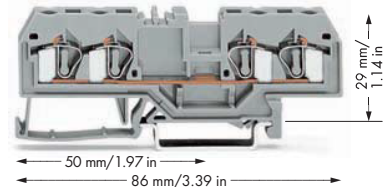
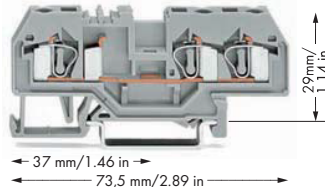
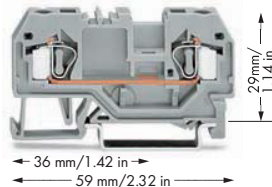
AWG 28 - 12
600 V, 20 A ②
600 V, 25 A ③

0.08 - 4 mm²
800 V/8 kV/3 ①
I_N 32 A
Terminal block width 6 mm / 0.236 in
9 - 10 mm / 0.37 in ②

AWG 28 - 12
600 V, 20 A ②
600 V, 25 A ③

0.08 - 4 mm²
800 V/8 kV/3 ①
I_N 26 A
Terminal block width 6 mm / 0.236 in
9 - 10 mm / 0.37 in ②

AWG 28 - 12
600 V, 20 A ②
600 V, 25 A ③



Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
2-conductor through terminal block		3-conductor through terminal block		4-conductor through terminal block	
 gray	281-901 50	 gray	281-681 50	 gray	281-652 50
 blue	281-904 ③ 50	 blue	281-684 ③ 50	 blue	281-654 ③ 50
 orange	281-902 50	 orange	281-678 50	 orange	281-653 50
 red	281-903 50	 red	281-679 50	 red	281-663 50
 black	281-905 50	 black	281-685 50	 black	281-664 50
 yellow	281-906 50	 yellow	281-686 50	 yellow	281-668 50
 light gray ☹	281-992 ④ 50	 light gray ☹	281-993 ④ 50	 light gray ☹	281-994 ④ 50
2-conductor ground terminal block		3-conductor ground terminal block		4-conductor ground terminal block	
 green-yellow	281-907 50	 green-yellow	281-687 50	 green-yellow	281-657 50
 green-yellow ☹	281-907/999-950 ④ 50	 green-yellow ☹	281-687/999-950 ④ 50	 green-yellow ☹	281-657/999-950 ④ 50
				4-conductor shield terminal block	
				 white	281-658 50
Other terminal blocks with the same profile:		Other terminal blocks with the same profile:		Other terminal blocks with the same profile:	
Diode	281-915/281-410 Page 258	Diode	281-673/281-410 Page 258	Diode	281-665/281-410 Page 258
Disconnect	281-912 Page 208	Disconnect	281-683 Page 208	Disconnect	281-659 Page 208
Carrier	281-916 Page 230	Carrier	281-610 Page 230	Disc., test & meas.	281-666 Page 208
				Carrier	281-656 Page 230
Item-Specific Accessories		Item-Specific Accessories		Item-Specific Accessories	
End and intermediate plate, 2.5 mm thick		End and intermediate plate, 2.5 mm thick		End and intermediate plate, 2.5 mm thick	
 orange	281-329 100 (4x25)	 orange	281-326 100 (4x25)	 orange	281-335 100 (4x25)
 gray	281-328 100 (4x25)	 gray	281-324 100 (4x25)	 gray	281-334 100 (4x25)
 light gray	281-349 100 (4x25)	 light gray	281-355 100 (4x25)	 light gray	281-345 100 (4x25)
Separator, oversized, 2 mm thick		Separator, oversized, 2 mm thick		Separator, oversized, 2 mm thick	
 orange	281-331 100 (4x25)	 orange	281-346 100 (4x25)	 orange	281-339 100 (4x25)
 gray	281-330 100 (4x25)	 gray	281-344 100 (4x25)	 gray	281-338 100 (4x25)
 light gray	281-350 100 (4x25)	 light gray	281-356 100 (4x25)	 light gray	281-347 100 (4x25)
Ex e/Ex i separator, orange, 3 mm thick		Ex e/Ex i separator, orange, 3 mm thick		Ex e/Ex i separator, orange, 3 mm thick	
 120 mm	209-191 50 (2x25)	 120 mm	209-191 50 (2x25)	 120 mm	209-191 50 (2x25)
 90 mm	209-190 50 (2x25)				
				Cover plate,	
				 1 mm thick	
				gray	284-336 100
				orange	284-346 100
281 Series Accessories					
Appropriate marking systems: WMB/WFB (see Section 13)					
Insulation stop,		Insulation stop,		Insulation stop,	
⑤  5 pcs/strip, 0.08 - 0.2 mm² "s" (0.14 mm² "f-st")		⑤  5 pcs/strip, 0.25 - 0.5 mm²		⑤  5 pcs/strip, 0.25 - 1.5 mm²	
white	281-470 200 (8x25)	light gray	281-471 200 (8x25)	dark gray	281-472 200 (8x25)

For list of approvals and user guide, see pages 634 to 637.