

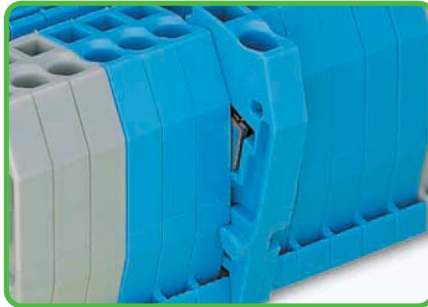
Rail-Mounted Terminal Blocks 279 to 285 Series and 880 Series

Assembly



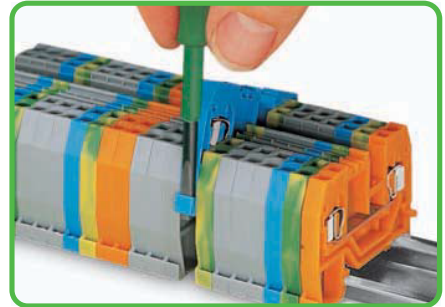
By snapping a ground conductor terminal block onto the carrier rail, a direct electrical connection is automatically made to the rail.

Assembly



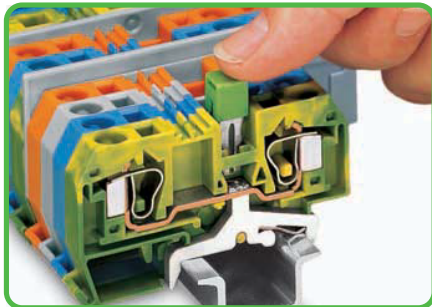
Quick assembly keys prevent reverse mounting.

Removal



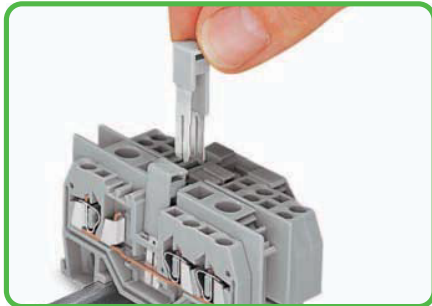
Removing a terminal block from the assembly.

Commoning



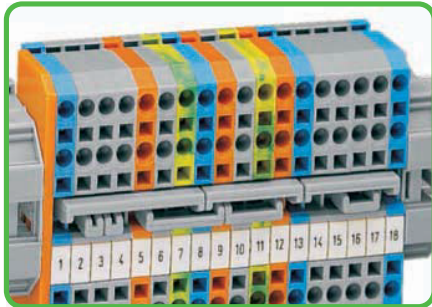
Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. In addition to the required marking of these blocks, use yellow-green adjacent jumpers.

Commoning with step-down jumpers



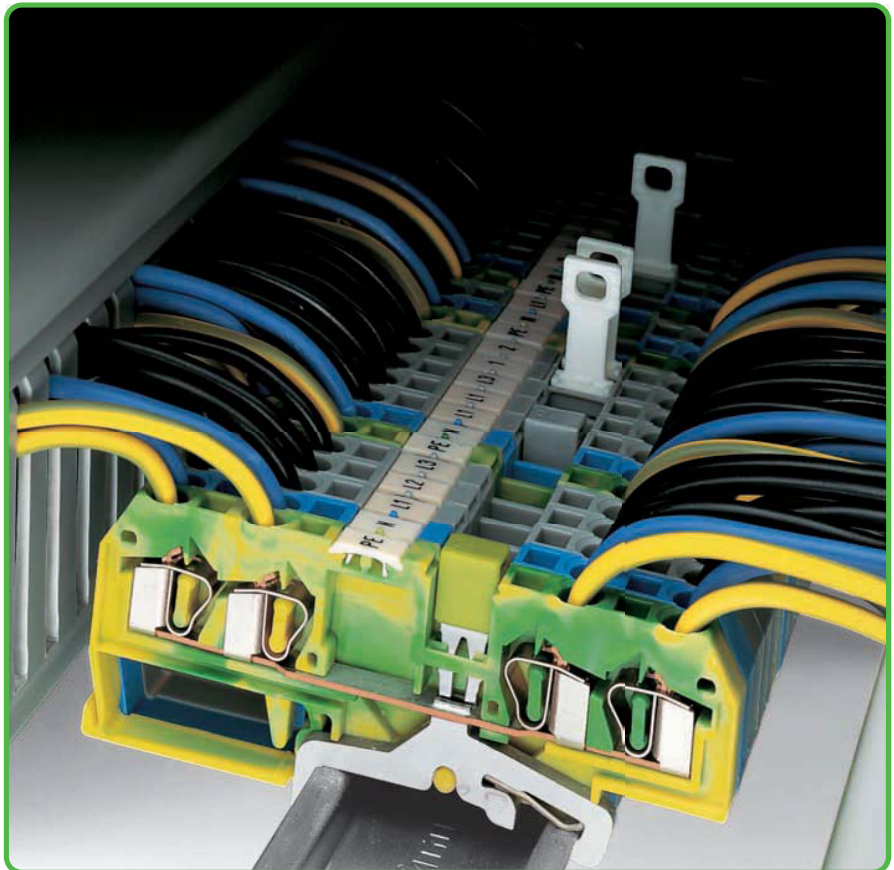
Commoning terminal blocks of different sizes – step down.
For application notes, see page 178.

Commoning

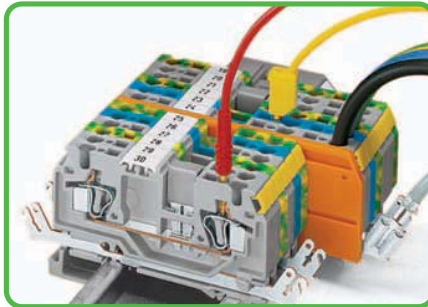


Staggered jumpers for sophisticated circuit requirements. Push jumpers down firmly until fully inserted. For additional notes, see page 201.

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

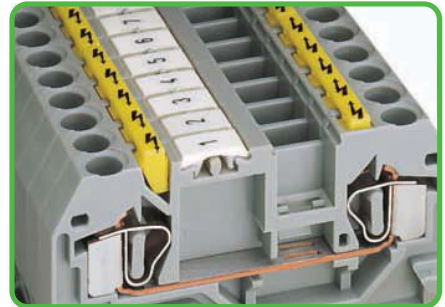


Testing - 880 Series

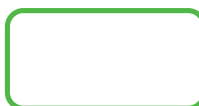


880 Series terminal blocks have an additional test slot for 2 mm Ø or 2.3 mm Ø test plugs.

Protective warning marker

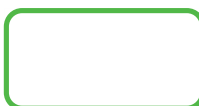


Protective warning markers inserted into the operating slots.

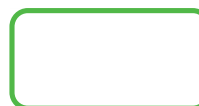


CAGE CLAMP®
clamps the following
copper conductors:*

solid



stranded

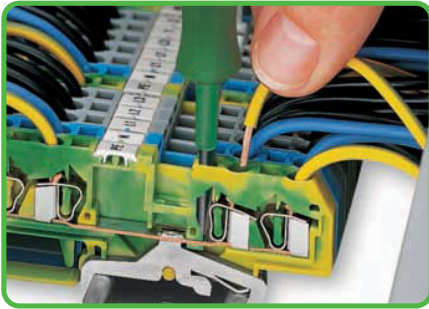


fine-stranded,
also with tinned
single strands

* For aluminum conductors, see notes in Section 14.

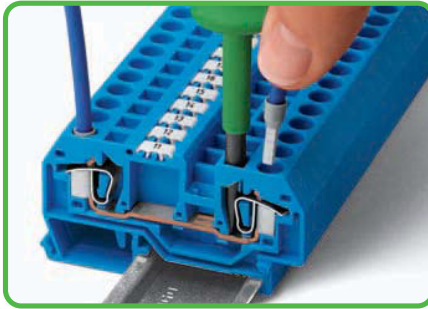
- Description and Handling -

CAGE CLAMP® connection



Conductor termination

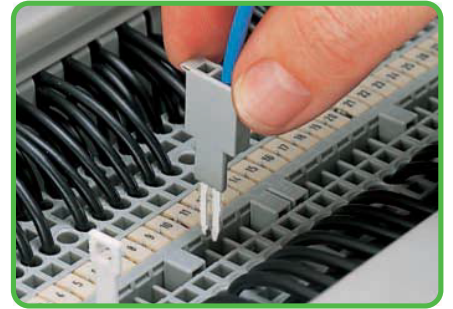
CAGE CLAMP® connection



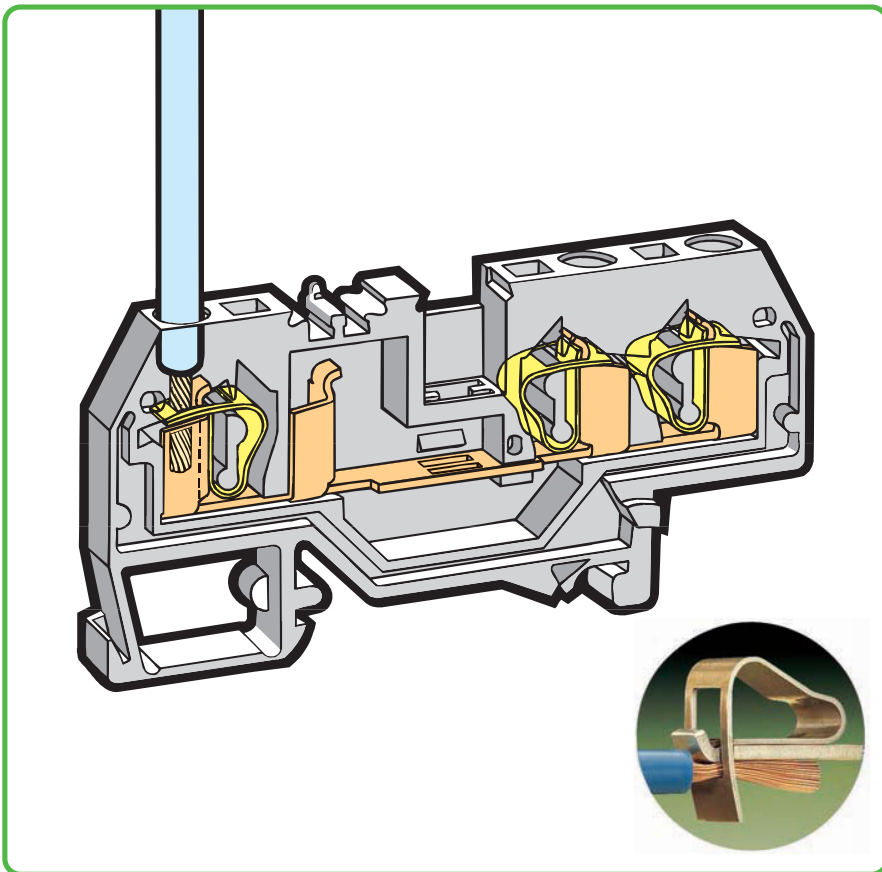
Conductor termination

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

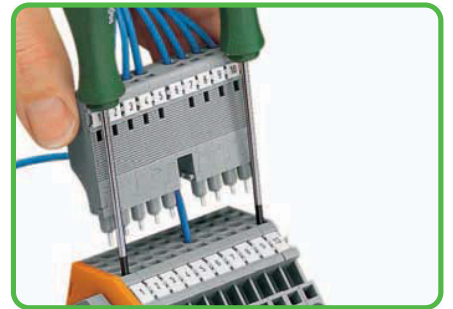
Testing



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

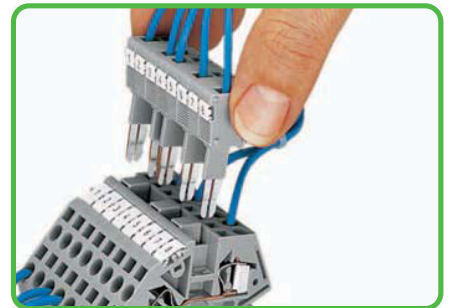


Testing



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

Testing



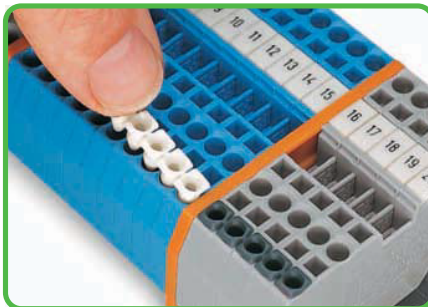
B-type test plug modules fitted with CAGE CLAMP®.
For application notes, see page 195.

Marking



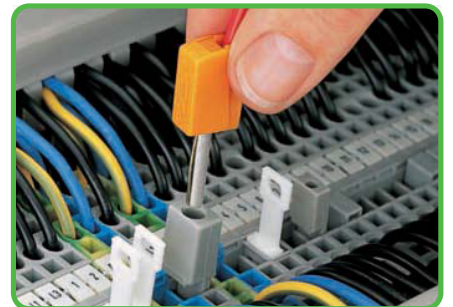
Marking with WMB Multi marking system.
For additional systems, see Section 13.

Insulation stop

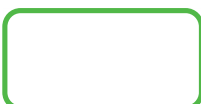


Insertion of insulation stop.
For application notes, see page 199.

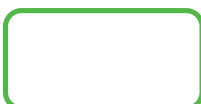
Testing



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



fine-stranded,
tip-bonded

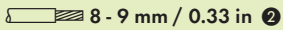
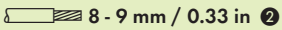
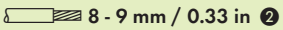


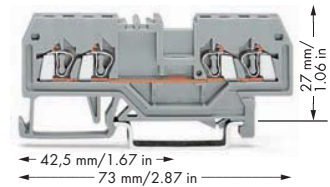
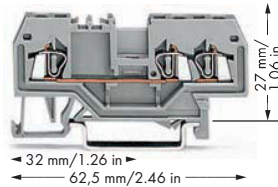
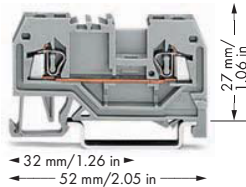
fine-stranded,
with ferrule ❶
(gastight crimped)































fine-stranded,
with pin terminal
(gastight crimped)

Through/Ground Conductor/Shield and Ex Terminal Blocks 1.5 mm² 279 Series

0.08 - 1.5 mm² 800 V/8 kV/3 ① I _N 18 A Terminal block width 4 mm / 0.157 in  8 - 9 mm / 0.33 in ②	AWG 28 - 16 600 V, 10 A ③ 600 V, 10 A ④	0.08 - 1.5 mm² 800 V/8 kV/3 ① I _N 18 A Terminal block width 4 mm / 0.157 in  8 - 9 mm / 0.33 in ②	AWG 28 - 16 600 V, 10 A ③ 600 V, 10 A ④	0.08 - 1.5 mm² 800 V/8 kV/3 ① I _N 18 A Terminal block width 4 mm / 0.157 in  8 - 9 mm / 0.33 in ②	AWG 28 - 16 600 V, 10 A ③ 600 V, 10 A ④
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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 279-901	100	gray 279-681	100	gray 279-831	100
blue 279-904 ③	100	blue 279-684 ③	100	blue 279-834 ③	100
orange 279-902	100	orange 279-682	100	orange 279-832	100
red 279-903	100	red 279-683	100	red 279-833	100
black 279-905	100	black 279-685	100	black 279-835	100
yellow 279-906	100	yellow 279-686	100	yellow 279-836	100
light gray ④ 279-992 ④	100	light gray ④ 279-993 ④	100	light gray ④ 279-994 ④	100
2-conductor ground terminal block		3-conductor ground terminal block		4-conductor ground terminal block	
green-yellow 279-907	100	green-yellow 279-687	100	green-yellow 279-837	100
green-yellow ④ 279-907/999-950 ④	100	green-yellow ④ 279-687/999-950 ④	100	green-yellow ④ 279-837/999-950 ④	100
Other terminal blocks with the same profile:		Other terminal blocks with the same profile:		Other terminal blocks with the same profile:	
Diode 279-915/281-410	Page 254	Diode 279-673/281-410	Page 254	Diode 279-815/281-410	Page 254
		LED 279-674/281-434	Page 254	LED 279-809/281-434	Page 254
				Double-potential 279-826	Page 163
Item-Specific Accessories		Item-Specific Accessories		Item-Specific Accessories	
End and intermediate plate, 2 mm thick		End and intermediate plate, 2 mm thick		End and intermediate plate, 2 mm thick	
 orange 279-328	100 (4x25)	 orange 279-339	100 (4x25)	 orange 279-346	100 (4x25)
 gray 279-325	100 (4x25)	 gray 279-308	100 (4x25)	 gray 279-344	100 (4x25)
 light gray 279-330	100 (4x25)	 light gray 279-341	100 (4x25)	 light gray 279-348	100 (4x25)
Separator, oversized, 2 mm thick		Separator, oversized, 2 mm thick		Separator, oversized, 2 mm thick	
 orange 279-329	100 (4x25)	 orange 279-340	100 (4x25)	 orange 279-347	100 (4x25)
 gray 279-326	100 (4x25)	 gray 279-309	100 (4x25)	 gray 279-345	100 (4x25)
 light gray 279-331	100 (4x25)	 light gray 279-342	100 (4x25)	 light gray 279-349	100 (4x25)
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	
 90 mm 209-190	50 (2x25)	 120 mm 209-191	50 (2x25)	 120 mm 209-191	50 (2x25)
 120 mm 209-191	50 (2x25)				
				Cover plate,	
				 1 mm thick	
				gray 284-336	100
				orange 284-346	100
279 Series Accessories					
Appropriate marking systems: WMB/WFB (see Section 13)					
Insulation stop,		Adjacent jumper, insulated,		Push-in type wire jumper,	
⑤  5 pcs/strip,		 I _N 15 A		⑤  insulated,	
0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st")		gray 279-402	200 (8x25)	I _N 9 A,	
white 279-470	200 (8x25)	yellow-green 279-422	200 (8x25)	wire size 0.75 mm ²	
Insulation stop,		Alternate jumper, insulated,		L = 60 mm 249-125	10
⑤  5 pcs/strip,		 I _N 15 A		L = 110 mm 249-126	10
0.25 mm ²		gray 279-409	100 (4x25)	L = 250 mm 249-127	10
dark gray 279-471	200 (8x25)				

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