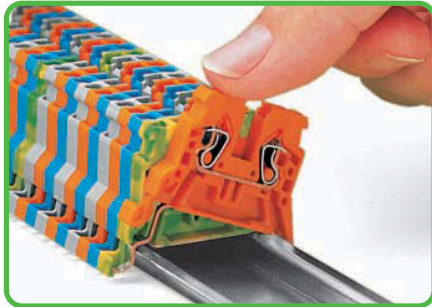


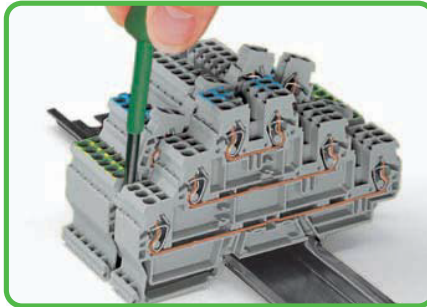
# Compact Rail-Mounted Terminal Blocks for DIN 15 and DIN 35 Rails 870 Series

## Assembly



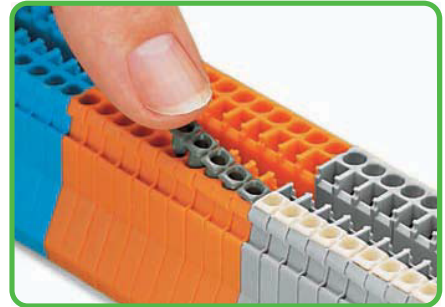
Snapping a rail-mount terminal block onto DIN 35 carrier rail.

## Removal



Removing a terminal block from the assembly.

## Insulation stop



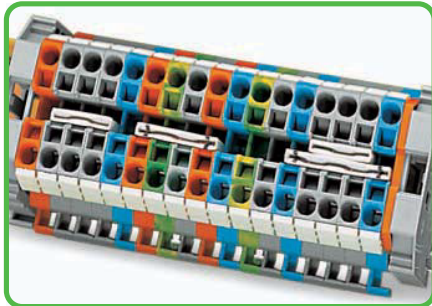
Inserting an insulation stop.

## Push-in type jumper bar system

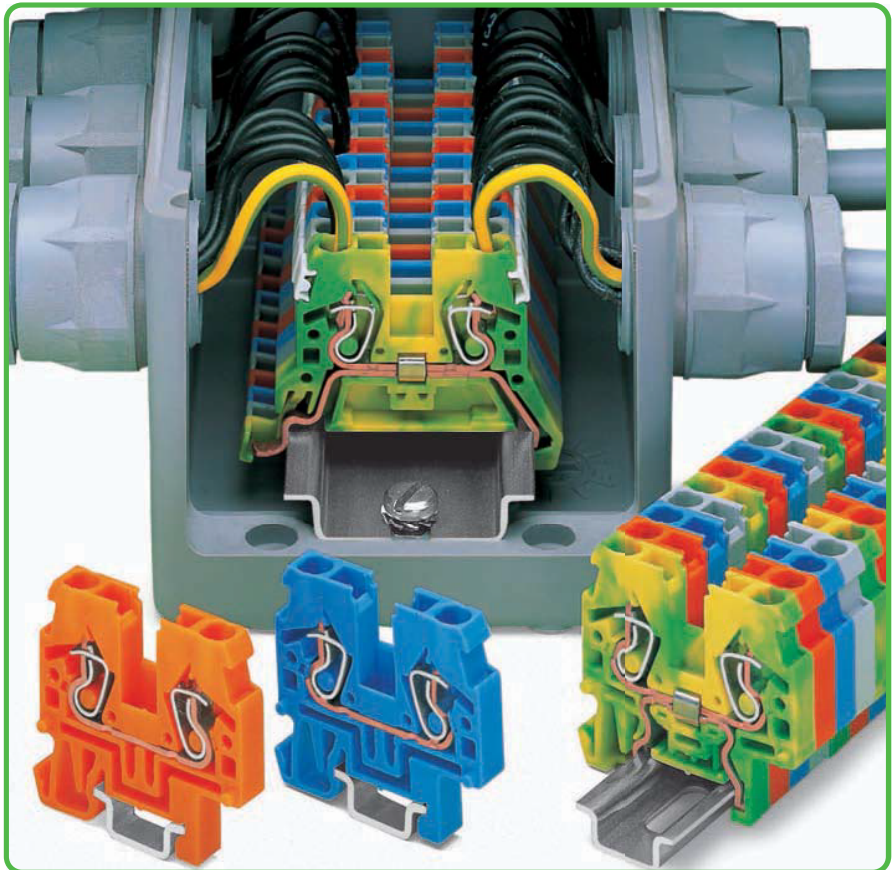


Push jumper bars down firmly until fully inserted. When using multipole bars, push alternately on right and then left side, until installed.  
Push-in type jumper bars 1 - 3 - 5 - 7 or 1 - - 4 - - 7 upon request.

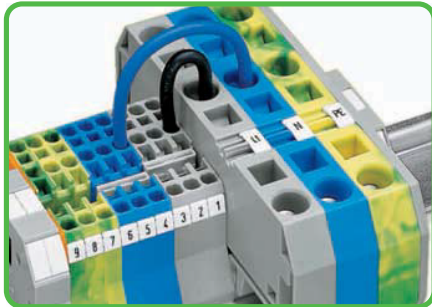
## Push-in type jumper bar system



Two parallel jumper receptacles are accommodated in one terminal block.

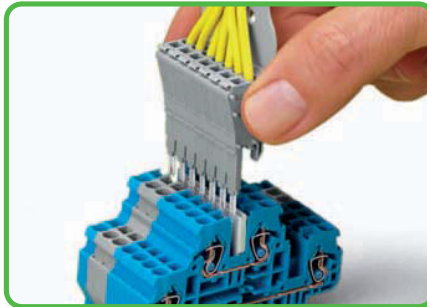


## Commoning with step-down jumpers



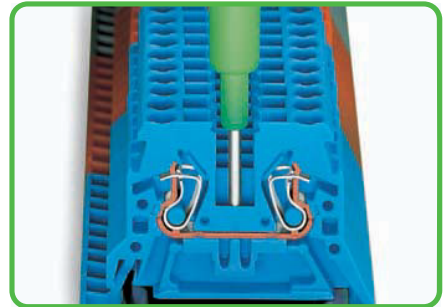
Commoning terminal blocks of different sizes - step down.

## Testing



Testing is also possible using a pre-wired module assembly, similar to test plugs.

## Testing



Testing with phase testing device, also possible with single-pole voltage tester.



**CAGE CLAMP®** clamps the following copper conductors:\*

solid



stranded



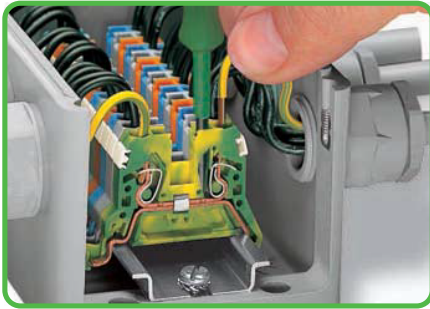
fine-stranded, also with tinned single strands

\* For aluminum conductors, see notes in Section 14.

① When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

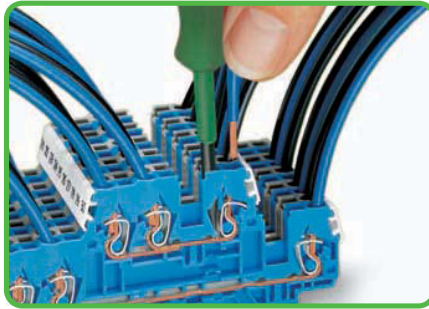
- Description and Handling -

CAGE CLAMP® connection



Terminating fine-stranded conductors ranging from 0.08 to 4 mm<sup>2</sup> (AWG 28 - 12).

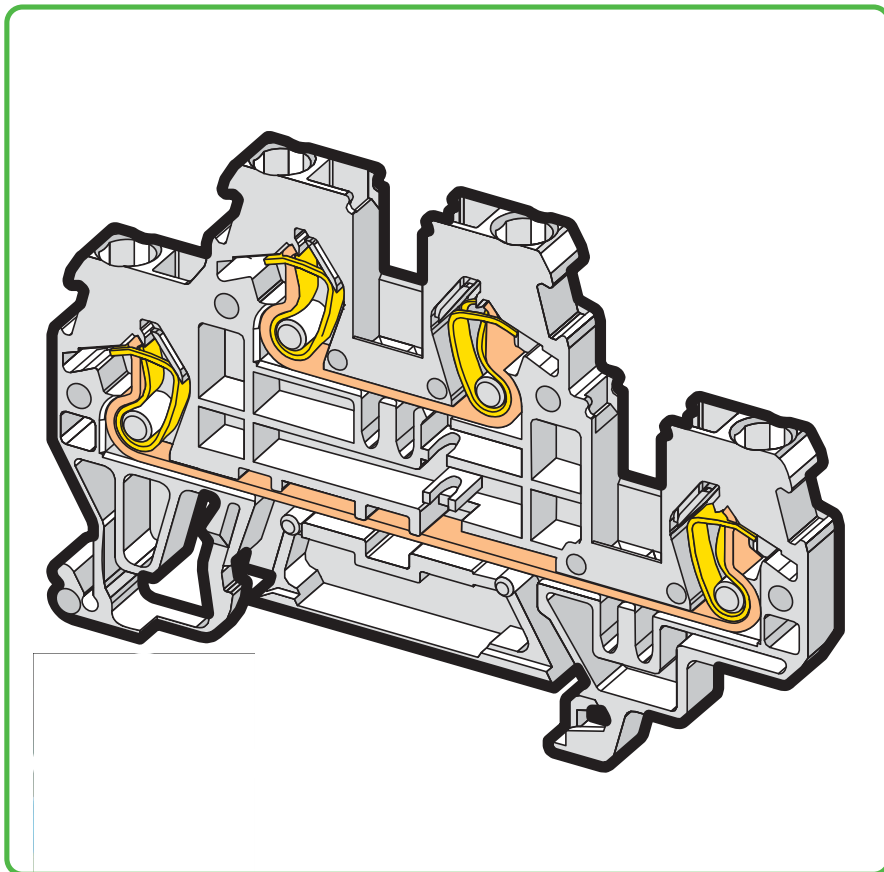
CAGE CLAMP® connection



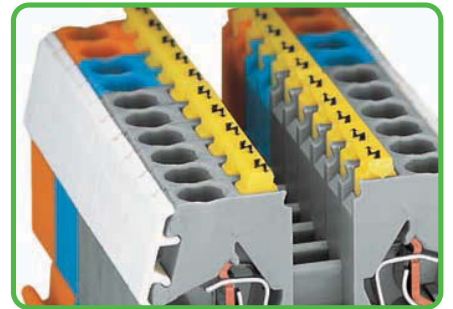
Multilevel terminal blocks



Double- and triple-deck terminal blocks with internal commoning acting as 4- and 6-conductor terminal blocks.

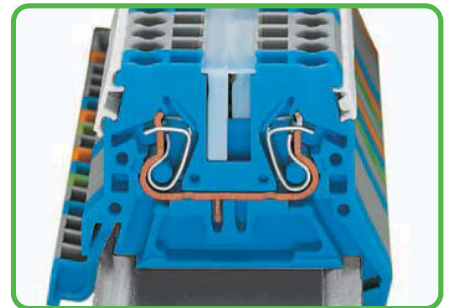


Protective warning marker



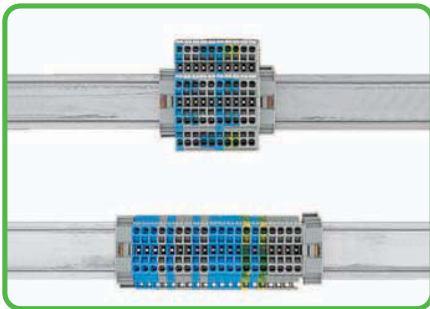
Protective warning markers (280-405), with black high-voltage symbols.

Marking



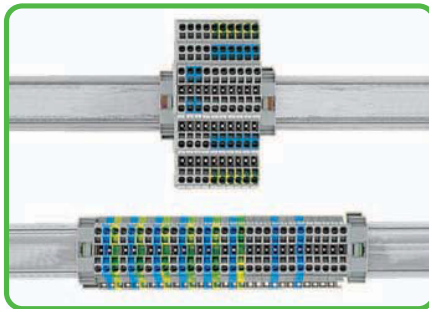
Marking the clamping unit via WMB Multi marking system or miniature WSB Quick marking system.

Space saver



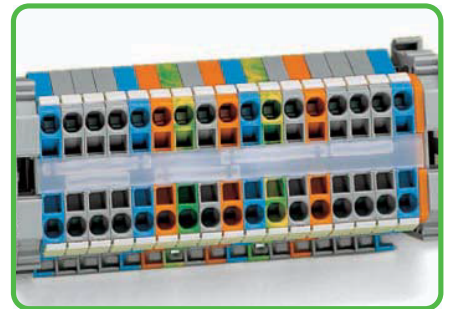
Save 50% of rail space when using double-deck terminal blocks.

Space saver

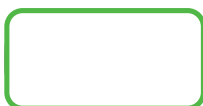


Save 67% of rail space when using triple-deck terminal blocks.

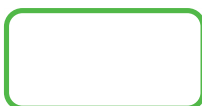
Marking Strips



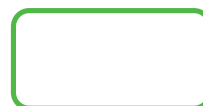
Transparent marker strips (note: Jumpers below may be visible).



fine-stranded, tip-bonded



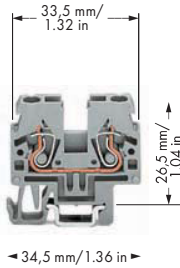
fine-stranded, with ferrule ① (gastight crimped)



fine-stranded, with pin terminal (gastight crimped)

0.08 - 2.5 (4 "f-st") mm<sup>2</sup> ① AWG 28 - 12  
 500 V/6 kV/3 ② 300 V, 20 A. **UL**  
 I<sub>N</sub> 24 A

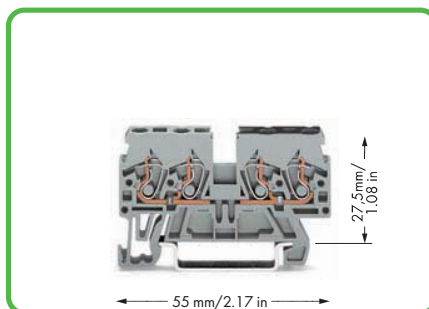
Terminal block width 5 mm / 0.197 in  
 6 - 7 mm / 0.26 in ③



**Assembly:**  
 Snap individual terminal blocks onto DIN 15 carrier rail and slide together.  
**Removal:**  
 Open assembly by laterally sliding terminal blocks with an operating tool and remove them from the rail.

- ① Max. insulation diameter: 4.4 mm
- ② 500 V = rated voltage  
 6 kV = rated surge voltage  
 3 = pollution degree  
 (also see Section 14)
- ③ Strip length, see packaging or instructions.
- ④ Suitable for Ex i applications
- ⑤ Suitable for Ex e II applications  
 0.2 mm<sup>2</sup> - 2.5 (4 "f-st") mm<sup>2</sup>/AWG 24 - 12  
 440 V, 22 A  
 Using push-in type jumper bars 1 to X, the maximum rated voltage is reduced to 275 V and the rated current to 13.5 A  
 (also see Section 14)
- ⑥ See application notes for:  
 Insulation stop, page 199  
 Tap-off module, page 283

Item No.	Pack. Unit
<b>2-conductor through terminal block,</b> for DIN 15 rail	
gray 870-911	100
blue 870-914 ④	100
orange 870-912	100
light gray ⑤ 870-919	100
<b>2-conductor ground terminal block,</b> for DIN 15 rail, Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars.	
green-yellow 870-917	100



**Double-potential terminal block**  
 with integrated marking position.  
 gray 870-826  
 Packing unit: 100 pcs



Protective warning markers inserted into the operating slots.

**Notice: This double-potential terminal block cannot be commoned with push-in type jumper bars!**

Item-Specific Accessories			
<b>End and intermediate plate, 2 mm thick</b>			
orange 870-924	100	(4x25)	
gray 870-923	100	(4x25)	
light gray 870-925	100	(4x25)	
<b>Separator, oversized, 2 mm thick</b>			
orange 870-929	100	(4x25)	
gray 870-928	100	(4x25)	

For technical data and accessories, see [www.wago.com](http://www.wago.com)



Miniature WSB or WMB markers provide marking directly on terminal block.

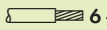
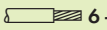



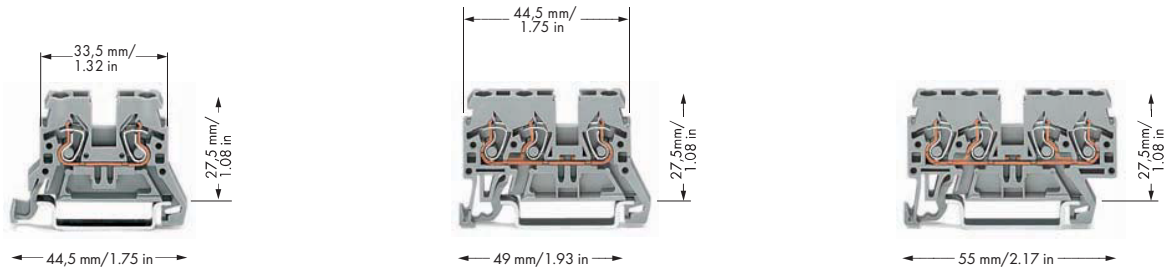
In order to meet creepage and clearance requirements for Ex e applications, it is necessary to insert an end or intermediate plate between a through and a ground conductor terminal block.  
 End plates 870-923 (gray), 870-924 (orange) and 870-925 (light gray), as well as separator plates 870-928 (gray) and 870-929 (orange) cannot be assembled to 870-907/999-950 2-conductor ground Ex terminal blocks.

<b>Protective warning marker,</b> with high-voltage symbol, black, for 5 terminal blocks			
yellow 280-405	100	(4x25)	
<b>Tap-off module with anti-reverse mating protection,</b> ⑥ can be snapped together, 5 mm wide			
gray 870-425	100	(4x25)	
<b>Miniature WSB Quick marking system,</b> 10 strips with 10 markers per card, 5 mm wide markers			
plain 248-501	5		

WAGO front-entry double-potential terminal blocks are space savers.  
 Two independent feedthrough circuits are placed in one insulated housing on one level in just 5 mm/0.197 in. This achieves a width of just 2.5 mm/0.098 in is achieved versus standard through terminal blocks for a total height of only 27.5 mm/1.08 in from the upper edge of the carrier rail.  
 Input and output contacts of one circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

# Through/Ground Conductor and Ex Terminal Blocks 2.5 mm<sup>2</sup> (4 mm<sup>2</sup> "f-st") for DIN 35 and DIN 15 Rails 870 Series

<b>0.08 - 2.5 (4"f-st")mm<sup>2</sup> ①</b> AWG 28 - 12 500 V/6 kV/3 ② I <sub>N</sub> 24 A Terminal block width 5 mm / 0.197 in  6 - 7 mm / 0.26 in ③	<b>0.08 - 2.5 (4"f-st")mm<sup>2</sup> ①</b> AWG 28 - 12 500 V/6 kV/3 ② I <sub>N</sub> 24 A Terminal block width 5 mm / 0.197 in  6 - 7 mm / 0.26 in ③	<b>0.08 - 2.5 (4"f-st")mm<sup>2</sup> ①</b> AWG 28 - 12 500 V/6 kV/3 ② I <sub>N</sub> 24 A Terminal block width 5 mm / 0.197 in  6 - 7 mm / 0.26 in ③
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
<b>2-conductor through terminal block, for DIN 35 rail</b>		<b>3-conductor through terminal block, for DIN 35 rail</b>		<b>4-conductor through terminal block, for DIN 35 rail</b>	
gray 870-901	100	gray 870-681	100	gray 870-831	100
blue 870-904 ④	100	blue 870-684 ④	100	blue 870-834 ④	100
orange 870-902	100	orange 870-682	100	orange 870-832	100
light gray ⑤	100				
<b>2-conductor ground terminal block, for DIN 35 rail,</b> Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars.		<b>3-conductor ground terminal block, for DIN 35 rail,</b> Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars.		<b>4-conductor ground terminal block, for DIN 35 rail,</b> Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars.	
green-yellow 870-907	100	green-yellow 870-687	100	green-yellow 870-837	100
green-yellow ⑤	100				
<b>Other terminal blocks with the same profile:</b> Double-potential 870-826 Page 277					
<b>Item-Specific Accessories</b>		<b>Item-Specific Accessories</b>		<b>Item-Specific Accessories</b>	
<b>End and intermediate plate, 2 mm thick</b>		<b>End and intermediate plate, 1 mm thick</b>		<b>End and intermediate plate, 1 mm thick</b>	
orange 870-924	100 (4x25)	orange 870-934	100 (4x25)	orange 870-944	100 (4x25)
gray 870-923	100 (4x25)	gray 870-933	100 (4x25)	gray 870-943	100 (4x25)
light gray 870-925	100 (4x25)				
<b>Separator, oversized, 2 mm thick</b>		<b>Separator, oversized, 1 mm thick</b>		<b>Separator, oversized, 1 mm thick</b>	
orange 870-929	100 (4x25)	orange 870-947	100 (4x25)	orange 870-949	100 (4x25)
gray 870-928	100 (4x25)	gray 870-946	100 (4x25)	gray 870-948	100 (4x25)
<b>End and intermediate plate, 2 mm thick, for 2-conductor ground conductor Ex terminal blocks only</b>					
green-yellow 870-926	100 (4x25)				
<b>Ex e/Ex i separator, orange, 3 mm thick</b>					
90 mm 209-190	50 (2x25)				
120 mm 209-191	50 (2x25)				

**870 Series Accessories**

Appropriate marking systems: WMB/Miniature WSB (see Section 13)

Insulation stop, ④	Push-in type jumper bar, insulated, I <sub>N</sub> 18 A, light gray	Push-in type jumper bar, insulated, I <sub>N</sub> 18 A, light gray
5 pcs/strip, 0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st") white 280-470 200 (8x25)	2-way 870-402 200 (8x25)	from 1 to 3 870-433 200 (8x25)
	3-way 870-403 200 (8x25)	from 1 to 4 870-434 200 (8x25)
	4-way 870-404 200 (8x25)	from 1 to 5 870-435 100 (4x25)
	5-way 870-405 100 (4x25)	from 1 to 6 870-436 100 (4x25)
	6-way 870-406 100 (4x25)	from 1 to 7 870-437 100 (4x25)
	7-way 870-407 100 (4x25)	from 1 to 8 870-438 100 (4x25)
	8-way 870-408 100 (4x25)	from 1 to 9 870-439 100 (4x25)
	9-way 870-409 100 (4x25)	from 1 to 10 870-440 100 (4x25)
	10-way 870-410 100 (4x25)	

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