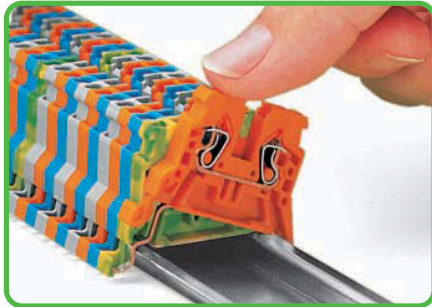


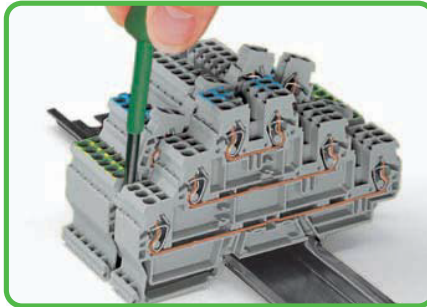
# Compact Rail-Mounted Terminal Blocks for DIN 15 and DIN 35 Rails 870 Series

## Assembly



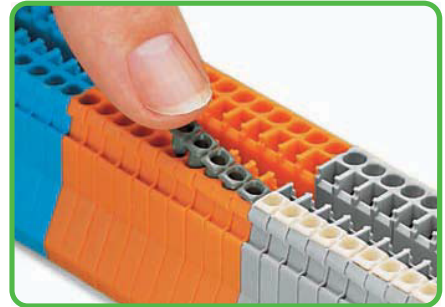
Snapping a rail-mount terminal block onto DIN 35 carrier rail.

## Removal



Removing a terminal block from the assembly.

## Insulation stop



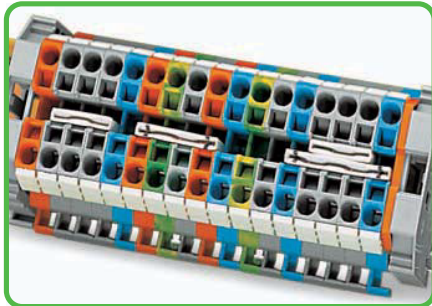
Inserting an insulation stop.

## Push-in type jumper bar system

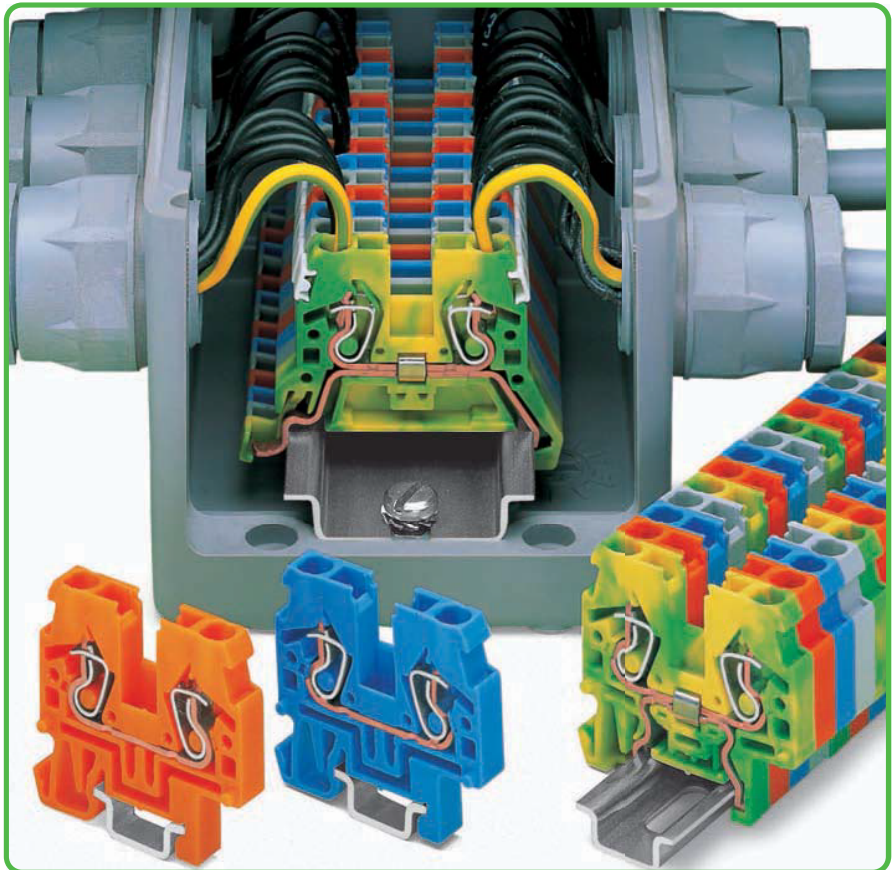


Push jumper bars down firmly until fully inserted. When using multipole bars, push alternately on right and then left side, until installed.  
Push-in type jumper bars 1 - 3 - 5 - 7 or 1 - - 4 - - 7 upon request.

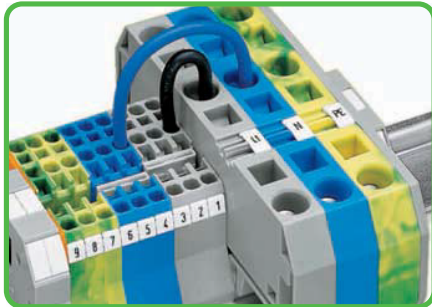
## Push-in type jumper bar system



Two parallel jumper receptacles are accommodated in one terminal block.

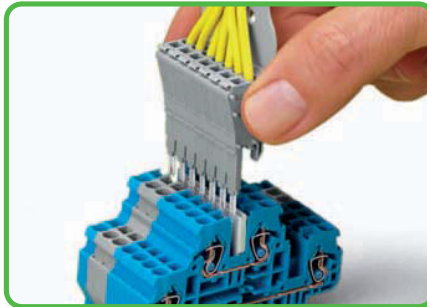


## Commoning with step-down jumpers



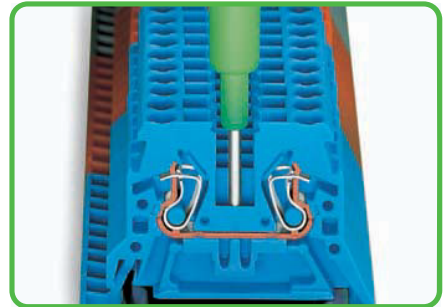
Commoning terminal blocks of different sizes - step down.

## 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



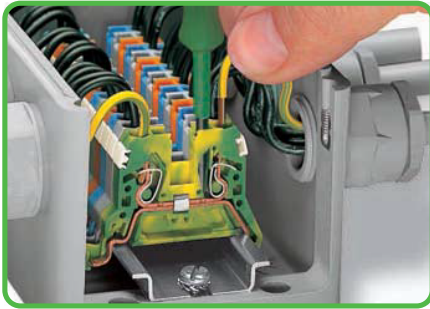
fine-stranded, also with tinned single strands

\* 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.

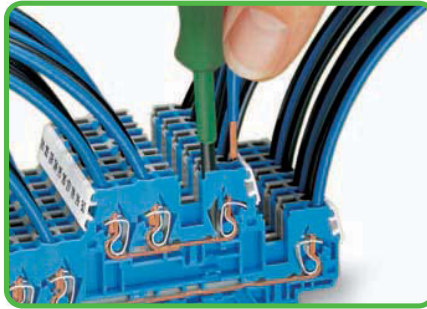
- Description and Handling -

CAGE CLAMP® connection



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

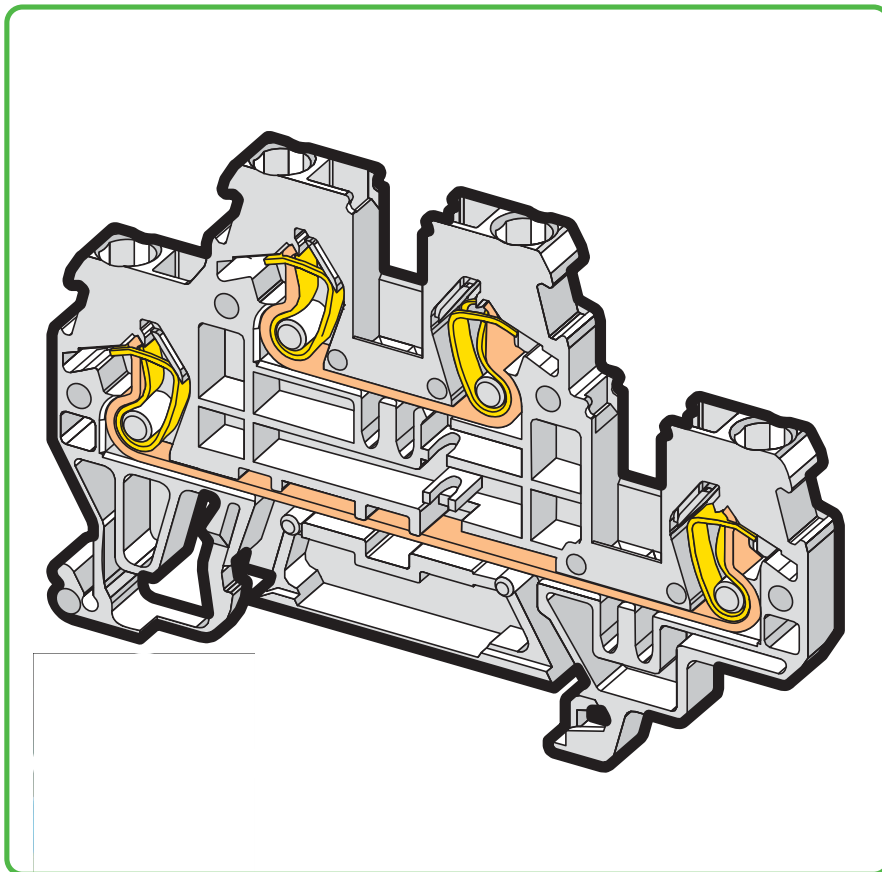
CAGE CLAMP® connection



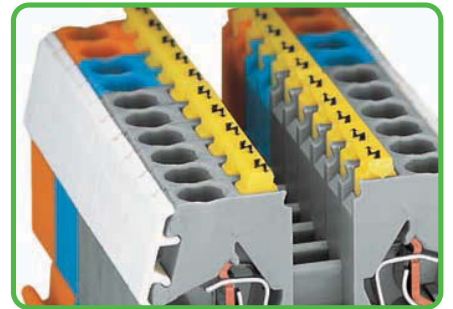
Multilevel terminal blocks



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

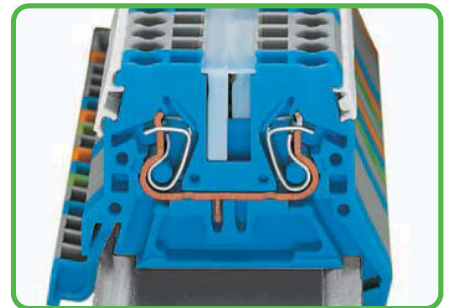


Protective warning marker



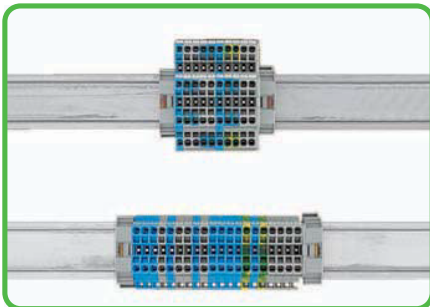
Protective warning markers (280-405), with black high-voltage symbols.

Marking



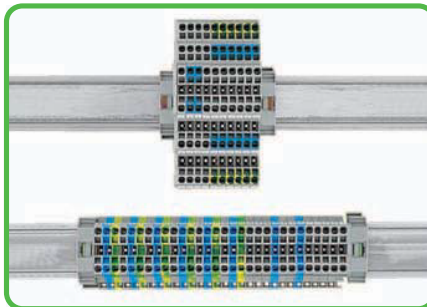
Marking the clamping unit via WMB Multi marking system or miniature WSB Quick marking system.

Space saver



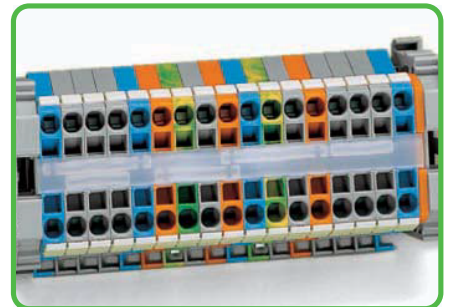
Save 50% of rail space when using double-deck terminal blocks.

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  
(gas-tight crimped)

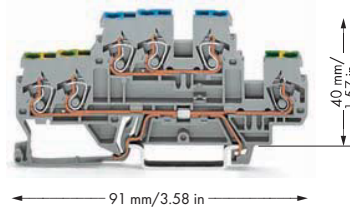
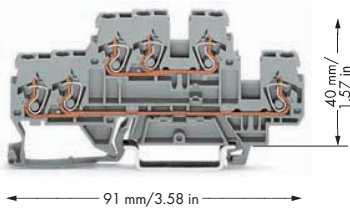


fine-stranded,  
with pin terminal  
(gas-tight crimped)

# 3-Conductor Double-Deck Terminal Blocks 2.5 mm<sup>2</sup> (4 mm<sup>2</sup> "f-st")

## 870 Series

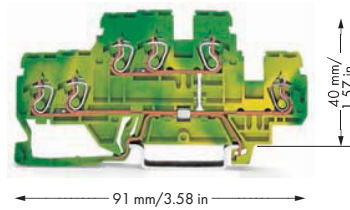
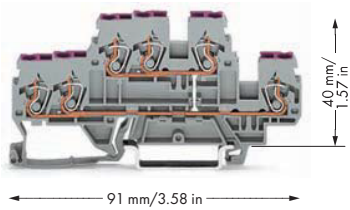
|   |                |   |             |
|---|----------------|---|-------------|
| 0.08 - 2.5 (4" f-st") mm <sup>2</sup> ① | AWG 28 - 12    | 0.08 - 2.5 (4" f-st") mm <sup>2</sup> ① | AWG 28 - 12 |
| 500 V/6 kV/3 ②                          | 300 V, 20 A, ③ | 500 V/6 kV/3 ②                          |             |
| I <sub>N</sub> 24 A                     |                | I <sub>N</sub> 24 A                     |             |
| Terminal block width 5 mm / 0.197 in    |                | Terminal block width 5 mm / 0.197 in    |             |
| 6 - 7 mm / 0.26 in ⑤                    |                | 6 - 7 mm / 0.26 in ⑤                    |             |



- 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 See application notes for: Insulation stop, page 199



| Item No.  | Pack. Unit   | Item No.   | Pack. Unit | Accessories  |
|---|--------------|--|------------|--|
| <b>Through/through terminal block, gray housing</b> |              | <b>Ground conductor/through terminal block, gray housing</b> |            | WMB/Miniature WSB (see Section 13)   |
| ○ L/L   | 870-531 50   | ○ PE/N   | 870-535 50 | <b>End and intermediate plate, 2 mm thick</b>  |
| ○ N/L   | 870-532 50   | ○ PE/L   | 870-536 50 | orange 870-574 100 (4x25)  |
| ○ L/N   | 870-533 50   |  |            | gray 870-573 100 (4x25)  |
| <b>Through/through terminal block, blue housing</b> |              |  |            | <b>Insulation stop,</b>  |
| ● N/N   | 870-534 ④ 50 |  |            | ⑤ 5 pcs/strip,<br>0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st")<br>white 280-470 200 (8x25) |



| Item No.  | Pack. Unit   | Item No.   | Pack. Unit | Accessories  |
|---|--------------|--|------------|--|
| <b>6-conductor through terminal block, internal commoning, conductor entry position colored in violet, gray housing</b> |              | <b>6-conductor ground terminal block, internal commoning, green-yellow housing</b> |            | <b>Insulation stop,</b>  |
| ○ L   | 870-538 50   | ● PE   | 870-537 50 | ⑤ 5 pcs/strip,<br>0.25 - 0.5 mm <sup>2</sup><br>light gray 280-471 200 (8x25)          |
| <b>6-conductor through terminal block, internal commoning, conductor entry position colored in violet, blue housing</b> |              |  |            | <b>Insulation stop,</b>  |
| ● N   | 870-539 ④ 50 |  |            | ⑤ 5 pcs/strip,<br>0.75 - 1 mm <sup>2</sup><br>dark gray 280-472 200 (8x25)             |
|   |              |  |            | <b>Push-in type jumper bar, insulated, I<sub>N</sub> 18 A,</b>                         |
|   |              |  |            | light gray   |
|   |              |  |            | 2-way 870-402 200 (8x25)   |
|   |              |  |            | 3-way 870-403 200 (8x25)   |
|   |              |  |            | 4-way 870-404 200 (8x25)   |
|   |              |  |            | 5-way 870-405 100 (4x25)   |
|   |              |  |            | 6-way 870-406 100 (4x25)   |
|   |              |  |            | 7-way 870-407 100 (4x25)   |
|   |              |  |            | 8-way 870-408 100 (4x25)   |
|   |              |  |            | 9-way 870-409 100 (4x25)   |
|   |              |  |            | 10-way 870-410 100 (4x25)  |
|   |              |  |            | <b>Push-in type jumper bar, insulated, I<sub>N</sub> 18 A,</b>                         |
|   |              |  |            | light gray   |
|   |              |  |            | from 1 to 3 870-433 200 (8x25)   |
|   |              |  |            | from 1 to 4 870-434 200 (8x25)   |
|   |              |  |            | from 1 to 5 870-435 100 (4x25)   |
|   |              |  |            | from 1 to 6 870-436 100 (4x25)   |
|   |              |  |            | from 1 to 7 870-437 100 (4x25)   |
|   |              |  |            | from 1 to 8 870-438 100 (4x25)   |
|   |              |  |            | from 1 to 9 870-439 100 (4x25)   |
|   |              |  |            | from 1 to 10 870-440 100 (4x25)  |
|   |              |  |            | <b>Protective warning marker,</b>  |
|   |              |  |            | with high-voltage symbol, black,<br>for 5 terminal blocks<br>yellow 280-405 100 (4x25) |
|   |              |  |            | <b>Marking strip, plain,</b>   |
|   |              |  |            | 7.5 mm wide,<br>1 m/3'3" long<br>translucent 709-196 1                                 |

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