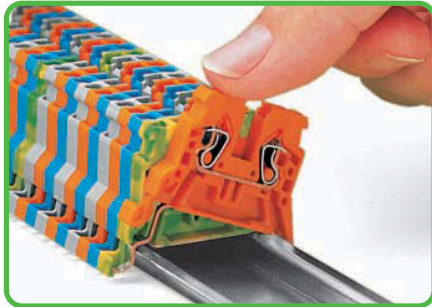


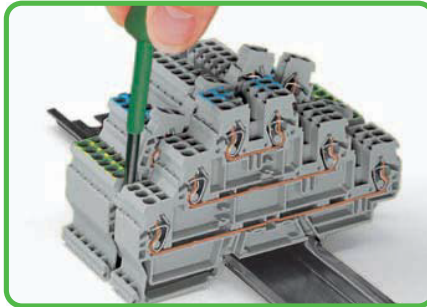
Compact Rail-Mounted Terminal Blocks for DIN 15 and DIN 35 Rails 870 Series

Assembly



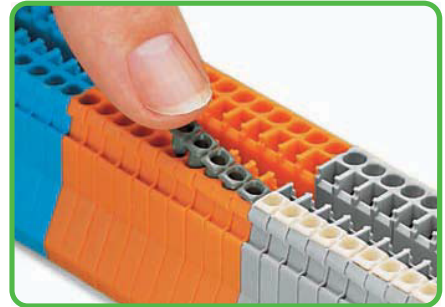
Snapping a rail-mount terminal block onto DIN 35 carrier rail.

Removal



Removing a terminal block from the assembly.

Insulation stop



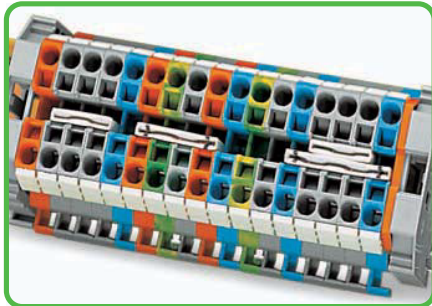
Inserting an insulation stop.

Push-in type jumper bar system

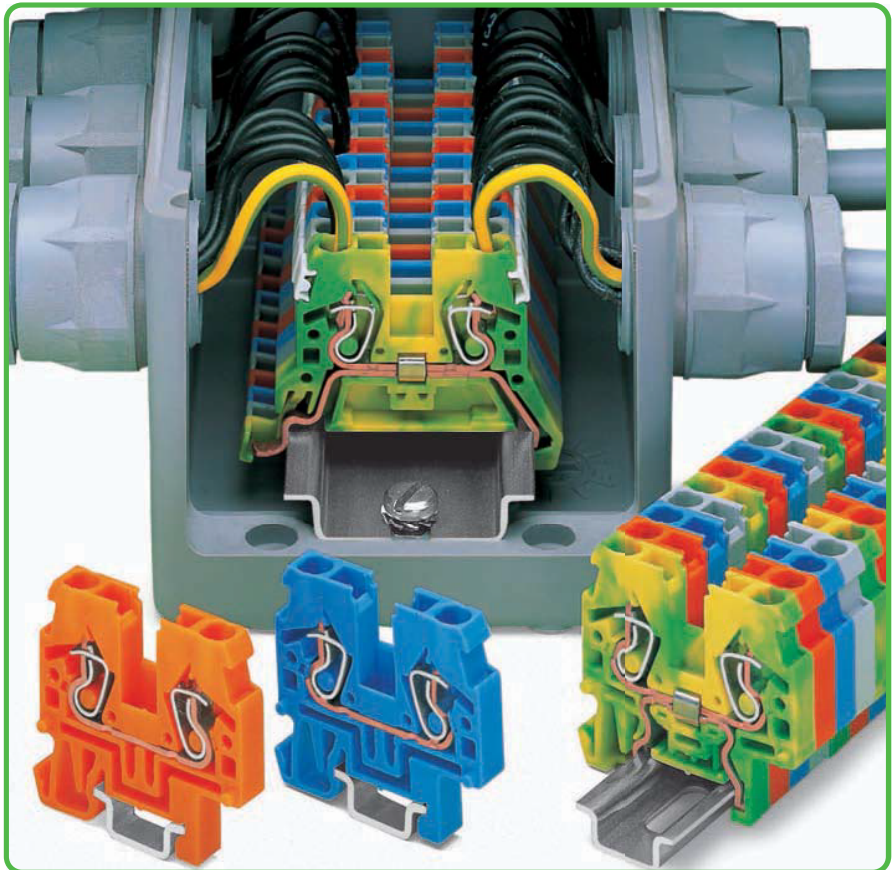


Push jumper bars down firmly until fully inserted. When using multipole bars, push alternately on right and then left side, until installed.
Push-in type jumper bars 1 - 3 - 5 - 7 or 1 - - 4 - - 7 upon request.

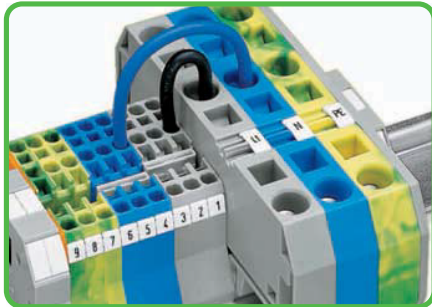
Push-in type jumper bar system



Two parallel jumper receptacles are accommodated in one terminal block.

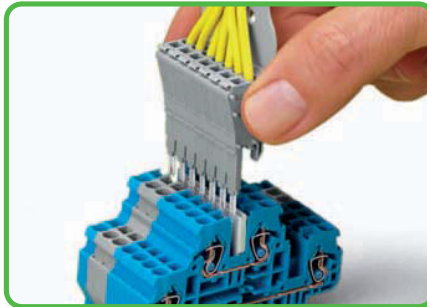


Commoning with step-down jumpers



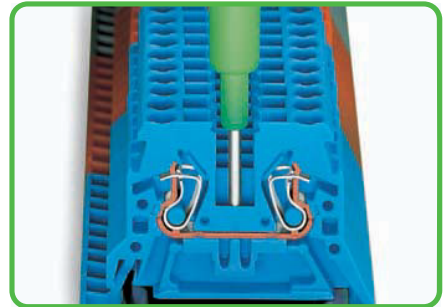
Commoning terminal blocks of different sizes - step down.

Testing

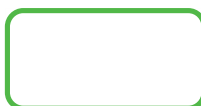


Testing is also possible using a pre-wired module assembly, similar to test plugs.

Testing

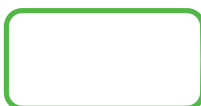


Testing with phase testing device, also possible with single-pole voltage tester.

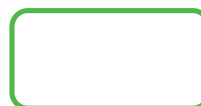


CAGE CLAMP® clamps the following copper conductors:*

solid



stranded



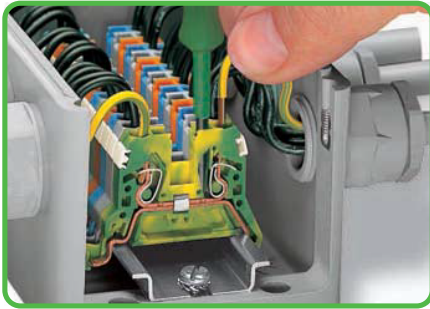
fine-stranded, also with tinned single strands

* 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.

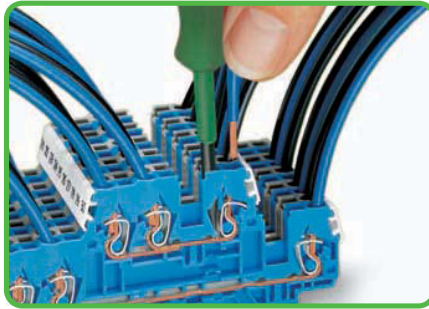
- Description and Handling -

CAGE CLAMP® connection



Terminating fine-stranded conductors ranging from 0.08 to 4 mm² (AWG 28 - 12).

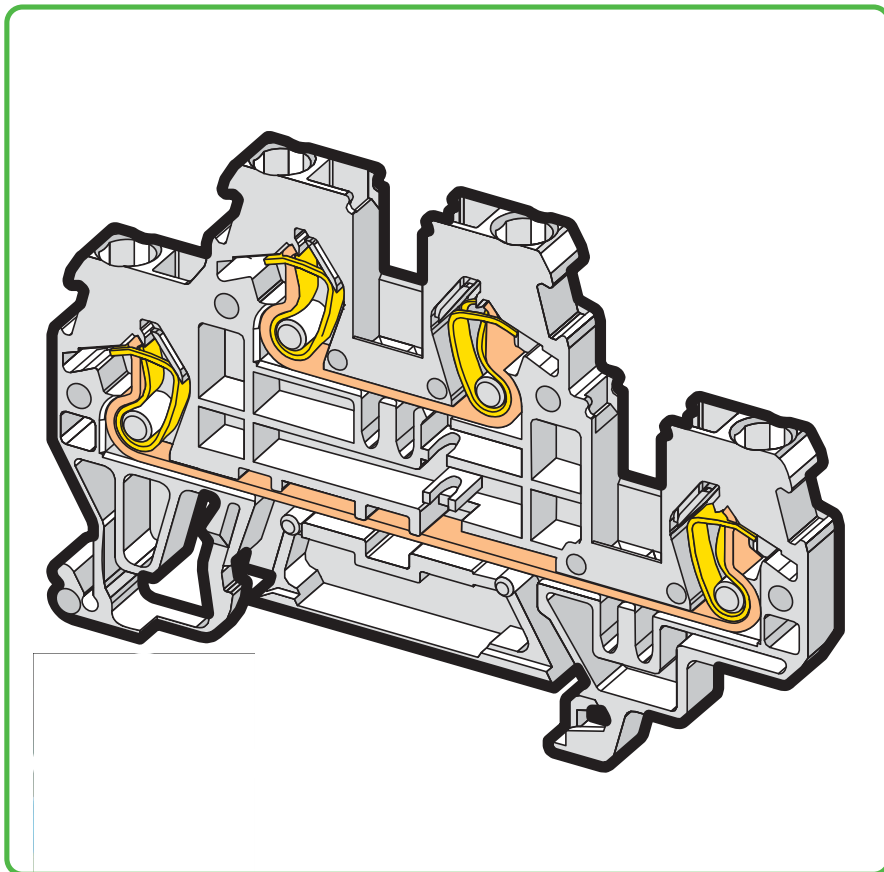
CAGE CLAMP® connection



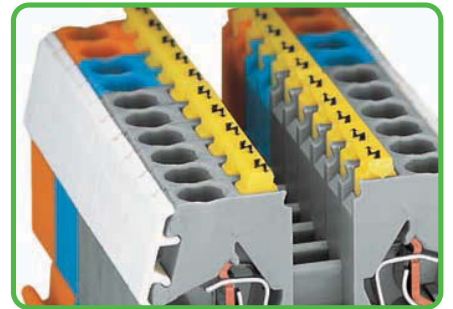
Multilevel terminal blocks



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

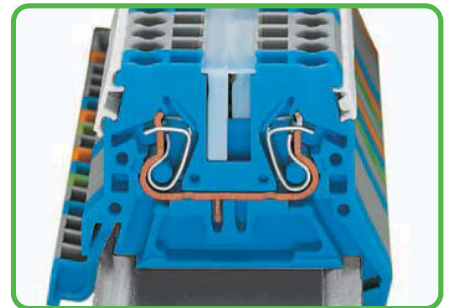


Protective warning marker



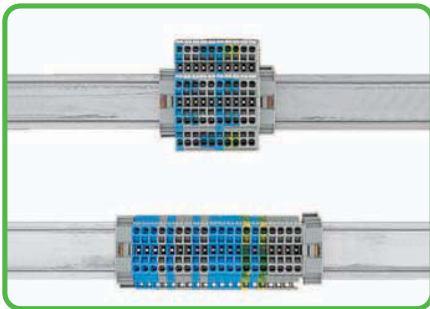
Protective warning markers (280-405), with black high-voltage symbols.

Marking



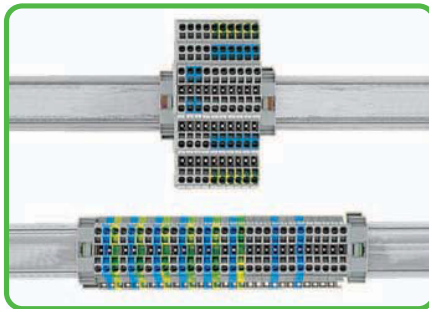
Marking the clamping unit via WMB Multi marking system or miniature WSB Quick marking system.

Space saver



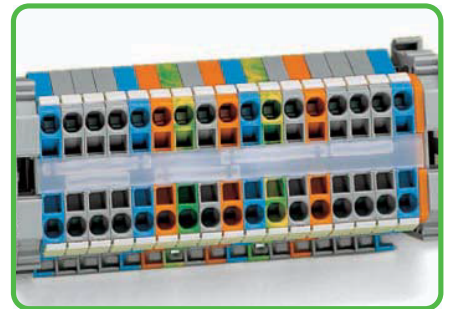
Save 50% of rail space when using double-deck terminal blocks.

Space saver

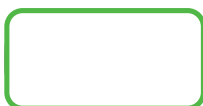


Save 67% of rail space when using triple-deck terminal blocks.

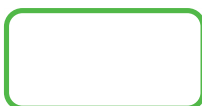
Marking Strips



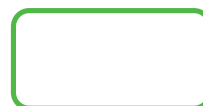
Transparent marker strips (note: Jumpers below may be visible).



fine-stranded, tip-bonded



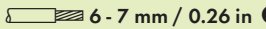

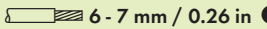
fine-stranded, with ferrule ① (gas-tight crimped)

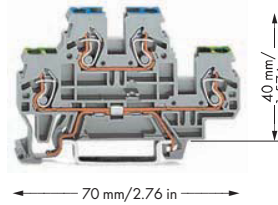
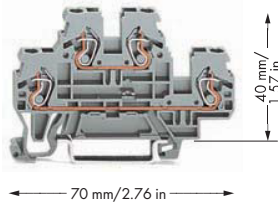


fine-stranded, with pin terminal (gas-tight crimped)

Double-Deck Terminal Blocks 2.5 mm² (4 mm² "f-st") 870 Series

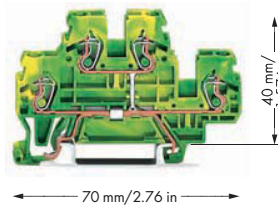
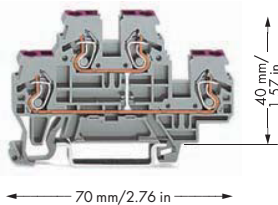


| | | | |
|--|--|--|-------------|
| 0.08 - 2.5 (4 "f-st") mm ² ① 500 V/6 kV/3 ② I _N 24 A Terminal block width 5 mm / 0.197 in  6 - 7 mm / 0.26 in ③ | AWG 28 - 12 300 V, 20 A  | 0.08 - 2.5 (4 "f-st") mm ² ① 500 V/6 kV/3 ② I _N 24 A Terminal block width 5 mm / 0.197 in  6 - 7 mm / 0.26 in ③ | AWG 28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



- 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 mm² - 2.5 (4 "f-st") mm²/AWG 24 - 12
440 V, 18 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

| Item No. | Pack. Unit | Item No. | Pack. Unit | Accessories |
|---|------------|--|------------|--|
| Through/through terminal block, gray housing | | Ground conductor/through terminal block, gray housing | | WMB/Miniature WSB (see Section 13) |
| ○ L/L 870-501 | 50 | ○ PE/N 870-517 | 50 | |
| ○ N/L 870-502 | 50 | ○ PE/L 870-527 | 50 | End and intermediate plate, 2 mm thick |
| ○ L/N 870-503 | 50 | | | orange 870-519 100 (4x25) |
| Through/through terminal block, blue housing | | | | gray 870-518 100 (4x25) |
| ● N/N 870-504 ④ | 50 | | | Ex e/Ex i separator, orange, 3 mm thick |
| Through/through terminal block, light gray housing | | Ground conductor/through terminal block, light gray housing | | 125.5 mm 209-192 50 (2x25) |
| ○ L/L ⑤ 870-961 ⑤ | 50 | ○ PE/L ⑤ 870-967/999-950 ⑤ | 50 | Insulation stop, |
| Other terminal blocks with the same profile: | | | | ⑥ 5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st") white 280-470 200 (8x25) |
| Diode 870-540/281-410 | Page 288 | | | Insulation stop, |
| LED 870-543/281-434 | Page 288 | | | ⑥ 5 pcs/strip, 0.25 - 0.5 mm ² light gray 280-471 200 (8x25) |
| | | | | Insulation stop, |
| | | | | ⑥ 5 pcs/strip, 0.75 - 1 mm ² dark gray 280-472 200 (8x25) |



| Item No. | Pack. Unit | Item No. | Pack. Unit | Accessories |
|---|------------|--|------------|--|
| 4-conductor through terminal block, internal commoning, conductor entry position colored in violet, gray housing | | 4-conductor ground terminal block, internal commoning, green-yellow housing | | Push-in type jumper bar, insulated, I _N 18 A, light gray |
| ○ L 870-508 | 50 | ● PE 870-507 | 50 | |
| 4-conductor through terminal block, internal commoning, conductor entry position colored in violet, blue housing | | | | 3-way 870-403 200 (8x25) |
| ● N 870-509 ④ | 50 | | | 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) |
| | | | | Push-in type jumper bar, insulated, I _N 18 A, 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) |
| | | | | Protective warning marker, with high-voltage symbol, black, for 5 terminal blocks |
| | | | | yellow 280-405 100 (4x25) |