CAGE CLAMP®

The universal connection for solid, stranded and fine-stranded conductors

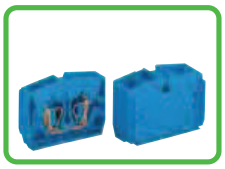
Handling:
Open clamping unit,
insert the conductor,
release clamp – done!



9



Modular Terminal Blocks and Terminal Strips
with Fixing Flanges or Snap-In Mounting Feet
Front-Entry Wiring
2.5 mm² (4 mm² "f-st") / AWG 12 — 869 Series — 431 – 433



2.5 mm² / AWG 12 — 264 Series — 436 – 439



Side-Entry Wiring
0.08 mm² to 1.5 mm² (AWG 28 - 16) /
2.5 mm²/4 mm² (AWG 14/12) — 260/261/262 Series — 442 – 455



With Push-Buttons on One or Both Sides
1.5 mm² / AWG 16 — 261 Series — 446 – 449



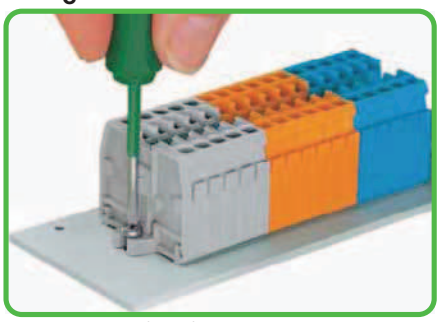
With Additional, Miniature WSB, Side Marker Slot
With Push-Buttons on One or Both Sides
1.5 mm² / AWG 16 — 261 Series — 450 – 451



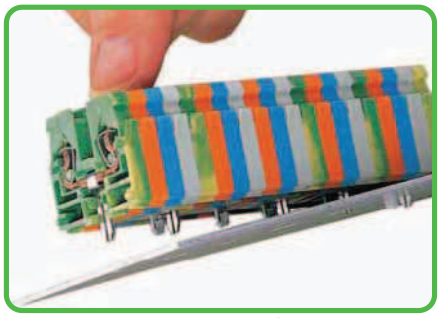
Test Plug Modules for 260/261/262 Series Terminal
Strips — 456

Compact Terminal Strips, 869 Series
– Description and Handling –

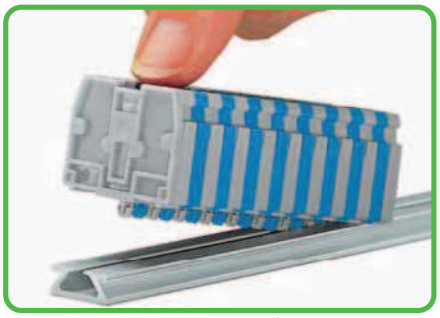
Fixing



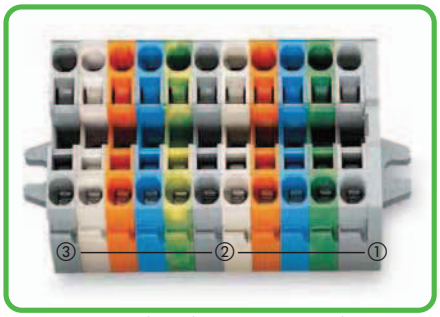
Terminal strip with fixing flanges, screw mount.



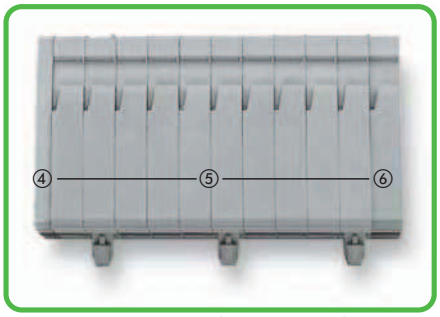
Terminal strip with snap-in mounting feet, mounting in holes.



Terminal strip with snap-in mounting feet, mounting onto special aluminum rail.



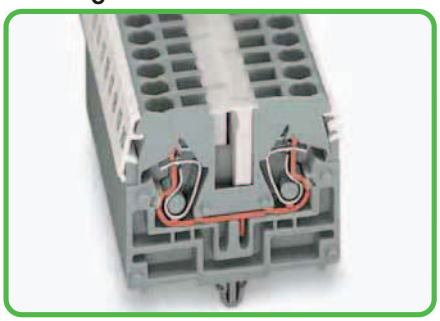
Terminal strip with fixing flanges, consisting of:
End plate with fixing flange ①
Center terminal blocks ②
End terminal block with fixing flange ③



Terminal strip with mounting feet, consisting of:
End plate ④ / Center terminal blocks with/without snap-in mounting feet ⑤ / End terminal block with/without snap-in mounting foot ⑥



Marking



WAGO WMB Multi marking system or WAGO miniature WSB Quick marking system.

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.

CAGE CLAMP® clamps the following copper conductors:*

solid	stranded	fine-stranded, also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule ❶ (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

* For aluminum conductors, see notes in Section 14.

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

Compact Terminal Strips 2.5 mm² (4 mm² "f-st") with Fixing Flanges or Snap-in Mounting Feet 869 Series

0.08 - 2.5 (4 "f-st") mm² 500 V/6 kV/3 I_N 24 A Pole width 5 mm / 0.197 in 6 - 7 mm / 0.26 in	AWG 28 - 12 300V, 20A	0.08 - 2.5 (4 "f-st") mm² 500 V/6 kV/3 I_N 24 A Pole width 5 mm / 0.197 in 6 - 7 mm / 0.26 in	AWG 28 - 12 300V, 20A	0.08 - 2.5 (4 "f-st") mm² 500 V/6 kV/3 I_N 24 A Pole width 5 mm / 0.197 in 6 - 7 mm / 0.26 in	AWG 28 - 12 300V, 20A





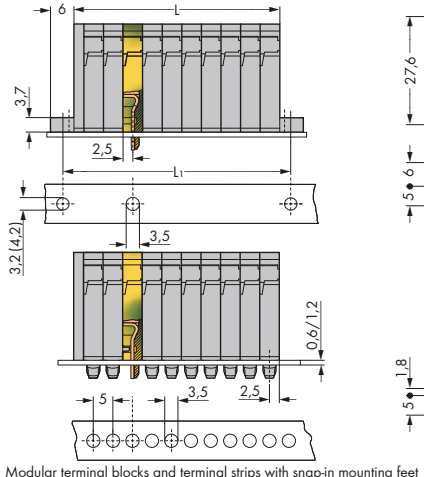


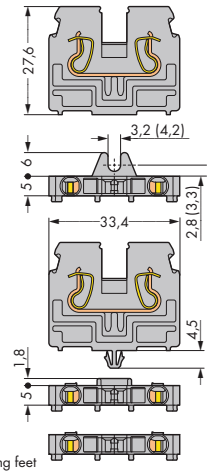
Pole No.	Item No.	Pack. Unit
Compact terminal strip with fixing flanges M 3, for screw or similar mounting types, fixing hole 3.2 mm Ø,		
gray		
2	**869-102**	100
3	**869-103**	100
4	**869-104**	100
5	**869-105**	100
6	**869-106**	50
7	**869-107**	50
8	**869-108**	50
9	**869-109**	50
10	**869-110**	50
11	**869-111**	25
12 ❶	**869-112**	25
light gray		
2	**869-132**	100
3	**869-133**	100
4	**869-134**	100
5	**869-135**	100
6	**869-136**	50
7	**869-137**	50
8	**869-138**	50
9	**869-139**	50
10	**869-140**	25
11	**869-141**	25
12 ❶	**869-142**	25

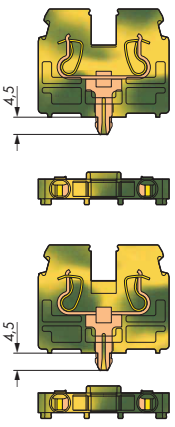
Pole No.	Item No.	Pack. Unit
Compact terminal strip with fixing flanges M 4, for screw or similar mounting types, fixing hole 4.2 mm Ø,		
gray		
2	**869-202**	100
3	**869-203**	100
4	**869-204**	100
5	**869-205**	100
6	**869-206**	50
7	**869-207**	50
8	**869-208**	50
9	**869-209**	50
10	**869-210**	25
11	**869-211**	25
12 ❶	**869-212**	25
light gray		
2	**869-232**	100
3	**869-233**	100
4	**869-234**	100
5	**869-235**	100
6	**869-236**	50
7	**869-237**	50
8	**869-238**	50
9	**869-239**	50
10	**869-240**	25
11	**869-241**	25
12 ❶	**869-242**	25

Pole No.	Item No.	Pack. Unit
Compact terminal strip with snap-in mounting feet, for plate thickness 0.6-1.2 mm, fixing hole 3.5+0.1 mm Ø,		
gray		
2	**869-152**	100
3	**869-153**	100
4	**869-154**	100
5	**869-155**	100
6	**869-156**	50
7	**869-157**	50
8	**869-158**	50
9	**869-159**	50
10	**869-160**	25
11	**869-161**	25
12 ❶	**869-162**	25
light gray		
2	**869-182**	100
3	**869-183**	100
4	**869-184**	100
5	**869-185**	100
6	**869-186**	50
7	**869-187**	50
8	**869-188**	50
9	**869-189**	50
10	**869-190**	25
11	**869-191**	25
12 ❶	**869-192**	25

Modular terminal blocks and terminal strips with fixing flanges
L = (No. of poles x pole width) + 2.5 mm L_1 = L + 5.6 mm, with flange M4 6.6 mm







Modular terminal blocks and terminal strips with snap-in mounting feet
L = (No. of poles x pole width) + 2.5 mm

Dimensions in mm

❶ For longer strips and /or assemblies of different colors, please contact factory

Item no. suffixes for terminal strips:

869-102 to 869-112
869-202 to 869-212
869-152 to 869-162

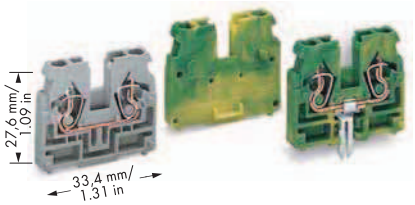
blue . . ./000-006 ❷
green-yellow . . ./000-016

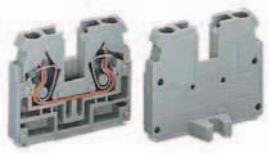
❷ Terminal blocks with blue insulation are suitable for Ex i applications

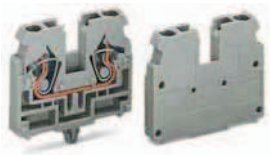
For list of approvals and user guide, see pages 634 to 637.

Modular Terminal Blocks 2.5 mm² (4 mm² "f-st") with Fixing Flanges or Snap-in Mounting Feet 869 Series

0.08 - 2.5 (4"f-st")mm² ❶ / AWG 28 - 12 500 V/6 kV/3 ❷ / 300 V, 20 A I_N 24 A Terminal block width 5 mm / 0.197 in 6 - 7 mm / 0.26 in ❸	0.08 - 2.5 (4"f-st")mm² ❶ / AWG 28 - 12 500 V/6 kV/3 ❷ / 300 V, 20 A I_N 24 A Terminal block width 5 mm / 0.197 in 6 - 7 mm / 0.26 in ❸	0.08 - 2.5 (4"f-st")mm² ❶ / AWG 28 - 12 500 V/6 kV/3 ❷ / 300 V, 20 A I_N 24 A Terminal block width 5 mm / 0.197 in 6 - 7 mm / 0.26 in ❸







Color	Item No.	Pack. Unit
Center terminal block without snap-in mounting foot, required for terminal strips with fixing flanges between end plate and end terminal block		
gray	**869-321**	100
blue	**869-324** ❹	100
orange	**869-326**	100
green-yellow	**869-327**	100
light gray	**869-329**	100
Center terminal block with direct ground contact, diameter of hole 3.5 + 0.1 mm, **Notice: Terminal block cannot be commoned.**		
green-yellow	**869-328**	100

Color	Item No.	Pack. Unit
End terminal block with fixing flange M 3, for screw or similar mounting types, fixing hole 3.2 mm Ø		
gray	**869-301**	100
blue	**869-304** ❹	100
green-yellow	**869-307**	100
light gray	**869-309**	100
End terminal block with fixing flange M 4, for screw or similar mounting types, fixing hole 4.2 mm Ø		
gray	**869-351**	100
blue	**869-354** ❹	100
green-yellow	**869-357**	100
light gray	**869-359**	100

Color	Item No.	Pack. Unit
End terminal block with snap-in mounting foot, for plate thickness 0.6 - 1.2 mm, fixing hole Ø: 3.5 + 0.1 mm		
gray	**869-331**	100
blue	**869-334** ❹	100
green-yellow	**869-337**	100
light gray	**869-339**	100
End terminal block without snap-in mounting foot, for plate thickness 0.6-1.2 mm		
gray	**869-341**	100
blue	**869-344** ❹	100
green-yellow	**869-347**	100
light gray	**869-349**	100

Item-Specific Accessories

Aluminum carrier rail,



1000 mm long, 18 mm wide, 7 mm high — **210-154** — 1

End stop, for WSB Quick markers, for 210-154 aluminum rail, 6 mm wide



209-122 — 25

869 Series Accessories

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

End plate with fixing flange M 3,



2.5 mm thick

gray	**869-385**	100 (4x25)
blue	**869-388**	100 (4x25)
green-yellow	**869-389**	100 (4x25)
light gray	**869-387**	100 (4x25)

End plate with fixing flange M 4,



2.5 mm thick

gray	**869-395**	100 (4x25)
blue	**869-398**	100 (4x25)
green-yellow	**869-399**	100 (4x25)
light gray	**869-397**	100 (4x25)

End plate, for terminal blocks with snap-in mounting foot,



2.5 mm thick

gray	**869-375**	100 (4x25)
blue	**869-378**	100 (4x25)
green-yellow	**869-379**	100 (4x25)
light gray	**869-377**	100 (4x25)

Insulation stop, ❺



5 pcs/strip, 0.08 - 0.2 mm² "s" (0.14 mm² "f-st")

white	**280-470**	200 (8x25)

Insulation stop, ❺



5 pcs/strip, 0.25 - 0.5 mm²

light gray	**280-471**	200 (8x25)

Insulation stop, ❺



5 pcs/strip, 0.75 - 1 mm²

dark gray	**280-472**	200 (8x25)

Push-in type jumper bar, insulated,



I_N 18 A, 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)

Push-in type jumper bar, insulated,



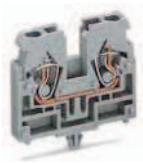
I_N 18 A, light gray

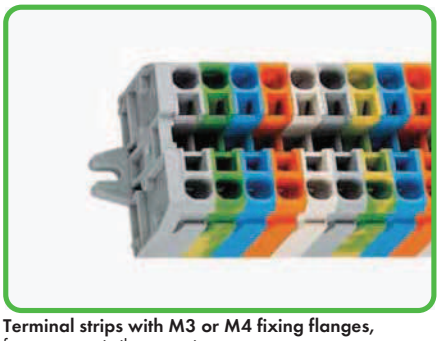
from 1 to 3	**870-433**	200 (8x25)
from 1 to 4	**870-434**	200 (8x25)
from 1 to 5	**870-435**	100 (4x25)
from 1 to 6	**870-436**	100 (4x25)
from 1 to 7	**870-437**	100 (4x25)
from 1 to 8	**870-438**	100 (4x25)
from 1 to 9	**870-439**	100 (4x25)
from 1 to 10	**870-440**	100 (4x25)

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

0.08 - 2.5 (4"f-st")mm² ❶	AWG 28 - 12
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	

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

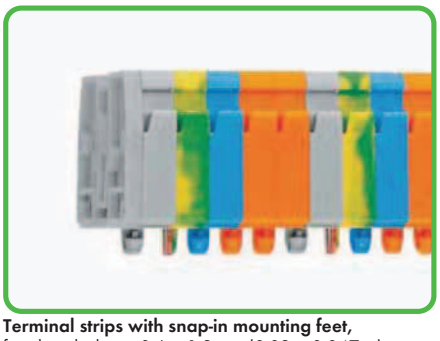




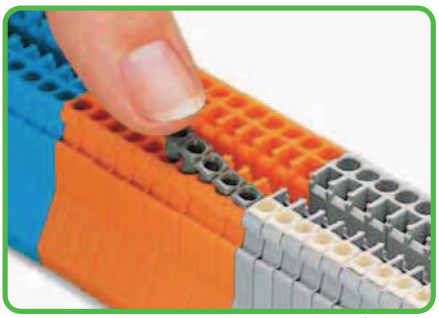
Terminal strips with M3 or M4 fixing flanges,
for screw or similar mounting types
3.2 mm Ø M3 flange
4.2 mm Ø M4 flange

❶ Max. insulation diameter: 4.4 mm
❷ 500 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)
❸ Strip length, see packaging or instructions.
❹ Suitable for Ex i applications
❺ See application notes for:
Insulation stop, page 199
Group marker carrier, page 281

Color	Item No.	Pack. Unit
Center terminal block with snap-in mounting foot,		
for plate thickness 0.6 - 1.2 mm,		
fixing hole Ø: 3.5 +0,1 mm		
gray	**869-311**	100
blue	**869-314** ❹	100
orange	**869-316**	100
green-yellow	**869-317**	100
light gray	**869-319**	100



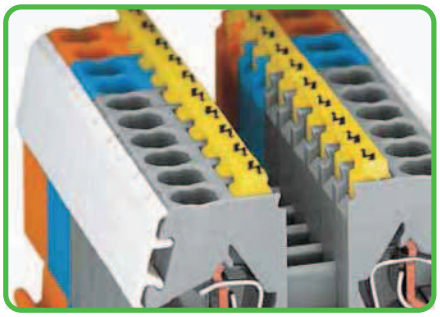
Terminal strips with snap-in mounting feet,
for plate thickness 0.6 – 1.2 mm (0.02 – 0.047 in),
fixing hole 3.5 $^{+0.1}$mm Ø



Insert insulation stop into conductor entry holes of terminal strip.

Item-Specific Accessories

Aluminum carrier rail,			
	1000 mm long, 18 mm wide, 7 mm high	**210-154**	1
End stop, for WSB Quick markers,			
	for 210-154 aluminum rail, 6 mm wide	**209-122**	25
Marking strip, plain,			
	7.5 mm wide, 1 m/3'3" long, translucent	**709-196**	1
Protective warning marker,			
	with high-voltage symbol, black, for 5 terminal blocks, yellow	**280-405**	100 (4x25)
Group marker carrier,			
❺ 	fits into terminal block jumper slots, gray	**870-184**	50 (2x25)
Test plug,			
	with 500 mm cable, 2 mm Ø, red	**210-136**	50



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

Wiring programmable logic controllers and microprocessor-operated control circuits often relies on very small cross sections of fine-stranded conductors. These small conductors are highly flexible, and they deform when pushed against the conductor stop in terminal blocks. As a result, the conductor insulation – not the copper conductor – may be clamped, causing intermittent contact or no contact at all. Common to all terminal block types currently offered, this problem creates unnecessary downtime for troubleshooting.

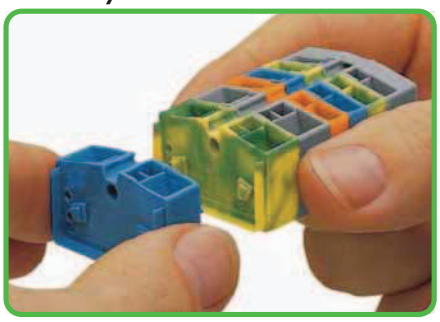
The solution: an insulation stop for compact terminal blocks. Insulation stops automatically bundle the cores of fine-stranded conductors when inserted into the clamping unit, preventing splaying. This also limits the conductor entry to a defined cross sectional area – ensuring the actual conductor, not the insulation, will enter the clamping unit.

The insulation stop is available as dividable 5-pole strip for the 869 Series terminal strips.

Insulation stop usage will not affect the conductor strip lengths for the aforementioned terminal strips.

Modular Terminal Blocks and Terminal Strips
264 Series

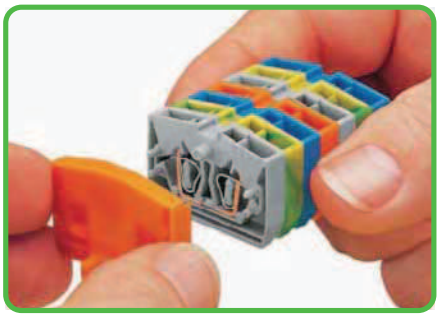
Assembly



Assembling modular terminal blocks into terminal strips.



Mounting an "end terminal block" with fixing flange.

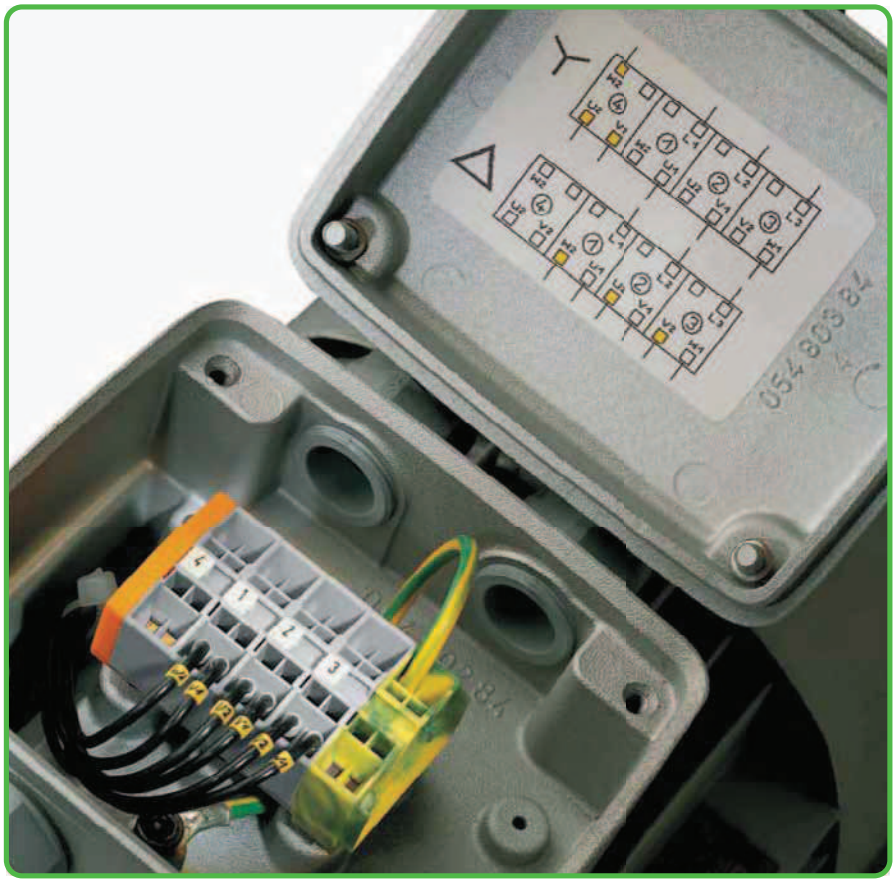


Mounting an end plate.

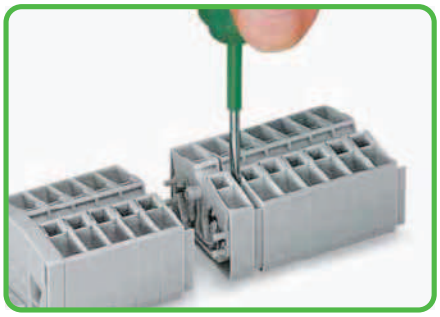
CAGE CLAMP® connection



Conductor termination



Removal



Removing a terminal block.

Commoning



Commoning with comb-style jumper bar.

Marking



T marker tag (Item No. **209-290**)



Marking with miniature WSB Quick marking system.



CAGE CLAMP® clamps the following copper conductors:*

solid



stranded

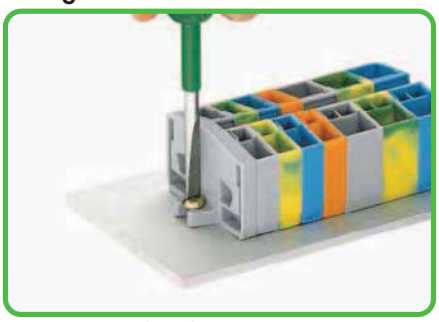


fine-stranded, also with tinned single strands

* For aluminum conductors, see notes in Section 14.

– Description and Handling –

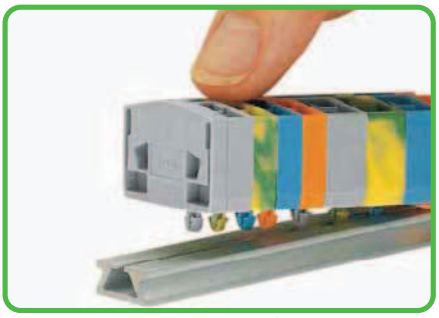
Fixing



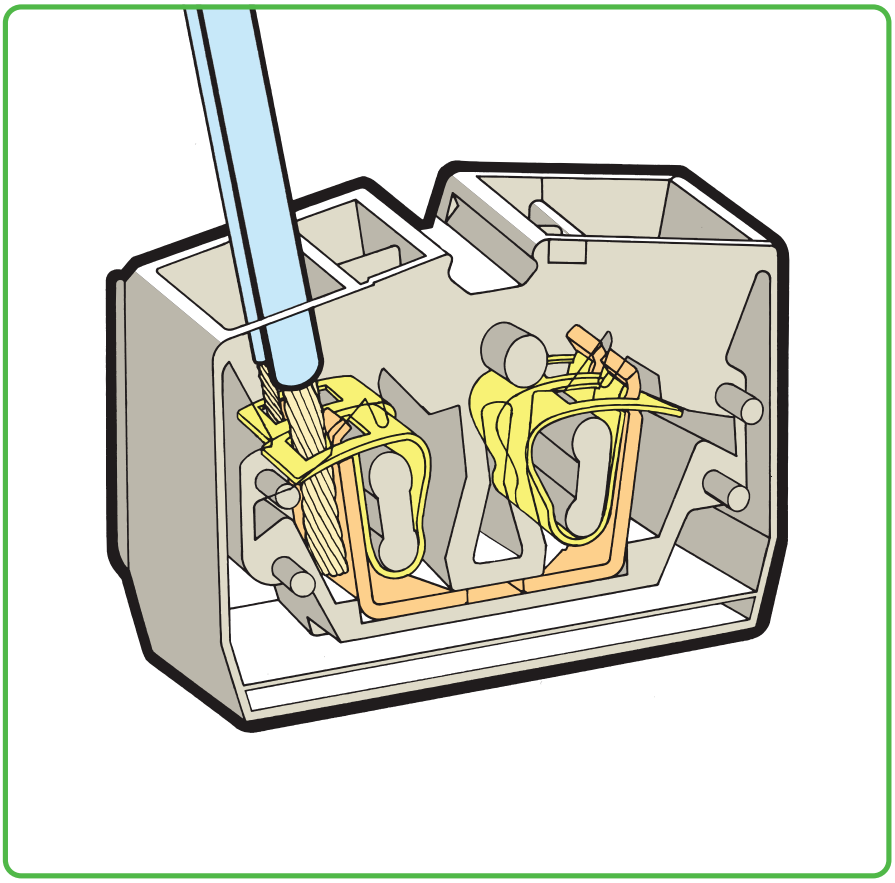
Terminal strip with fixing flanges, screw mount.



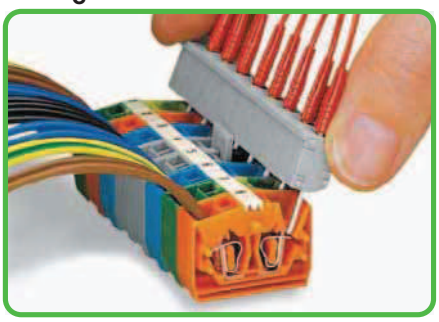
Terminal strip with snap-in mounting feet, mounting in holes.



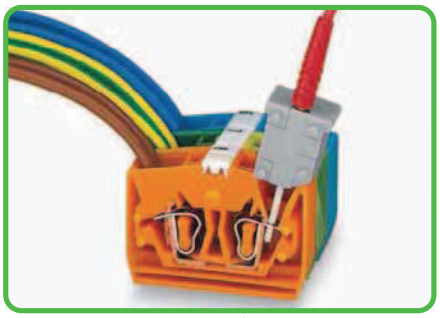
Terminal strip with snap-in mounting feet, mounting onto special aluminum rail.



Testing



Testing with test plug module assembly – touch contact.



Testing with test plug module – fully clamped by CAGE CLAMP®.



fine-stranded, tip-bonded



fine-stranded, with ferrule ❶ (gastight crimped)



fine-stranded, with pin terminal (gastight crimped)

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

Modular Terminal Blocks with Fixing Flange 2.5 mm²
264 Series

CAGE CLAMP®

0.08 - 2.5 mm²	AWG 28 - 12 *
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A

Terminal block width 6 mm / 0.236 in
8 - 9 mm / 0.33 in ❷

0.08 - 2.5 mm²	AWG 28 - 12 *
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A

Terminal block width 10 mm / 0.394 in
8 - 9 mm / 0.33 in ❷





* AWG 12: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.

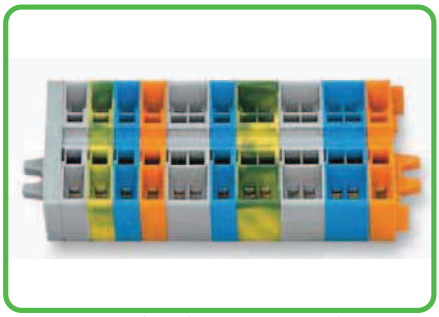
❸ Suitable for Ex i applications

❹ Suitable for Ex e II applications
0.5 mm² - 2.5 mm²/AWG 20 - 12*
690 V, 23 A
(also see Section 14)

❺ See application notes for:
Alternate comb-style jumper bar, page 200
Test plug module, page 456
Miniature WSB, page 556

Color	Item No.	Pack. Unit
2-conductor center terminal block, required between end plate and end terminal block for terminal strips with fixing flanges		
gray	**264-321**	100
blue	**264-324** ❸	100
orange	**264-326**	100
green-yellow	**264-327**	100
light gray	**264-131** ❹	100
2-conductor end terminal block with fixing flange, for screw or similar mounting types, fixing hole 3.2 mm Ø		
gray	**264-301**	100
blue	**264-304** ❸	100
orange	**264-306**	100
green-yellow	**264-307**	100
light gray	**264-130** ❹	100

Color	Item No.	Pack. Unit
4-conductor center terminal block, required for terminal strips with fixing flanges between end plate and end terminal block		
gray	**264-351**	100
blue	**264-354** ❸	100
orange	**264-356**	100
green-yellow	**264-357**	100
light gray	**264-231** ❹	100
4-conductor end terminal block with fixing flange, for screw or similar mounting types, fixing hole 3.2 mm Ø		
gray	**264-331**	100
blue	**264-334** ❸	100
orange	**264-336**	100
green-yellow	**264-337**	100
light gray	**264-230** ❹	100



Terminal strip with fixing flanges, consisting of:
- End plate with fixing flange
- Center terminal blocks
- End terminal block with fixing flange

Item-Specific Accessories

Alternate comb-style jumper bar, ❺ insulated, I_N = I_N terminal block	2-way	**281-492**	100 (4x25)
Test plug module, ❺ can be snapped together, 6 mm wide	gray	**249-136**	100 (4x25)
Miniature WSB Quick marking system, ❺ 10 strips with 10 markers per card, 5 mm wide markers	plain	**248-501**	5

Item-Specific Accessories

Alternate comb-style jumper bar, ❺ insulated, I_N = I_N terminal block	2-way	**280-492**	200 (8x25)
Test plug module, ❺ can be snapped together, 10 mm wide	gray	**249-139**	100 (4x25)
Miniature WSB Quick marking system, ❺ 10 strips with 10 markers per card, 5 mm wide markers		**264-900**	5

264 Series Accessories

Appropriate marking systems: Miniature WSB/T-marker tag (see Section 13)

End plate with fixing flange, 4 mm thick	gray	**264-361**	25
	orange	**264-364**	25
	light gray	**264-363**	25
Comb-style jumper bar, insulated, I_N 16 A, gray, reduces maximum conductor size to 1.5 mm²/AWG 16	2-way	**264-402**	200 (8x25)
Operating tool, of insulating material	2-way	**280-432**	1

Test plug, with 500 mm cable, 2 mm Ø	red	**210-136**	50
Test plug, with 500 mm cable, 2.3 mm Ø	yellow	**210-137**	50
T marker tag, 30 markers each tag, up to 6 characters per marker	plain	**209-290**	50

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