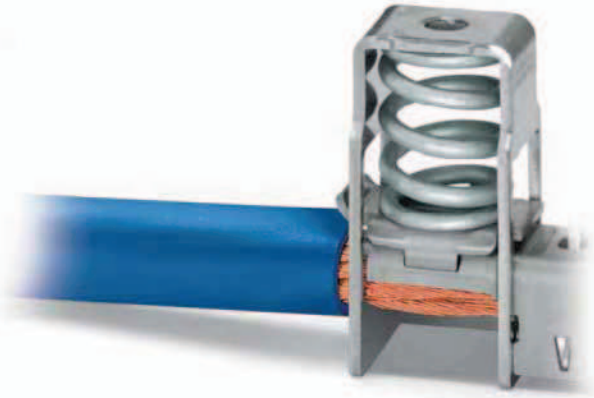
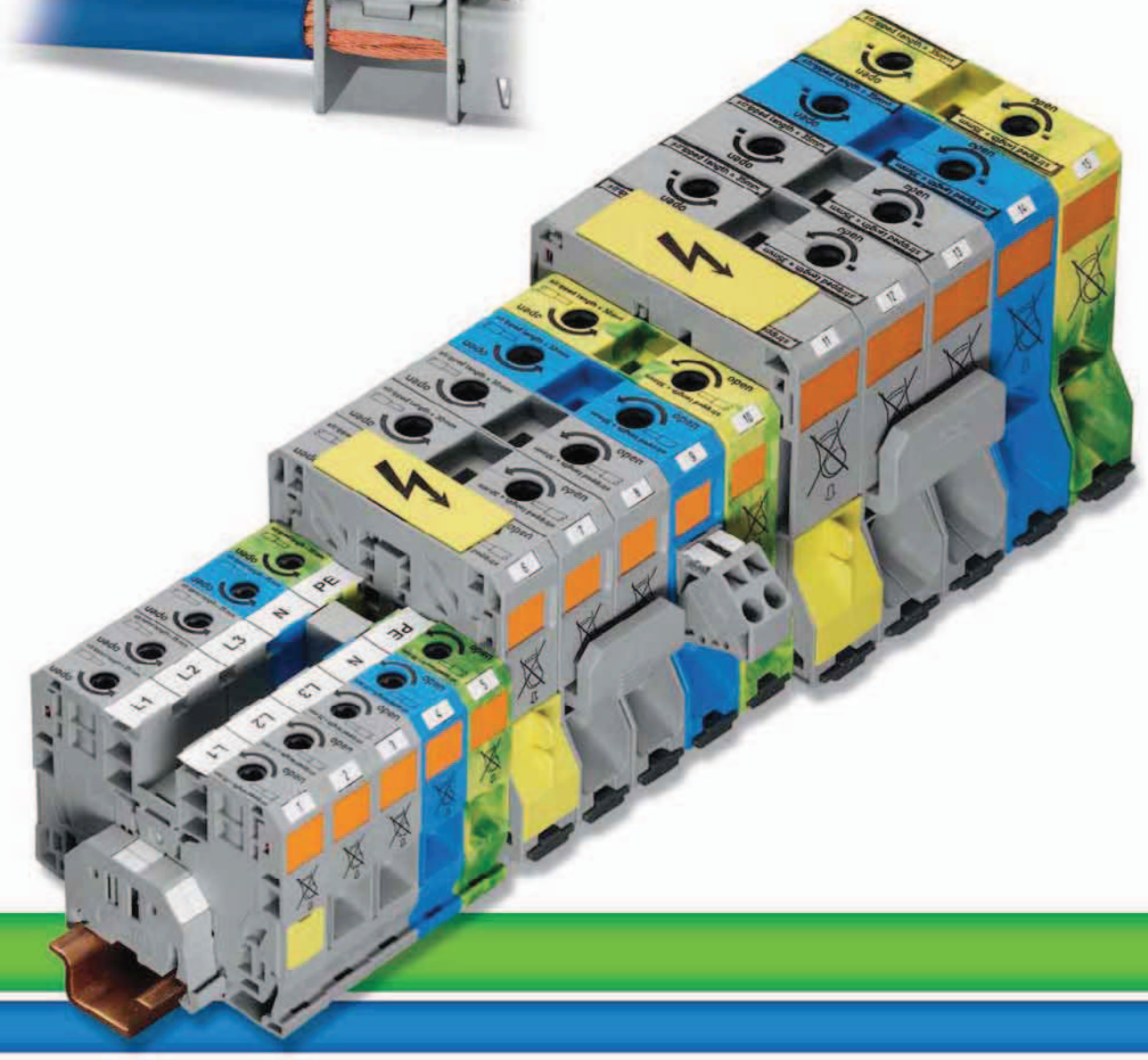
POWER CAGE CLAMP®

The universal connection for conductors larger than 6 AWG (16 mm²)

Handling:
- Open clamping unit by turning a hex wrench (approx. 5.5 mm) or appropriate screwdriver counter-clockwise.
- Press integrated latch to open clamping unit for hands-free wiring.
- Insert conductor until it hits backstop.
- A small, counter-clockwise rotation closes the clamp, securing conductor.





10



Through Terminal Blocks, Ground Conductor Terminal Blocks
6 mm² to 35 mm² (AWG 10 - 2) — 285 Series — 462



Voltage Tap for 35 mm²/AWG 2 Terminal Blocks
0.2 mm² to 6 mm² (AWG 24 - 10) — 285 Series — 462

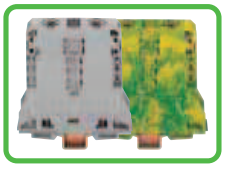
Step-down Jumper for 35 mm²/AWG 2 Terminal Blocks to TOPJOB®S Terminal Blocks (10/16 mm²/AWG 8/10) — 285 Series — 462



Through Terminal Blocks, Ground Conductor Terminal Blocks
10 mm² to 50 mm² (70 mm²) / AWG 8 - 1 — 285 Series — 463



Voltage Tap for 50 mm²/AWG 1 Terminal Blocks
0.2 mm² to 6 mm² (AWG 24 - 10) — 285 Series — 463



Through Terminal Blocks, ground conductor and Ex Terminal Blocks
25 mm² to 95 mm² (AWG 2 - 000) — 285 Series — 466



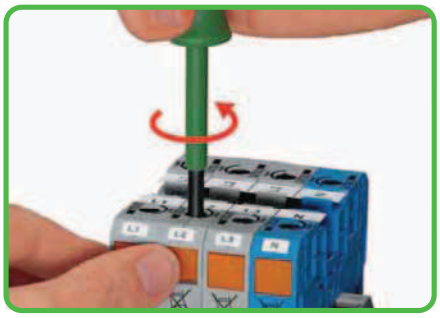
Voltage Tap for 95 mm² (AWG 4/0) Terminal Blocks
0.2 mm² to 10 mm² (AWG 24 - 8) — 285 Series — 466



Male and Female Connectors
6 mm² to 35 mm² (AWG 8 - 2) — 834 Series — 469

High-Current, Rail-Mounted Terminal Blocks 35 mm²
285 Series

Conductor termination



Insert operating tool and turn counterclockwise. Then push in orange locking tab for handsfree wiring.

Commoning



Commoning adjacent terminal blocks using centrally positioned adjacent jumpers.

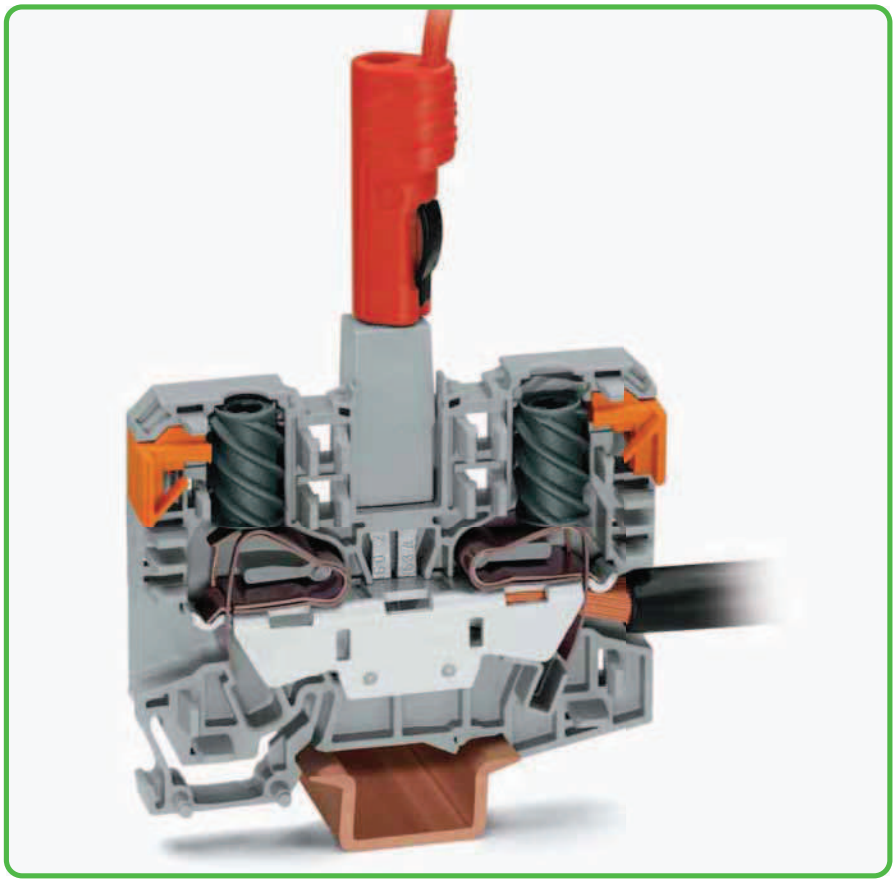


Slide the marking strip laterally to remove the jumper.

Conductor termination



Insert stripped conductor into the clamping unit until it hits backstop; hold conductor in position.



Conductor termination



Unlock the locking tab with a short conterclockwise turn of the operating tool ①, when unlocked allow operating tool to rotate clockwise ② to securely terminate the conductor.



Side-entry wiring means that even larger conductors, which offer limited flexibility, can be easily connected.



POWER CAGE CLAMP clamps the following copper conductors:* solid



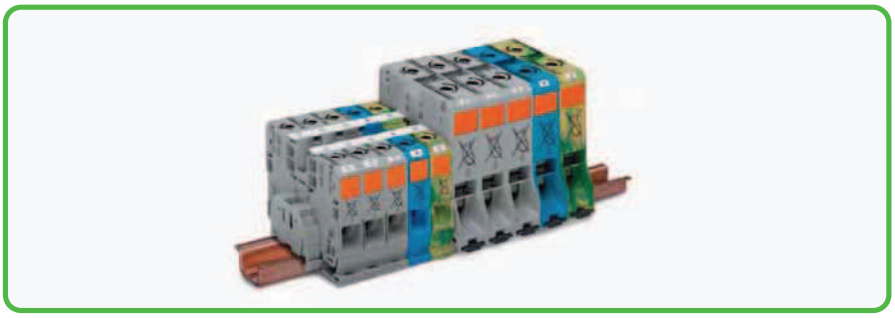
stranded



fine-stranded, also with tinned single strands

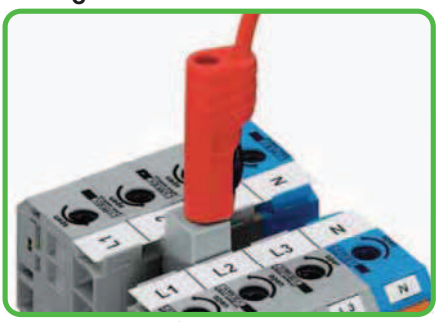
* For aluminum conductors, see notes in Section 14.

– Description and Handling –

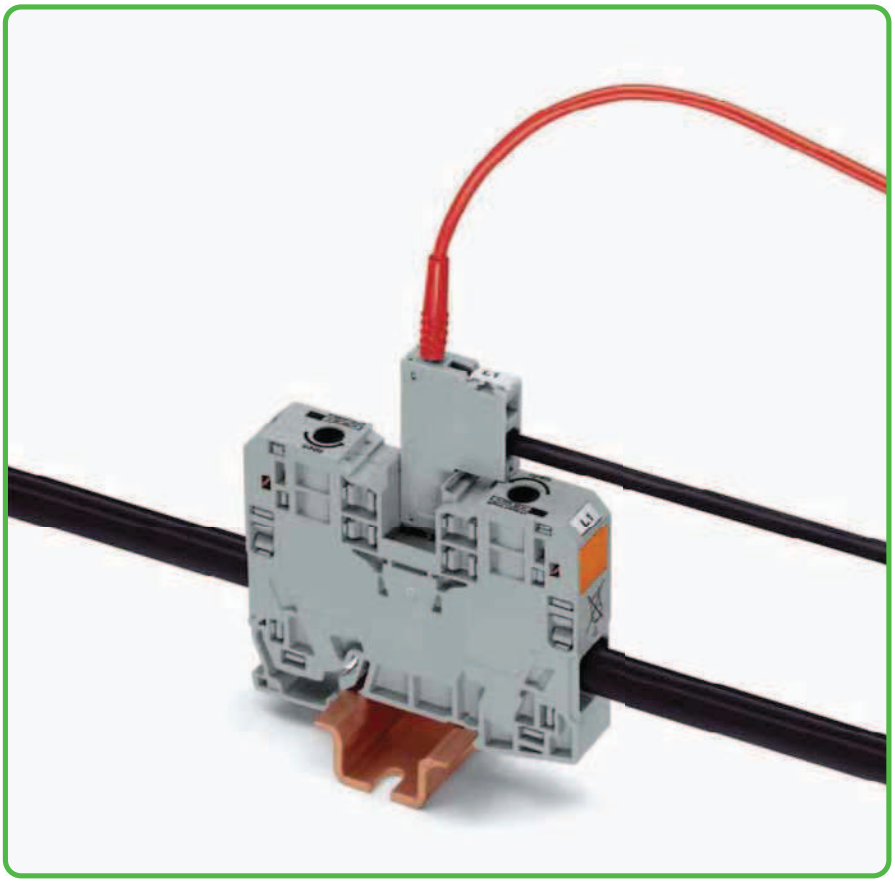


Rail-mounted, high-current terminal blocks 35 mm²/AWG 2 and 50 mm²/AWG 1

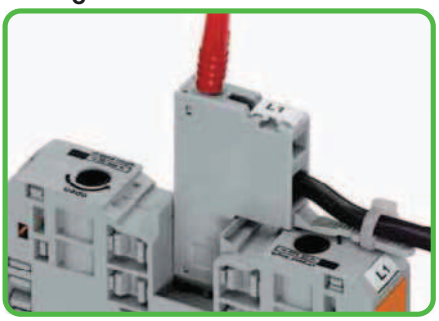
Testing



Testing with touch-proof test sockets 4 mm Ø.
(not offered by WAGO – e.g., mfd by Multi-Contact Deutschland GmbH)



Testing



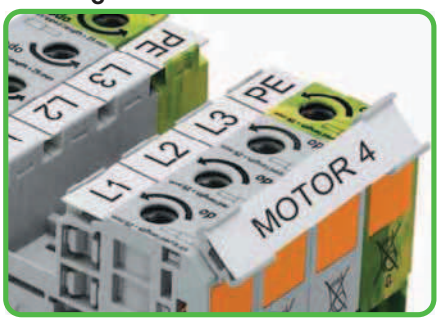
The voltage tap is inserted into the jumper contact slot. It can be fitted with a strain relief plate and provides a testing option for test plug 2 mm Ø.

Marking



In addition to the WMB marking system, custom marking strips can also be used.

Marking



Adapter for marking strips or 2 x WMB

Commoning with step-down jumpers



Commoning from 35 mm²/AWG 2
POWER CAGE CLAMP terminal blocks
to 10/16 mm² (AWG 8/10) TOPJOB® terminal blocks



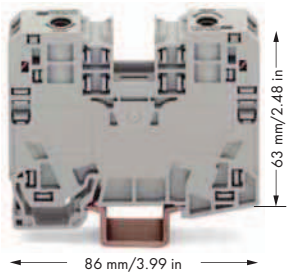
fine-stranded,
with ferrule
(gastight crimped)

High-Current, Through and Ground Conductor Terminal Blocks 35 mm²
285 Series

POWER CAGE CLAMP®

6 - 35 mm²	**AWG 10 - 2**
1000 V/8 kV/3 ❶	**600 V, 115 A**
I_N 125 A	**600 V, 115 A**
Terminal block width 16 mm / 0.63 in	
25 mm / 0.98 in ❸	

0.2 - 6 mm²	**AWG 24 - 10**
800 V/8 kV/3 ❷	**600 V, 30 A**
I_N 32 A	**600 V, 32 A**
module width 8 mm / 0.315 in	
12 - 13 mm / 0.49 in ❸	





❶ 1000 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

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

❸ Strip length, see packaging or instructions.

	Item No.	Pack. Unit
2-conductor through terminal block, to be used exclusively on DIN 35 x 15 rail		
gray	**285-135**	15
blue	**285-134**	15
2-conductor ground terminal block, to be used exclusively on DIN 35 x 15 rail; 2.3 mm thick		
green-yellow	**285-137**	15

	Item No.	Pack. Unit
Voltage tap, for 35 mm² high-current terminal blocks		
gray	**285-427**	5

Item-Specific Accessories

Adjacent jumper, insulated,

I_N 85 A
gray **285-435** 50 (2x25)

Step-down jumper, insulated,

I_N 90 A
gray **285-430** 50 (2x25)

Protective warning marker,

with high-voltage symbol, black
yellow **285-420** 100 (4x25)

Finger guard,

touchproof cover protects unused conductor entries
yellow **285-421** 100 (4x25)

Test plug adapter, 11.6 mm wide,

for 1.5 - 16 mm² terminal blocks, for test plug 4 mm Ø
gray **283-404** 25

Operating tool with partially insulated shaft,

type 3, (5.5 x 0.8) mm blade
210-721 1

Three-phase set,

with 35mm² high-current terminal blocks
285-139 1

Marking strip, plain,

11 mm wide,
50 m roll
white **2009-110** 1

Marker carrier, for POWER CAGE CLAMP 35/50/95 mm²,

5 mm wide
gray **285-442** 25

Copper carrier rail, acc. to EN 60715,

35 x 15 mm, 2.3 mm,
2 m/6'6" long
unslotted **210-198** 10

Item-Specific Accessories

Strain relief plate, gray

1-pole **769-410** 100 (4x25)

Test plug,

with 500 mm cable,
2 mm Ø
red **210-136** 50

WMB Multi marking system,

10 strips with 10 markers per card,
for terminal widths 5 - 17.5 mm
plain **793-501** 5

WMB Multi marking system,

10 strips with 10 markers per card,
stretchable 5 - 5.2 mm
plain **793-5501** 5



Commoning from 35 mm²/AWG 2 POWER CAGE CLAMP terminal blocks to 10/16 mm² (AWG 8/10) TOPJOB® terminal blocks

Step-down jumpers may common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point.

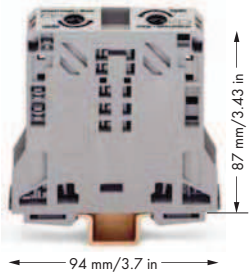
Step-down jumpers are simply pushed down for full insertion, in the same way as all other push-in jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Further terminal blocks of the smaller cross section may be commoned using standard push-in type jumper bars.

In this case, pay attention that:
The total current flowing does not exceed the rating of the step-down jumper.

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

High-Current, Through and Ground Conductor Terminal Blocks 50 (70 “f-st”) mm²
285 Series

10 - 50 (70 "f-st") mm²	**AWG 8 - 1**	**0.2 - 6 mm²**	**AWG 24 - 10**
1000 V/8 kV/3 ❶	**600 V, 150 A**	**1000 V/8 kV/3** ❶	**600 V, 30 A**
I_N 150 A	**600 V, 150 A**	**I_N 41 A**	**600 V, 41 A**
Terminal block width 20 mm / 0.787 in		**module width 16 mm / 0.63 in**	
30 mm / 1.18 in ❷		**12 - 13 mm / 0.49 in** ❷	





❶ 1000 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.

❸ Jumper can only be removed or inserted when the clamp is in closed position.

	Item No.	Pack. Unit
2-conductor through terminal block, to be used exclusively on DIN 35 x 15 rail		
gray	**285-150**	5
blue	**285-154**	5
2-conductor ground terminal block, to be used exclusively on DIN 35 x 15 rail; 2.3 mm thick, copper		
green-yellow	**285-157**	5

	Item No.	Pack. Unit
Voltage tap, for 50 mm² high-current terminal blocks		
gray	**285-447**	5

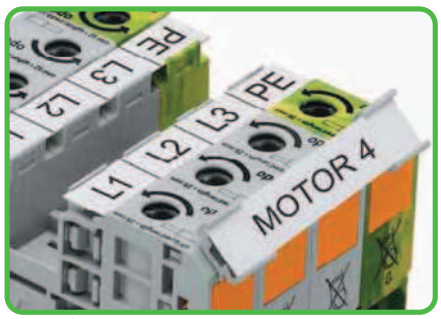
Item-Specific Accessories

Adjacent jumper, insulated, ❸		I_N 150 A for 1 jumper, I_N 130 A for 2 - 4 jumpers	
		gray	**285-450** 100 (4x25)
Protective warning marker,		with high-voltage symbol, black	
		yellow	**285-440** 50 (2x25)
Finger guard,		touchproof cover protects unused conductor entries and jumper slots	
		yellow	**285-441** 100 (4x25)
Allen wrench with partially insulated shaft			**285-172** 1
Three-phase set,		with 50 mm² high-current terminal blocks	
			285-159 1
WMB Multi marking system,		10 strips with 10 markers per card, for terminal widths 5 - 17.5 mm	
		plain	**793-501** 5
WMB Multi marking system,		10 strips with 10 markers per card, stretchable 5 - 5.2 mm	
		plain	**793-5501** 5
Marking strip, plain,		11 mm wide, 50 m roll	
		white	**2009-110** 1
Marker carrier, for POWER CAGE CLAMP 35/50/95 mm²,		5 mm wide	
		gray	**285-442** 25
Copper carrier rail, acc. to EN 60715,		35 x 15 mm, 2.3 mm, 2 m/6’6” long	
		unslotted	**210-198** 10

Item-Specific Accessories

Protective warning marker,		with high-voltage symbol, black, for 5 terminal blocks	
		yellow	**284-415** 50 (2x25)
WMB Multi marking system,		10 strips with 10 markers per card, for terminal widths 5 - 17.5 mm	
		plain	**793-501** 5
WMB Multi marking system,		10 strips with 10 markers per card, stretchable 5 - 5.2 mm	
		plain	**793-5501** 5

Description and handling see pages 464 and 465



Adapter for marking strips or 2 x WMB

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