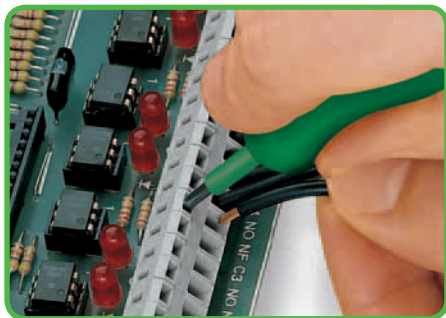
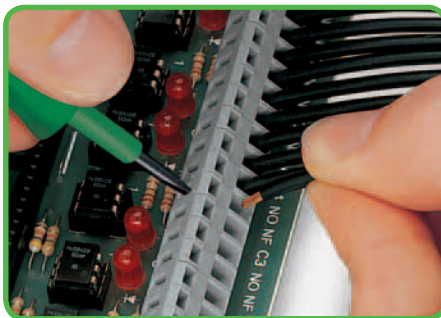


# Description and Handling

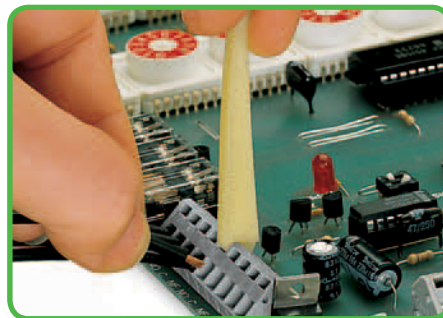
## 233, 236, 736, 737, 738, 739, 740 and 745 Series



Inserting conductor via 3.5 mm screwdriver.  
Screwdriver actuation parallel to conductor entry.

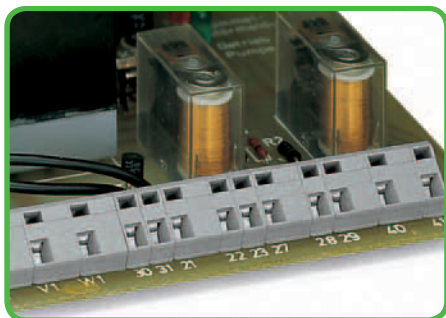


Inserting conductor via 3.5 mm screwdriver.  
Screwdriver actuation perpendicular to conductor entry.



Inserting conductor via operating tool.

### Pin spacing combination



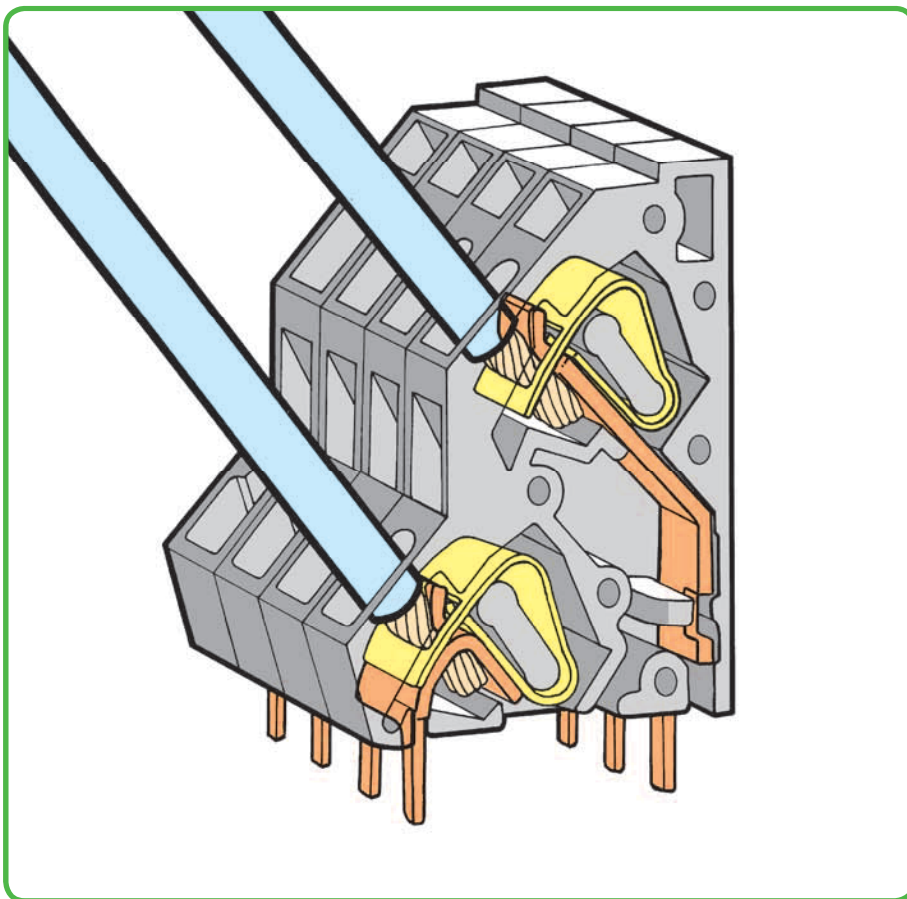
Combining terminal blocks with different pin spacing.

### Space-efficient configuration

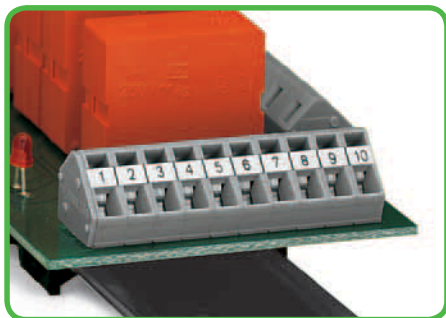


Terminal strips placed behind each other save space – staggering them by half the pin spacing simplifies subsequent wiring of the first row.

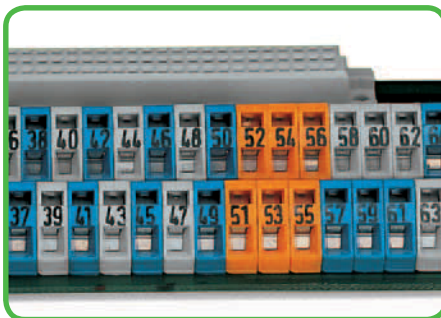
### 736 Series



### Marking

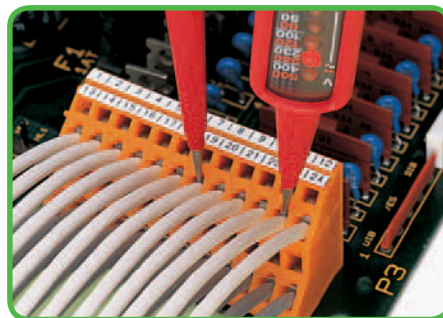


Marking via self-adhesive strips ...



... or factory direct printing.

### Testing



Testing via contact area above the conductors.

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

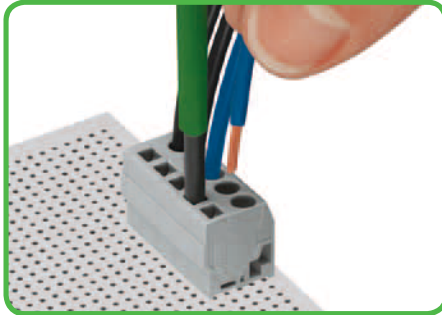
 stranded

 fine-stranded, also with tinned single strands

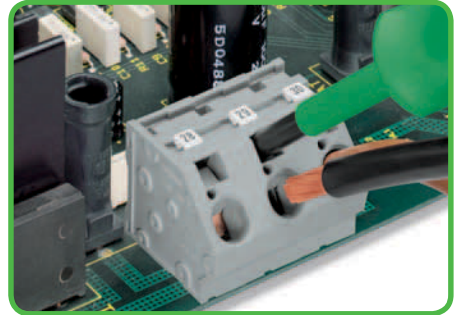
\* For aluminum conductors, see notes in Section 11.



Inserting conductor perpendicular to screwdriver actuation - 740 Series.

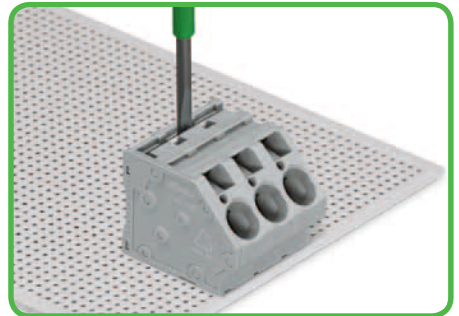
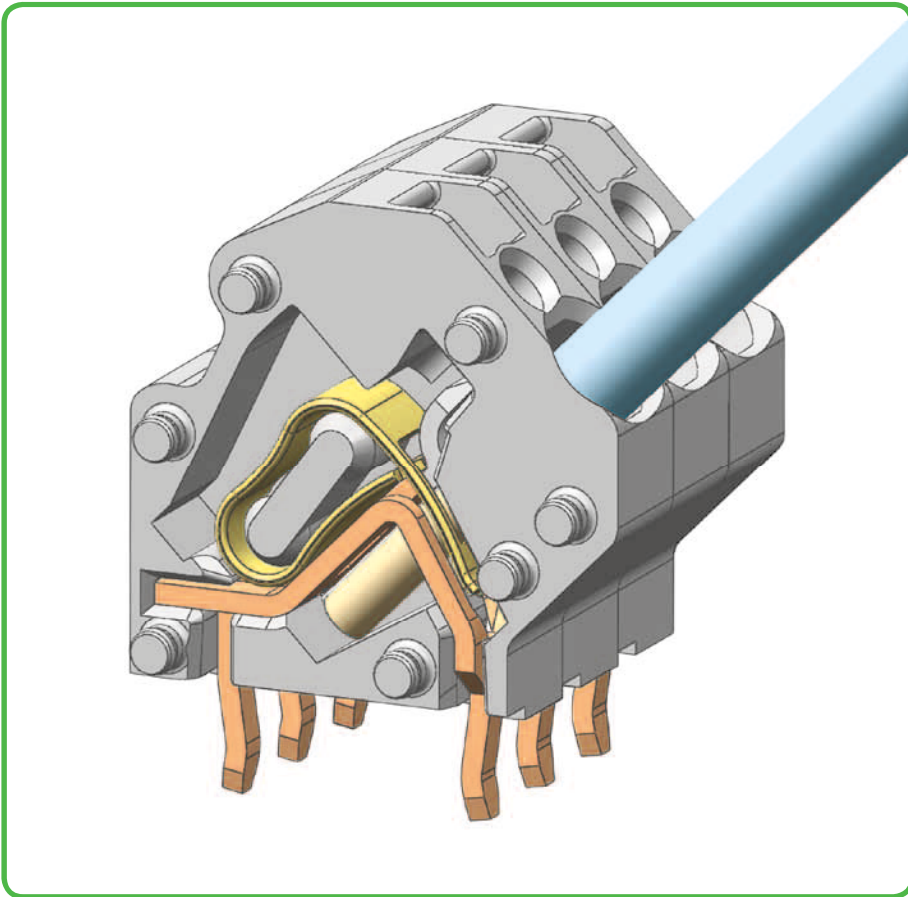


Inserting conductor parallel to screwdriver actuation - 739 Series.

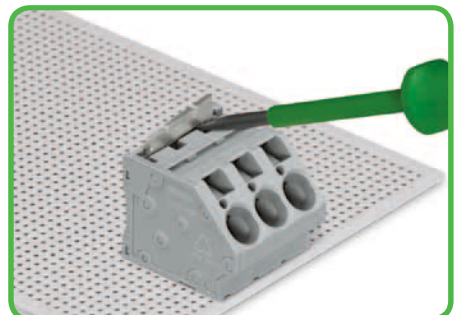


Inserting/removing conductor via 5.5 mm screwdriver - 745 Series, 16 mm².

745 Series

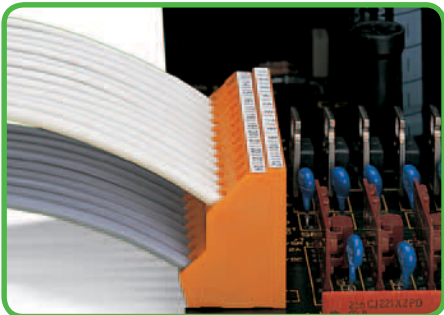


To insert comb-style jumper bar, push it down using a screwdriver until it hits the backstop - 745 Series.



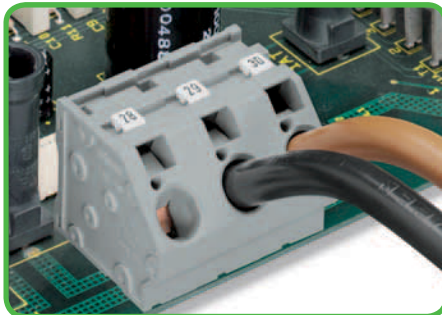
To remove comb-style jumper bar, lift it up using a screwdriver - 745 Series.

Space requirement



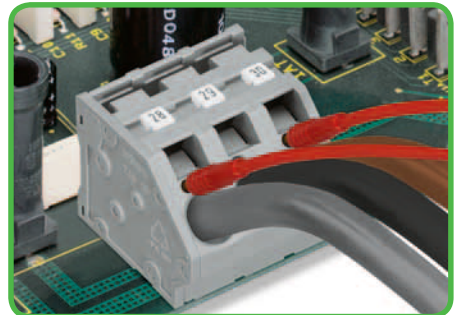
Low space requirements due to high-density design - double-deck terminal strip - 736 Series.

Marking



Marking with miniature WSB and WMB markers or factory direct printing - 745 Series.

Testing



Testing with test plug - 745 Series.



fine-stranded, tip-bonded

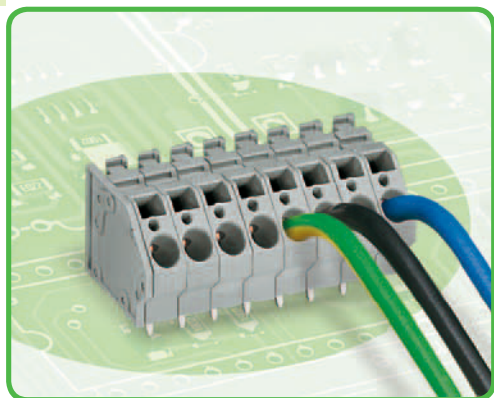


fine-stranded with crimped ferrules (gas-tight)



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

# PCB Terminal Strips with Jumper Slots 6 mm<sup>2</sup> Pin Spacing 7.5 mm, 10 mm 745 Series



- Terminal strips with screwdriver-actuated CAGE CLAMP®
- versions with Ex e (increased safety) approval
- Comb-style jumper bars for looping through and distributing potentials
- Custom color combinations
- double solder pins for high mechanical stability
- Integrated test ports
- Marker slot for miniature WSB and WMB markers

### Technical data:

Pin Spacing	7.5 mm 0.295 in			10 mm 0.394 in		
Rating per	IEC/EN 60664-1			IEC/EN 60664-1		
Overtoltage category	III	III	II	III	III	II
Pollution degree	3	2	2	3	2	2
Rated voltage*	500 V	630 V	1000 V	630 V	1000 V	1000 V
Rated surge voltage	6 kV	6 kV	6 kV	8 kV	8 kV	8 kV
Nominal current	41 A	41 A	41 A	41 A	41 A	41 A
Approvals per	UL/CSA			UL/CSA		
Use group UL1059	B	C	D	B	C	D
Rated voltage	300 V	150 V	300 V	300 V	150 V	300 V
Nominal current UL	30 A	30 A	10 A	30 A	30 A	10 A
Nominal current CSA	30 A	30 A	10 A	30 A	30 A	10 A

### Conductor and solder pin data:

Connection technology	CAGE CLAMP®
Conductor size: solid	0.2 - 6 mm <sup>2</sup>
Conductor size: fine-stranded	0.2 - 6 mm <sup>2</sup>
Conductor size: fine-stranded	0.25 - 4 mm <sup>2</sup> (with insulated ferrule)
Conductor size: fine-stranded	0.25 - 4 mm <sup>2</sup> (with uninsulated ferrule)
AWG	24 - 10
Strip length	11 - 12 mm / 0.43 - 0.47 in
Conductor entry angle	45° to PCB
Solder pin: length/width	4.5 mm / 1 x 1.4 mm
Solder pin: drilled hole diameter	1.8 <sup>+0.1</sup> mm

### Material data:

Material group	I
Insulating material	Nylon 6.6 (PA 6.6)
Flammability rating per UL 94	V0
Lower/Upper temperature limit	-60°C / +105°C
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>cu</sub> )
Contact plating	tin-plated

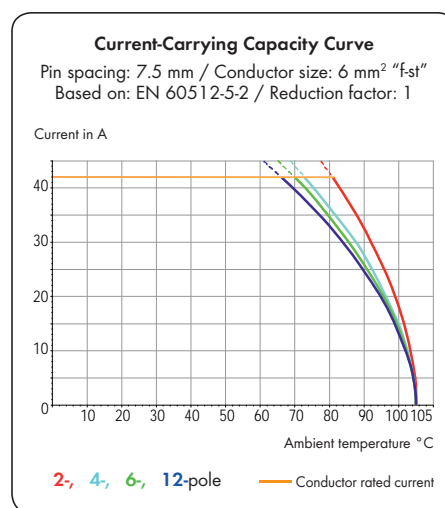
### Technical data for Ex e II () versions:

Pin Spacing	7.5 mm 0.295 in	10 mm 0.394 in
Rating per	ATEX: PTB 06 ATEX 1014 U IECEx: IECEx PTB 06.0039 U	
Rated voltage	275 V	440 V
Nominal current without jumpers	37 A	37 A
Nominal current with jumpers	31 A	31 A

\* Using adjacent jumpers, the rated voltage is reduced to 400 V with pin spacing of 7.5 mm in Category III/3.

### Note on UL approval for 600 V:

The conductor entry is for field and factory wiring and meets spacing requirements for 600 V UL (Use Group: C). The solder pins are for factory wiring only. The suitability and spacing shall be evaluated in the end-use equipment, based on relevant end-product standard.

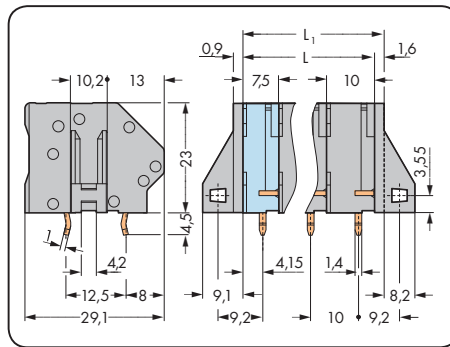
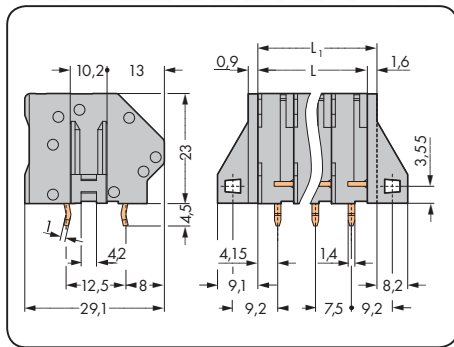
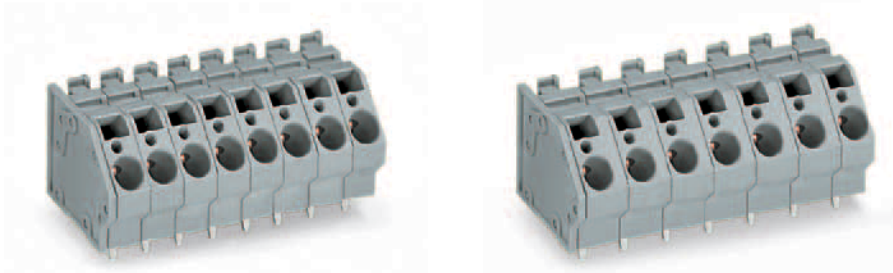


### 745 Series accessories:

### Page:

Marking accessories	540 - 543
Operating tools	526 - 528
Comb-style jumper bars	197
Test plugs	538

Pin spacing 7.5 mm / 0.295 in		Pin spacing 10 mm / 0.394 in	
0.2 – 6 mm <sup>2</sup>	AWG 24 – 10	0.2 – 6 mm <sup>2</sup>	AWG 24 – 10
630 V/6 kV/2 41 A	300 V/10 A	1000 V/8 kV/2 41 A	300 V/10 A



L = (pole no. - 1) x pin spacing + 7.5 mm  
 L<sub>1</sub> = L + 1.6 mm Δ without fixing flanges

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Terminal strip with jumper slot, 2 solder pins/pole, gray			Terminal strip with jumper slot, 2 solder pins/pole, gray		
2	745-302	128	2	745-352	104
3	745-303	88	3	745-353	72
4	745-304	64	4	745-354	48
5	745-305	48	5	745-355	40
6	745-306	40	6	745-356	32
7	745-307	40	7	745-357	24
8	745-308	32	8	745-358	24
9	745-309	24	9	745-359	24
10	745-310	24	10	745-360	16
12	745-312	16	12	745-362	16

Item no. suffix for terminal strips with fixing flanges: ...-.../005-000

Item no. suffixes for Ex e II and Ex i applications:

○ Ex e II	...-.../000-009/999-950	<b>Ordering examples:</b>
● Ex i	...-.../000-006	Terminal strip without fixing flanges, 10 mm pin spacing, 8-pole, Ex e II: <b>745-358/000-009/999-950</b>
		Terminal strip with fixing flanges, 10 mm pin spacing, 8-pole, Ex e II: <b>745-358/005-009/999-950</b>

Item no. suffixes for colored terminal strips: (Production and prices depend on quantity required)

● black	...-.../000-004	<b>Ordering examples:</b>
● blue	...-.../000-006	Terminal strip without fixing flanges, 10 mm pin spacing, 8-pole, light gray: <b>745-308/000-009 (...-.../000-... without fixing flanges)</b>
○ light gray	...-.../000-009	
● green-yellow	...-.../000-016	
● light green	...-.../000-017	with fixing flanges, 10 mm pin spacing, 8-pole, light gray: <b>745-308/005-009 (...-.../005-... with fixing flanges)</b>
● green	...-.../000-023	