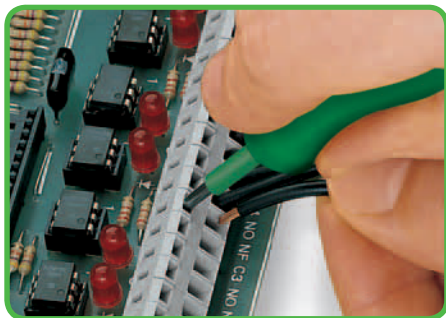
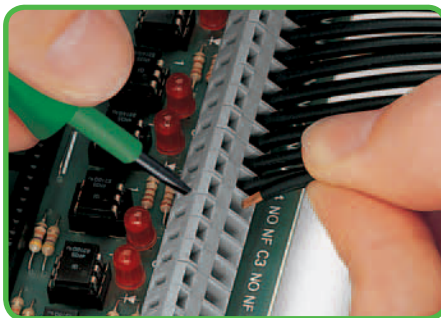


Description and Handling

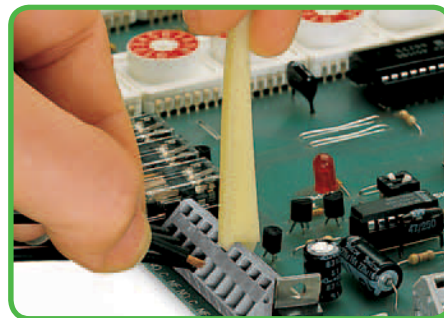
233, 236, 736, 737, 738, 739, 740 and 745 Series



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

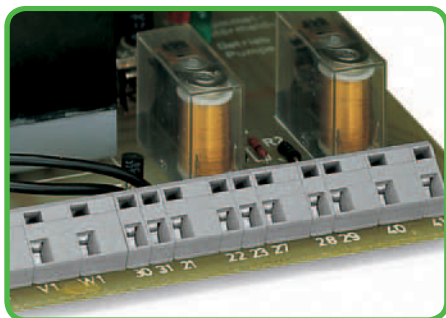


Inserting conductor via 3.5 mm screwdriver.
Screwdriver actuation perpendicular to conductor entry.



Inserting conductor via operating tool.

Pin spacing combination



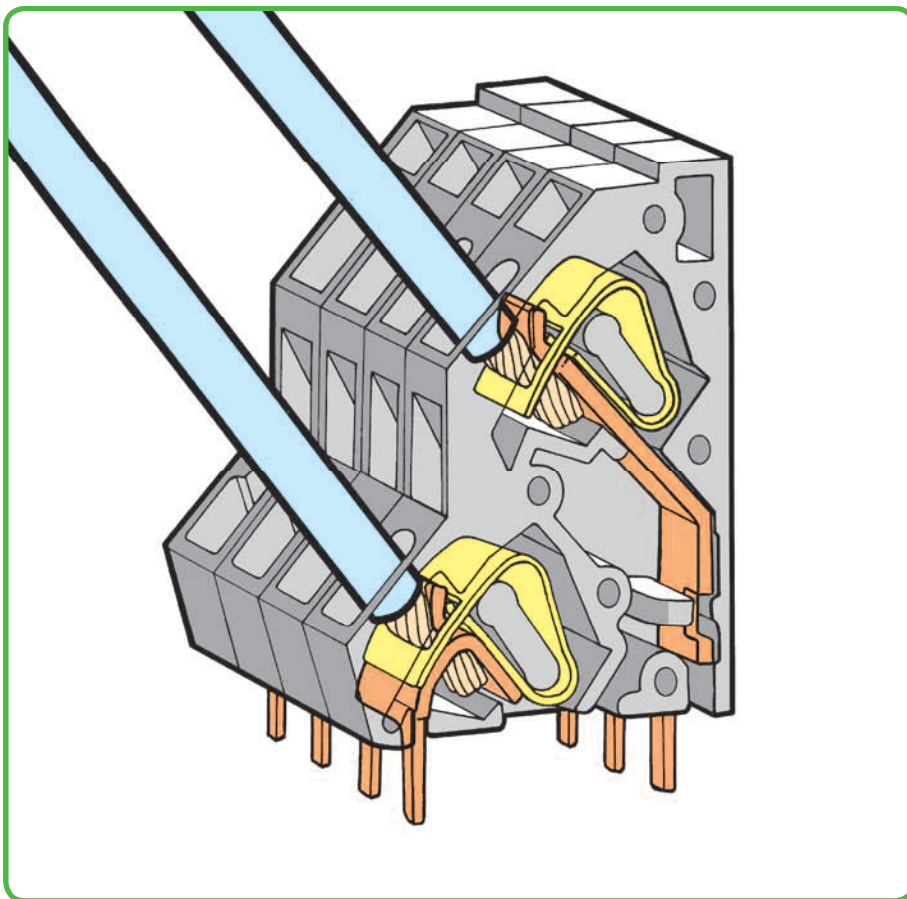
Combining terminal blocks with different pin spacing.

Space-efficient configuration

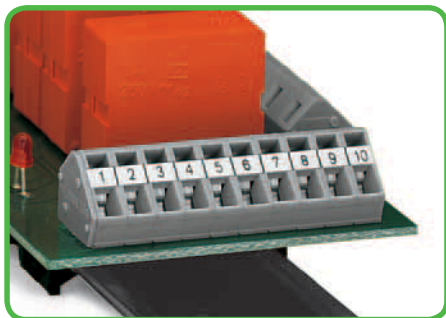


Terminal strips placed behind each other save space – staggering them by half the pin spacing simplifies subsequent wiring of the first row.

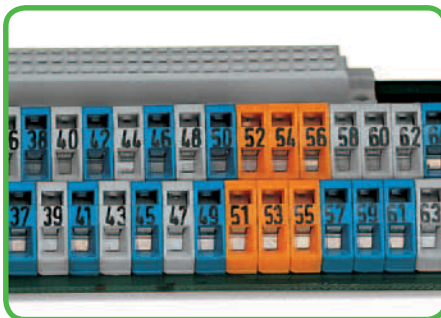
736 Series



Marking

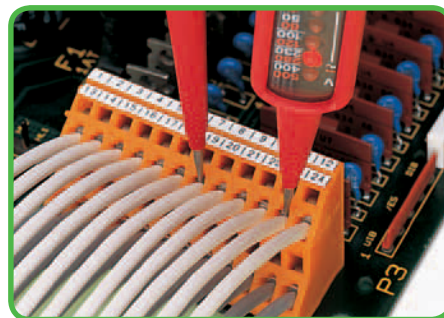


Marking via self-adhesive strips ...



... or factory direct printing.

Testing

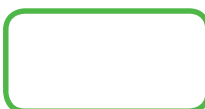


Testing via contact area above the conductors.



CAGE CLAMP® clamps the following copper conductors:*

solid



stranded



fine-stranded, also with tinned single strands

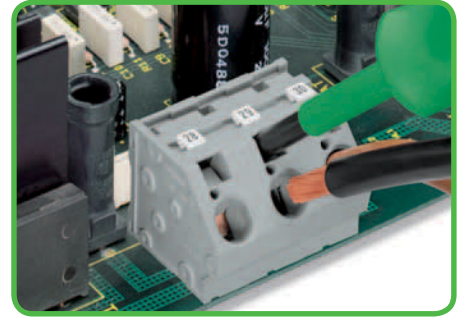
* For aluminum conductors, see notes in Section 11.



Inserting conductor perpendicular to screwdriver actuation - 740 Series.

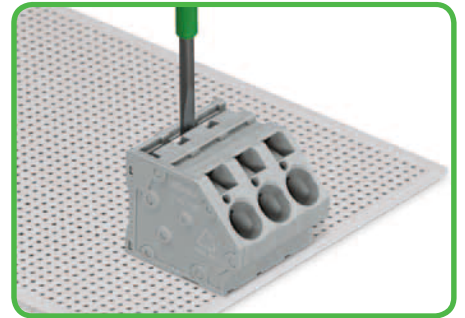
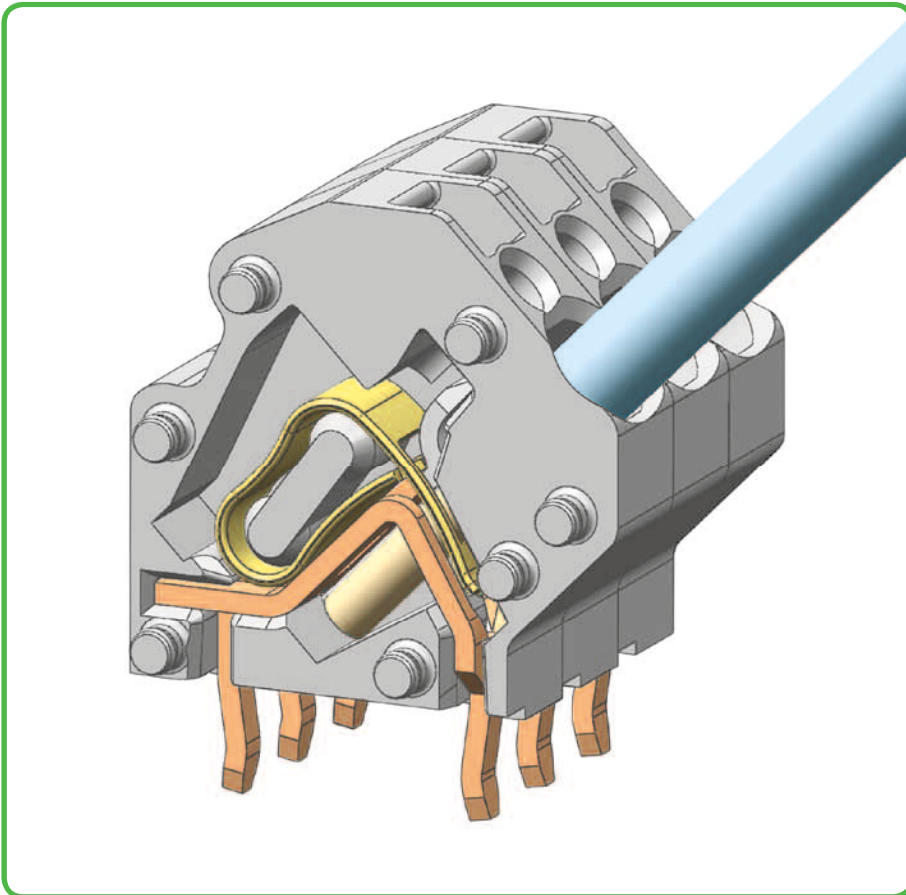


Inserting conductor parallel to screwdriver actuation - 739 Series.

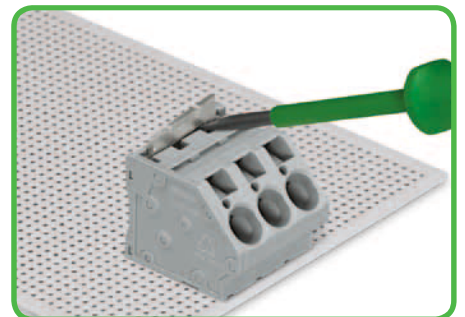


Inserting/removing conductor via 5.5 mm screwdriver - 745 Series, 16 mm².

745 Series

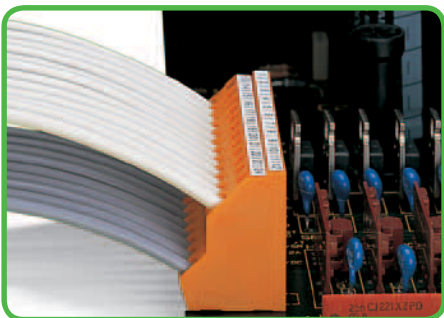


To insert comb-style jumper bar, push it down using a screwdriver until it hits the backstop - 745 Series.



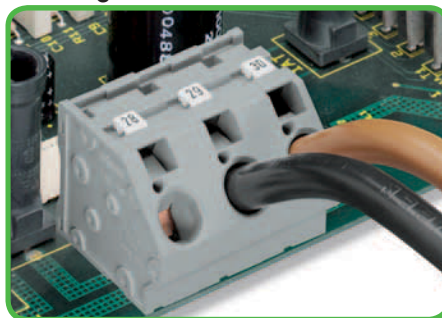
To remove comb-style jumper bar, lift it up using a screwdriver - 745 Series.

Space requirement



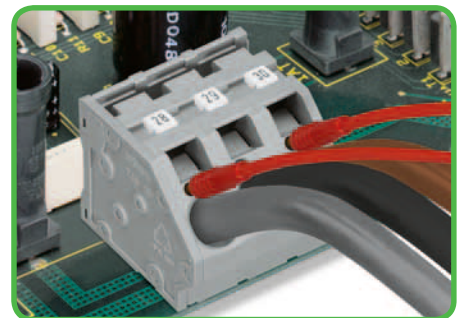
Low space requirements due to high-density design - double-deck terminal strip - 736 Series.

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

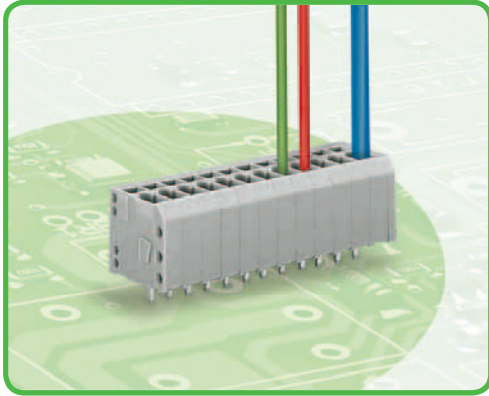


fine-stranded with
crimped ferrules
(gas-tight)



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

PCB Terminal Strips 1.5 mm² and 2.5 mm² Pin Spacing 3.5 mm, 3.81 mm, 5 mm, 5.08 mm, 7.5 mm, 7.62 mm 739 Series



- Terminal strips with screwdriver-actuated CAGE CLAMP®
- Vertical conductor entry and conductor operation provide for space-saving positioning/grouping

Technical data:

Pin Spacing	3.5 mm, 3.81 mm 0.138 in, 0.15 in			5 mm, 5.08 mm 0.197 in, 0.2 in			7.5 mm, 7.62 mm 0.295 in, 0.3 in			10 mm 0.394 in		
Rating per	IEC/EN 60664-1			IEC/EN 60664-1			IEC/EN 60664-1			IEC/EN 60664-1		
Overtoltage category	III	III	II	III	III	II	III	III	II	III	III	II
Pollution degree	3	2	2	3	2	2	3	2	2	3	2	2
Rated voltage				320 V	320 V	630 V	500 V	630 V	1000 V	500 V	630 V	1000 V
Rated surge voltage				4 kV	4 kV	4 kV	6 kV	6 kV	6 kV	6 kV	6 kV	6 kV
Rated voltage 3.5 mm	160 V	160 V	320 V									
Rated surge voltage 3.5 mm	2.5 kV	2.5 kV	2.5 kV									
Rated voltage 3.81 mm	200 V	320 V	500 V									
Rated surge voltage 3.81 mm	4 kV	4 kV	4 kV									
Nominal current	17,5 A	17,5 A	17,5 A	24 A	24 A	24 A	24 A	24 A	24 A	24 A	24 A	24 A
Approvals per	UL/CSA			UL/CSA			UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V	300 V	-	300 V	300 V	-	300 V
Nominal current UL	6 A	-	6 A	12 A	-	10 A	12 A	-	10 A	12 A	-	10 A
Nominal current CSA	-	-	-	12 A	-	10 A	8 A	-	8 A	8 A	-	8 A

Conductor and solder pin data for 3.5/3.81 mm pin spacing:

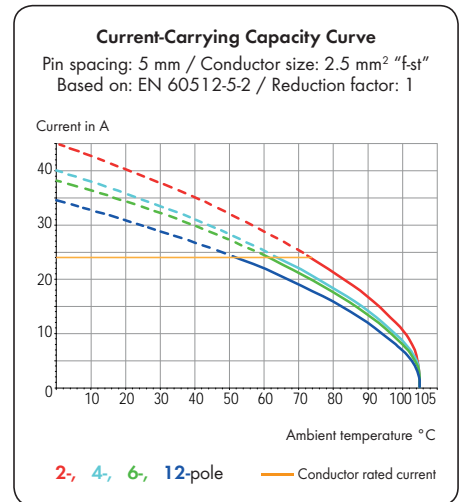
Connection technology	CAGE CLAMP®
Conductor size: solid	0.08 - 1.5 mm ²
Conductor size: fine-stranded	0.08 - 1.5 mm ²
Conductor size: fine-stranded	0.25 - 1.0 mm ² (with insulated ferrule)
Conductor size: fine-stranded	0.25 - 1.5 mm ² (with uninsulated ferrule)
AWG	28 - 14 (14: THHN, THWN)
Strip length	5 - 6 mm / 0.20 - 0.24 in
Conductor entry angle	90° to PCB
Solder pin: length/width	3.4 mm / 0.6 x 0.8 mm
Solder pin: drilled hole diameter	1.1 ^{+0.1} mm

Conductor and solder pin data for 5/5.08 mm and 7.5/7.62 mm pin spacing:

Connection technology	CAGE CLAMP®
Conductor size: solid	0.08 - 2.5 mm ²
Conductor size: fine-stranded	0.08 - 2.5 mm ²
Conductor size: fine-stranded	0.25 - 1.5 mm ² (with insulated ferrule)
Conductor size: fine-stranded	0.25 - 2.5 mm ² (with uninsulated ferrule)
AWG	28 - 12 (12: THHN, THWN)
Strip length	8 - 9 mm / 0.31 - 0.35 in
Conductor entry angle	90° to PCB
Solder pin: length/width	3.2 mm / 0.8 x 1.2 mm
Solder pin: drilled hole diameter	1.6 ^{+0.1} 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 _{Cu}]
Contact plating	tin-plated



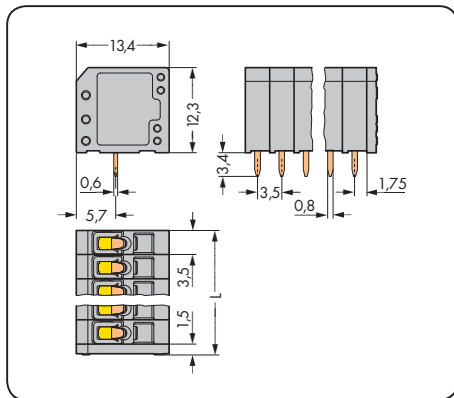
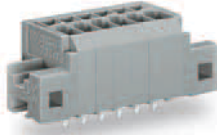
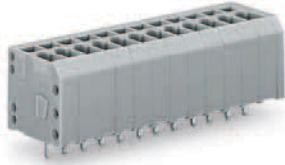
Current-Carrying Capacity Curve for 3,5 mm and 3,81 mm, see www.wago.com

739 Series accessories:

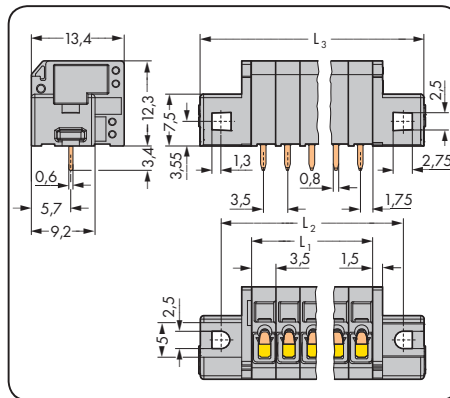
Page:

Marking accessories	540 - 543
Operating tools	526 - 528
Screws	546

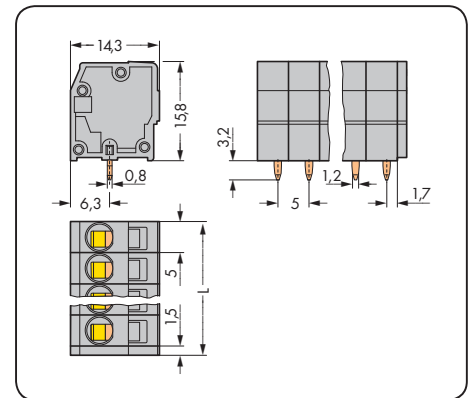
Pin spacing 3.5 mm / 0.138 in		With fixing flanges Pin spacing 3.5 mm / 0.138 in		Pin spacing 5 mm / 0.197 in	
0.08 - 1.5 mm ² 160 V/2.5 kV/2 17.5 A	AWG 28 - 14 300 V/6 A	0.08 - 1.5 mm ² 160 V/2.5 kV/2 17.5 A	AWG 28 - 14 300 V/6 A	0.08 - 2.5 mm ² 320 V/4 kV/2 24 A	AWG 28 - 12 300 V/10 A



$L = (\text{pole no.} \times \text{pin spacing}) + 1.5 \text{ mm}$



$L_1 = \text{pole no.} \times \text{pin spacing}$
 $L_2 = L_1 + 8.8 \text{ mm}$
 $L_3 = L_1 + 14.8 \text{ mm}$



$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5 \text{ mm} + 1.5 \text{ mm}$

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Terminal strip, 1 solder pin/pole, gray			Terminal strip with fixing flanges, 1 solder pin/pole, gray			Terminal strip, 1 solder pin/pole, gray		
2	739-302	560 (4 x 140)	2	739-302/001-000	220 (4 x 55)	2	739-102	400 (4 x 100)
3	739-303	400 (4 x 100)	3	739-303/001-000	180 (4 x 45)	3	739-103	280 (4 x 70)
4	739-304	300 (4 x 75)	4	739-304/001-000	160 (4 x 40)	4	739-104	220 (4 x 55)
5	739-305	240 (4 x 60)	5	739-305/001-000	140 (4 x 35)	5	739-105	180 (4 x 45)
6	739-306	200 (4 x 50)	6	739-306/001-000	120 (4 x 30)	6	739-106	140 (4 x 35)
7	739-307	180 (4 x 45)	7	739-307/001-000	120 (4 x 30)	7	739-107	120 (4 x 30)
8	739-308	160 (4 x 40)	8	739-308/001-000	100 (4 x 25)	8	739-108	100 (4 x 25)
9	739-309	140 (4 x 35)	9	739-309/001-000	100 (4 x 25)	9	739-109	100 (4 x 25)
10	739-310	120 (4 x 30)	10	739-310/001-000	80 (4 x 20)	10	739-110	80 (4 x 20)
12	739-312	100 (4 x 25)	12	739-312/001-000	80 (4 x 20)	12	739-112	60 (4 x 15)
						16	739-116	40 (4 x 10)
						24	739-124	20 (4 x 5)

Item No. Suffixes:
Colored Terminal Strips, 5 mm Pin Spacing:

- black /000-004
- red /000-005
- blue /000-006
- brown /000-014
- light green /000-017
- green /000-023

Ordering example:
Terminal strip, 5 mm pin spacing
8-pole, brown: **739-108/000-014**

(Production and prices depend on quantity required)