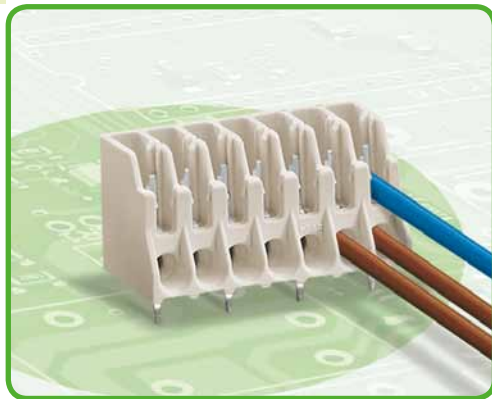


# Combi PCB Terminal Blocks with PUSH WIRE® and FIT CLAMP® Connections

## Pin Spacing 3.5 mm

### 251 Series



- Compact Combi PCB terminal blocks are ideal for automated wiring in the lighting industry
- Low conductor insertion forces
- PUSH WIRE® and FIT CLAMP® connections suitable for automated wiring systems

#### Technical data:

#### "251 high" version:

#### "251 mini" version:

Pin Spacing	3.5 mm/0.138 in 0.5 - 1.5 mm <sup>2</sup> "sol."			3.5 mm/0.138 in 0.5 - 1 mm <sup>2</sup> "sol."		
	IEC/EN 60664-1			IEC/EN 60664-1		
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	250 V	320 V	630 V	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV
Nominal current	2 A	2 A	2 A	6 A	6 A	6 A
Approvals per	UL/CSA			UL/CSA		
Use group UL1059	B	C	D	B	C	D
Rated voltage	-	-	-	300 V	-	300 V
Nominal current UL	-	-	-	4 A	-	4 A
Nominal current CSA	-	-	-	-	-	-

#### Conductor and solder pin data for "251 high" version:

Connection technology	<b>PUSH WIRE®</b>
Conductor size: solid	0.5 - 1.5 mm <sup>2</sup>
AWG	20 - 16 "sol."
Strip length	7.5 - 8.5 mm / 0.29 - 0.32 in
Conductor entry angle	0° to PCB
Connection technology	<b>FIT CLAMP®</b> (IDC connection)
Conductor size: solid	0.5 mm <sup>2</sup> (PVC insulation, simple)
Conductor size: fine-stranded	0.75 mm <sup>2</sup> (PVC insulation, simple)
Solder pin: length/width	3.6 mm / 0.75 x 0.5 mm
Solder pin: drilled hole diameter	1.2 <sup>0.1</sup> mm

#### Conductor and solder pin data for "251 mini" version:

Connection technology	<b>PUSH WIRE®</b>
Conductor size: solid	0.5 - 1 mm <sup>2</sup> Max. 2.5 mm insulation diameter for 1 mm <sup>2</sup> "sol." conductors
AWG	20 - 18 "sol."
Strip length	8 - 9 mm / 0.31 - 0.35 in
Conductor entry angle	0° to PCB
Connection technology	<b>FIT CLAMP®</b> (IDC connection)
Conductor size: solid	0.5 mm <sup>2</sup> (PVC insulation, simple)
Conductor size: fine-stranded	0.75 mm <sup>2</sup> (PVC insulation, simple)
Solder pin: length/width	3.2 mm / 0.75 x 0.5 mm
Solder pin: drilled hole diameter	1.1 <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) (for "251 mini" only)
Contact material	Copper alloy
Contact plating	tin-plated

#### 251 Series accessories:

#### Page:

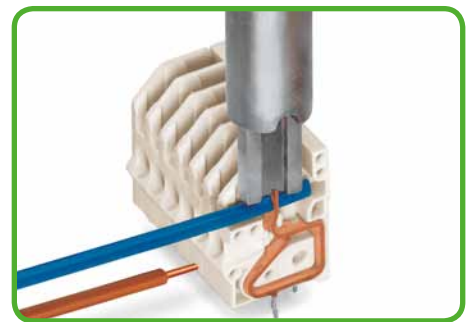
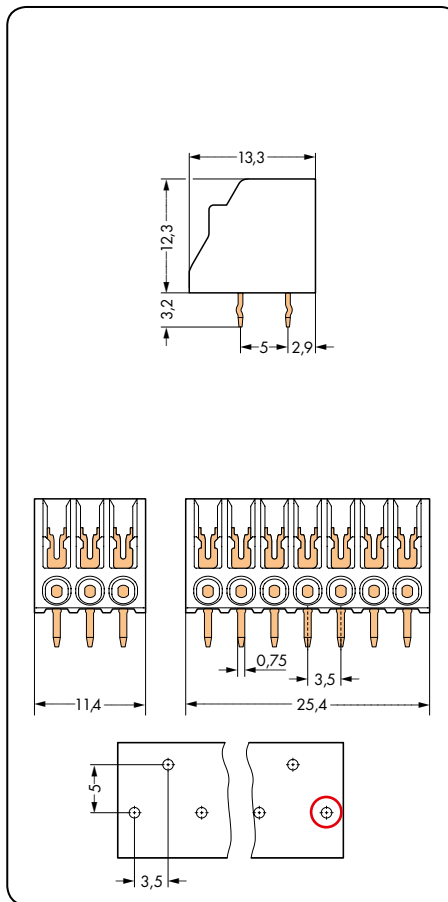
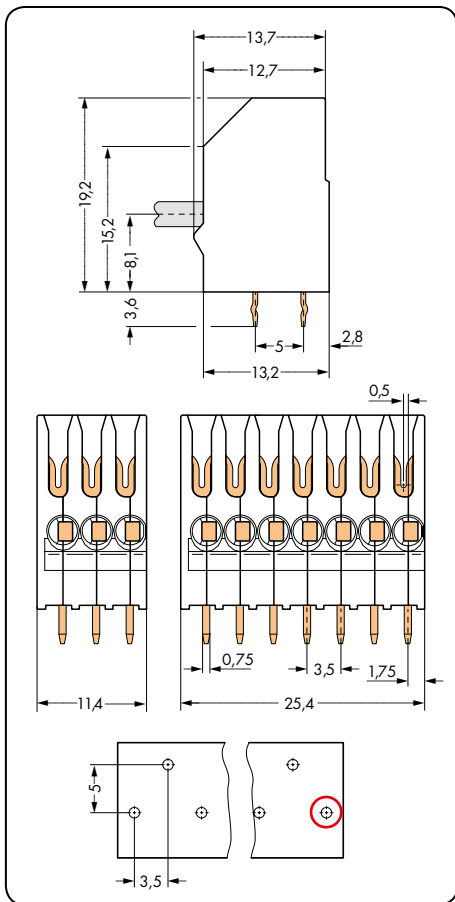
Operating tool	527
Disconnect tool	529

# Combi PCB Terminal Blocks with PUSH WIRE® and FIT CLAMP® Connections

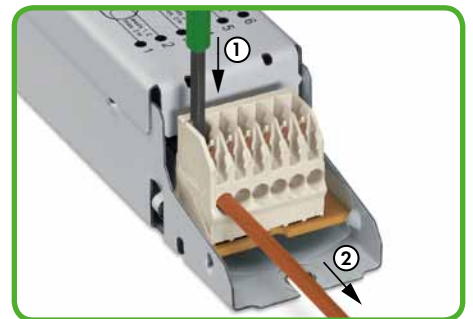
FIT CLAMP®  
PUSH WIRE®

1  
171

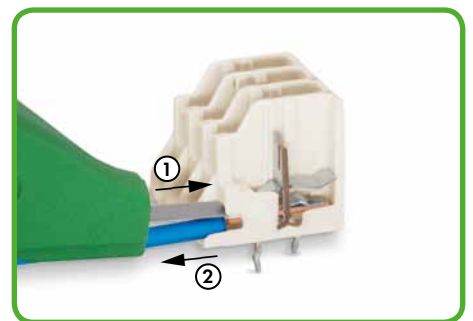
"251 high" version Pin spacing 3.5 mm / 0.138 in		"251 mini" version Pin spacing 3.5 mm / 0.138 in		Handling
0.5 - 1.5 mm <sup>2</sup> "sol."	AWG 20 - 16 "sol."	0.5 - 1 mm <sup>2</sup> "sol."	AWG 20 - 18 "sol."	
320 V/4 kV/2 2 A		320 V/4 kV/2 6 A	300 V/4 A	



Conductor termination - "251 high" and "251 mini"  
PUSH WIRE® = Simply push in conductor.  
FIT CLAMP® (IDC) = Insert conductor via 206-831 operating tool.



Conductor removal - "251 high"  
PUSH WIRE®: Open spring via 2.5 x 0.4 mm screwdriver (1) and pull out conductor (2).  
FIT CLAMP® (IDC): Pull up vertically on conductor to remove it (10 x reconnection possible when used properly. Before re-using, cut off old contact point from conductor)



Conductor removal - "251 mini"  
PUSH WIRE®: Twist conductor and pull out, or fully insert 206-830 disconnection tool over the conductor (1) and pull it out (2).  
FIT CLAMP® (IDC): Pull up vertically on conductor to remove it (10 x reconnection possible when used properly. Before re-using, cut off old contact point from conductor)

L = [pole no. x pin spacing] + 0.9 mm

⊕ Starting point (first solder pin), right front side

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Combi PCB terminal block, "251 high" version, with PUSH WIRE® and FIT CLAMP® connections, white			Combi PCB terminal block, "251 mini" version, with PUSH WIRE® and FIT CLAMP® connections, white		
2	251-102	600 (4 x 150)	3	251-303	420 (4 x 105)
3	251-103	420 (4 x 105)	4	251-304	320 (4 x 80)
4	251-104	320 (4 x 80)	6	251-306	200 (4 x 50)
5	251-105	260 (4 x 65)	7	251-307	180 (4 x 45)
6	251-106	220 (4 x 55)	8	251-308	160 (4 x 40)
7	251-107	180 (4 x 45)	10	251-310	120 (4 x 30)

For other lengths and direct marking, please contact factory.

WAGO®

## 2-Conductor PCB Terminal Strips with Push-Buttons Pin Spacing 2.5 mm 2080 Series



- Compact terminal strips with PUSH WIRE® connection for solid conductors
- Each termination unit features an integrated push-button
- Double-conductor connection for commoning signals

### Technical data:

Pin Spacing	2.5 mm 0.098 in				
Rating per	IEC/EN 60664-1				
Overvoltage category	III	III	II		
Pollution degree	3	2	2		
Rated voltage	160 V	160 V	320 V		
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV		
Nominal current	2 A	2 A	2 A		
Approvals per	UL/CSA				
Use group UL 1059	B	C	D		
Rated voltage	-	-	-		
Nominal current UL	-	-	*		
Nominal current CSA	-	-	-		

### Conductor and solder pin data:

Connection technology	PUSH WIRE®
Conductor size: solid	0.2 - 0.5 mm <sup>2</sup>
AWG	24 - 20 "sol."
Strip length	6 - 7 mm / 0.24 - 0.28 in
Conductor entry angle	90° to PCB
Solder pin: length/width	3.4 mm / 0.5 x 0.8 mm
Solder pin: drilled hole diameter	1.1 <sup>-0.1</sup> mm

### Material data:

Material group	I
Insulating material	Glass fiber-reinforced polyamide 6.6 (PA 6.6-GF)
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

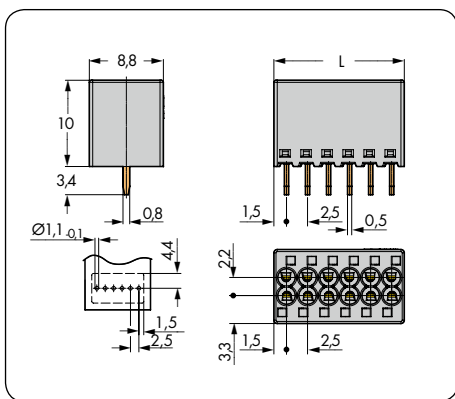
### 2080 Series accessories:

### Page:

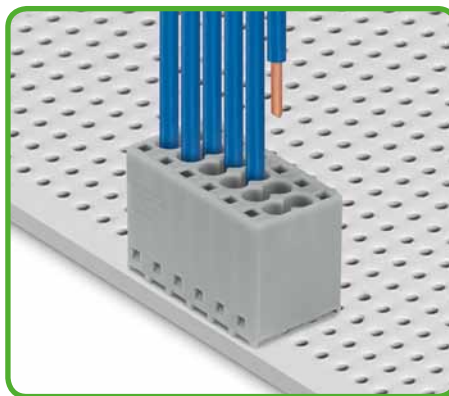
Operating tool (206-880)	528

Pin spacing 2.5 mm / 0.098 in

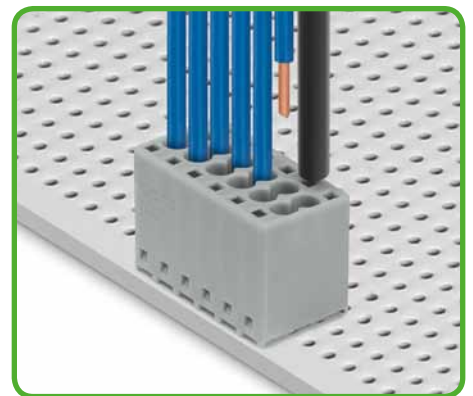
0.2 - 0.5 mm<sup>2</sup> "sol." | AWG 24 - 20 "sol."  
 160 V/2.5 kV/2 2 A



$L = (\text{pole no.} \times \text{pin spacing}) + 0.4 \text{ mm}$



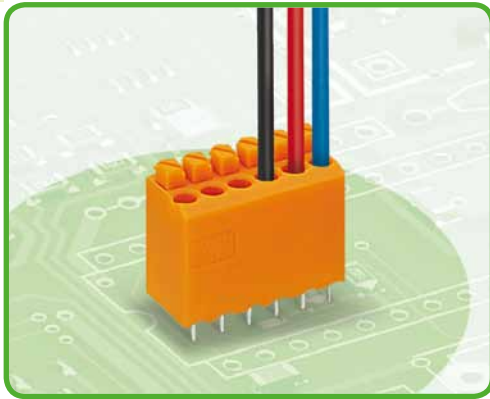
Inserting solid conductor via push-in termination.



Removing conductor via push-button and 1 mm Ø operating tool (206-880).

Pole No.	Item No.	Pack. Unit
<b>2-conductor terminal strip with push-buttons, gray</b>		
4	2080-504	
6	2080-506	

# Compact PCB Terminal Blocks with Push-Buttons 1.5 mm<sup>2</sup> Pin Spacing 3.81 mm 735 Series



- Compact terminal blocks with push-buttons and PUSH WIRE® connection
- Top-of-unit, push-button actuation and conductor termination save space on the PCB
- Push-in termination of solid conductors
- Pin center spacing can be maintained in a terminal block assembly

#### Technical data\*:

Pin Spacing	3.81 mm 0.15 in				
Rating per	IEC/EN 60664-1				
Overvoltage category	III	III	II		
Pollution degree	3	2	2		
Rated voltage	250 V	320 V	630 V		
Rated surge voltage	4 kV	4 kV	4 kV		
Nominal current	10 A	10 A	10 A		
Approvals per	UL/CSA				
Use group UL1059	B	C	D		
Rated voltage	300 V	-	300 V		
Nominal current UL	10 A	-	10 A		
Nominal current CSA	10 A	-	10 A		

#### Conductor and solder pin data:

Connection technology	PUSH WIRE®
Conductor size: solid	0.5 - 1.5 mm <sup>2</sup>
AWG	20 - 16 "sol."
Strip length	8 - 9 mm / 0.31 - 0.35 in
Conductor entry angle	90° to PCB
Solder pin: length/width	3.5 mm / 0.4 x 0.9 mm
Solder pin: drilled hole diameter	1 <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

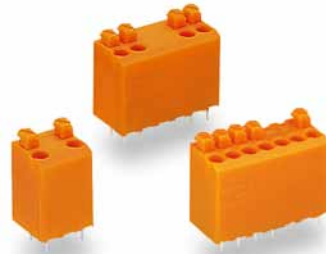
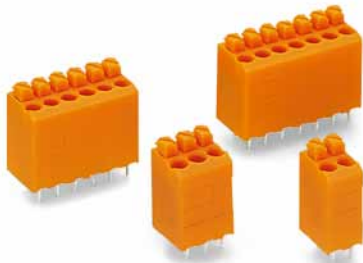
#### 735 Series accessories:

#### Page:

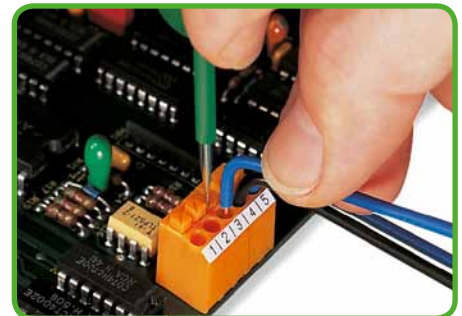
Marking accessories	540 - 543
Operating tools	526 - 528
Test pin	538

\*For versions with staggered solder pins allowing increased clearances and creepage distances, please contact factory.

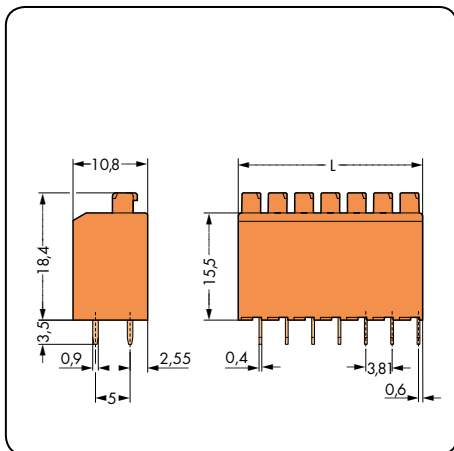
Pin spacing 3.81 mm / 0.15 in		With spacers, 1 x and 2 x pin spacing Pin spacing 3.81 mm / 0.15 in	
0.5 - 1.5 mm <sup>2</sup> "sol."	AWG 20 - 16 "sol."	0.5 - 1.5 mm <sup>2</sup> "sol."	AWG 20 - 16 "sol."
320 V/4 kV/2 10 A	300 V/10 A	320 V/4 kV/2 10 A	300 V/10 A



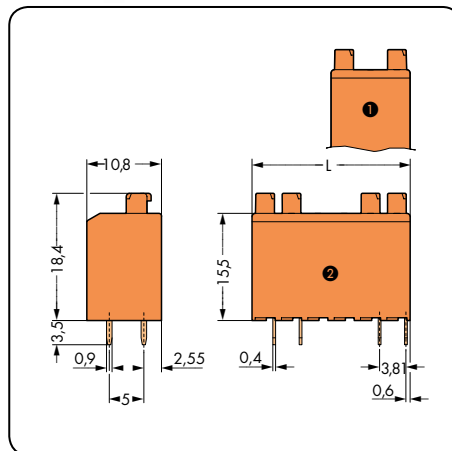
Wiring is simplified by pushing conductors into unit.



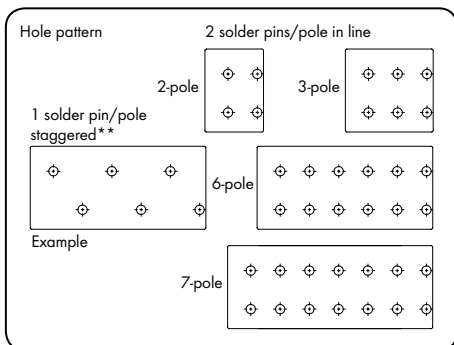
Removing conductor via push-button.



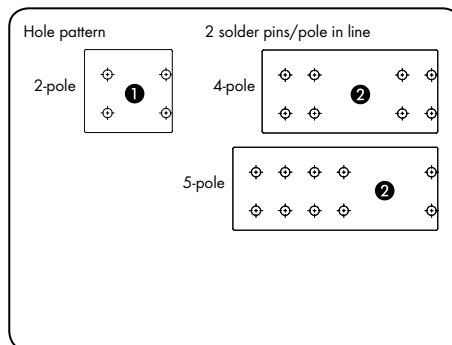
L for 2-pole 7.62 mm, L for 3-pole 11.43 mm  
L for 6-pole 22.86 mm, L for 7-pole 26.67 mm



L for 2-pole 11.43 mm, L for 4-pole 22.86 mm  
L for 5-pole 26.67 mm



\*\* For versions with staggered solder pins that increase clearances and creepage distances, please contact factory.



1 Spacer of same width as 1 x pin spacing  
2 Spacer of same width as 2 x pin spacing



Pin center spacing can be maintained in an assembly.

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Compact terminal block with push-buttons, 2 solder pins/pole in line, orange			Compact terminal block with push-buttons and spacer, 2 solder pins/pole in line, orange		
- high version -			- high version -		
2	735-122	660 (4 x 165)	2	735-123/001-000	440 (4 x 110)
3	735-123	440 (4 x 110)	4	735-126/001-000	220 (4 x 55)
6	735-126	220 (4 x 55)	5	735-127/001-000	180 (4 x 45)
7	735-127	180 (4 x 45)			



Testing with Ø 1 mm test pin.

# Compact PCB Terminal Blocks with Push-Buttons 1.5 mm<sup>2</sup> Pin Spacing 5 mm 735 Series



- Compact terminal blocks with push-buttons and PUSH WIRE® connection
- Top-of-unit, push-button actuation and conductor termination save space on the PCB
- Push-in termination of solid conductors
- Pin center spacing can be maintained in a terminal block assembly

#### Technical data:

Pin Spacing	5 mm 0.197 in		
Rating per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Nominal current	10 A	10 A	10 A
Approvals per	UL/CSA		
Use group UL1059	B	C	D
Rated voltage	300 V	-	300 V
Nominal current UL	10 A	-	10 A
Nominal current CSA	10 A	-	10 A

#### Conductor and solder pin data:

Connection technology	PUSH WIRE®
Conductor size: solid	0.5 - 1.5 mm <sup>2</sup>
AWG	20 - 16 "sol."
Strip length	8 - 9 mm / 0.31 - 0.35 in
Conductor entry angle	90° to PCB
Solder pin: length/width	3.5 mm / 0.4 x 0.9 mm
Solder pin: drilled hole diameter	1 <sup>+0.1</sup> mm

#### Material data:

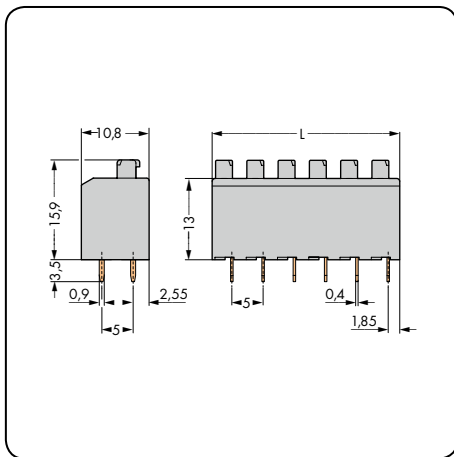
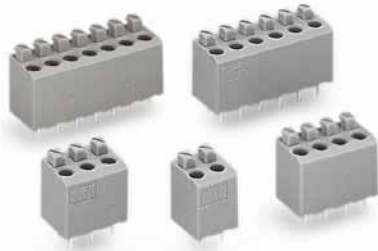
Material group	I
Insulating material	Nylon 6.6 (PA 6.6)
Flammability rating per UL 94	V0
Lower/Upper temperature limit	-60 °C / +105 °C
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated

#### 735 Series accessories:

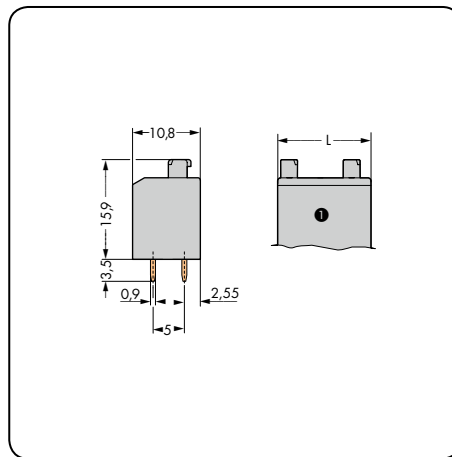
#### Page:

Marking accessories	540 - 543
Operating tools	526 - 528
Test pin	538

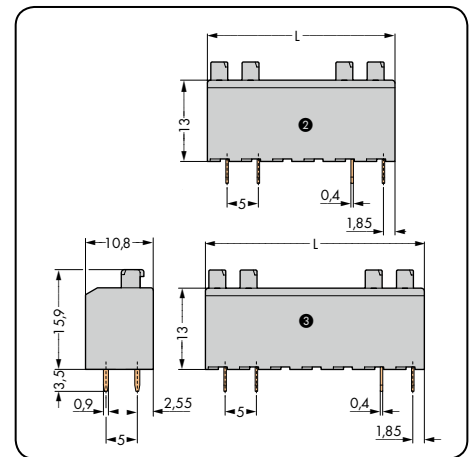
Pin spacing 5 mm / 0.197 in		With spacer, 1 x pin spacing Pin spacing 5 mm / 0.197 in		With spacer, 2 and 3 x pin spacing Pin spacing 5 mm / 0.197 in	
0.5 - 1.5 mm <sup>2</sup> "sol."	AWG 20 - 16 "sol."	0.5 - 1.5 mm <sup>2</sup> "sol."	AWG 20 - 16 "sol."	0.5 - 1.5 mm <sup>2</sup> "sol."	AWG 20 - 16 "sol."
320 V/4 kV/2 10 A	300 V/10 A	320 V/4 kV/2 10 A	300 V/10 A	320 V/4 kV/2 10 A	300 V/10 A



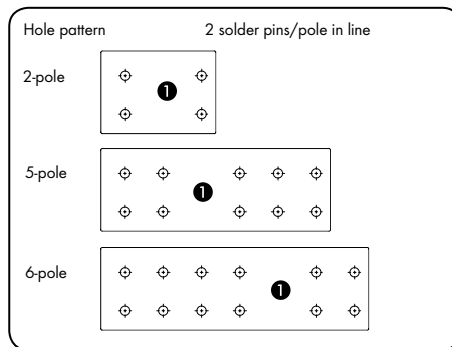
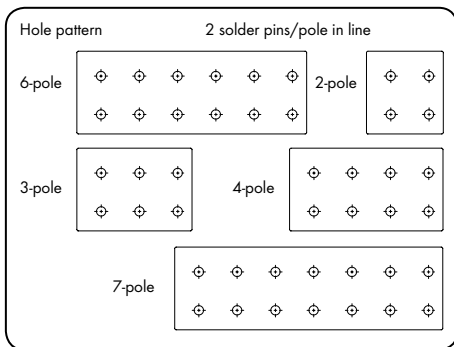
L for 2-pole 10 mm, L for 3-pole 15 mm  
L for 4-pole 20 mm, L for 6-pole 30 mm  
L for 7-pole 35 mm



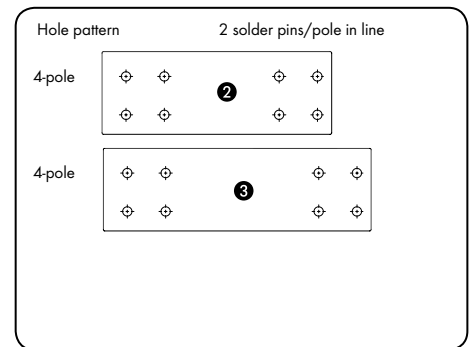
L for 2-pole/① x pin spacing 15 mm  
L for 5-pole/① x pin spacing 30 mm  
L for 6-pole/① x pin spacing 35 mm



L for 4-pole/② x pin spacing 30 mm  
L with 4-pole/③ x pin spacing 35 mm



① Spacer of same width as 1 x pin spacing

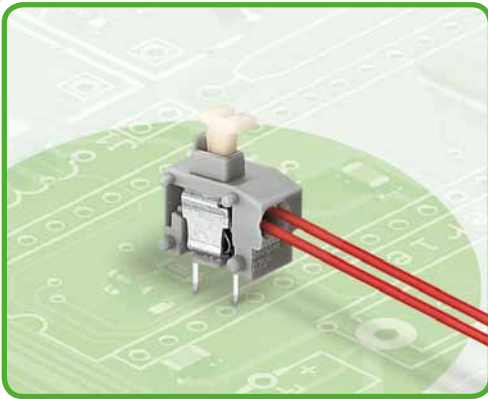


② Spacer of same width as 2 x pin spacing  
③ Spacer of same width as 3 x pin spacing

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Compact terminal block with push-buttons, 2 solder pins/pole in line, low version, gray			Compact terminal block with push-buttons and spacer for 1 x pin spacing, 2 solder pins/pole in line, low version, gray			Compact terminal block with push-buttons and spacer for 2 x pin spacing, 2 solder pins/pole in line, low version, gray		
2	735-302	500 (4 x 125)	2	735-303/001-000	320 (4 x 80)	4	735-306/001-000	160 (4 x 40)
3	735-303	320 (4 x 80)						
4	735-304	240 (4 x 60)						
6	735-306	160 (4 x 40)	5	735-306/003-000	160 (4 x 40)	Compact terminal block with push-buttons and spacer for 3 x pin spacing, 2 solder pins/pole in line, low version, gray		
7	735-307	140 (4 x 35)	6	735-307/001-000	140 (4 x 35)	4	735-307/002-000	140 (4 x 35)

## 2-Conductor, Modular PCB Terminal Blocks with Push-Buttons 0.75 mm<sup>2</sup> Pin Spacing 5/5.08 mm, 7.5/7.62 mm, 10/10.16 mm

### 235 Series



- Modular terminal blocks with push-buttons and PUSH WIRE® connection, for custom terminal strip assemblies
- Double-conductor connection for commoning signals
- Push-in termination of solid conductors
- Easy conductor removal via push-button
- Set to metric or inch pin spacing by compressing terminal strips together or pulling them apart
- Versions with test slot can be found at [www.wago.com](http://www.wago.com)
- For 235 Series without push-buttons, see page 157

#### Technical data:

Pin Spacing	5/5.08 mm 0.2 in			7.5/7.62 mm 0.3 in			10/10.16 mm 0.4 in		
	IEC/EN 60664-1			IEC/EN 60664-1			IEC/EN 60664-1		
Rating per	III	III	II	III	III	II	III	III	II
Overtoltage category	3	2	2	3	2	2	3	2	2
Pollution degree	3	2	2	3	2	2	3	2	2
Rated voltage	250 V	320 V	630 V	400 V	630 V	1000 V	630 V	1000 V	1000 V
Rated surge voltage	4 kV	4 kV	4 kV	6 kV	6 kV	6 kV	8 kV	8 kV	8 kV
Nominal current	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A
Approvals per	UL/CSA			UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V	300 V	-	300 V
Nominal current UL	10 A	-	10 A	10 A	-	10 A	10 A	-	10 A
Nominal current CSA	10 A	-	-	10 A	-	-	10 A	-	-

#### Conductor and solder pin data:

Connection technology	PUSH WIRE®
Conductor size: solid	2 x 0.2 - 0.75 mm <sup>2</sup>
AWG	2 x 24 - 18 "sol."
Strip length	9 - 10 mm / 0.35 - 0.39 in
Conductor entry angle	0° to PCB
Solder pin: length/width	3.6 mm / 0.4 x 0.8 mm
Solder pin: drilled hole diameter	1 <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

#### 235 Series accessories:

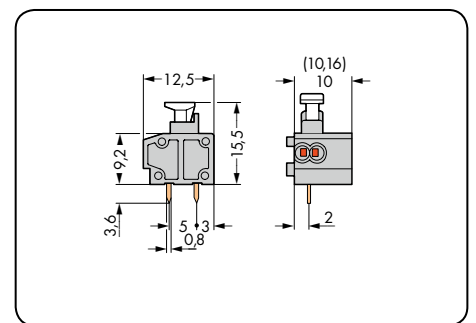
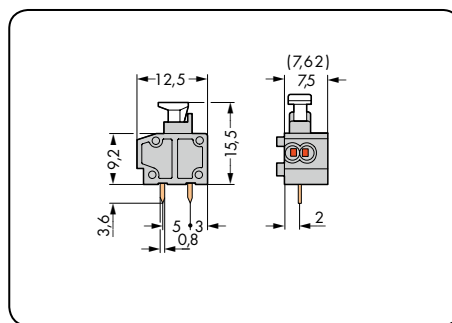
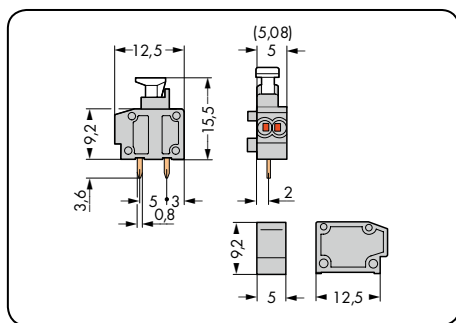
#### Page:

Marking accessories	540 - 543
Operating tools	526 - 528


# 2-Conductor, Modular PCB Terminal Blocks with Push-Buttons 0.75 mm<sup>2</sup>


PUSH WIRE®

Pin spacing 5/5.08 mm / 0.2 in		Pin spacing 7.5/7.62 mm / 0.3 in		Pin spacing 10/10.16 mm / 0.4 in	
2 x 0.25 – 0.75 mm <sup>2</sup> "sol."	2 x AWG 24 – 18 "sol."	2 x 0.25 – 0.75 mm <sup>2</sup> "sol."	2 x AWG 24 – 18 "sol."	2 x 0.25 – 0.75 mm <sup>2</sup> "sol."	2 x AWG 24 – 18 "sol."
320 V/4 kV/2 10 A	300 V/10 A	630 V/6 kV/2 10 A	300 V/10 A	1000 V/8 kV/2 10 A	300 V/10 A

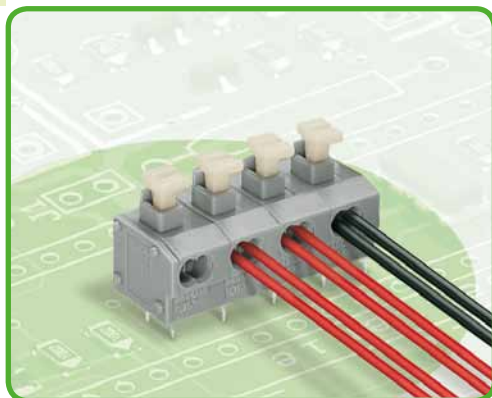


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>2-conductor modular terminal block with push-button, 2 solder pins/pole</b>			<b>2-conductor modular terminal block with push-button, 2 solder pins/pole</b>			<b>2-conductor modular terminal block with push-button, 2 solder pins/pole</b>		
gray	235-711/331-000	800 (8 x 100)	gray	235-551/331-000	600 (6 x 100)	gray	235-851/331-000	400 (4 x 100)
dark gray	235-712/331-000	800 (8 x 100)	dark gray	235-722/331-000	600 (6 x 100)	dark gray	235-732/331-000	400 (4 x 100)
light gray	235-713/331-000	800 (8 x 100)	light gray	235-723/331-000	600 (6 x 100)	light gray	235-733/331-000	400 (4 x 100)
blue	235-714/331-000	800 (8 x 100)	blue	235-724/331-000	600 (6 x 100)	blue	235-734/331-000	400 (4 x 100)
orange	235-716/331-000	800 (8 x 100)	orange	235-726/331-000	600 (6 x 100)	orange	235-736/331-000	400 (4 x 100)
light green	235-717/331-000	800 (8 x 100)	light green	235-727/331-000	600 (6 x 100)	light green	235-737/331-000	400 (4 x 100)
			① Suitable for Ex i applications			① Suitable for Ex i applications		

Accessories	Item No.	Pack. Unit
<b>Spacer for modular terminal blocks</b> for doubling the pin spacing, gray		
	235-701	100

End plates for 235 Series, snap-on type, 1 mm/0.039 in thick	Color	Item No.	Pack. Unit
	gray	235-100	100
	dark gray	235-200	100
	light gray	235-300	100
	blue	235-400	100
	orange	235-600	100
	light green	235-700	100

## 2-Conductor PCB Terminal Strips with Push-Buttons 0.75 mm<sup>2</sup> Pin Spacing 5/5.08 mm, 7.5/7.62 mm, 10/10.16 mm 235 Series



- Terminal strips with push-buttons and PUSH WIRE® connection
- Double-conductor connection for commoning signals
- Push-in termination of solid conductors
- Easy conductor removal via push-button
- Set to metric or inch pin spacing by compressing terminal strips together or pulling them apart
- Versions with test slots can be found at [www.wago.com](http://www.wago.com)
- For 235 Series without push-buttons, see page 159

### Technical data:

Pin Spacing	5/5.08 mm 0.2 in			7.5/7.62 mm 0.3 in			10/10.16 mm 0.4 in		
	IEC/EN 60664-1			IEC/EN 60664-1			IEC/EN 60664-1		
Rating per	III	III	II	III	III	II	III	III	II
Overtoltage category	3	2	2	3	2	2	3	2	2
Pollution degree	3	2	2	3	2	2	3	2	2
Rated voltage	250 V	320 V	630 V	400 V	630 V	1000 V	630 V	1000 V	1000 V
Rated surge voltage	4 kV	4 kV	4 kV	6 kV	6 kV	6 kV	8 kV	8 kV	8 kV
Nominal current	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A
Approvals per	UL/CSA			UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V	300 V	-	300 V
Nominal current UL	10 A	-	10 A	10 A	-	10 A	10 A	-	10 A
Nominal current CSA	10 A	-	-	10 A	-	-	10 A	-	-

### Conductor and solder pin data:

Connection technology	PUSH WIRE®
Conductor size: solid	2 x 0.2 - 0.75 mm <sup>2</sup>
AWG	2 x 24 - 18 "sol."
Strip length	9 - 10 mm / 0.35 - 0.39 in
Conductor entry angle	0° to PCB
Solder pin: length/width	3.6 mm / 0.4 x 0.8 mm
Solder pin: drilled hole diameter	1 <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

### 235 Series accessories:

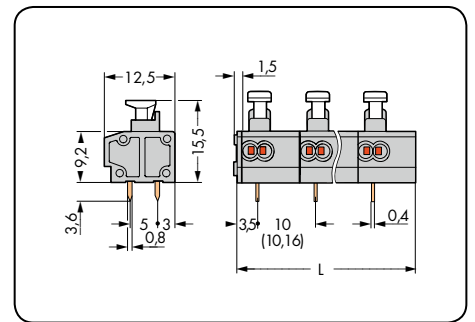
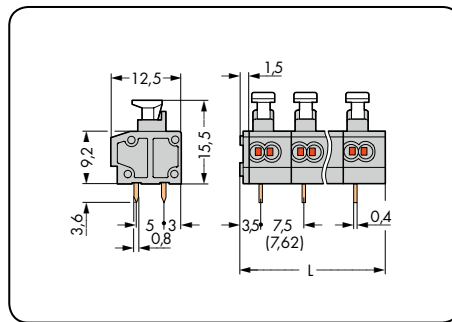
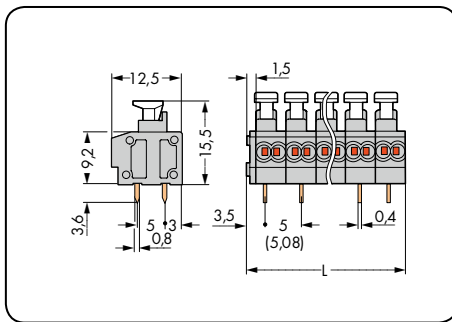
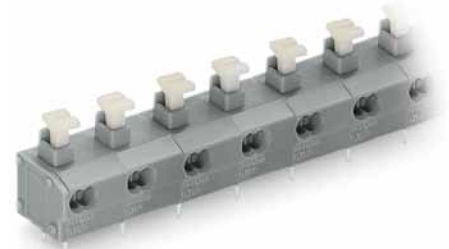
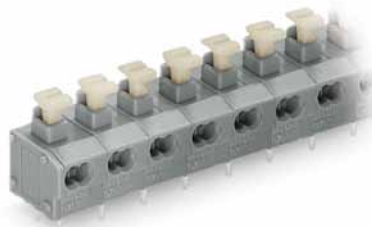
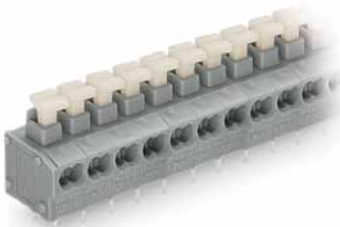
### Page:

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# 2-Conductor PCB Terminal Strips with Push-Buttons 0.75 mm<sup>2</sup>

PUSH WIRE®

Pin spacing 5/5.08 mm / 0.2 in		Pin spacing 7.5/7.62 mm / 0.3 in		Pin spacing 10/10.16 mm / 0.4 in	
2 x 0.25 – 0.75 mm <sup>2</sup> "sol."	2 x AWG 24 – 18 "sol."	2 x 0.25 – 0.75 mm <sup>2</sup> "sol."	2 x AWG 24 – 18 "sol."	2 x 0.25 – 0.75 mm <sup>2</sup> "sol."	2 x AWG 24 – 18 "sol."
320 V/4 kV/2 10 A	300 V/10 A	630 V/6 kV/2 10 A	300 V/10 A	1000 V/8 kV/2 10 A	300 V/10 A



Adjust pin spacing by pulling on the end blocks so that they expand to satisfy the hole centers required.  
L = (pole no. x pin spacing) + 1.5 mm

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
<b>2-conductor terminal strip with push-buttons, 2 solder pins/pole, gray</b>			<b>2-conductor terminal strip with push-buttons, 2 solder pins/pole, gray</b>			<b>2-conductor terminal strip with push-buttons, 2 solder pins/pole, gray</b>		
2	235-452/331-000	420 (4 x 105)	2	235-552/331-000	280 (4 x 70)	2	235-852/331-000	220 (4 x 55)
3	235-453/331-000	280 (4 x 70)	3	235-553/331-000	200 (4 x 50)	3	235-853/331-000	140 (4 x 35)
4	235-454/331-000	220 (4 x 55)	4	235-554/331-000	140 (4 x 35)	4	235-854/331-000	120 (4 x 30)
5	235-455/331-000	180 (4 x 45)	5	235-555/331-000	120 (4 x 30)	5	235-855/331-000	80 (4 x 20)
6	235-456/331-000	140 (4 x 35)	6	235-556/331-000	100 (4 x 25)	6	235-856/331-000	80 (4 x 20)
7	235-457/331-000	120 (4 x 30)	7	235-557/331-000	80 (4 x 20)	7	235-857/331-000	60 (4 x 15)
8	235-458/331-000	100 (4 x 25)	8	235-558/331-000	80 (4 x 20)	8	235-858/331-000	40 (4 x 10)
9	235-459/331-000	100 (4 x 25)	9	235-559/331-000	60 (4 x 15)	9	235-859/331-000	40 (4 x 10)
10	235-460/331-000	80 (4 x 20)	10	235-560/331-000	60 (4 x 15)	10	235-860/331-000	40 (4 x 10)
12	235-462/331-000	80 (4 x 20)	12	235-562/331-000	40 (4 x 10)	12	235-862/331-000	40 (4 x 10)
16	235-466/331-000	60 (4 x 15)	16	235-566/331-000	40 (4 x 10)	16	235-866/331-000	20 (4 x 5)
24	235-474/331-000	40 (4 x 10)	24	235-574/331-000	20 (4 x 5)	24	235-874/331-000	20 (4 x 5)
36	235-486/331-000	20 (4 x 5)						
48	235-498/331-000	20 (4 x 5)						

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

① blue	.../.../331-006	<b>Ordering example:</b> 2-conductor terminal strip, 7.5/7.62 mm pin spacing 16-pole, blue: <b>235-566/331-006</b>
● dark gray	.../.../331-008	
○ light gray	.../.../331-009	
● orange	.../.../331-012	
● light green	.../.../331-017	
① Suitable for Ex i applications (only for 7.5/7.62 mm and 10/10.16 mm pin spacing)		



# Modular PCB Disconnect Terminal Blocks for Test and Measurement 2.5 mm<sup>2</sup> Pin Spacing 5 mm 742 Series



- Modular terminal blocks with screwdriver-actuated CAGE CLAMP®
- Power circuit disconnection via knife disconnect, e.g., for regular testing and measuring
- Test sockets on both sides of knife disconnect for 2.0 mm or Ø 2.3 mm test plugs
- 2- and 3-conductor terminal blocks for distributing potentials independently of PCB
- Versions with removable knife disconnects available upon request

**Technical data:**

Pin Spacing	1-conductor 5 mm / 0.197 in			2-conductor 5 mm / 0.197 in			3-conductor 5 mm / 0.197 in		
	IEC/EN 60664-1			IEC/EN 60664-1			IEC/EN 60664-1		
Rating per	III	III	II	III	III	II	III	III	II
Overtoltage category	3	2	2	3	2	2	3	2	2
Pollution degree	3	2	2	3	2	2	3	2	2
Rated voltage	320 V	320 V	630 V	320 V	320 V	630 V	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV
Nominal current	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A
Approvals per	UL/CSA			UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V	300 V	-	300 V
Nominal current UL	10 A	-	10 A	10 A	-	10 A	10 A	-	10 A
Nominal current CSA	16 A	-	10 A	10 A	-	10 A	10 A	-	10 A

**Conductor and solder pin data:**

Connection technology	CAGE CLAMP®
Conductor size: solid	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with insulated ferrule)
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with uninsulated ferrule)
AWG	28 - 12 (12: THHN, THWN)
Strip length	8 - 9 mm / 0.31 - 0.35 in (for 1-conductor terminal blocks)
Strip length	6 - 7 mm / 0.24 - 0.28 in (for 2- and 3-conductor terminal blocks)
Conductor entry angle	60° to PCB (with 1-conductor terminal blocks)
Conductor entry angle	90° to PCB (with 2- and 3-conductor terminal blocks)
Solder pin: length/width	4 mm / 1 x 0.8 mm
Solder pin: drilled hole diameter	1.4 <sup>+0.05</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

**742 Series accessories:**

**Page:**

Marking accessories	540 - 543
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Test plugs	538

# Modular PCB Disconnect Terminal Blocks for Test and Measurement 2.5 mm<sup>2</sup>

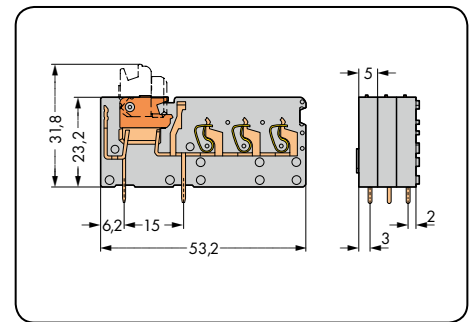
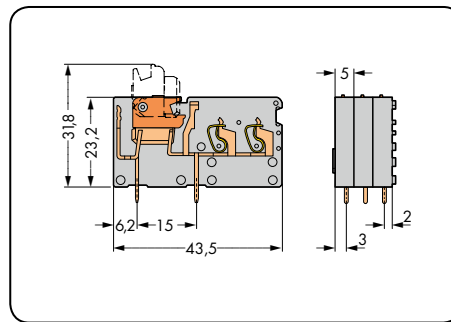
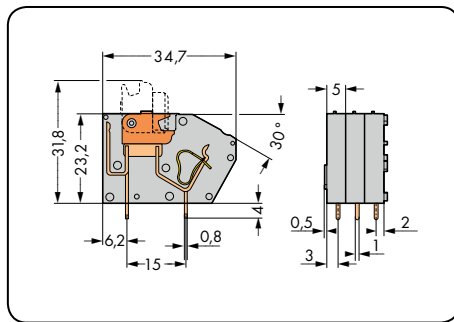
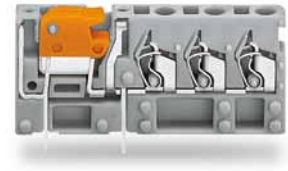
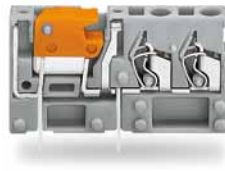
CAGE CLAMP®

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1

1-conductor Pin spacing 5 mm / 0.197 in		2-conductor Pin spacing 5 mm / 0.197 in		3-conductor Pin spacing 5 mm / 0.197 in	
0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 16 A	AWG 28 - 12 300 V/10 A	0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 16 A	AWG 28 - 12 300 V/10 A	0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 16 A	AWG 28 - 12 300 V/10 A



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
1-conductor, modular disconnect terminal block for test and measurement, 2 solder pins/pole, knife disconnect, orange			2-conductor, modular disconnect terminal block for test and measurement, 2 solder pins/pole, knife disconnect,, orange			3-conductor, modular disconnect terminal block for test and measurement, 2 solder pins/pole, knife disconnect, orange		
● gray	<b>742-101</b>	384 (4 x 96)	● gray	<b>742-151</b>	200 (4 x 50)	● gray	<b>742-153</b>	100 (2 x 50)
<b>Accessories</b>			<b>Accessories</b>			<b>Accessories</b>		
End plate, snap-on type, 1.5 mm thick, gray			End plate, snap-on type, 1.5 mm thick, gray			End plate, snap-on type, 1.5 mm thick, gray		
	<b>742-100</b>	300 (3 x 100)		<b>742-150</b>	300 (3 x 100)		<b>742-152</b>	300 (3 x 100)

# Modular PCB Disconnect Terminal Blocks for Test and Measurement 2.5 mm<sup>2</sup> Pin Spacing 5.08 mm

## 742 Series



- Modular terminal blocks with screwdriver-actuated CAGE CLAMP®
- Power circuit disconnection via knife disconnect, e.g., for regular testing and measuring
- Test sockets on both sides of knife disconnect for 2.0 mm or Ø 2.3 mm test plugs
- 2- and 3-conductor terminal blocks for distributing potentials independently of PCB
- Versions with removable knife disconnects available on request

**Technical data:**

Pin Spacing	1-conductor 5.08 mm / 0.2 in			2-conductor 5.08 mm / 0.2 in			3-conductor 5.08 mm / 0.2 in		
	IEC/EN 60664-1			IEC/EN 60664-1			IEC/EN 60664-1		
Rating per	III	III	II	III	III	II	III	III	II
Overtoltage category	3	2	2	3	2	2	3	2	2
Pollution degree	3	2	2	3	2	2	3	2	2
Rated voltage	320 V	320 V	630 V	320 V	320 V	630 V	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV
Nominal current	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A
Approvals per	UL/CSA			UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V	300 V	-	300 V
Nominal current UL	10 A	-	10 A	10 A	-	10 A	10 A	-	10 A
Nominal current CSA	16 A	-	10 A	10 A	-	10 A	10 A	-	10 A

**Conductor and solder pin data:**

Connection technology	CAGE CLAMP®
Conductor size: solid	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with insulated ferrule)
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with uninsulated ferrule)
AWG	28 - 12 (12: THHN, THWN)
Strip length	8 - 9 mm / 0.31 - 0.35 in (for 1-conductor terminal blocks)
Strip length	6 - 7 mm / 0.24 - 0.28 in (for 2- and 3-conductor terminal blocks)
Conductor entry angle	60° to PCB (with 1-conductor terminal blocks)
Conductor entry angle	90° to PCB (with 2- and 3-conductor terminal blocks)
Solder pin: length/width	4 mm / 1 x 0.8 mm
Solder pin: drilled hole diameter	1.4 <sup>+0.05</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

**742 Series accessories:**

**Page:**

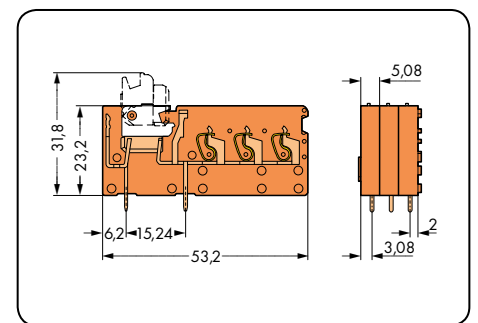
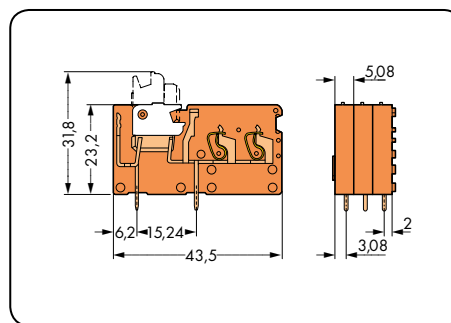
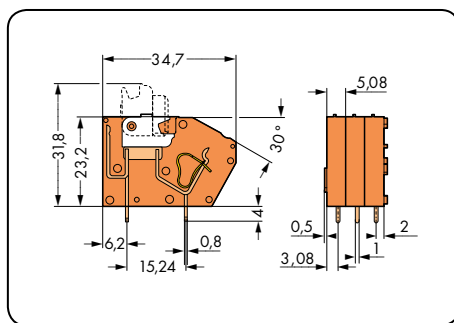
Marking accessories	540 - 543
Operating tools	526 - 528
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# Modular PCB Disconnect Terminal Blocks for Test and Measurement 2.5 mm<sup>2</sup>

CAGE CLAMP®

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187

1-conductor Pin spacing 5.08 mm / 0.2 in		2-conductor Pin spacing 5.08 mm / 0.2 in		3-conductor Pin spacing 5.08 mm / 0.2 in	
0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 16 A	AWG 28 - 12 300 V/10 A	0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 16 A	AWG 28 - 12 300 V/10 A	0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 16 A	AWG 28 - 12 300 V/10 A



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
1-conductor, modular disconnect terminal block for test and measurement, 2 solder pins/pole, knife disconnect, white			2-conductor, modular disconnect terminal block for test and measurement, 2 solder pins/pole, knife disconnect, white			3-conductor, modular disconnect terminal block for test and measurement, 2 solder pins/pole, knife disconnect, white		
orange	742-106	384 (4 x 96)	orange	742-156	200 (4 x 50)	orange	742-158	100 (2 x 50)
Accessories			Accessories			Accessories		
End plate, snap-on type, 1.5 mm thick, orange			End plate, snap-on type, 1.5 mm thick, orange			End plate, snap-on type, 1.5 mm thick, orange		
	742-600	300 (3 x 100)		742-650	300 (3 x 100)		742-651	300 (3 x 100)

# Modular PCB Terminal Blocks with Potential Commoning 2.5 mm<sup>2</sup> Pin Spacing 5 mm 742 Series



- Modular terminal blocks with screwdriver-actuated CAGE CLAMP®
- Adjacent jumpers for multiplying and distributing potentials
- Disconnect and fuse terminal blocks can be combined to form complex function assemblies
- Test socket for Ø 2.0 mm and Ø 2.3 mm test plugs

## Technical data:

Pin Spacing	1-conductor 5 mm / 0.197 in			2-conductor 5 mm / 0.197 in		
	IEC/EN 60664-1			IEC/EN 60664-1		
Rating per						
Overvoltage category	III	III	II	III	III	II
Pollution degree	3	2	2	3	2	2
Rated voltage	250 V	320 V	630 V	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV
Nominal current	16 A	16 A	16 A	16 A	16 A	16 A
Approvals per	UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V
Nominal current UL	10 A	-	10 A	10 A	-	10 A
Nominal current CSA	16 A	-	10 A	10 A	-	10 A

## Conductor and solder pin data:

Connection technology	CAGE CLAMP®
Conductor size: solid	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with insulated ferrule)
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with uninsulated ferrule)
AWG	28 - 12 (12: THHN, THWN)
Strip length	8 - 9 mm / 0.31 - 0.35 in (for 1-conductor terminal blocks)
Strip length	6 - 7 mm / 0.24 - 0.28 in (for 2-conductor terminal blocks)
Conductor entry angle	60° to PCB (for 1-conductor terminal blocks)
Conductor entry angle	90° to PCB (for 2-conductor terminal blocks)
Solder pin: length/width	4 mm / 1 x 0.8 mm
Solder pin: drilled hole diameter	1.4 <sup>+0.05</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

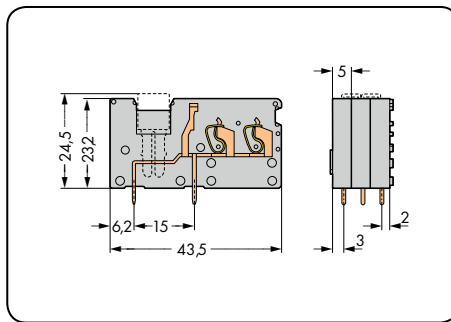
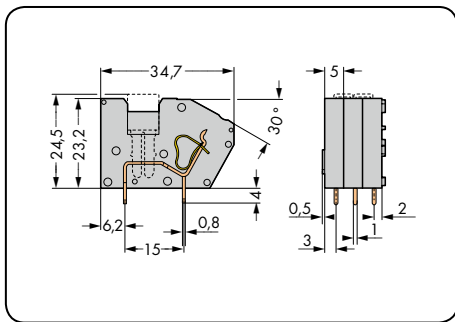
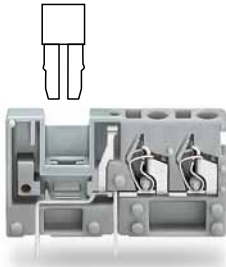
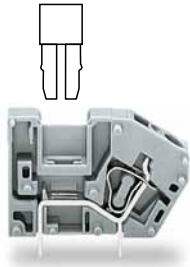
## 742 Series accessories:

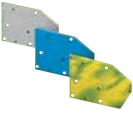
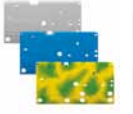

## Page:

Marking accessories	540 - 543
Operating tools	526 - 528
Test plugs	538

# Modular PCB Terminal Blocks with Potential Commoning 2.5 mm<sup>2</sup>

1-conductor Pin spacing 5 mm / 0.197 in		2-conductor Pin spacing 5 mm / 0.197 in	
0.08 - 2.5 mm <sup>2</sup>	AWG 28 - 12	0.08 - 2.5 mm <sup>2</sup>	AWG 28 - 12
320 V/4 kV/2 16 A	300 V/10 A	320 V/4 kV/2 16 A	300 V/10 A



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>1-conductor, modular terminal block with potential commoning, 2 solder pins/pole</b>			<b>2-conductor, modular terminal block with potential commoning, 2 solder pins/pole</b>		
gray	742-121	300	gray	742-171	200
blue	742-124	300	blue	742-174	200
green-yellow	742-128	300	green-yellow	742-178	200
Accessories	Item No.	Pack. Unit	Accessories	Item No.	Pack. Unit
<b>End plate, snap-on type, 1.5 mm thick</b>			<b>End plate, snap-on type, 1.5 mm thick</b>		
	gray 742-100	300 (3 x 100)		gray 742-150	300 (3 x 100)
	blue 742-400	300 (3 x 100)		blue 742-450	300 (3 x 100)
	green-yellow 742-800	300 (3 x 100)		green-yellow 742-850	300 (3 x 100)
<b>Adjacent jumper, insulated, I<sub>N</sub> 24 A</b>					
	gray 280-402	200 (8 x 25)			

# Modular PCB Terminal Blocks with Potential Commoning 2.5 mm<sup>2</sup> Pin Spacing 5.08 mm 742 Series



- Modular terminal blocks with screwdriver-actuated CAGE CLAMP®
- Adjacent jumpers for multiplying and distributing potentials
- Disconnect and fuse terminal blocks can be combined to form complex function assemblies
- Test socket for Ø 2.0 mm and Ø 2.3 mm test plugs

## Technical data:

Pin Spacing	1-conductor 5.08 mm / 0.2 in			2-conductor 5.08 mm / 0.2 in		
	IEC/EN 60664-1			IEC/EN 60664-1		
Rating per	III	III	II	III	III	II
Overtoltage category	3	2	2	3	2	2
Pollution degree	3	2	2	3	2	2
Rated voltage	250 V	320 V	630 V	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV
Nominal current	16 A	16 A	16 A	16 A	16 A	16 A
Approvals per	UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V
Nominal current UL	10 A	-	10 A	10 A	-	10 A
Nominal current CSA	16 A	-	10 A	10 A	-	10 A

## Conductor and solder pin data:

Connection technology	CAGE CLAMP®
Conductor size: solid	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with insulated ferrule)
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with uninsulated ferrule)
AWG	28 - 12 (12: THHN, THWN)
Strip length	8 - 9 mm / 0.31 - 0.35 in (for 1-conductor terminal blocks)
Strip length	6 - 7 mm / 0.24 - 0.28 in (for 2-conductor terminal blocks)
Conductor entry angle	60° to PCB (for 1-conductor terminal blocks)
Conductor entry angle	90° to PCB (for 2-conductor terminal blocks)
Solder pin: length/width	4 mm / 1 x 0.8 mm
Solder pin: drilled hole diameter	1.4 <sup>+0.05</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

## 742 Series accessories:

## Page:

Marking accessories	540 - 543
Operating tools	526 - 528
Test plugs	538

# Modular PCB Terminal Blocks with Potential Commoning 2.5 mm<sup>2</sup>

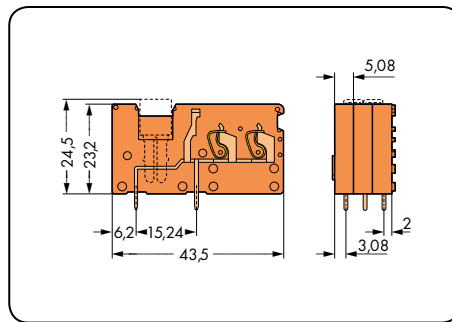
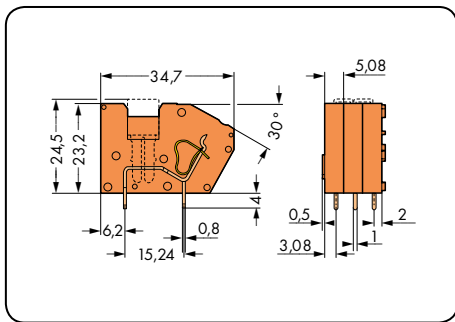
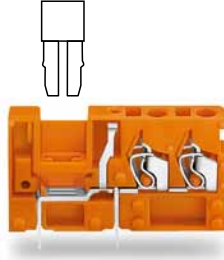
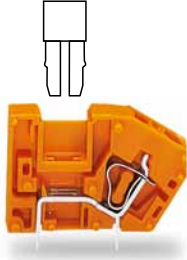
CAGE CLAMP®




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1-conductor Pin spacing 5.08 mm / 0.2 in		2-conductor Pin spacing 5.08 mm / 0.2 in	
0.08 - 2.5 mm <sup>2</sup>	AWG 28 - 12	0.08 - 2.5 mm <sup>2</sup>	AWG 28 - 12
320 V/4 kV/2 16 A	300 V/10 A	320 V/4 kV/2 16 A	300 V/10 A



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
1-conductor, modular terminal block with potential commoning, 2 solder pins/pole			2-conductor, modular terminal block with potential commoning, 2 solder pins/pole		
● orange	742-126	300	● orange	742-176	200
Accessories			Accessories		
End plate, snap-on type, 1.5 mm thick, orange			End plate, snap-on type, 1.5 mm thick, orange		
	742-600	300 (3 x 100)		742-650	300 (3 x 100)
Adjacent jumper, insulated, I <sub>N</sub> 24 A, gray					
	280-402	200 (8 x 25)			

# Modular PCB Fuse Terminal Blocks 2.5 mm<sup>2</sup> Pin Spacing 5 mm 742 Series



- Modular terminal blocks with screwdriver-actuated CAGE CLAMP®
- Quick, easy replacement of mini-automotive blade-style fuses in the event of a fault
- Test sockets on both sides of knife disconnect for  
Ø 2.0 mm or Ø 2.3 mm test plugs
- Protection against direct contact is required for voltages above 42 V
- 2- and 3-conductor terminal blocks for distributing potentials independent of PCB

## Technical data:

Pin Spacing	1-conductor 5 mm / 0.197 in			2-conductor 5 mm / 0.197 in			3-conductor 5 mm / 0.197 in		
	IEC/EN 60664-1			IEC/EN 60664-1			IEC/EN 60664-1		
Rating per	III	III	II	III	III	II	III	III	II
Overtoltage category	3	2	2	3	2	2	3	2	2
Pollution degree	3	2	2	3	2	2	3	2	2
Rated voltage	320 V	320 V	630 V	320 V	320 V	630 V	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV
Nominal current in indiv. arrangement	15 A	15 A	15 A	15 A	15 A	15 A	15 A	15 A	15 A
Nominal current in block arrangement	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A
Approvals per	UL/CSA			UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V	300 V	-	300 V
Nominal current UL	10 A	-	10 A	10 A	-	10 A	10 A	-	10 A
Nominal current CSA	16 A	-	10 A	10 A	-	10 A	10 A	-	10 A

## Conductor and solder pin data:

Connection technology	CAGE CLAMP®
Conductor size: solid	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with insulated ferrule)
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with uninsulated ferrule)
AWG	28 - 12 (12: THHN, THWN)
Strip length	8 - 9 mm / 0.31 - 0.35 in (for 1-conductor terminal blocks)
Strip length	6 - 7 mm / 0.24 - 0.28 in (for 2- and 3-conductor terminal blocks)
Conductor entry angle	60° to PCB (for 1-conductor terminal blocks)
Conductor entry angle	90° to PCB (for 2- and 3-conductor terminal blocks)
Solder pin: length/width	4 mm / 1 x 0.8 mm
Solder pin: drilled hole diameter	1.4 <sup>+0.05</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

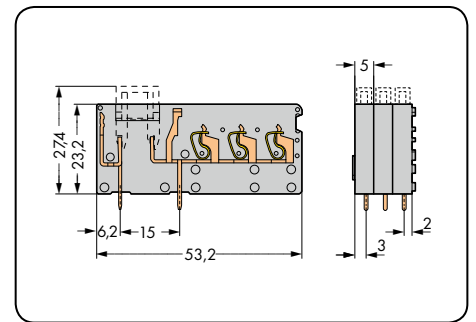
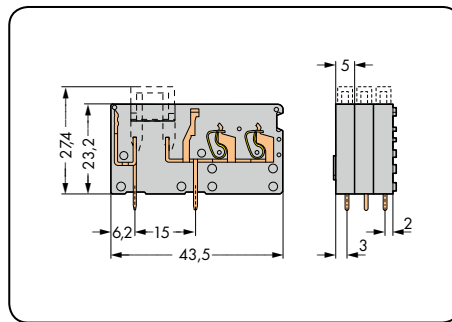
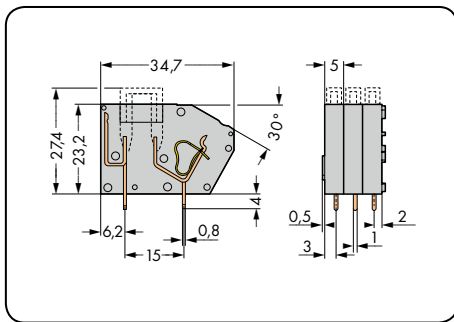
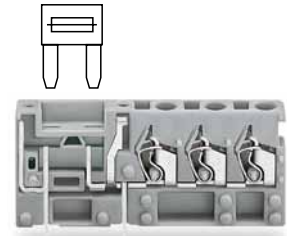
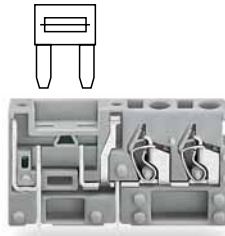
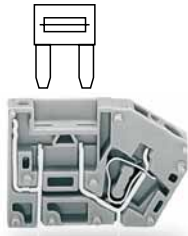
## 742 Series accessories:

## Page:

Marking accessories	540 - 543
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Test plugs	538
Automotive blade-style fuses based on DIN 72581-3f	
Example supplier: <a href="http://www.littelfuse.de">www.littelfuse.de</a>	

Nominal current ratings for fuse cartridges are defined differently in international standards. This is why the recommended continuous current-carrying capacity of the fuses is max. 80% of their nominal current according to DIN 72581 part 3 (with an ambient temperature of 23 °C). Selecting the correct fuse cartridge is important for the product safety of the devices and the service life/reliability of the fuses. Fuse cartridges will only operate perfectly as protection components (rated break point) if they are properly selected and used as intended (i.e., according to the state of the technology and valid specifications, as well as data sheet characteristics), according to basic safety requirements (i.e., persons, animals and property must be protected against hazards). Depending on the application requirements (product safety), the fuse in the device to be protected must generally be tested both under normal and faulty operating conditions.

1-conductor Pin spacing 5 mm / 0.197 in		2-conductor Pin spacing 5 mm / 0.197 in		3-conductor Pin spacing 5 mm / 0.197 in	
0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 15 A	AWG 28 - 12 300 V/10 A	0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 15 A	AWG 28 - 12 300 V/10 A	0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 15 A	AWG 28 - 12 300 V/10 A



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>1-conductor modular fuse terminal block, 2 solder pins/pole</b>			<b>2-conductor modular fuse terminal block, 2 solder pins/pole</b>			<b>3-conductor modular fuse terminal block, 2 solder pins/pole</b>		
● gray	<b>742-111</b>	300	● gray	<b>742-161</b>	200	● gray	<b>742-163</b>	100
<b>Accessories</b>			<b>Accessories</b>			<b>Accessories</b>		
<b>End plate, snap-on type, 1.5 mm thick, gray</b>			<b>End plate, snap-on type, 1.5 mm thick, gray</b>			<b>End plate, snap-on type, 1.5 mm thick, gray</b>		
	<b>742-100</b>	300 (3 x 100)		<b>742-150</b>	300 (3 x 100)		<b>742-152</b>	300 (3 x 100)

# Modular PCB Fuse Terminal Blocks 2.5 mm<sup>2</sup> Pin Spacing 5.08 mm 742 Series



- Modular terminal blocks with screwdriver-actuated CAGE CLAMP®
- Quick, easy replacement of mini-automotive blade-style fuses in the event of a fault
- Test sockets on both sides of knife disconnect for Ø 2.0 mm or Ø 2.3 mm test plugs
- Protection against direct contact is required for voltages above 42 V
- 2 and 3-conductor terminal blocks for potential distribution independent of PCB

**Technical data:**

Pin Spacing	1-conductor 5.08 mm / 0.2 in			2-conductor 5.08 mm / 0.2 in			3-conductor 5.08 mm / 0.2 in		
	IEC/EN 60664-1			IEC/EN 60664-1			IEC/EN 60664-1		
Rating per	III	III	II	III	III	II	III	III	II
Overtoltage category	3	2	2	3	2	2	3	2	2
Pollution degree	3	2	2	3	2	2	3	2	2
Rated voltage	320 V	320 V	630 V	320 V	320 V	630 V	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV
Nominal current in indiv. arrangement	15 A	15 A	15 A	15 A	15 A	15 A	15 A	15 A	15 A
Nominal current in block arrangement	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A
Approvals per	UL/CSA			UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V	300 V	-	300 V
Nominal current UL	10 A	-	10 A	10 A	-	10 A	10 A	-	10 A
Nominal current CSA	16 A	-	10 A	10 A	-	10 A	10 A	-	10 A

**Conductor and solder pin data:**

Connection technology	CAGE CLAMP®
Conductor size: solid	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.08 - 2.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with insulated ferrule)
Conductor size: fine-stranded	0.25 - 1.5 mm <sup>2</sup> (with uninsulated ferrule)
AWG	28 - 12 (12: THHN, THWN)
Strip length	8 - 9 mm / 0.31 - 0.35 in (for 1-conductor terminal blocks)
Strip length	6 - 7 mm / 0.24 - 0.28 in (for 2- and 3-conductor terminal blocks)
Conductor entry angle	60° to PCB (for 1-conductor terminal blocks)
Conductor entry angle	90° to PCB (for 2- and 3-conductor terminal blocks)
Solder pin: length/width	4 mm / 1 x 0.8 mm
Solder pin: drilled hole diameter	1.4 <sup>+0.05</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

**742 Series accessories:**

**Page:**

Marking accessories	540 - 543
Operating tools	526 - 528
Test plugs	538
Blade-type fuse cartridges based on DIN 72581-3f	
Example supplier: <a href="http://www.littelfuse.de">www.littelfuse.de</a>	

Nominal current ratings for fuse cartridges are defined differently in international standards. This is why the recommended continuous current-carrying capacity of the fuses is max. 80% of their nominal current according to DIN 72581 part 3 (with an ambient temperature of 23 °C). Selecting the correct fuse cartridge is important for the product safety of the devices and the service life/reliability of the fuses. Fuse cartridges will only operate perfectly as protection components (rated break point) if they are properly selected and used as intended (i.e., according to the state of the technology and valid specifications, as well as data sheet characteristics), according to basic safety requirements (i.e., persons, animals and property must be protected against hazards). Depending on the application requirements (product safety), the fuse in the device to be protected must generally be tested both under normal and faulty operating conditions.

# Modular PCB Fuse Terminal Blocks 2.5 mm<sup>2</sup>

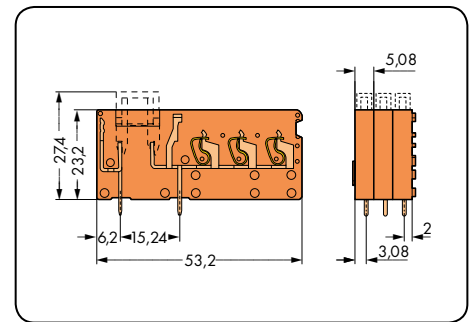
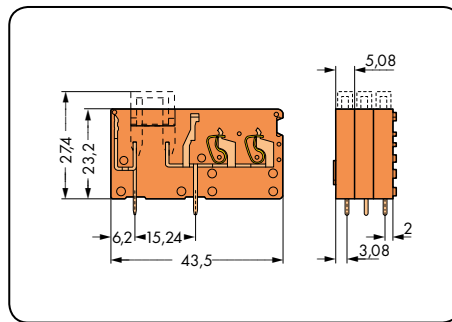
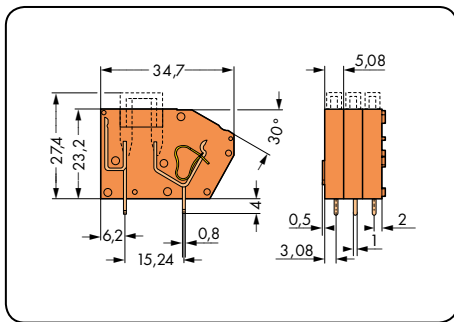
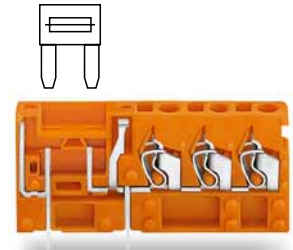
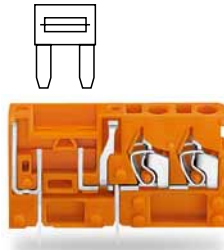
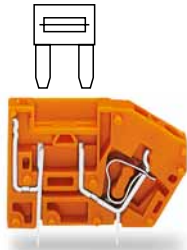
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1-conductor Pin spacing 5.08 mm / 0.2 in		2-conductor Pin spacing 5.08 mm / 0.2 in		3-conductor Pin spacing 5.08 mm / 0.2 in	
0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 15 A	AWG 28 - 12 300 V/10 A	0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 15 A	AWG 28 - 12 300 V/10 A	0.08 - 2.5 mm <sup>2</sup> 320 V/4 kV/2 15 A	AWG 28 - 12 300 V/10 A



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
1-conductor modular fuse terminal block, 2 solder pins/pole			2-conductor modular fuse terminal block, 2 solder pins/pole			3-conductor modular fuse terminal block, 2 solder pins/pole		
orange	742-116	300	orange	742-166	200	orange	742-168	100
Accessories			Accessories			Accessories		
End plate, snap-on type, 1.5 mm thick, orange			End plate, snap-on type, 1.5 mm thick, orange			End plate, snap-on type, 1.5 mm thick, orange		
	742-600	300 (3 x 100)		742-650	300 (3 x 100)		742-651	300 (3 x 100)

# Modular Test Plug Adapters for 255, 256 and 257 Series PCB Terminal Blocks

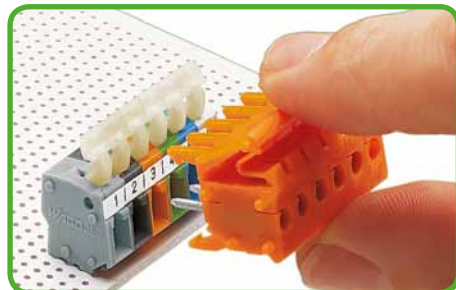
Pin spacing		Pin spacing	
5 mm / 0.197 in	320 V/2.5 kV/2 (II) 6 A	5.08 mm / 0.2 in	320 V/2.5 kV/2 (II) 6 A
7.5 mm / 0.295 in	630 V/ 4 kV/2 (II) 6 A	7.62 mm / 0.3 in	630 V/ 4 kV/2 (II) 6 A
10 mm / 0.394 in	1000 V/ 6 kV/2 (II) 6 A	10.16 mm / 0.4 in	1000 V/ 6 kV/2 (II) 6 A



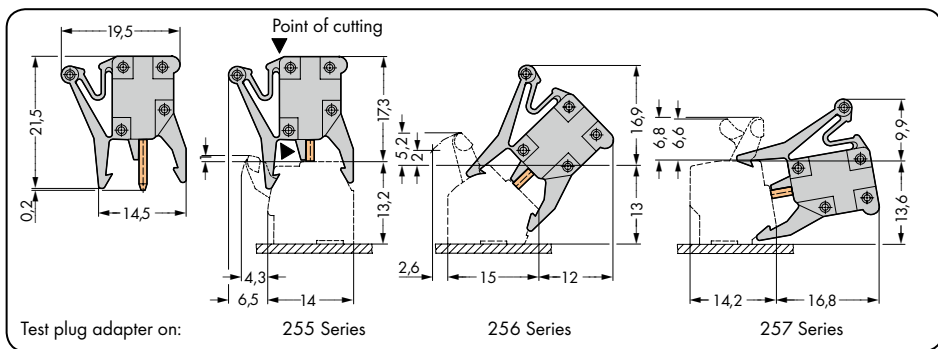
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Test plug adapter, 1-pole, modular, socket for Ø 2 mm and Ø 2.3 mm test plugs			Test plug adapter, 1-pole, modular, socket for Ø 2 mm and Ø 2.3 mm test plugs		
Pin spacing 5 mm / 0.197 in			Pin spacing 5.08 mm / 0.2 in		
gray	249-110	100 (4 x 25)	orange	249-111	100 (4 x 25)
Pin spacing 7.5 mm / 0.295 in			Pin spacing 7.62 mm / 0.3 in		
gray	249-112	100 (4 x 25)	orange	249-113	100 (4 x 25)
Pin spacing 10 mm / 0.394 in			Pin spacing 10.16 mm / 0.4 in		
gray	249-114	100 (4 x 25)	orange	249-115	100 (4 x 25)
<b>Accessories</b>			<b>Item No.</b>		<b>Page:</b>
Test plug, with 500 mm cable, Ø 2.3 mm, yellow			210-137		502
Test plug, with 500 mm cable, Ø 2 mm, red			210-136		502



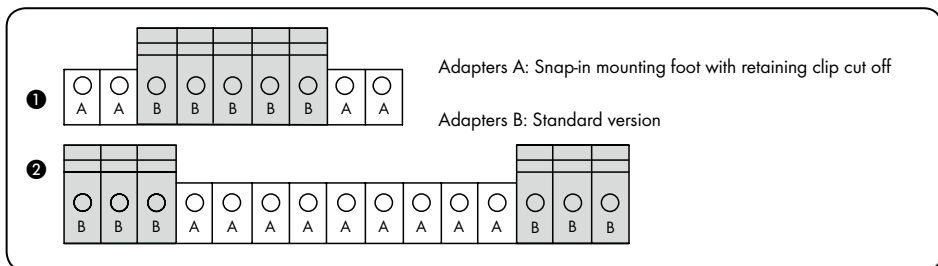
Assembling a multipole test plug adapter.



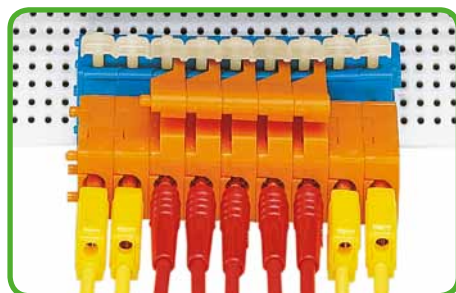
Inserting a test plug adapter into a terminal strip.



Testing terminal blocks with terminated conductors.



For lengths longer than 7 poles, the feet and retaining clip should be cut off!  
 ① Adapters with mounting foot cut off assembled on both ends (7 to 9 poles)  
 ② Adapters with mounting foot cut off in center position (10 to 15 poles)



9-pole test plug adapter, - external mounting feet with retaining clip cut off.

# Comb-Style Jumper Bars for 745, 2706 and 2716 Series PCB Terminal Blocks

Comb-style jumper bar for 745 Series – 4 mm<sup>2</sup>

Comb-style jumper bar for 745 Series – 6 mm<sup>2</sup> and 2706 Series

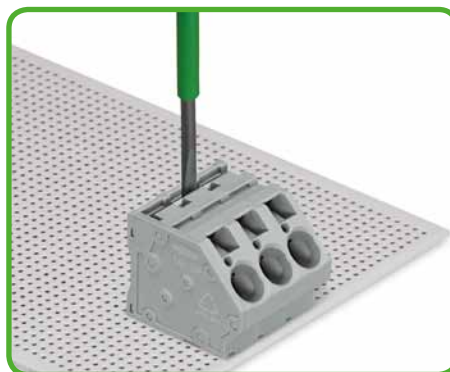
Comb-style jumper bar for 745 Series – 16 mm<sup>2</sup> and 2716 Series



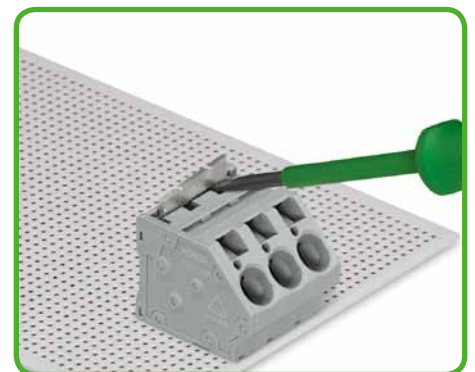
Jumper Type	Item No.	Pack. Unit	Jumper Type	Item No.	Pack. Unit	Jumper Type	Item No.	Pack. Unit
<b>Pin spacing 5 mm</b> for 745 Series – 4 mm <sup>2</sup>			<b>Pin spacing 7.5 mm</b> for 745 Series – 6 mm <sup>2</sup> and 2706 Series			<b>Pin spacing 10 mm</b> for 745 Series – 16 mm <sup>2</sup> and 2716 Series		
1 to 3	<b>745-181</b>	250 (5 x 50)	1 to 3	<b>745-381</b>	250 (5 x 50)	1 to 3	<b>745-682</b>	400 (8 x 50)
2-way	<b>745-182</b>	250 (5 x 50)	2-way	<b>745-382</b>	250 (5 x 50)	2-way	<b>745-582</b>	400 (8 x 50)
3-way	<b>745-183</b>	250 (5 x 50)	3-way	<b>745-383</b>	250 (5 x 50)	3-way	<b>745-583</b>	300 (6 x 50)
4-way	<b>745-184</b>	200 (4 x 50)	4-way	<b>745-384</b>	200 (4 x 50)	4-way	<b>745-584</b>	200 (4 x 50)
5-way	<b>745-185</b>	200 (4 x 50)	5-way	<b>745-385</b>	200 (4 x 50)	5-way	<b>745-585</b>	200 (4 x 50)
10-way	<b>745-180</b>	200 (4 x 50)	10-way	<b>745-380</b>	200 (4 x 50)			
<b>Pin spacing 7.5 mm</b> for 745 Series – 4 mm <sup>2</sup>			<b>Pin spacing 10 mm</b> for 745 Series – 6 mm <sup>2</sup> and 2706 Series			<b>Pin spacing 15 mm</b> for 745 Series – 16 mm <sup>2</sup> and 2716 Series		
1 to 3	<b>745-191</b>	250 (5 x 50)	1 to 3	<b>745-391</b>	250 (5 x 50)	1 to 3	<b>745-631</b>	200 (4 x 50)
2-way	<b>745-192</b>	250 (5 x 50)	2-way	<b>745-392</b>	250 (5 x 50)	2-way	<b>745-632</b>	200 (4 x 50)
3-way	<b>745-193</b>	250 (5 x 50)	3-way	<b>745-393</b>	250 (5 x 50)	3-way	<b>745-633</b>	200 (4 x 50)
4-way	<b>745-194</b>	200 (4 x 50)	4-way	<b>745-394</b>	200 (4 x 50)	4-way	<b>745-634</b>	200 (4 x 50)
5-way	<b>745-195</b>	200 (4 x 50)	5-way	<b>745-395</b>	200 (4 x 50)	5-way	<b>745-635</b>	200 (4 x 50)
10-way	<b>745-190</b>	200 (4 x 50)	10-way	<b>745-390</b>	200 (4 x 50)			
<b>Pin spacing 10 mm</b> for 745 Series – 4 mm <sup>2</sup>						<b>Pin spacing 20 mm</b> for 745 Series – 16 mm <sup>2</sup> and 2716 Series		
1 to 3	<b>745-281</b>	250 (5 x 50)				1 to 3	<b>745-681</b>	300 (6 x 50)
2-way	<b>745-282</b>	250 (5 x 50)				2-way	<b>745-682</b>	400 (8 x 50)
3-way	<b>745-283</b>	250 (5 x 50)				3-way	<b>745-683</b>	200 (4 x 50)
4-way	<b>745-284</b>	200 (4 x 50)				4-way	<b>745-684</b>	200 (4 x 50)
5-way	<b>745-285</b>	200 (4 x 50)				5-way	<b>745-685</b>	200 (4 x 50)
10-way	<b>745-280</b>	150 (8 x 50)						



Insert the comb-style jumper bar ...





... and push it down firmly using a screwdriver until it hits the backstop – 745 Series.



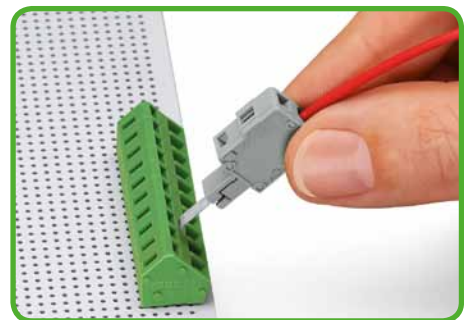
To remove the comb-style jumper bar, lift it up using a screwdriver – 745 Series.

# 1 Test Plug Modules, A-Type Contact, for 236, 736, 737 and 738 Series PCB Terminal Blocks (testing without terminated conductors)

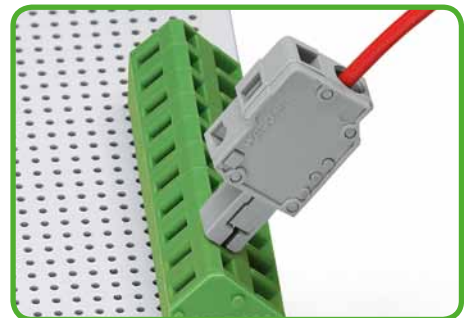
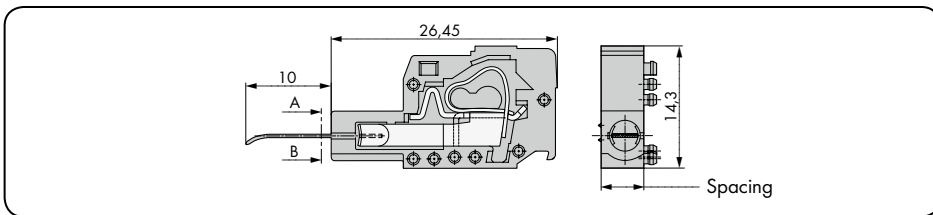
<b>Pin spacing 5 mm / 0.197 in</b> <b>Pin spacing 7.5 mm / 0.295 in</b> 0.08 – 2.5 mm <sup>2</sup>   AWG 28 – 12 250 V / 2.5 kV / 2 (II)* 0.5 A  12 – 13 mm / 0.47 – 0.51 in	<b>Pin spacing 5.08 mm / 0.2 in</b> <b>Pin spacing 7.62 mm / 0.3 in</b> 0.08 – 2.5 mm <sup>2</sup>   AWG 28 – 12 250 V / 2.5 kV / 2 (II)* 0.5 A  12 – 13 mm / 0.47 – 0.51 in
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Test plug module with 10 mm contact lug, can be snapped together, for 236 Series</b>			<b>Test plug module with 10 mm contact lug, can be snapped together, for 236 Series</b>		
<b>Pin spacing 5 mm / 0.197 in</b>			<b>Pin spacing 5.08 mm / 0.2 in</b>		
● gray	<b>231-127</b>	100	● orange	<b>231-128</b>	100
<b>Pin spacing 7.5 mm / 0.295 in</b>			<b>Pin spacing 7.62 mm / 0.3 in</b>		
● gray	<b>231-161</b>	100	● orange	<b>231-125</b>	100

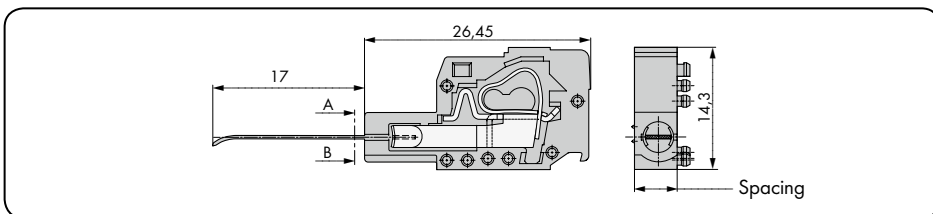


Inserting a test plug module into the operating slot.





Test plug module inserted, conductors not terminated.

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Test plug module with 17 mm contact lug, can be snapped together, for 280, 736, 737, 738 and 780 Series</b>			<b>Test plug module with 17 mm contact lug, can be snapped together, for 736, 737 and 738 Series</b>		
<b>Pin spacing 5 mm / 0.197 in</b>			<b>Pin spacing 5.08 mm / 0.2 in</b>		
● gray	<b>231-126</b>	100	● orange	<b>231-426</b>	100





**Contact type A**  
Testing only in unwired condition.

Accessories	Item No.	Pack. Unit	Accessories	Item No.	Pack. Unit
<b>End plate, gray</b> 	<b>231-100</b>	200 (2 x 100)	<b>End plate, orange</b> 	<b>231-300</b>	200 (2 x 100)



\* Observe protection against direct contact for voltages of 42 V and higher!

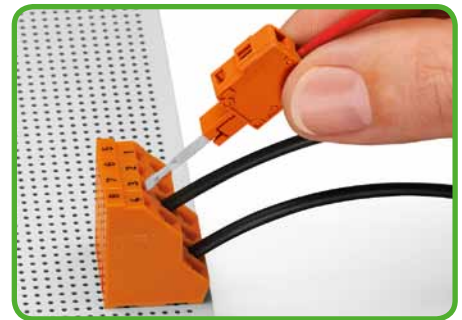
# Test Plug Modules, B-Type Contact, for 736, 737 and 738 Series PCB Terminal Blocks

(Testing with terminated 0.75 mm<sup>2</sup> - 1.5 mm<sup>2</sup> "f-st" or 0.5 mm<sup>2</sup> "sol." conductors)

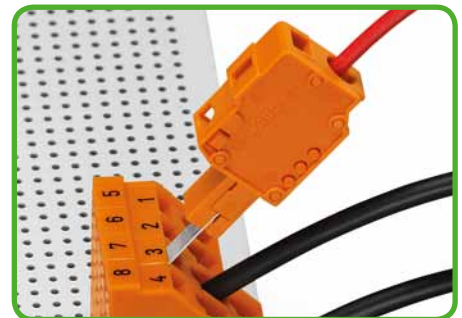
<p><b>Pin spacing 5 mm / 0.197 in</b>  <b>Pin spacing 7.5 mm / 0.295 in</b></p> <p>0.08 - 2.5 mm<sup>2</sup>   AWG 28 - 12          250 V / 2.5 kV / 2 (II)* 0.5 A</p> <p> 12 - 13 mm / 0.47 - 0.51 in</p>	<p><b>Pin spacing 5.08 mm / 0.2 in</b></p> <p>0.08 - 2.5 mm<sup>2</sup>   AWG 28 - 12          250 V / 2.5 kV / 2 (II)* 0.5 A</p> <p> 12 - 13 mm / 0.47 - 0.51 in</p>	
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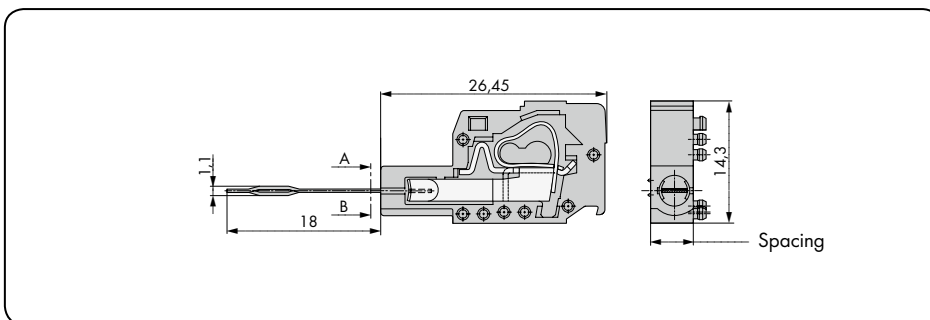
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Test plug module</b> with 18 mm contact lug, can be snapped together, for 280, 736, 737, 738 and 780 Series			<b>Test plug module</b> with 18 mm contact lug, can be snapped together, for 736, 737 and 738 Series		
<b>Pin spacing 5 mm / 0.197 in</b>			<b>Pin spacing 5.08 mm / 0.2 in</b>		
● gray	<b>231-155</b>	100	● orange	<b>231-455</b>	100
<b>Test plug module</b> with 18 mm contact lug, can be snapped together, for 736 and 737 Series					
<b>Pin spacing 7.5 mm / 0.295 in</b>					
● gray	<b>231-456</b>	100			
Accessories	Item No.	Pack. Unit	Accessories	Item No.	Pack. Unit
<b>End plate, gray</b> 	<b>231-100</b>	200 (2 x 100)	<b>End plate, orange</b> 	<b>231-300</b>	200 (2 x 100)



Inserting a test plug module into the operating slot.



Test plug module inserted, with terminated conductors.



**Contact type B**  
 Testing only with terminated 0.75 mm<sup>2</sup> - 1.5 mm<sup>2</sup> "f-st" or 0.5 mm<sup>2</sup> "sol." conductors.

\* Observe protection against direct contact for voltages of 42 V and higher!