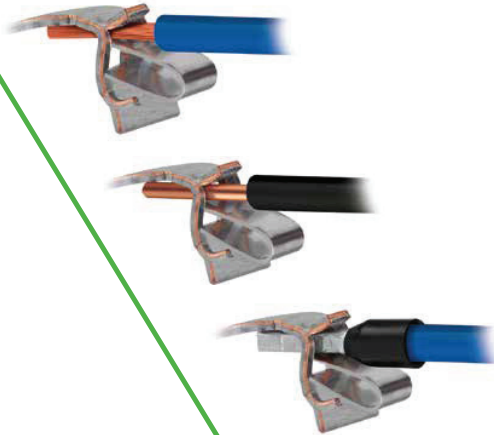


CAGE CLAMP[®]S

The universal connection with "SPECIAL"

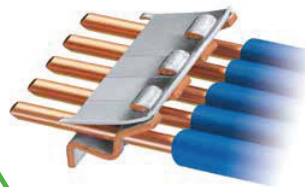
Handling: Open clamping unit, insert the conductor, release clamp – done!

Terminate both solid and ferruled conductors by simply pushing them in – no operating tool needed.

**PUSH WIRE[®]**

PUSH WIRE[®] connection for solid and stranded conductors (depending on model used)

Tool-free, twist-free terminations for solid and rigid stranded conductors – simply push into unit.



8



2-Conductor Compact PCB Connectors, PUSH WIRE®
 3.5 mm Pin Spacing
 0.4-0.8 mm Ø "sol."



2-Conductor PCB Connector Strips (Pinstrip Pluggable), CAGE CLAMP® S
 5 mm Pin Spacing
 2 x 0.2-1.5 mm



4-Conductor Modular PCB Connectors, PUSH WIRE®
 5.75 mm Pin Spacing
 0.4-0.8 mm Ø "sol."



Accessories, General — Section 12

Series Pages

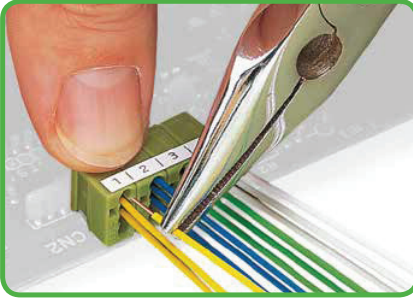
252 508 - 509

806 510 - 511

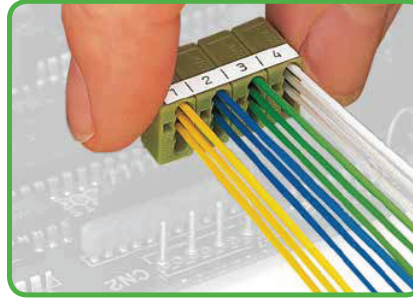
243 512 - 513

554 - 576

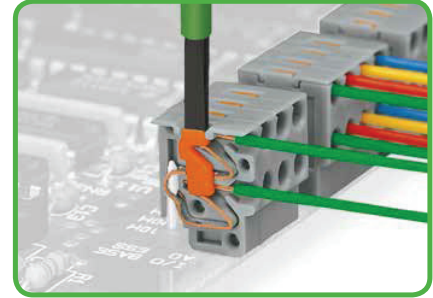
Description and Handling Pluggable PCB Connectors 252 and 243 Series



Inserting conductor using pliers until it hits backstop – directly on the PCB ...
... or wiring prior to mounting on PCB.

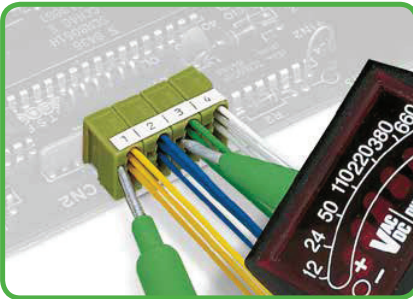


Removing modular PCB connector strip to replace the board.

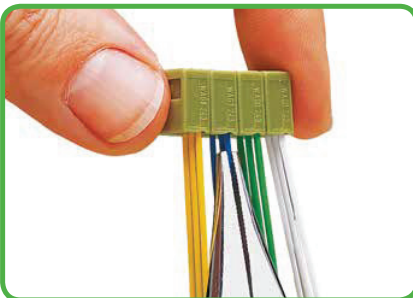


Removing conductors via push-button – 252 Series

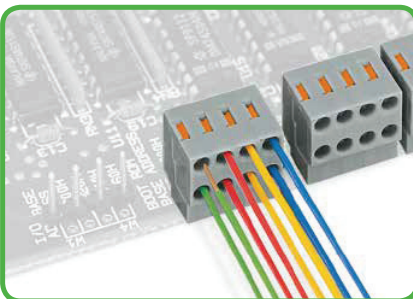
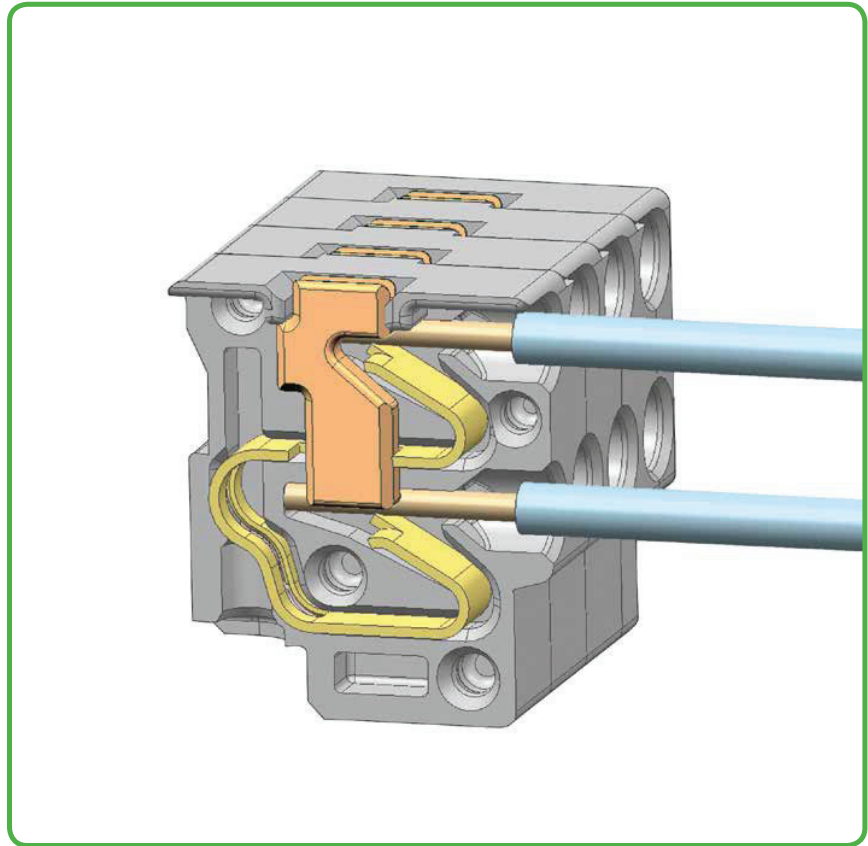
252 Series



Testing – 243 Series



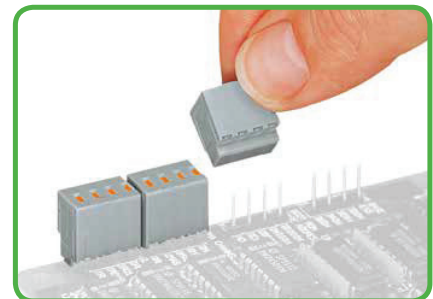
Removing conductor using pliers, twisting alternately left and right – 243 Series



Conductor termination directly on the PCB or wiring prior to mounting on PCB – 252 Series



Solder pin strip with strain relief, 4-pole



Plugging a compact PCB connector – 252 Series

PUSH WIRE® terminates the following copper conductors:*



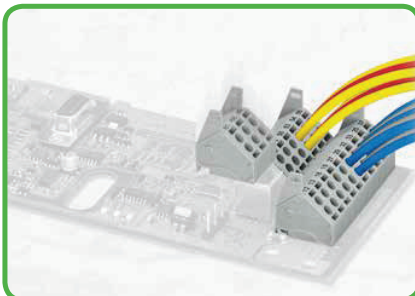
solid

* For aluminum conductors, see notes in Section 13.

Description and Handling Pluggable PCB Connectors 806 Series



Inserting solid conductors via push-in termination.
Inserting/removing fine-stranded conductors: Open clamping unit using a screwdriver and insert stripped conductor until it hits backstop.

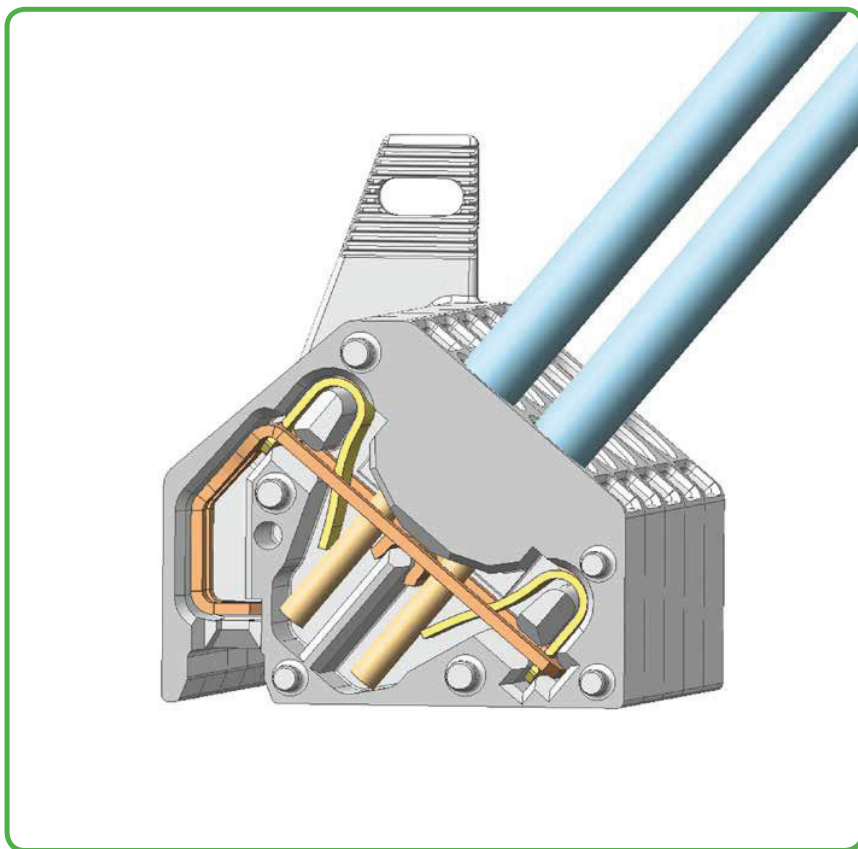


Conductor termination directly on the PCB ...
... or pre-assembled.



Mixed-color terminal strips (with or without spacer) available upon request.

806 Series



CAGE CLAMP®S terminates the following copper conductors:*



solid



stranded



fine-stranded,
also with tinned
single strands



fine-stranded,
tip-bonded



fine-stranded,
with ferrules
(gastight crimped)

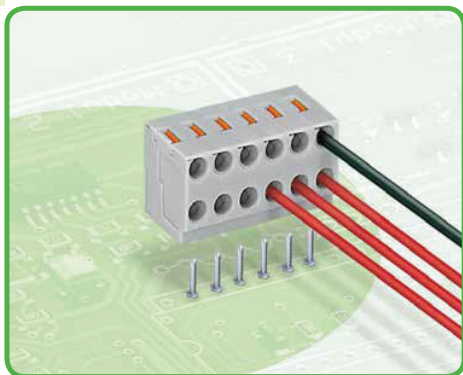


fine-stranded,
with pin terminal
(gastight crimped)

2-Conductor Compact PCB Connectors

Pin Spacing: 3.5 mm

252 Series



- Two-conductor, compact PCB connectors with push-buttons and PUSH WIRE® connection
- Simple push-in termination for solid conductors – conductor removal via push-buttons
- Double entries for supply and power distribution
- Quick and easy PCB replacement
- Loop connection is retained, even when unmated
- Group arrangement is possible without losing any poles

Technical data:

Pin Spacing	3.5 mm 0.138 in.				
Ratings 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	2 A	2 A	2 A		
Approvals per	UL/CSA				
Use group UL 1059	B	C	D		
Rated voltage	300 V	-	300 V		
Nominal current UL	2 A	-	2 A		
Nominal current CSA	-	-	-		

Conductor and solder pin data:

Connection technology	PUSH WIRE®
Conductor size: solid	2 x 0.4-0.8 mm Ø
AWG	26-20 "sol."
Strip length	6-7 mm / 0.24-0.28 in.
Conductor entry angle	0° to PCB
Solder pin: length/diameter	3.5 mm/1 mm (solder pin strip)
Solder pin: length/diameter	4.5 mm/1 mm (individual solder pins)
Solder pin: drilled hole diameter	1.2 ^{+0.05} mm

Material data:

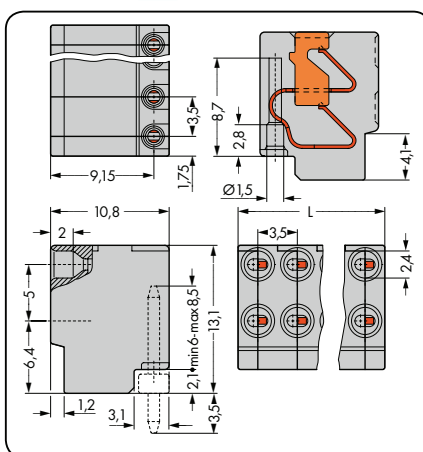
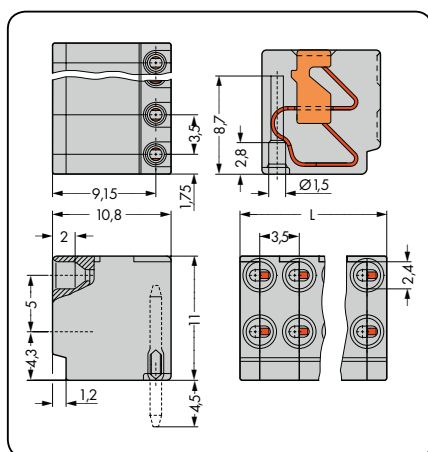
Material group	I
Insulating material	Polyamide 6.6 (PA 6.6)
Flammability rating per UL 94	0V
Lower/Upper limit temperature	-60 °C / +105 °C
Clamping spring material	Copper alloy
Contact plating	tin-plated

252 Series accessories:



Pages:

Marking accessories	570 - 573
Operating tools	556

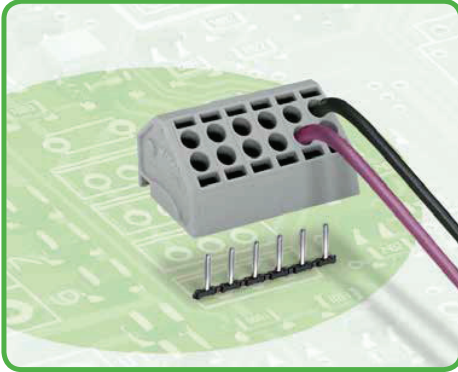
For individual solder pins Pin spacing: 3.5 mm / 0.138 in.		For solder pin strips Pin spacing: 3.5 mm / 0.138 in.		Solder pin strips
2 x 0.4-0.8 mm Ø "sol."	2 x 26-20 AWG "sol."	2 x 0.4-0.8 mm Ø "sol."	2 x 26-20 AWG "sol."	
320 V/ 4 kV/2 2 A	300 V/2 A	320 V/ 4 kV/2 2 A	300 V/2 A	



L = pole no. x pin spacing

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
2-conductor compact PCB connector for individual solder pins, gray			2-conductor compact PCB connector for solder pin strips, gray			Solder pin strip		
2	252-102	600 (6 x 100)	2	252-152	600 (6 x 100)	2	252-902	500
3	252-103	400 (4 x 100)	3	252-153	400 (4 x 100)	3	252-903	500
4	252-104	300 (3 x 100)	4	252-154	300 (3 x 100)	4	252-904	500
5	252-105	300 (3 x 100)	5	252-155	300 (3 x 100)	5	252-905	500
6	252-106	200 (2 x 100)	6	252-156	200 (2 x 100)	6	252-906	500
7	252-107	200 (2 x 100)	7	252-157	200 (2 x 100)	7	252-907	500
8	252-108	200 (2 x 100)	8	252-158	200 (2 x 100)	8	252-908	500
9	252-109	200 (2 x 100)	9	252-159	200 (2 x 100)	9	252-909	500
10	252-110	150 (3 x 50)	10	252-160	150 (3 x 50)	10	252-910	500
Accessories			Accessories					
Solder pin, 1 x 8.5 mm Ø for PCBs up to 2 mm thick			Solder pin strip with strain relief, 4-pole					
								
243-131 1000			252-954 1000					

2-Conductor PCB Connector Strips (Pinstrip Pluggable) 1.5 mm² Pin Spacing: 5 mm 806 Series



- Compact, 2-conductor PCB connector strips with screwdriver-actuated CAGE CLAMP® S
- Simple push-in termination for solid and ferruled conductors
- Double entries for power supply and potential distribution
- Quick and easy PCB replacement, without disrupting looped-through potentials

Technical data:

Pin Spacing	5 mm 0.197 in.				
Ratings 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 UL 1059	B	C	D		
Rated voltage	300 V	-	300 V		
Nominal current UL	10 A	-	10 A		
Nominal current CSA	10 A	-	-		

Conductor and solder pin data:

Connection technology	CAGE CLAMP® S	
Conductor size: solid	2 x 0.2-1.5 mm ²	
Conductor size: fine-stranded	2 x 0.2-1.5 mm ²	
Conductor size: fine-stranded	0.25-1.0 mm ² (with insulated ferrule)	
Conductor size: fine-stranded	0.25-1.0 mm ² (with uninsulated ferrule)	
AWG	2 x 24-16	12: THHN, THWN
Strip length	9-10 mm / 0.35-0.39 in.	
Conductor entry angle	45° to PCB	
Solder pin: length/diameter	3.4 mm / 1 mm	
Solder pin: drilled hole diameter	1.3 mm	

Material data:

Material group	I
Insulating material	Polyamide 6.6 (PA 6.6)
Flammability rating per UL 94	0V
Lower/Upper limit temperature	-60 °C / +105 °C
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	tin-plated

806 Series accessories:

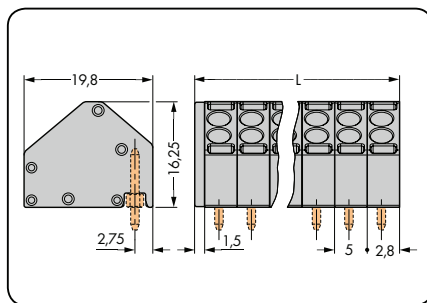
Pages:

Marking accessories	570 - 573
Operating tools	556

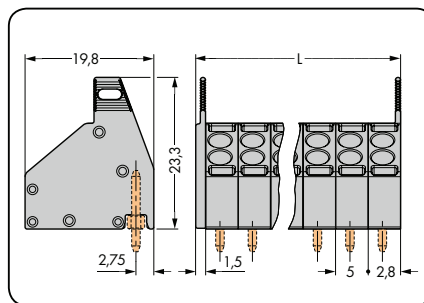
2-Conductor PCB Connector Strips (Pinstrip Pluggable) 1.5 mm²



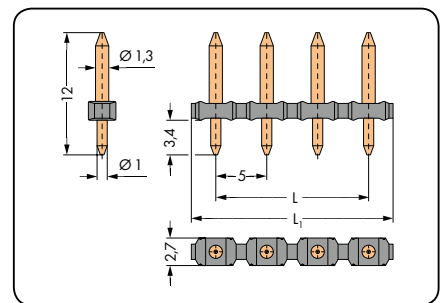
Pin spacing: 5 mm / 0.197 in. 2 x 0.2-1.5 mm ² 2 x 24-16 AWG 320 V/4 kV/2 10 A 300 V/10 A		Pin spacing: 5 mm / 0.197 in. 2 x 0.2-1.5 mm ² 2 x 24-16 AWG 320 V/4 kV/2 10 A 300 V/10 A		Solder pin strips
--	--	--	--	--------------------------



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



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



$L = (\text{pole no.} - 1) \times \text{pin spacing}$
 $L_1 = (\text{pole no.} - 1) \times \text{pin spacing} + 4.8 \text{ mm}$

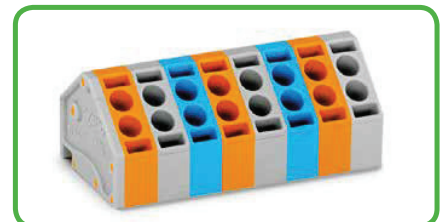
Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
2-conductor PCB connector strip (pinstrip pluggable), gray			2-conductor PCB connector strip (pinstrip pluggable) with removal aid, gray			Solder pin strip, 1.3 mm Ø connector pin, 1 mm Ø solder pin		
2	806-102	400	2	806-202	400	2	806-902	100
3	806-103	250	3	806-203	250	3	806-903	100
4	806-104	200	4	806-204	200	4	806-904	100
5	806-105	175	5	806-205	175	5	806-905	100
6	806-106	150	6	806-206	150	6	806-906	100
7	806-107	125	7	806-207	125	7	806-907	100
8	806-108	100	8	806-208	100	8	806-908	100
9	806-109	100	9	806-209	100	9	806-909	100
10	806-110	80	10	806-210	80	10	806-910	100
11	806-111	80	11	806-211	80	11	806-911	100
12	806-112	60	12	806-212	60	12	806-912	100

Item no. suffix: for colored connector strips (production and prices depend on quantity required):

- blue /000-006
- orange /000-012

Ordering example:

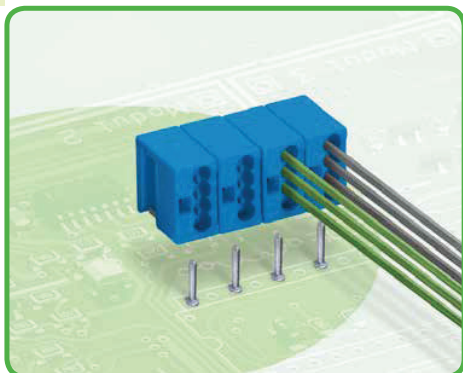
PCB connector strip, 5 mm pin spacing, 8-pole,
 blue: **806-108/000-006**



4-Conductor Modular PCB Connectors

Pin Spacing: 5.75 mm

243 Series



- Compact, 4-conductor modular PCB connectors with PUSH WIRE® connection
- Can be assembled to connector strips via dovetail joints
- Simple push-in termination for solid conductors
- Four entries for power supply and potential distribution
- Quick and easy PCB replacement, without disrupting looped-through potentials

Technical data:

Pin Spacing	5.75 mm 0.226 in.				
Ratings 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	6 A	6 A	6 A		
Approvals per	UL/CSA				
Use group UL 1059	B	C	D		
Rated voltage	150 V	-	150 V		
Nominal current UL	7 A	-	7 A		
Nominal current CSA	7 A	-	7 A		

Conductor and solder pin data:

Connection technology	PUSH WIRE®
Conductor size: solid	4 x 0.5-1.0 mm Ø
AWG	4 x 24-18 "sol."
Strip length	5-6 mm / 0.20-0.24 in.
Conductor entry angle	0° to PCB
Solder pin: length/diameter	4.5 mm / 1.0 mm
Solder pin: drilled hole diameter	1.2 ^{+0.05} mm

Material data:

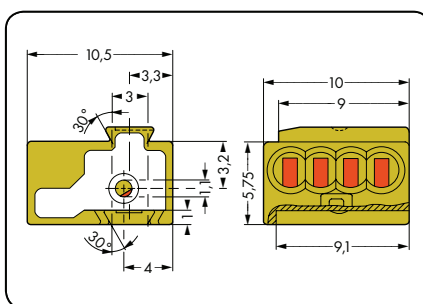
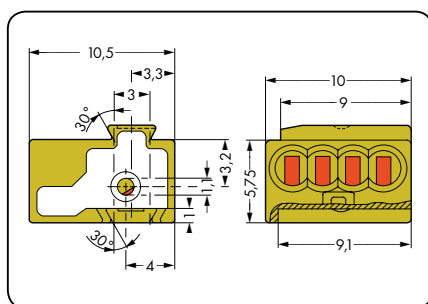
Material group	I
Insulating material	Polyamide 6.6 (PA 6.6)
Flammability rating per UL 94	0V
Lower/Upper limit temperature	-60 °C / +105 °C
Clamping spring material	Copper alloy
Contact plating	tin-plated

243 Series accessory:

Pages:

Marking accessories	570 - 573

Pin spacing: 5.75 mm / 0.226 in. 4 x 0.5-1.0 mm Ø 4 x 24-18 AWG 320 V/4 kV/2 6 A 150 V/ 7 A		Pin spacing: 5.75 mm / 0.226 in. 4 x 0.5-1.0 mm Ø 4 x 24-18 AWG 320 V/4 kV/2 6 A 150 V/ 7 A		Solder pins
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Color	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Item No.	Pack. Unit
4-conductor modular PCB connector, can be assembled to connector strips via dovetail joints, with test slot, for solid conductors			4-conductor PCB connector strip, with test slots, for solid conductors, light green			Solder pin for PCBs	
● gray	243-721	400	2	243-742	50	243-131	1000
● blue	243-722	400	3	243-743	50		
● orange	243-723	400	4	243-744	50		
● light green	243-724	400	5	243-745	50		
			6	243-746	50		
			7	243-747	50		
			8	243-748	50		
			Note: To limit the insertion forces of multi-pole PCB connector strips to the solder pins, the pole no. of the assembly should not exceed 8.				
			Item No. Suffix: for Colored Connector Strips				
			● blue .../000-006 ● gray .../000-007 ● orange .../000-012				
			Production and prices depend on quantity required.				
			Ordering example: PCB connector strip, 5 mm pin spacing, 8-pole, blue: 243-748/000-006				