

Supplementary Catalogue 4

to Full Line Catalog W4

Volume 1 and Volume 2

NEU
NEW
NOUVEAU
NUOVO
新製品
NOVO
НОВЫЙ



- Rail-Mounted Terminal Block Systems

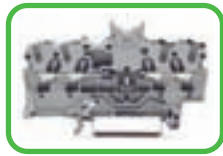
- PCB Terminal Blocks and Connectors

NOWOŚĆ
NYHET
NUEVO
UUTUUS
신제품
-नया
NIEUW
NY

WAGO[®]
INNOVATIVE CONNECTIONS

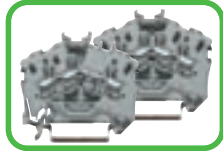
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**TOPJOB[®] double potential terminal blocks
with CAGE CLAMP[®]S connection**
1.5 mm²/AWG 22 – 14
2.5 mm²/AWG 22 – 12

Series 2001 02
Series 2002 02



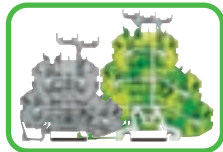
**TOPJOB[®] 3- and 4-conductor terminal blocks
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**TOPJOB[®] connectors
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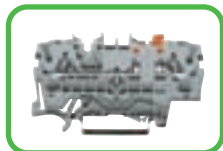
**TOPJOB[®] double and triple deck terminal blocks
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TOPJOB[®] accessoires

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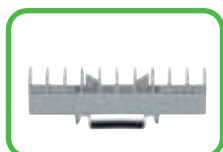
Marking of TOPJOB[®] rail-mounted terminal blocks

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**Rail-mounted high current terminal blocks
with POWER CAGE CLAMP[®] connection**
35 mm²/AWG 8 – 2
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(suitable for longitudinal disconnect and
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X-COM®-SYSTEM

2-cond./1-pin receptacle terminal blocks
0.08 mm² – 4 mm²/AWG 28 – 12

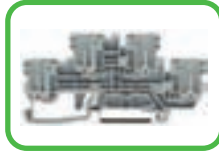
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1-cond./1-cond. disconnect receptacle terminal blocks
0.08 mm² – 4 mm²/AWG 28 – 12

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X-COM®-SYSTEM

2-conductor/
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X-COM®-SYSTEM

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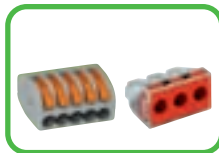


X-COM®-SYSTEM

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2 x 0.08 mm² – 2.5 mm²/AWG 28 – 12 and
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Carrier with grounding foot,
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
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


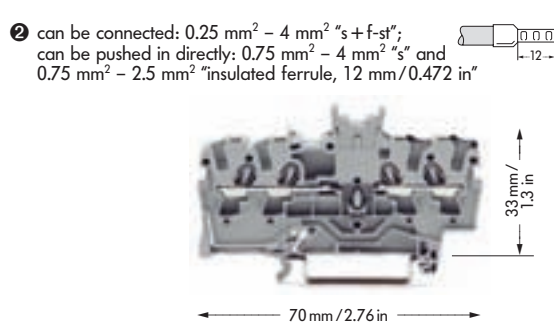
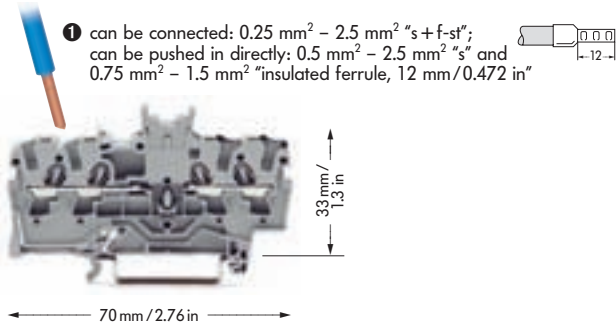
Marker carriers
for WCB combi marking system









Series 2009

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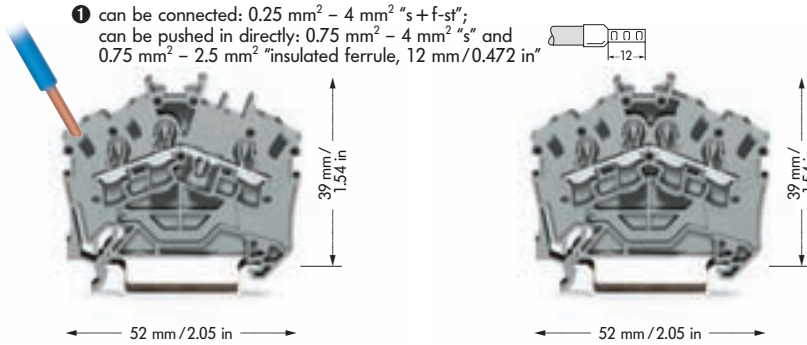
0.25 – 1.5 (2.5) mm²① | AWG 22 – 14
 800 V/8 kV/3
 I_N 18 A (24 A)
 Terminal block width 4.2 mm / 0.165 in
 9 – 11 mm / 0.39 in

0.25 – 2.5 (4) mm²② | AWG 22 – 12
 800 V/8 kV/3
 I_N 24 A (32 A)
 Terminal block width 5.2 mm / 0.205 in
 10 – 12 mm / 0.43 in



Item No.	Pack.-unit pcs		Item No.	Pack.-unit pcs
Double potential terminal block, grey	2001-1441 ● 100		Double potential terminal block, grey	2002-1441 ● 100
Attention! This double potential terminal block cannot be commoned with push-in type jumper bars!			Attention! This double potential terminal block cannot be commoned with push-in type jumper bars!	
Accessoires appropriate marking system WMB/Marker strips (see Full Line Catalog W4 Volume 1, Section 14)				
End and intermediate plate , 0.8 mm / 0.331 in thick			End and intermediate plate , 0.8 mm / 0.331 in thick	
 orange	2002-1492 100 (4 x 25)		 orange	2002-1492 100 (4 x 25)
 grey	2002-1491 100 (4 x 25)		 grey	2002-1491 100 (4 x 25)
Insulation stop , 5 pcs/strip 200 strips			Insulation stop , 5 pcs/strip 200 strips	
 light grey	2001-171 0.25-0.5 mm ²		 light grey	2001-171 0.25-0.5 mm ²
			 dark grey	2002-172 0.75-1 mm ²
			Protective warning marker , for 5 terminal block	
			 yellow	2002-115 100 (4 x 25)
Double potential terminal blocks are space savers. Two independent through terminal blocks are placed in one insulated housing on one level. The width of the housing is only 4.2 mm/0.165 in. Compared to standard through terminal blocks, the width is only 2.1 mm/0.083 in. Input and output contacts of one circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.			Double potential terminal blocks are space savers. Two independent through terminal blocks are placed in one insulated housing on one level. The width of the housing is only 5.2 mm/0.205 in. Compared to standard through terminal blocks, the width is only 2.6 mm/0.103 in. Input and output contacts of one circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.	

<p>0.25 – 2.5 (4) mm² ① 800 V/8 kV/3 I_N 24 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>* </p>	<p>AWG 22 – 12 600 V, 20 A </p> <p>600 V, 20 A </p>	<p>0.25 – 2.5 (4) mm² ① 800 V/8 kV/3 I_N 24 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>* </p>	<p>AWG 22 – 12 600 V, 20 A </p> <p>600 V, 20 A </p>
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
3-conductor through terminal blocks		4-conductor through terminal blocks	
grey 2002-6301	100	grey 2002-6401	100
blue 2002-6304	100	blue 2002-6404	100
orange 2002-6302	100	orange 2002-6402	100
more colors are being prepared		more colors are being prepared	
3-conductor ground (earth) terminal block		4-conductor ground (earth) terminal block	
green-yellow 2002-6307	100	green-yellow 2002-6407	100
approvals in preparation		approvals in preparation	
Suitable for Ex i applications		Suitable for Ex i applications	
		Attention!	
		These terminal blocks cannot be commoned!	
Accessories appropriate marker system (see Full Line Catalog W4 Vol. 1, Sec. 14)		WMB/Marker strips/WMB Inline	
End and intermediate plate , 0.8 mm / 0.031 in thick		End and intermediate plate , 0.8 mm / 0.031 in thick	
orange 2002-6392 100 (4 x 25)		orange 2002-6392 100 (4 x 25)	
grey 2002-6391 100 (4 x 25)		grey 2002-6391 100 (4 x 25)	
Insulation stop , 5 pcs/strip 200 strips		Insulation stop , 5 pcs/strip 200 strips	
light grey 2002-171 0.25-0.5 mm ²		light grey 2002-171 0.25-0.5 mm ²	
dark grey 2002-172 0.75-1 mm ²		dark grey 2002-172 0.75-1 mm ²	
Push-in type jumper bars , light grey, insulated, I _N 25 A			
2-way 2002-402 200 (8 x 25)			
3-way 2002-403 200 (8 x 25)			
4-way 2002-404 200 (8 x 25)			
5-way 2002-405 100 (4 x 25)			
:	:		
10-way 2002-410 100 (4 x 25)			
Push-in type jumper bars , light grey, insulated, I _N 25 A			
1 - 3 2002-433 200 (8 x 25)			
1 - 4 2002-434 200 (8 x 25)			
1 - 5 2002-435 100 (4 x 25)			
:	:		
1 - 10 2002-440 100 (4 x 25)			
Protective warning marker , for 5 terminal blocks		Protective warning marker , for 5 terminal blocks	
yellow 2002-115 100 (4 x 25)		yellow 2002-115 100 (4 x 25)	
Modular TOPJOB® S connector , for jumper contact slot			
1 pole 2002-511 100 (4 x 25)			
Spacer , modular 2002-549 100 (4 x 25)			
Test plug adapter , for test plug 4 mm/0.157 in Ø 2009-174 100 (4 x 25)			
Testing tap , for max. 2.5 mm ² 2009-182 100 (4 x 25)			



3- and 4-conductor terminal blocks

The new TOPJOB® S rail-mounted terminal blocks have a conductor entry angle of 35 degrees allowing for a very small bend radius and an extremely short wiring distance to the cable duct. For applications in switchgear and control cabinets using the LSC wiring system from Lütze, for example, the new terminal blocks offer a space and cost saving solution. This way, conductors can be placed very close to the terminal blocks and their height can be kept relatively low.










Product characteristics

- CAGE CLAMP® S connection for all types of conductors, with the additional benefit that stripped solid wires and fine-stranded ferruled wires can be simply pushed in
- Vibration-proof, fast, maintenance-free connection
- 3-conductor through and ground (earth) conductor terminal blocks equipped with dual jumper slot
- 4-conductor terminal blocks allow for the multiplication of potentials without using any jumpers and any additional terminal blocks
- 3- and 4-conductor terminal blocks have the same dimensions










* Further approvals with corresponding ratings can be found at www.wago.com

1 TOPJOB® Modular Connectors Series 2001/2002/2004

VOLUME 1

0.25 – 1.5 (2.5) mm² ❶ 500 V/6 kV/3 I _N 18 A Terminal block width 4.2 mm / 0.165 in  9 – 11 mm / 0.39 in *  	0.25 – 2.5 (4) mm² ❷ 500 V/6 kV/3 I _N 24 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in *  	0.5 – 4 (6) mm² ❸ 500 V/6 kV/3 I _N 32 A Terminal block width 6.2 mm / 0.244 in  11 – 13 mm / 0.47 in *  
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Modular TOPJOB®S connectors with CAGE CLAMP®S connection, modular, grey, 1 pole		Modular TOPJOB®S connectors with CAGE CLAMP®S connection, modular, grey, 1 pole		Modular TOPJOB®S connectors with CAGE CLAMP®S connection, modular, grey, 1 pole	
2001-511	100 (4 x 25)	2002-511	100 (4 x 25)	2004-511	100 (4 x 25)
Spacer, for bridging over commoned terminal blocks, for example, modular, grey		Spacer, for bridging over commoned terminal blocks, for example, modular, grey		Spacer, for bridging over commoned terminal blocks, for example, modular, grey	
2001-549	100 (4 x 25)	2002-549	100 (4 x 25)	2004-549	100 (4 x 25)
❶ can be connected: 0.25 mm ² – 2.5 mm ² "s + f-st"; can be pushed in directly: 0.5 mm ² – 2.5 mm ² "s" and 0.75 mm ² – 1.5 mm ² "insulated ferrule, 12 mm/0.472 in"		❷ can be connected: 0.25 mm ² – 4 mm ² "s + f-st"; can be pushed in directly: 0.75 mm ² – 4 mm ² "s" and 0.75 mm ² – 2.5 mm ² "insulated ferrules, 12 mm/0.472 in"		❸ can be connected: 0.5 mm ² – 6 mm ² "s + f-st"; can be pushed in directly: 1 mm ² – 6 mm ² "s" and 0.75 mm ² – 4 mm ² "insulated ferrule, 12 mm/0.472 in"	
Item-specific accessories		Item-specific accessories		Item-specific accessories	
End plate, 1.5 mm/0.059 in thick		End plate, 1.5 mm/0.059 in thick		End plate, 1.5 mm/0.059 in thick	
 grey	2002-541 100 (4 x 25)	 grey	2002-541 100 (4 x 25)	 grey	2002-541 100 (4 x 25)
WMB Multi marking card, 10 strips with 10 markers each, white with black printing, 4 – 4.2 mm/0.157 – 0.165 in wide		WMB Multi marking card, 10 strips with 10 markers each, white with black printing, 5 – 5.2 mm/0.197 – 0.205 in wide		WMB Multi marking card, 10 strips with 10 markers each, white with black printing, 5 – 5.2 mm/0.197 – 0.205 in wide	
 793-4 . . .	5 cards	 793-5 . . .	5 cards	 793-5 . . .	5 cards
 794-4 . . .	5 cards	 794-5 . . .	5 cards	 794-5 . . .	5 cards
see Full Line Catalog W4 Volume 1, Section 14		see Full Line Catalog W4 Volume 1, Section 14		see Full Line Catalog W4 Volume 1, Section 14	








Snapping together of connectors and spacers to assemble a multi-pole connector






Wire connection: Screwdriver actuation for connection of all conductor types, i.e. stripped stranded conductors, or push-in connection of solid or ferruled stranded conductors.






Snapping on a strain relief plate

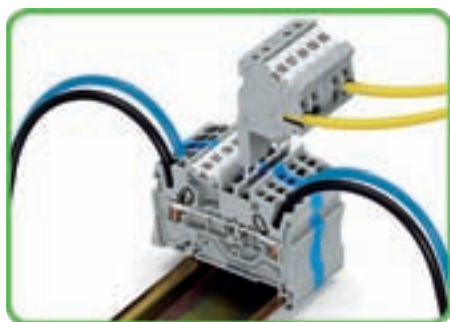
Accessories for TOPJOB®S connectors		appropriate marker system WMB/Marker strips (see Full Line Catalog W4 Volume 1, Section 14)	
 yellow	210-137 50 (5 x 10)		snappable onto connector strips
 red	210-136 50 (5 x 10)		11 mm/0.039 in wide 2009-110 1
			11 mm/0.039 in wide 300 m 2009-130 1
			6 mm/0.236 in wide 734-327 100 (4 x 25)
			12.5 mm/0.492 in wide 734-328 100 (4 x 25)
			25 mm/0.984 in wide 734-329 100 (4 x 25)
			35 mm/1.378 in wide 734-326 100 (4 x 25)

* Further approvals with corresponding ratings can be found at www.wago.com


0.25 – 1.5 (2.5) mm ² Ⓚ 500 V/6 kV/3 I _N 18 A Terminal block width 4.2 mm / 0.165 in  9 – 11 mm / 0.39 in	AWG 22 – 14 300 V, 15 A 300 V, 15 A	0.25 – 2.5 (4) mm ² Ⓚ 500 V/6 kV/3 I _N 24 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in	AWG 22 – 12 300 V, 20 A 300 V, 20 A	0.5 – 4 (6) mm ² Ⓚ 500 V/6 kV/3 I _N 32 A Terminal block width 6.2 mm / 0.244 in  11 – 13 mm / 0.47 in	AWG 20 – 10 300 V, 30 A 300 V, 30 A
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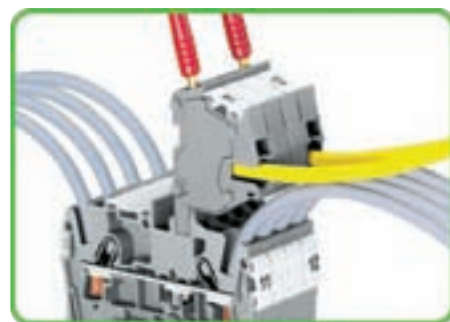
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Modular TOPJOB®S connector strips		Modular TOPJOB®S connector strips		Modular TOPJOB®S connector strips	
with CAGE CLAMP®S connection, modular, grey,		with CAGE CLAMP®S connection, modular, grey,		with CAGE CLAMP®S connection, modular, grey,	
2-pole	2001-552	2-pole	2002-552	2-pole	2004-552
3-pole	2001-553	3-pole	2002-553	3-pole	2004-553
4-pole	2001-554	4-pole	2002-554	4-pole	2004-554
5-pole	2001-555	5-pole	2002-555	5-pole	2004-555
6-pole	2001-556	6-pole	2002-556		
7-pole	2001-557	7-pole	2002-557		
8-pole	2001-558	8-pole	2002-558		
9-pole	2001-559	9-pole	2002-559		
10-pole	2001-560	10-pole	2002-560		
Ⓚ can be connected: 0.25 mm ² – 2.5 mm ² "s + f-st"; can be pushed in directly: 0.5 mm ² – 2.5 mm ² "s" and 0.75 mm ² – 1.5 mm ² "insulated ferrule, 12 mm/0.472 in"		Ⓚ can be connected: 0.25 mm ² – 4 mm ² "s + f-st"; can be pushed in directly: 0.75 mm ² – 4 mm ² "s" and 0.75 mm ² – 2.5 mm ² "insulated ferrules, 12 mm/0.472 in"		Ⓚ can be connected: 0.5 mm ² – 6 mm ² "s + f-st"; can be pushed in directly: 1 mm ² – 6 mm ² "s" and 0.75 mm ² – 4 mm ² "insulated ferrule, 12 mm/0.472 in"	
Item-specific accessories		Item-specific accessories		Item-specific accessories	
WMB Multi marking card, 10 strips with 10 markers each, white with black printing, 4 – 4.2 mm/0.157 - 0.165 in wide  793-4 . . . 5 cards 794-4 . . . 5 cards		WMB Multi marking card, 10 strips with 10 markers each, white with black printing, 5 – 5.2 mm/0.197 - 0.205 in wide  793-5 . . . 5 cards 794-5 . . . 5 cards		WMB Multi marking card, 10 strips with 10 markers each, white with black printing, 5 – 5.2 mm/0.197 - 0.205 in wide  793-5 . . . 5 cards 794-5 . . . 5 cards	
see Full Line Catalog W4 Volume 1, Section 14		see Full Line Catalog W4 Volume 1, Section 14		see Full Line Catalog W4 Volume 1, Section 14	






The modular connectors provide an additional connection option for conductors of the same cross section range as the terminal blocks being used.

Miniature WSB Quick marking card,	
	10 strips with 10 markers each, white with black printing, 5 mm /0.197 in wide
248- . . .	5 cards
249- . . .	5 cards
see Full Line Catalog W4 volume 1, section 14	















WMB Inline, pitch 5 mm/0.197 in, stretchable	
	5 mm – 5.2 mm/0.197 in – 0.205 in, on roll, 1,500 markers
with	2009-115 1



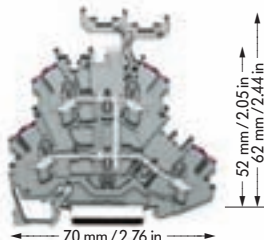
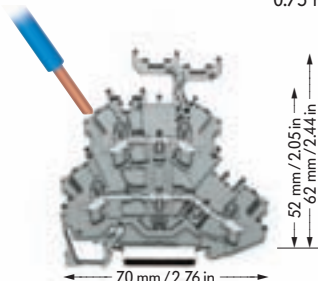
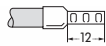
The connector has a test socket for 2 mm/0.079 in or 2.3 mm/0.091 in test plugs.

Accessories for TOPJOB®S connectors				appropriate marker system WMB/Marker strips (see Full Line Catalog W4 Volume 1, Section 14)	
 Test plug, with cable 500 mm/17.7" 2.3 mm/0.091 in Ø yellow 210-137 50 (5 x 10)	 Strain relief plate, grey snappable onto connector strips	Marker strips, withe, plain, on roll 11 mm/0.039 in wide 50 m 2009-110 1			
 Test plug, with cable 500 mm/17.7" 2 mm/0.079 in Ø red 210-136 50 (5 x 10)	6 mm/0.236 in wide 734-327 100 (4 x 25) 12.5 mm/0.492 in wide 734-328 100 (4 x 25) 25 mm/0.984 in wide 734-329 100 (4 x 25) 35 mm/1.378 in wide 734-326 100 (4 x 25)	Marker strips, withe, plain, on roll 11 mm/0.039 in wide 300 m 2009-130 1			

Double Deck Terminal Blocks 2.5 (4) mm² / AWG 12 Series 2002

0.25 – 2.5 (4) mm² ① 500 V/6 kV/3 I _N 24 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in *  	AWG 22 – 12 600 V, 20 A   600 V, 20 A  	0.25 – 2.5 (4) mm² ① 500 V/6 kV/3 I _N 24 A Terminal block width 5.2 / 0.205 in  10 – 12 mm / 0.43 in *  	AWG 22 – 12 600 V, 20 A   600 V, 20 A  
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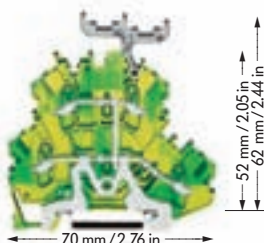
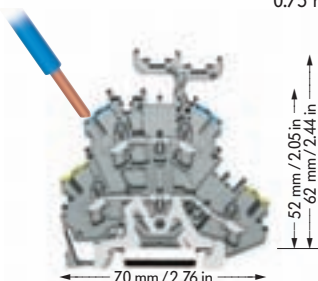
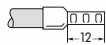
① can be connected: 0.25 mm² – 4 mm² "s + f-st";
 can be pushed in directly: 0.75 mm² – 4 mm² "s" and
 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm/0.472 in"



Item No.	Item No.	Pack.-unit pcs	Item No.	Item No.	Pack.-unit pcs
Double deck terminal blocks, for DIN 35 rail			Double deck terminal blocks, for DIN 35 rail		
Through-/through terminal blocks, housing color grey			4-conductor through terminal block, internal commoning, housing color grey, conductor entry position colored in violet		
Marking carrier with		without	Marking carrier with		without
L/L	2002-2231	2002-2201 50	L	2002-2238	2002-2208 50
N/L	2002-2232	2002-2202 50	4-conductor through terminal block, internal commoning, housing color blue, conductor entry position colored in violet		
L/N	2002-2233	2002-2203 50	N		2002-2239 ② 2002-2209 ② 50
Housing color blue			N		
N/N	2002-2234 ②	2002-2204 ② 50	② Suitable for Ex i applications		
② Suitable for Ex i applications			② Suitable for Ex i applications		



① can be connected: 0.25 mm² – 4 mm² "s + f-st";
 can be pushed in directly: 0.75 mm² – 4 mm² "s" and
 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm/0.472 in"



Item No.	Item No.	Pack.-unit pcs	Item No.	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Double deck terminal blocks, for DIN 35 rail			Double deck terminal blocks, for DIN 35 rail				
Ground (earth) conductor/through terminal block, housing color grey			4-conductor ground (earth) terminal block, internal commoning, housing color green-yellow				
Marking carrier with		without	Marking carrier with		without		
PE/N	2002-2247	2002-2217 50	PE	2002-2237	2002-2207 50		
PE/L	2002-2257	2002-2227 50					
② Suitable for Ex i applications			② Suitable for Ex i applications				

Accessories

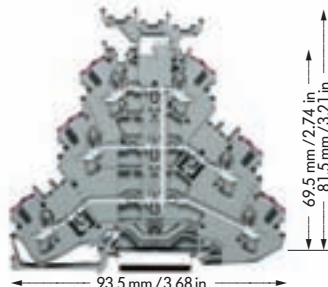
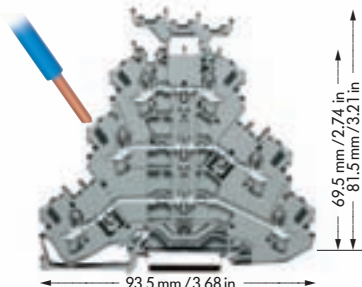
appropriate marking system **WMB/marker strips/WMB Inline** (see Full Line Catalog W4 Volume 1, Section 14)

End and intermediate plate, 0.8 mm/0.032 in thick orange 2002-2292 100 (4 x 25) grey 2002-2291 100 (4 x 25)	Two-way marking adapter, pivotable 2002-121 50 (4 x 25)	Protective warning marker, for 5 terminal blocks yellow 2002-115 100 (4 x 25)
Push-in type jumper bars, light grey, insulated, I_N 2-way 2002-402 200 (8 x 25) 3-way 2002-403 200 (8 x 25) 4-way 2002-404 200 (8 x 25) 5-way 2002-405 100 (4 x 25) : : 10-way 2002-410 100 (4 x 25)	Push-in type jumper bars, light grey, insulated, I_N 1 - 3 2002-433 200 (8 x 25) 1 - 4 2002-434 200 (8 x 25) 1 - 5 2002-435 100 (4 x 25) : : 1 - 10 2002-440 100 (4 x 25)	Marker strips, white, plain, for central marking, 11 mm/0.433 in wide, on roll 50 m 2009-110 1 300 m 2009-130 1
Insulation stop, see page 17 TOPJOB® Catalog		

* Further approvals with corresponding ratings can be found at www.wago.com

<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 500 V/6 kV/3 I_N 24 A</p> <p>Terminal block width 5.2 / 0.205 in 10 – 12 mm / 0.43 in</p> <p>* ① ②</p>	<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 500 V/6 kV/3 I_N 24 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>* ① ②</p>	<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 500 V/6 kV/3 I_N 24 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>* ① ②</p>
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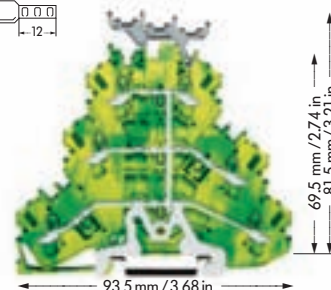
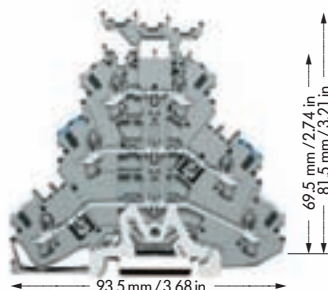
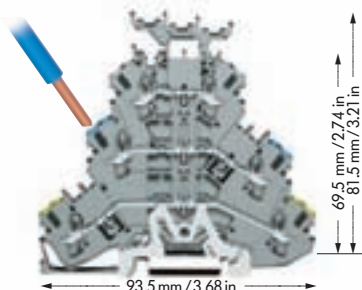
① can be connected: 0.25 mm² – 4 mm² "s + f-st";
can be pushed in directly: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm/0.472 in"



Item No.	Item No.	Pack.-unit pcs	Item No.	Item No.	Pack.-unit pcs
Triple deck terminal blocks, for DIN 35 rail			Triple deck terminal block, for DIN 35 rail		
Through-/through-/through terminal blocks, housing color grey			6-conductor through terminal block, internal commoning, housing color grey, conductor entry position colored in violet		
Marking carrier with	without		Marking carrier with	without	
L/L/L	2002-3231	2002-3201 50	L	2002-3238	2002-3208 50
L/L/N	2002-3233	2002-3203 50	6-conductor through terminal block, internal commoning, housing color blue, conductor entry position colored in violet		
Housing color blue			N		
N/N/N	2002-3234 ②	2002-3204 ② 50	2002-3239 ② 2002-3209 ② 50		
③ applications are being prepared			③ applications are being prepared		
② Suitable for Ex i applications			② Suitable for Ex i applications		



① can be connected: 0.25 mm² – 4 mm² "s + f-st";
can be pushed in directly: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm/0.472 in"



Item No.	Item No.	Pack.-unit pcs	Item No.	Item No.	Pack.-unit pcs	Item No.	Item No.	Pack.-unit pcs
Triple deck terminal blocks, for DIN 35 rail			Triple deck terminal block, for DIN 35 rail			Triple deck terminal block, for DIN 35 rail		
Ground (earth)/through/through terminal blocks, housing color grey			Shield (screen)/through/through terminal blocks, housing color grey			6-conductor ground (earth) terminal block, internal commoning, housing color green-yellow		
Marking carrier with	without		Marking carrier with	without		Marking carrier with	without	
PE/N/L	2002-3247	2002-3217 50	Schirm/N/L	2002-3248	2002-3218 50	PE	2002-3237	2002-3207 50
PE/L/L	2002-3257	2002-3227 50	Schirm/L/L	2002-3258	2002-3228 50			
③ applications are being prepared			③ applications are being prepared			③ applications are being prepared		

Accessories

appropriate marking system **WMB/marker strips/WMB Inline** (see Full Line Catalog W4 Volume 1, Section 14))

<p>End and intermediate plate, 0.8 mm/0.032 in thick</p> <p>orange 2002-3292 100 (4 x 25) grey 2002-3291 100 (4 x 25)</p>	<p>Two-way marking adapter, pivotable</p> <p>2002-131 50 (2 x 25)</p>	<p>Protective warning marker, for 5 terminal blocks</p> <p>yellow 2002-115 100 (4 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N</p> <p>2-way 2002-402 200 (8 x 25) 3-way 2002-403 200 (8 x 25) 4-way 2002-404 200 (8 x 25) 5-way 2002-405 100 (4 x 25) : 10-way 2002-410 100 (4 x 25)</p>	<p>Push-in type jumper bars, light grey, insulated, I_N</p> <p>1 - 3 2002-433 200 (8 x 25) 1 - 4 2002-434 200 (8 x 25) 1 - 5 2002-435 100 (4 x 25) : 1 - 10 2002-440 100 (4 x 25)</p>	<p>Marker strips, white, plain, for central marking, 11 mm/0.433 in wide, on roll</p> <p>50 m 2009-110 1 300 m 2009-130 1</p>
<p>Insulation stop, see page 17 TOPJOB® Catalog</p>		

TOPJOB® S



Very compact dimensions provide maximum wiring space in standard distribution boxes. The 2003 Series multi-level installation terminal blocks are the smallest terminal blocks with direct insertion wire connection on the market providing the full functionality of a 4 mm²/AWG 12 terminal block.



Push-in type jumper bars with breakable contact lugs offer the same benefits to the TOPJOB® S installation terminal blocks as to the rail-mounted terminal blocks (e.g. individual jumper configuration on site, skipping of potentials, etc.).



Screwless N-disconnect slide link for automatic and safe connection onto the N-busbar by simply sliding the link.



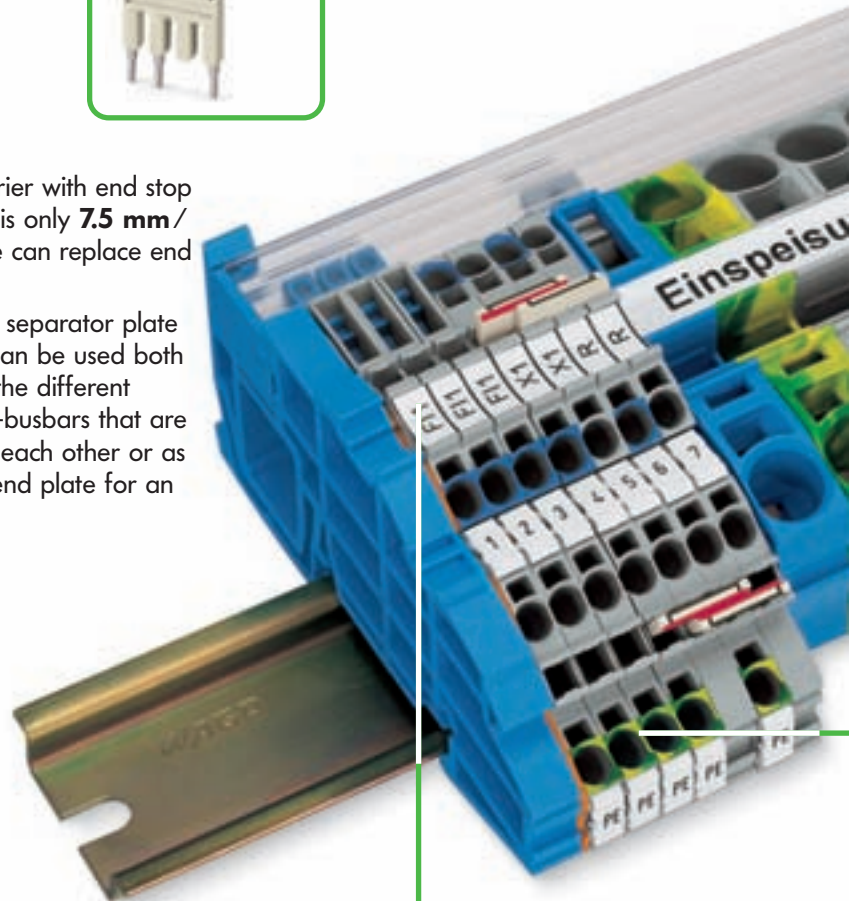
The busbar carrier with end stop function, which is only **7.5 mm / 0.295 in wide** can replace end stop.

The detachable separator plate on the carrier can be used both for separating the different potentials of N-busbars that are directly next to each other or as a touch-proof end plate for an N-busbar.



The compact busbar carrier, which is placed every 200 mm / 7.87 in, is used to additionally support the busbar on a long assembly.

Perforations make it possible to fit the carrier to all TOPJOB® S installation terminal blocks using a single part.

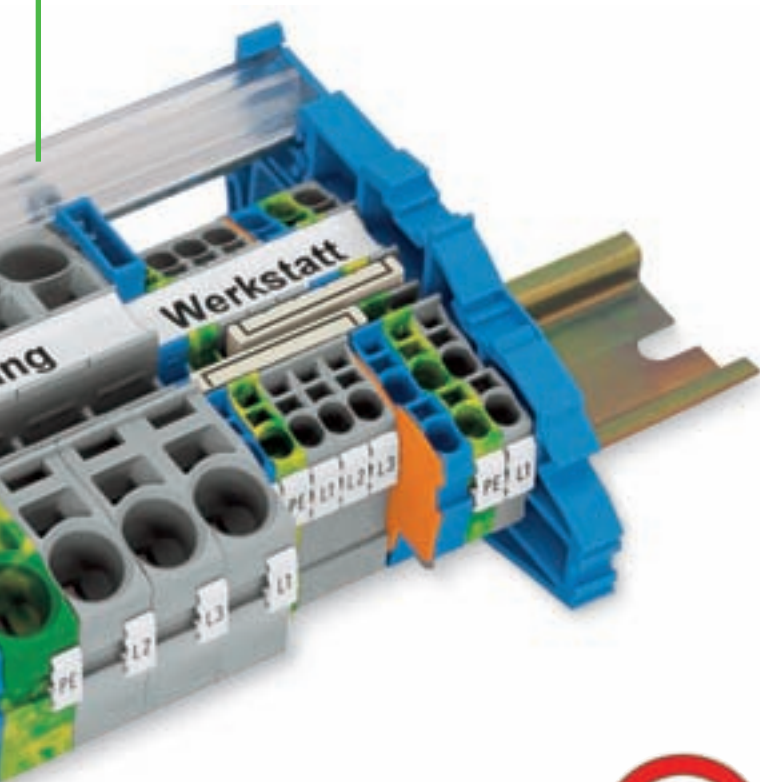


Each connection point has an individual marker receptacle for WMB markers. Additionally, the upper marker receptacle is suitable for marker strips that can be marked manually using a marker pen or automatically by a thermal transfer printer.



Commoning is done using the new staggered jumper system in one single TOPJOB® S jumper slot. The multilevel installation terminal blocks of Series 2003 are therefore suitable for use in very confined spaces.

The optional busbar transparent cover (item no. 777-303) protects the busbar against accidental contact and makes it easy to see which terminal blocks are connected to the busbar.



Removal of staggered jumpers

Insert the screwdriver blade between the jumpers and lift them up.



Environmentally friendly:
TOPJOB® S terminal blocks are **100% lead-free!**



The conductor entry holes of the multilevel installation terminal blocks are color marked, providing a clear arrangement of the terminals.

The grounding foot automatically guarantees a safe connection to the carrier rail.

TOPJOB® S – The range of terminal blocks for all types of applications.

- The direct connection of solid wires in small distribution boxes saves time and money.
- Operating errors can be prevented as all types of terminal blocks for building installation are equipped with push-in connection technology.
- Terminal blocks for building installation expand circuit design possibilities.
- The use of standard accessories reduces order-processing and stock-holding costs.
- A high level of application safety is achieved through optimum knowledge of the small range of parts.
- As the position of the busbars is the same, the new TOPJOB® S installation terminal blocks are compatible with standard topJob installation terminal blocks.



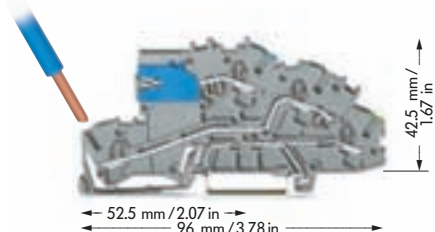
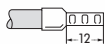
TOPJOB® Multilevel Installation Terminal Blocks 4 mm²/AWG 12 Series 2003

0.25 – 2.5 (4) mm² ① AWG 22 – 12
250 V/4 kV ②/3 400 V/6 kV ③/3
I_N 32 A
Terminal block width 5.2 mm / 0.205 in
10 – 12 mm / 0.43 in

0.25 – 2.5 (4) mm² ① AWG 22 – 12
400 V/6 kV/3
I_N 32 A
Terminal block width 5.2 mm / 0.205 in
10 – 12 mm / 0.43 in

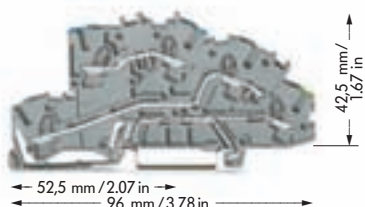
Accessories for
2003 Series multilevel installation
terminal blocks and
2002/2006/2016 Series N-conductor
disconnect terminal blocks

① can be connected: 0.25 mm² – 4 mm² "s + f-st";
can be pushed in directly: 0.75 mm² – 4 mm² "s" and
0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm / 0.472 in"



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Multilevel installation terminal block, grey with N-disconnect slide link		Multilevel installation terminal blocks, grey	
NT/L/PE	2003-7641	L/L	2003-7642
	50	N/L	2003-7649
			50

② Potential-Ground ③ Potential-Potential



Staggered jumper with 7 contacts
Breaking off contact lugs

Item No.	Pack.-unit pcs
Multilevel installation terminal blocks, grey	
N/L/PE	2003-7646
L/L/PE	2003-7645

Commoning using staggered jumpers

Individual jumper contacts can be broken off by bending them. The remaining piece of insulation meets the requirements for the air and creepage distance.

This makes it possible to create custom staggered jumpers, e.g. for bridging over a terminal block with a different potential. When creating the jumpers, make sure that only one contact lug is in contact with the terminal block.

That way, staggered jumpers are created whose contact lugs will make contact to the terminal block in the gaps of the second jumper. Insert the jumper into the jumper slot up to the stop.



Staggered jumper 1 – 3 – 5 – 7
Marking with a felttip pen



Two staggered jumpers 1 – 3 – 5 – 7
staggered for use in a jumper slot





Locate red stripes of the staggered jumpers on the inside

	Item No.	Pack.-unit pcs
End and intermediate plate , 1 mm / 0.039 in thick orange	2003-7692	100 (4 x 25)
Busbar carrier , for DIN rail 35 (not suitable for use as end stop) 1.5 mm / 0.059 in thick blue	2009-304	100 (4 x 25)
Busbar carrier with end stop function and detachable separator plate , for DIN rail 35; 7.5 mm / 0.295 in thick blue	2009-305	25
N-busbar , tinned		see page 11
Cover for N-busbar , transparent		see page 11
Neutral supply terminal block , I _N 76 A, 16 mm ² /AWG 6, blue 12 mm / 0.472 in wide	2016-7114	25
Ground (earth) supply terminal block , I _N 76 A, 16 mm ² /AWG 6, green-yellow, 12 mm / 0.472 in wide	2016-1207	20
TOPJOB® tool , special blades 3.5 mm / 0.137 in and 5.5 mm / 0.217 in	2009-310	1
Connector , with blue cover		see page 11
Connector , uninsulated,		see page 11
Push-in type jumper bars , light grey, insulated, I _N 25 A		
2-way	2002-402	200 (8 x 25)
3-way	2002-403	200 (8 x 25)
4-way	2002-404	200 (8 x 25)
5-way	2002-405	100 (4 x 25)
:	:	:
10-way	2002-410	100 (4 x 25)
Push-in type jumper bars , light grey, insulated, I _N 25 A		
1 - 3	2002-433	200 (8 x 25)
1 - 4	2002-434	200 (8 x 25)
1 - 5	2002-435	100 (4 x 25)
:	:	:
1 - 10	2002-440	100 (4 x 25)
Staggered jumper , light grey, insulated, I _N 25 A		
2-way	2002-472	100 (4 x 25)
3-way	2002-473	100 (4 x 25)
4-way	2002-474	100 (4 x 25)
5-way	2002-475	50 (2 x 25)
:	:	:
12-way	2002-482	50 (2 x 25)
Pre-assembled staggered jumpers , with contact lugs that are factory removed with circuit printing, I _N 25 A		
1-3	2002-473/0011-0000	
1-3-5	2002-475/0011-0000	
1-3-5-7	2002-477/0011-0000	
1-3-5-7-9	2002-479/0011-0000	
1-3-5-7-9-11	2002-481/0011-0000	
Test plug , Ø 2 mm / 0.079 in	210-136	50 (5 x 10)
Test plug adapter , for test plug Ø 4 mm / 0.157 in	2009-174	100 (4 x 25)
Testing tap , for max. 2.5 mm ² /AWG 14	2009-182	100 (4 x 25)

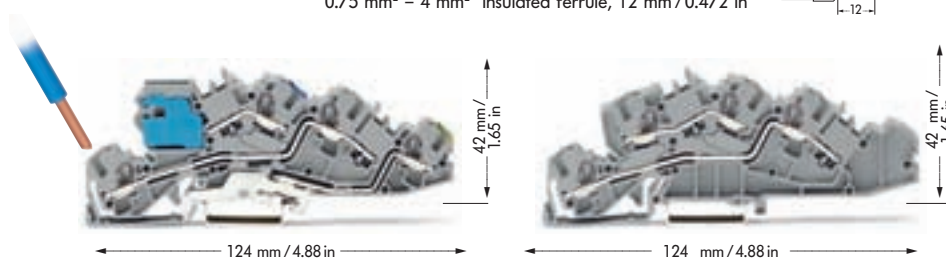
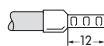
TOPJOB® S

Multilevel Installation Terminal Blocks 6 mm²/AWG 8 Series 2005

0.5 – 4 (6) mm² ① AWG 20 – 10 250 V/4 kV ②/3 400 V/6 kV ③/3 I _N 36 A Terminal block width 6.2 mm / 0.244 in  11 – 13 mm / 0.47 in	0.5 – 4 (6) mm² ① AWG 20 – 10 400 V/6 kV/3 I _N 36 A Terminal block width 6.2 mm / 0.244 in  11 – 13 mm / 0.47 in
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Accessories for 2005 Series multilevel installation terminal blocks and 2002/2006/2016 Series N-conductor disconnect terminal blocks

① can be connected: 0.5 mm² – 6 mm² "s + f-st";
 can be pushed in directly: 1 mm² – 6 mm² "s" and
 0.75 mm² – 4 mm² "insulated ferrule, 12 mm / 0.472 in"



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Multilevel installation terminal block, grey with N-disconnect slide link		Multilevel installation terminal blocks, grey	
NT/L/PE 2005-7641	50	L/L 2005-7642	50
		N/L 2005-7649	50

② Potential-Ground ③ Potential-Potential

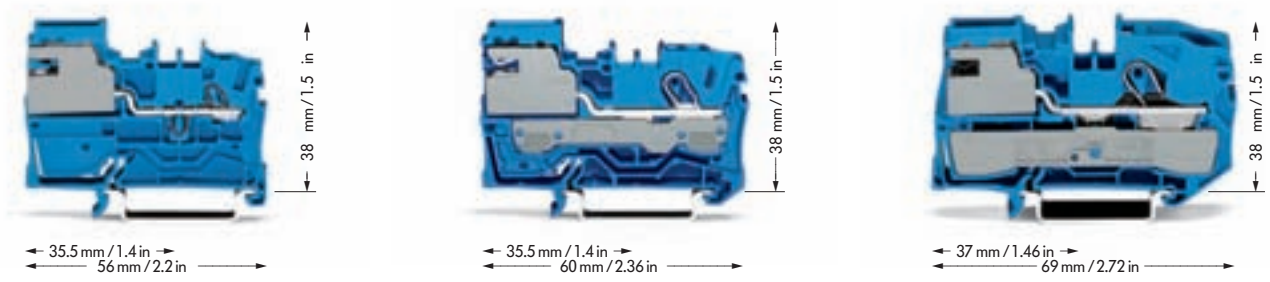


Item No.	Pack.-unit pcs
Multilevel installation terminal blocks, grey	
N/L/PE 2005-7646	50
L/L/PE 2005-7645	50

Item No.	Pack.-unit pcs
End and intermediate plate, 1 mm / 0.039 in thick orange	
2005-7692	100 (4 x 25)
Busbar carrier, for DIN rail 35 (not suitable for use as end stop)	
1.5 mm / 0.059 in thick blue	
2009-304	100 (4 x 25)
Busbar carrier with end stop function and detachable separator plate, for DIN rail 35; 7.5 mm / 0.295 in thick	
blue	
2009-305	25
N-busbar, tinned	
Copper 10 mm x 3 mm, I _N 140 A, 1000 mm / 39.37 in long	
210-133	20 (20 x 1)
Cover for N-busbar	
transparent	
1000 mm / 39.37 in long	
777-303	1
Neutral supply terminal block, I_N 76 A, 16 mm², blue	
12 mm / 0.472 in wide	
2016-7114	25
Ground (earth) supply terminal block, I_N 76 A, 16 mm²/AWG 6, green-yellow, 12 mm / 0.472 in wide	
2016-1207	20
14 Connector, with blue cover, for N-busbar	
2.5 mm ² – 16 mm ² /AWG 14 – 6	
210-281	100 (2 x 50)
Connector, uninsulated, for N-busbar	
2.5 mm ² – 35 mm ² /AWG 14 – 2	
209-105	50 (2 x 25)
TOPJOB® S tool, special blades	
3.5 mm / 0.137 in and 5.5 mm / 0.217 in	
2009-310	1
Push-in type jumper bars, light grey, insulated, I_N 32 A	
2-way 2004-402 100 (4 x 25)	
3-way 2004-403 100 (4 x 25)	
4-way 2004-404 100 (4 x 25)	
5-way 2004-405 50 (2 x 25)	
: :	
10-way 2004-410 50 (2 x 25)	
Push-in type jumper bars, light grey, insulated, I_N 32 A	
1 - 3 2004-433 100 (4 x 25)	
1 - 4 2004-434 100 (4 x 25)	
1 - 5 2004-435 50 (2 x 25)	
: :	
1 - 10 2004-440 50 (2 x 25)	
Test plug, Ø 2 mm / 0.079 in	
210-136 50 (5 x 10)	
Test plug adapter, for test plug Ø 4 mm / 0.157 in	
2009-174 100 (4 x 25)	
Testing tap, for max. 2.5 mm²/AWG 14	
2009-182 100 (4 x 25)	

N-Disconnect Terminal Blocks and Power Distribution Disconnect Terminal Blocks Series 2002, 2006 and 2016

<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 250 V/4 kV/3 I_N 32 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p>	<p>0.5 – 6 (10) mm² ① AWG 20 – 8 250 V/4 kV/3 I_N 51 A</p> <p>Terminal block width 7.5 mm / 0.295 in 13 – 15 mm / 0.55 in</p>	<p>0.5 – 16 (25 "f") mm² ① AWG 20 – 4 250 V/4 kV/3 I_N 76 A</p> <p>Terminal block width 12 mm / 0.472 in 18 – 20 mm / 0.75 in</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------



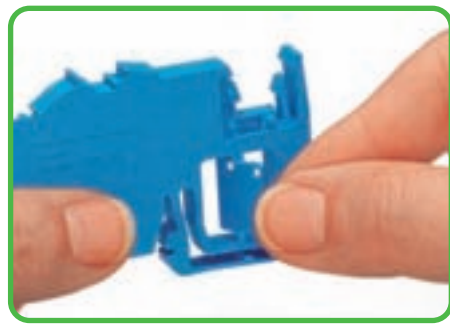
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
1-conductor N-disconnect terminal block		1-conductor N-disconnect terminal block		1-conductor N-disconnect terminal block	
blue	2002-7114 ②	50	blue	2006-7114 ②	50
1-conductor power distribution disconnect terminal block		1-conductor power distribution disconnect terminal block		1-conductor power distribution disconnect terminal block	
grey	2002-7111 ③	50	grey	2006-7111 ③	50
End and intermediate plate, 0.8 mm / 0.031 in thick		End and intermediate plate, 1 mm / 0.039 in thick		End and intermediate plate, 1 mm / 0.039 in thick	
orange	2002-7192	100 (4 x 25)	orange	2006-7192	100 (4 x 25)
For appropriate through and earth conductor terminal blocks see page 17 in TOPJOB® catalog		For appropriate through and earth conductor terminal blocks see page 17 in TOPJOB® catalog		For appropriate through and earth conductor terminal blocks see page 17 in TOPJOB® catalog	



Testing with test plug Ø 2 mm



Operation of the slide link using a simple screwdriver



Removing the separator plate from the busbar carrier.

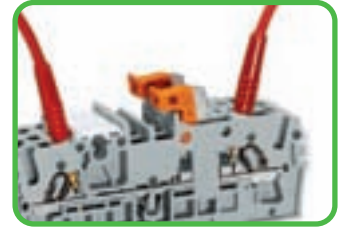


Insertion of the separator plate. To protect the N-busbar against accidental contact

- ① see also appropriate through terminal blocks
- ② For the construction and operation of power installations in fire hazardous locations or public buildings, such as meeting places, stores, hospitals, schools, theaters, hotels etc., the VDE 0100 or VDE 0108-1 standards must be observed. VDE 0100-482 must be observed for fire hazardous locations. Both VDE regulations determine that insulation testing must be possible for every circuit without disconnecting the N-conductor. WAGO N-disconnect terminal blocks meet this requirement.
- ③ According to VDE 0107 "Installing and testing electrical installations in medical locations", the equipotential bonding conductors must be connected to a potential equalization busbar. The potential equalization busbar and the protective earth conductor busbar must be accommodated in a common housing and be connected by means of a disconnectable connection using a copper conductor with a minimum cross section of 16 mm²/AWG 6. Furthermore, all equipotential bonding conductors must be connected to the potential equalization busbar in such a way that they are clearly arranged, that they can be disconnected individually and accessed at any time and, depending on their function, they must be provided with captive marking. The WAGO power distribution disconnect terminal blocks meet these requirements.

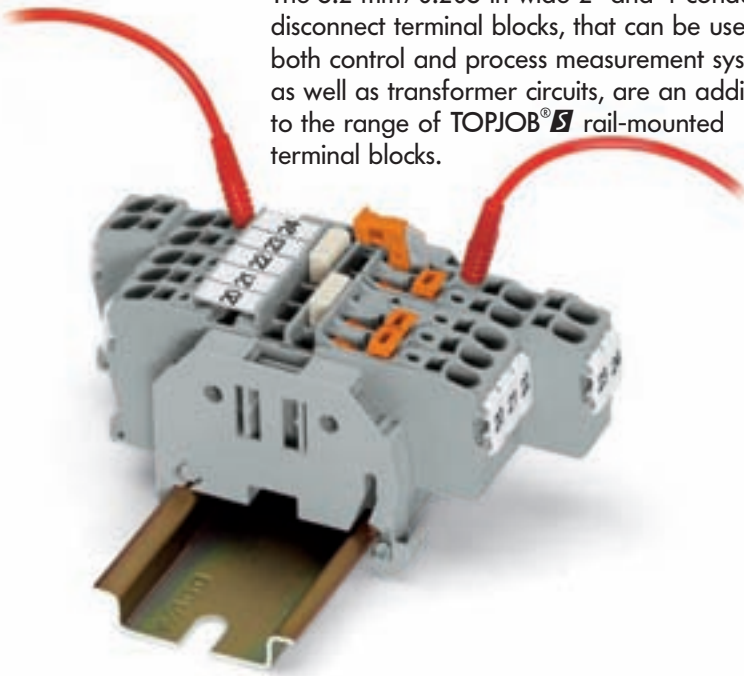
TOPJOB® S

Movable knife disconnects clearly indicate the circuit state.



2- and 4-conductor disconnect terminal blocks

The 5.2 mm/0.205 in wide 2- and 4-conductor disconnect terminal blocks, that can be used in both control and process measurement systems as well as transformer circuits, are an addition to the range of TOPJOB® S rail-mounted terminal blocks.



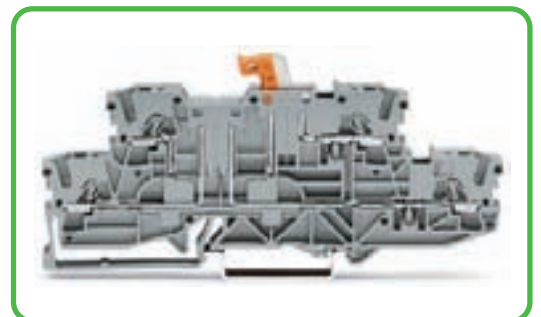
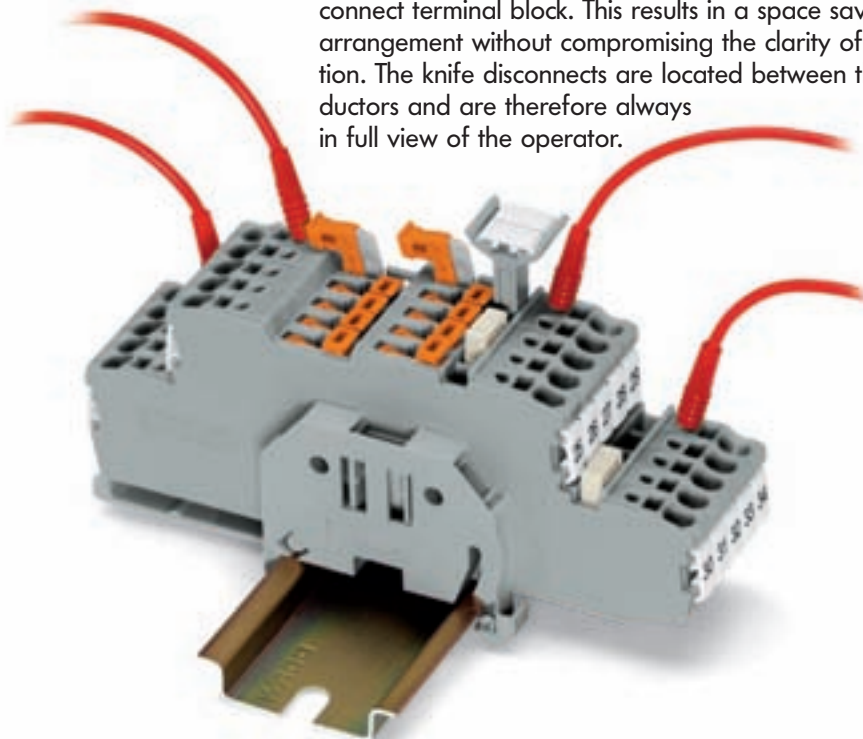
Two lateral and one center marker receptacle for WMB markers or marking strips. Dual jumper slots, in the same position as the other 2002 Series terminal blocks. Commoning options in front of or behind the knife disconnect, depending on which is the power supply side.



Additional marking option using pivoting marking adapters.

Double deck double disconnect terminal blocks

Disconnect terminal blocks of independent potentials are accommodated on two levels in a double deck disconnect terminal block. This results in a space saving arrangement without compromising the clarity of operation. The knife disconnects are located between the conductors and are therefore always in full view of the operator.



One disconnect and one through terminal block are accommodated on two levels in a terminal block that is only 5.2 mm/0.205 in wide.

Diode terminal blocks

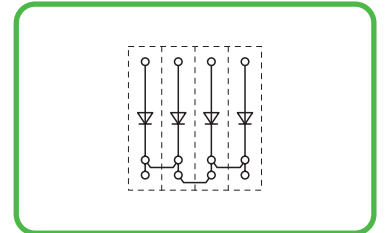


These diode terminal blocks have been specially developed for custom diode circuits such as lamp test and collective fault signal circuits.

Using LED terminal blocks, monitoring units can be designed for control and operating circuits.

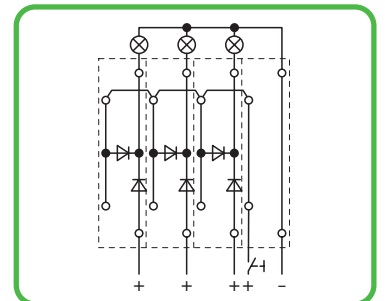
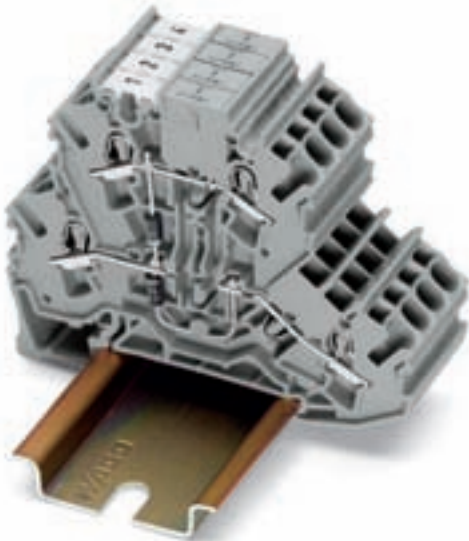
The terminal blocks provide high density wiring maintaining a width of only 5.2 mm/0.205 in.

Using push-in type jumper bars opens up additional possibilities when designing custom circuits.



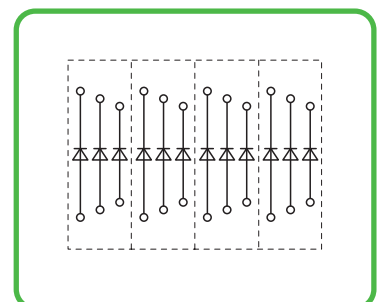
Polarized diode gate, common cathode

Double deck diode terminal blocks



Lamp test circuit

Triple deck diode terminal blocks

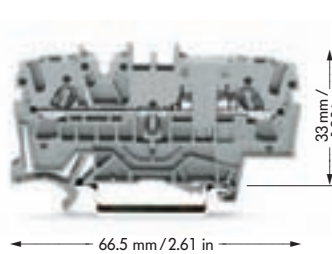
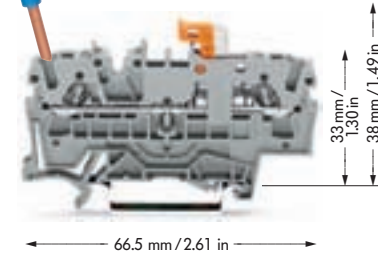
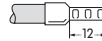


Open diode gate, can be connected individually. Using push-in type jumper bars, individual levels can be turned into polarized diode gates.

Disconnect Terminal Blocks for Test and Measurement with Movable Knife Disconnect and Through Terminal Blocks, Series 2002

<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 I_N 16 A Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p>	<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 I_N 16 A Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p>
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① can be connected: 0.25 mm² – 4 mm² "s + f-st";
 can be pushed in directly: 0.75 mm² – 4 mm² "s" and
 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm / 0.472 in"



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
2-conductor disconnect terminal block for test and measurement		2-conductor through terminal blocks,	
grey	2002-1671	same profile as disconnect terminal block	
blue	2002-1674	grey	2002-1601
orange	2002-1672	blue	2002-1604
		orange	2002-1602

Item-specific accessories

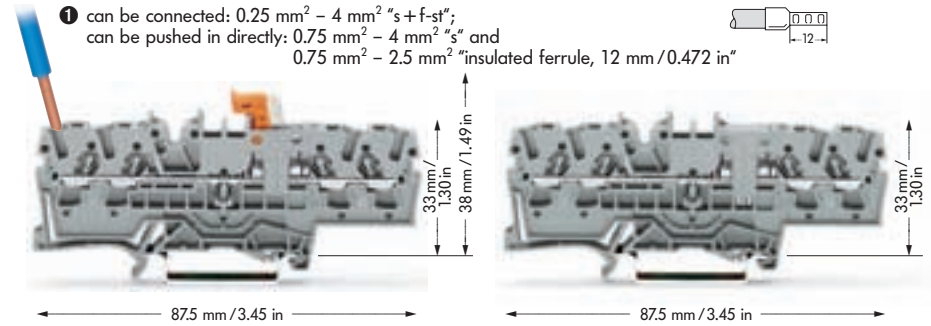
<p>End and intermediate plate, 1 mm / 0.039 in thick</p> <p>orange 2002-1692 100 (4 x 25) grey 2002-1691 100 (4 x 25)</p>	<p>End and intermediate plate, 1 mm / 0.039 in thick</p> <p>orange 2002-1692 100 (4 x 25) grey 2002-1691 100 (4 x 25)</p>
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Accessories Series 2002

appropriate marker system **WMB/Marker strips/WMB Inline** (see Full Line Catalog W4 Volume 1, Section 14)

<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>light grey 2002-171 0.25-0.5 mm² dark grey 2002-172 0.75-1 mm²</p>	<p>Protective warning marker,</p> <p>for 5 terminal blocks yellow 2002-115 100 (4 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N 25 A</p> <p>2-way 2002-402 200 (8 x 25) 3-way 2002-403 200 (8 x 25) 4-way 2002-404 200 (8 x 25) 5-way 2002-405 100 (4 x 25) : : 10-way 2002-410 100 (4 x 25)</p>	<p>Staggered jumper, light grey, insulated, I_N 25 A</p> <p>2-way 2002-472 100 (4 x 25) 3-way 2002-473 100 (4 x 25) 4-way 2002-474 100 (4 x 25) 5-way 2002-475 50 (2 x 25) : : 12-way 2002-482 50 (2 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N 25 A</p> <p>1 - 3 2002-433 200 (8 x 25) 1 - 4 2002-434 200 (8 x 25) 1 - 5 2002-435 100 (4 x 25) : : 1 - 10 2002-440 100 (4 x 25)</p>	<p>Test plug adapter, for test plug Ø 4 mm / 0.157 in</p> <p>2009-174 100 (4 x 25)</p>
<p>Modular TOPJOB® connector,</p> <p>for jumper contact slot 1 pole 2002-511 100 (4 x 25)</p>	<p>Testing tap, for max. 2.5 mm² / AWG 14</p> <p>2009-182 100 (4 x 25)</p>
<p>Spacer, modular 2002-549 100 (4 x 25)</p>	<p>Two-way marking adapter,</p> <p>pivotable 2002-121 50 (4 x 25)</p>
<p>Test plug, with cable 500 mm / 17.7"</p> <p>Ø 2 mm / 0.079 in red 210-136 50 (5 x 10)</p>	

<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 I_N 16 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p>	<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 I_N 16 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p>
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
4-conductor disconnect terminal block for test and measurement		4-conductor through terminal blocks,	
grey	2002-1871	same profile as disconnect terminal block	
blue	2002-1874	grey	2002-1801
orange	2002-1872	blue	2002-1804
		orange	2002-1802

Item-specific accessories




<p>End and intermediate plate, 1 mm / 0.039 in thick</p> <p>orange 2002-1892 100 (4 x 25) grey 2002-1891 100 (4 x 25)</p>	<p>End and intermediate plate, 1 mm / 0.039 in thick</p> <p>orange 2002-1892 100 (4 x 25) grey 2002-1891 100 (4 x 25)</p>
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Accessories Series 2002

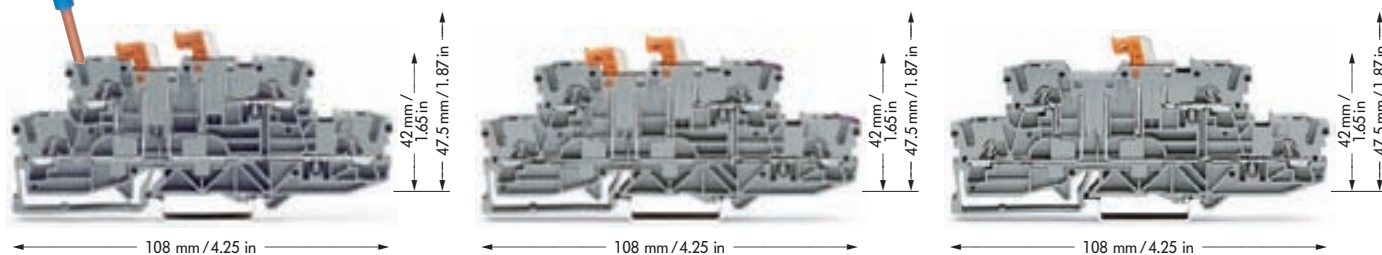
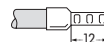
appropriate marker system WMB/Marker strips/WMB Inline (see Full Line Catalog W4 Volume 1, Section 14)

<p>Insulation stop, 5 pcs/strip 200 strips</p> <p>light grey 2002-171 0.25-0.5 mm² dark grey 2002-172 0.75-1 mm²</p>	<p>Protective warning marker,</p> <p>for 5 terminal blocks yellow 2002-115 100 (4 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N 25 A</p> <p>2-way 2002-402 200 (8 x 25) 3-way 2002-403 200 (8 x 25) 4-way 2002-404 200 (8 x 25) 5-way 2002-405 100 (4 x 25) : 10-way 2002-410 100 (4 x 25)</p>	<p>Staggered jumper, light grey, insulated, I_N 25 A</p> <p>2-way 2002-472 100 (4 x 25) 3-way 2002-473 100 (4 x 25) 4-way 2002-474 100 (4 x 25) 5-way 2002-475 50 (2 x 25) : 12-way 2002-482 50 (2 x 25)</p>
<p>Push-in type jumper bars, light grey, insulated, I_N 25 A</p> <p>1 - 3 2002-433 200 (8 x 25) 1 - 4 2002-434 200 (8 x 25) 1 - 5 2002-435 100 (4 x 25) : 1 - 10 2002-440 100 (4 x 25)</p>	<p>Test plug adapter, for test plug Ø 4 mm / 0.157 in</p> <p>2009-174 100 (4 x 25)</p>
<p>Modular TOPJOB® connector**, for jumper contact slot</p> <p>1 pole 2002-511 100 (4 x 25)</p>	<p>Testing tap, for max. 2.5 mm² / AWG 14</p> <p>2009-182 100 (4 x 25)</p>
<p>Spacer, modular 2002-549 100 (4 x 25)</p>	<p>Two-way marking adapter, pivotable</p> <p>2002-121 50 (4 x 25)</p>
<p>Test plug, with cable 500 mm / 17.7"</p> <p>Ø 2 mm / 0.079 in red 210-136 50 (5 x 10)</p>	

TOPJOB® Double Deck Double Disconnect Terminal Blocks for Test and Measurement with Movable Knife Disconnect, Series 2002

0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 I _N 16 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in	0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 I _N 16 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in	0.25 – 2.5 (4) mm² ① AWG 22 – 12 400 V/6 kV/3 I _N 16 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in
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① can be connected: 0.25 mm² – 4 mm² "s + f-st";
 can be pushed in directly: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm/0.472 in"



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
4-conductor double deck double disconnect terminal blocks		4-conductor double deck double disconnect terminal blocks, lower deck and upper deck internally commoned on right side and with violet marking		4-conductor double deck double disconnect terminal blocks, with disconnect on upper deck only, same profile as double deck double disconnect terminal blocks	
grey	2002-2951 ●	grey	2002-2958 ●	grey	2002-2971 ●
blue	2002-2954 ●	blue	2002-2959 ●	blue	2002-2974 ●
grey N/L	2002-2952 ●			grey N/L	2002-2972 ●




Item-specific accessories

End and intermediate plate, 1 mm / 0.039 in thick orange 2002-2992 100 (4 x 25) grey 2002-2991 100 (4 x 25)	End and intermediate plate, 1 mm / 0.039 in thick orange 2002-2992 100 (4 x 25) grey 2002-2991 100 (4 x 25)	End and intermediate plate, 1 mm / 0.039 in thick orange 2002-2992 100 (4 x 25) grey 2002-2991 100 (4 x 25)
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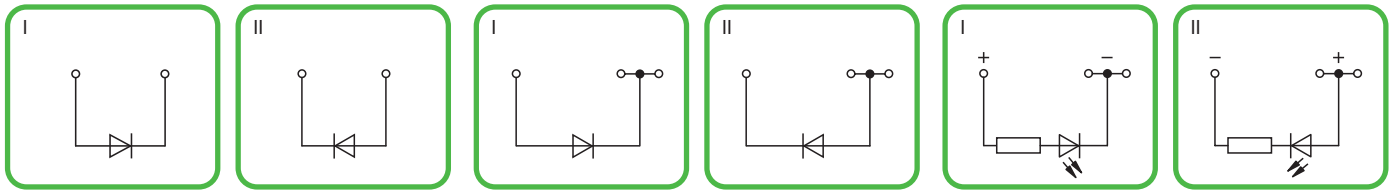
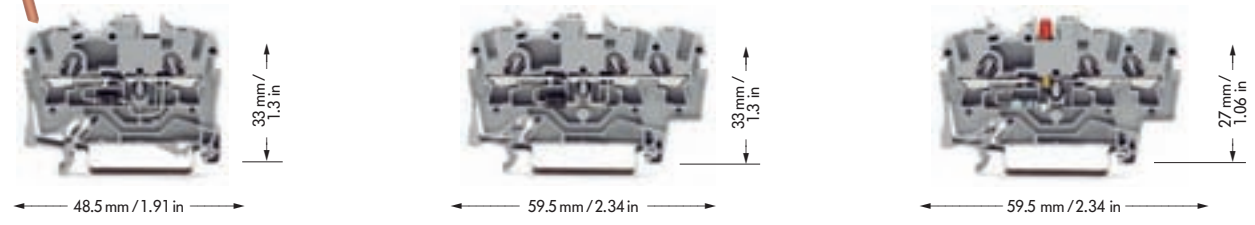
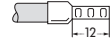
Accessories Series 2002

appropriate marker system **WMB/Marker strips/WMB Inline** (see also Full Line Catalog W4 Volume 1, Section 14)

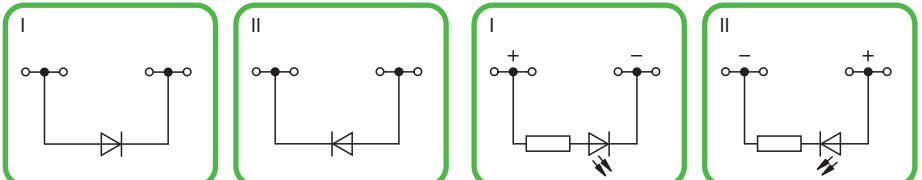
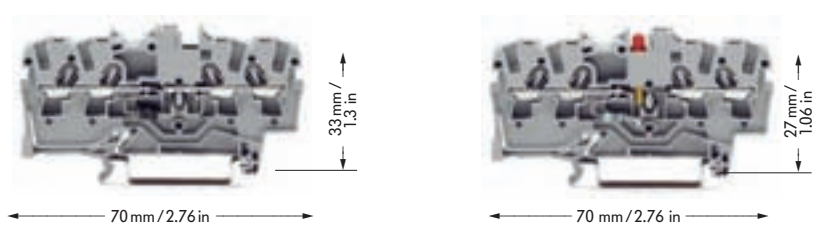
Insulation stop, 5 pcs/strip 200 strips light grey 2002-171 0.25-0.5 mm ² dark grey 2002-172 0.75-1 mm ²	Protective warning marker, for 5 terminal blocks yellow 2002-115 100 (4 x 25)	Test plug, with cable 500 mm / 1'7.7" Ø 2 mm / 0.079 in red 210-136 50 (5 x 10)
Push-in type jumper bars, light grey, insulated, I_N 25 A 2-way 2002-402 200 (8 x 25) 3-way 2002-403 200 (8 x 25) 4-way 2002-404 200 (8 x 25) 5-way 2002-405 100 (4 x 25) : 10-way 2002-410 100 (4 x 25)	Push-in type jumper bars, light grey, insulated, I_N 25 A 1 - 3 2002-433 200 (8 x 25) 1 - 4 2002-434 200 (8 x 25) 1 - 5 2002-435 100 (4 x 25) : 1 - 10 2002-440 100 (4 x 25)	Staggered jumper, light grey, insulated, I_N 25 A 2-way 2002-472 100 (4 x 25) 3-way 2002-473 100 (4 x 25) 4-way 2002-474 100 (4 x 25) 5-way 2002-475 50 (2 x 25) : 12-way 2002-482 50 (2 x 25)
Modular TOPJOB® connector**, for jumper contact slot 1 pole 2002-511 100 (4 x 25)	Test plug adapter, for test plug Ø 4 mm / 0.157 in 2009-174 100 (4 x 25)	
Spacer, modular 2002-549 100 (4 x 25)	Testing tap, for max. 2.5 mm² / AWG 14 2009-182 100 (4 x 25)	

<p>0.25 – 1.5 (2.5) mm² AWG 22 – 14 U_N 250 V; U_{RM} 1000 V 1 N 4007 – 0.5 A continuous current Terminal block width 4.2 mm / 0.165 in  9 – 11 mm / 0.39 in</p>	<p>0,25 – 1,5 (2.5) mm² AWG 22 – 14 U_N 250 V; U_{RM} 1000 V 1 N 4007 – 0.5 A continuous current Terminal block width 4.2 mm / 0.165 in  9 – 11 mm / 0.39 in</p>	<p>0.25 – 1.5 (2.5) mm² AWG 22 – 14 DC 24 V I_f 0.025 A max. Terminal block width 4.2 mm / 0.165 in  9 – 11 mm / 0.39 in</p>
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① can be connected: 0.25 mm² – 4 mm² "s + f-st";
 can be pushed in directly: 0.5 mm² – 2.5 mm² "s" and 0.75 mm² – 1.5 mm² "insulated ferrule, 12 mm/0.472 in"






Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
2-cond. diode term. blocks with diode 1 N 4007		3-cond. diode term. blocks with diode 1 N 4007		3-cond. LED term. blocks with red LED, DC 24 V	
Circuit I, grey	2001-1211/1000-410 100	Circuit I, grey	2001-1311/1000-410 100	Circuit I, grey	2001-1321/1000-434 100
Circuit II, grey	2001-1211/1000-411 100	Circuit II, grey	2001-1311/1000-411 100	Circuit II, grey	2001-1321/1000-413 100
Examples of circuit configuration see page see 21		Examples of circuit configuration see page see 21		Examples of circuit configuration see page see 21	
Through terminal block with the same shape		Through terminal block with the same shape		Through terminal block with the same shape	
grey	2001-1201	grey	2001-1301	grey	2001-1301
End and intermediate plate, 0.8 mm/0.032 in thick		End and intermediate plate, 0.8 mm/0.032 in thick		End and intermediate plate, 0.8 mm/0.032 in thick	
orange	2002-1292 100 (4 x 25)	orange	2002-1392 100 (4 x 25)	orange	2002-1392 100 (4 x 25)
grey	2002-1291 100 (4 x 25)	grey	2002-1391 100 (4 x 25)	grey	2002-1391 100 (4 x 25)

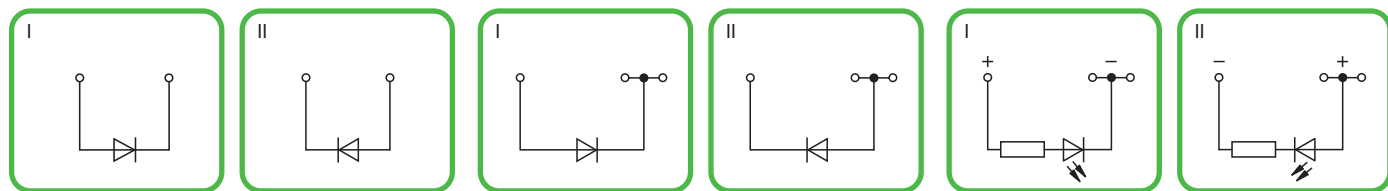
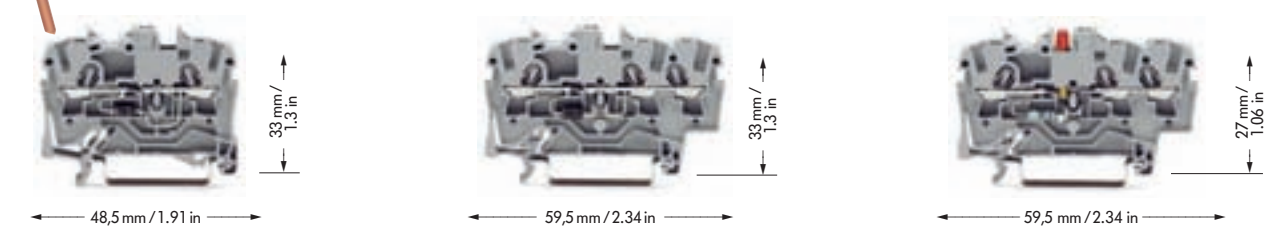


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
4-cond. diode term. blocks with diode 1 N 4007		4-cond. LED term. blocks with red LED, DC 24 V	
Circuit I, grey	2001-1411/1000-410 100	Circuit I, grey	2001-1421/1000-434 100
Circuit II, grey	2001-1411/1000-411 100	Circuit II, grey	2001-1421/1000-413 100
Examples of circuit configuration see page see 21		Examples of circuit configuration see page see 21	
Through terminal block with the same shape		Through terminal block with the same shape	
grey	2001-1401	grey	2001-1401
End and intermediate plate, 0.8 mm/0.032 in thick		End and intermediate plate, 0.8 mm/0.032 in thick	
orange	2002-1492 100 (4 x 25)	orange	2002-1492 100 (4 x 25)
grey	2002-1491 100 (4 x 25)	grey	2002-1491 100 (4 x 25)

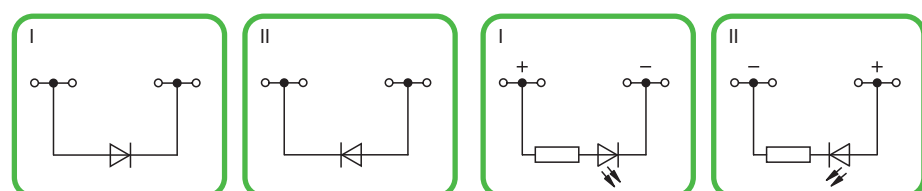
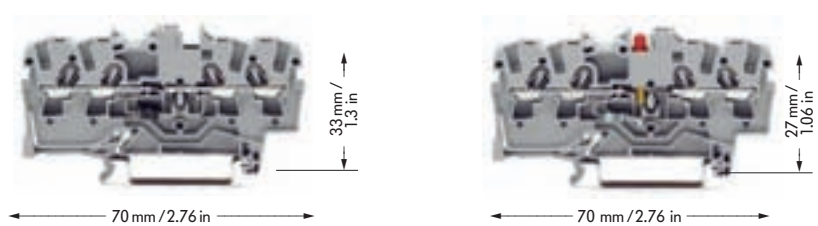
TOPJOB® Diode Terminal Blocks 2.5 (4) mm² / AWG 12 and LED Terminal Blocks 2.5 (4) mm²; Series 2002

0.25 – 2.5 (4) mm² AWG 22 – 12 U _N 250 V; U _{RM} 1000 V 1 N 4007 – 0.5 A continuous current Terminal block width 5,2 mm / 0.205 in  10 – 12 mm / 0.43 in	0.25 – 2.5 (4) mm² AWG 22 – 12 U _N 250 V; U _{RM} 1000 V 1 N 4007 – 0.5 A continuous current Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in	0.25 – 2.5 (4) mm² AWG 22 – 12 DC 24 V I _f 0.025 A max. Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in
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① can be connected: 0.25 mm² – 4 mm² "s+f-st";
 can be pushed in directly: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm/0.472 in"







Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
2-cond. diode term. blocks with diode 1 N 4007		3-cond. diode term. blocks with diode 1 N 4007		3-cond. LED term. blocks with red LED, DC 24 V	
Circuit I, grey	2002-1211/1000-410 100	Circuit I, grey	2002-1311/1000-410 100	Circuit I, grey	2002-1321/1000-434 100
Circuit II, grey	2002-1211/1000-411 100	Circuit II, grey	2002-1311/1000-411 100	Circuit II, grey	2002-1321/1000-413 100
Examples of circuit configuration see page see 21		Examples of circuit configuration see page see 21		Examples of circuit configuration see page see 21	
Through terminal block with the same shape		Through terminal block with the same shape		Through terminal block with the same shape	
grey	2002-1201	grey	2002-1301	grey	2002-1301
End and intermediate plate, 0.8 mm/0.032 in thick		End and intermediate plate, 0.8 mm/0.032 in thick		End and intermediate plate, 0.8 mm/0.032 in thick	
orange	2002-1292 100 (4 x 25)	orange	2002-1392 100 (4 x 25)	orange	2002-1392 100 (4 x 25)
grey	2002-1291 100 (4 x 25)	grey	2002-1391 100 (4 x 25)	grey	2002-1391 100 (4 x 25)



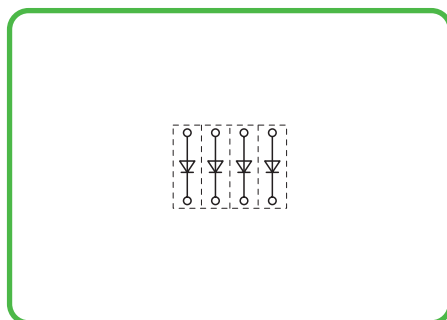
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
4-cond. diode term. blocks with diode 1 N 4007		4-cond. LED term. blocks with red LED, DC 24 V	
Circuit I, grey	2002-1411/1000-410 100	Circuit I, grey	2002-1421/1000-434 100
Circuit II, grey	2002-1411/1000-411 100	Circuit II, grey	2002-1421/1000-413 100
Examples of circuit configuration see page see 21		Examples of circuit configuration see page see 21	
Through terminal block with the same shape		Through terminal block with the same shape	
grey	2002-1401	grey	2002-1401
End and intermediate plate, 0.8 mm/0.032 in thick		End and intermediate plate, 0.8 mm/0.032 in thick	
orange	2002-1492 100 (4 x 25)	orange	2002-1492 100 (4 x 25)
grey	2002-1491 100 (4 x 25)	grey	2002-1491 100 (4 x 25)

Accessories Series 2001	Accessories Series 2002	
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Push-in type jumper bars , light grey, insulated, I _N 18 A		Push-in type jumper bars , light grey, insulated, I _N 25 A	
	2-way 2001-402 200 (8 x 25)		2-way 2002-402 200 (8 x 25)
	3-way 2001-403 200 (8 x 25)		3-way 2002-403 200 (8 x 25)
	4-way 2001-404 200 (8 x 25)		4-way 2002-404 200 (8 x 25)
	5-way 2001-405 100 (4 x 25)		5-way 2002-405 100 (4 x 25)
	: :		: :
	10-way 2001-410 100 (4 x 25)		10-way 2002-410 100 (4 x 25)
Push-in type jumper bars , light grey, insulated, I _N 18 A		Push-in type jumper bars , light grey, insulated, I _N 25 A	
	1 - 3 2001-433 200 (8 x 25)		1 - 3 2002-433 200 (8 x 25)
	1 - 4 2001-434 200 (8 x 25)		1 - 4 2002-434 200 (8 x 25)
	1 - 5 2001-435 100 (4 x 25)		1 - 5 2002-435 100 (4 x 25)
	: :		: :
	1 - 10 2001-440 100 (4 x 25)		1 - 10 2002-440 100 (4 x 25)

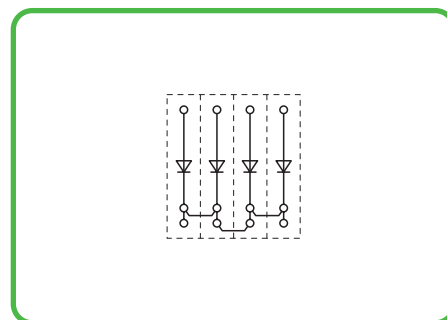
Examples of circuit configuration

2-conductor diode terminal block



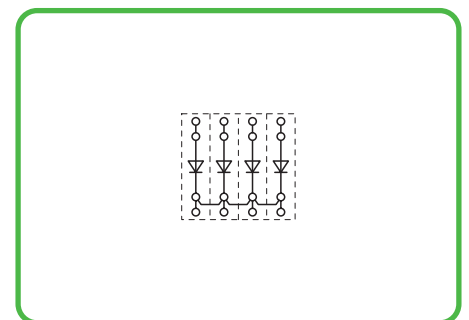
Open diode gate

3-conductor diode terminal block



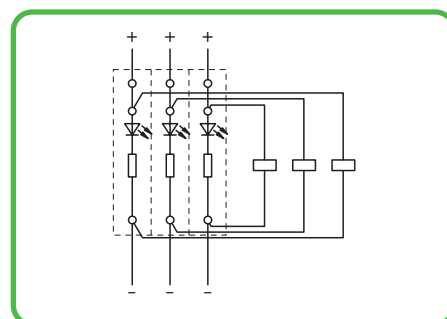
Polarized diode gate, common cathode

4-conductor diode terminal block



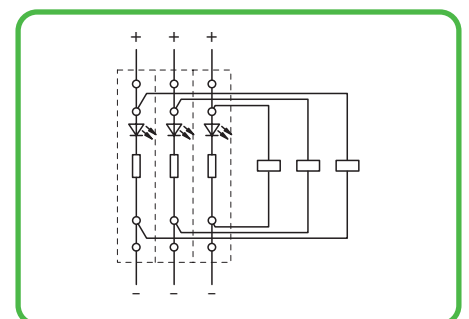
Polarized diode gate, common cathode

3-conductor LED terminal block



Voltage indication

4-conductor LED terminal block



Voltage indication

Double Deck Diode Terminal Blocks / Double Deck LED Terminal Blocks 2.5 mm²/4 mm² / AWG 12, Series 2002

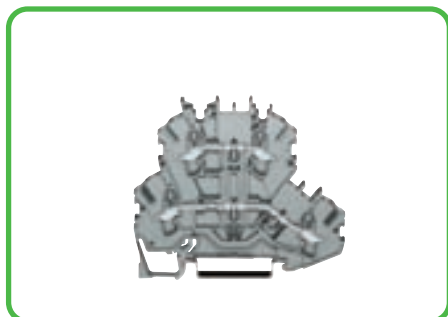
0.25 – 2.5 (4) mm² ① | AWG 22 – 12
U_N 250 V; U_{RM} 1000 V
1 N 4007 – 0.5 A continuous current

Terminal block width 5.2 mm / 0.205 in
10 – 12 mm / 0.43 in

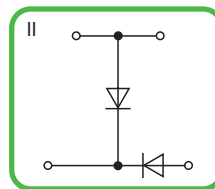
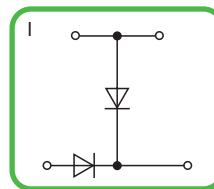
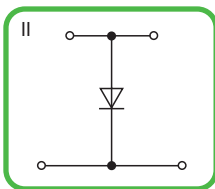
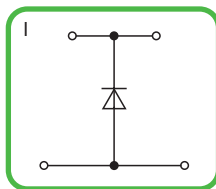
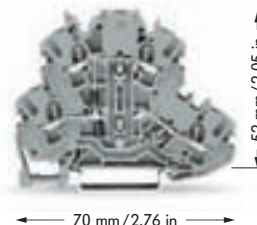
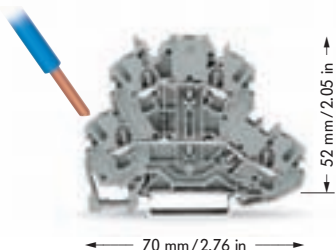
0.25 – 2.5 (4) mm² ① | AWG 22 – 12
U_N 250 V; U_{RM} 1000 V
1 N 4007 – 0.5 A continuous current

Terminal block width 5.2 mm / 0.205 in
10 – 12 mm / 0.43 in

① can be connected: 0.25 mm² – 4 mm² "s + f-st";
can be pushed in directly: 0.75 mm² – 4 mm² "s" and
0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm/0.472 in"



Through terminal blocks with the same shape see page 6



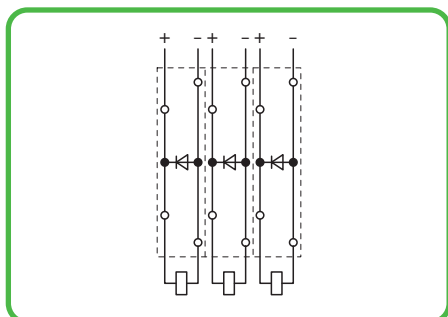
Description	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
Double deck diode terminal block	Double deck diode terminal blocks		Double deck diode terminal blocks	
and	with diode 1 N 4007		with 2 diodes 1 N 4007	
double deck LED terminal block, for DIN 35 rail	Circuit I, grey	2002-2211/1000-0410 50	Circuit I, grey	2002-2214/1000-0492 50
	Circuit II, grey	2002-2211/1000-0411 50	Circuit II, grey	2002-2214/1000-0491 50

Accessories

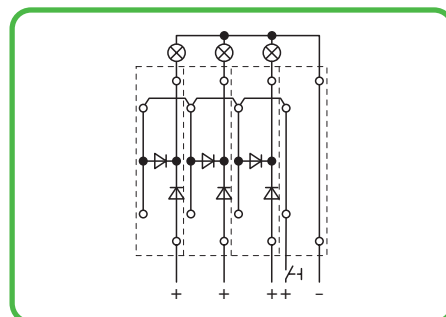
Appropriate marking system **WMB/WMB Inline** (see also Full Line Catalog W4 Volume 1, Section 14)

	0.8 mm / 0.032 in thick	0.8 mm / 0.032 in thick
	End and intermediate plate	
	orange 2002-2292 100 (4 x 25) grey 2002-2291 100 (4 x 25)	orange 2002-2292 100 (4 x 25) grey 2002-2291 100 (4 x 25)
	Push-in type jumper bars, light grey, insulated, I _N 25 A	
	2-way 2002-402 200 (8 x 25)	2-way 2002-402 200 (8 x 25)
	3-way 2002-403 200 (8 x 25)	3-way 2002-403 200 (8 x 25)
	4-way 2002-404 200 (8 x 25)	4-way 2002-404 200 (8 x 25)
	5-way 2002-405 100 (4 x 25)	5-way 2002-405 100 (4 x 25)
	:	:
10-way 2002-410 100 (4 x 25)	10-way 2002-410 100 (4 x 25)	
	Push-in type jumper bars, light grey, insulated, I _N 25 A	
	1 - 3 2002-433 200 (8 x 25)	1 - 3 2002-433 200 (8 x 25)
	1 - 4 2002-434 200 (8 x 25)	1 - 4 2002-434 200 (8 x 25)
	1 - 5 2002-435 100 (4 x 25)	1 - 5 2002-435 100 (4 x 25)
	:	:
	1 - 10 2002-440 100 (4 x 25)	1 - 10 2002-440 100 (4 x 25)
	Two-way marking adapter, pivotal	
	2002-121 50 (2 x 25)	2002-121 50 (2 x 25)




Examples of circuit configuration

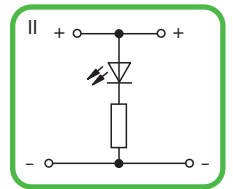
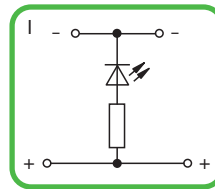
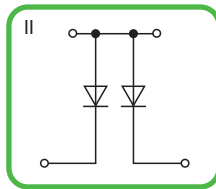
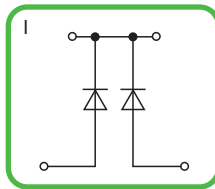
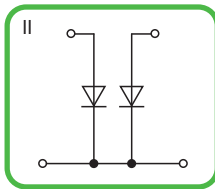
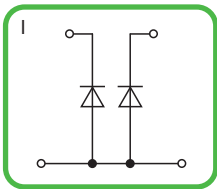
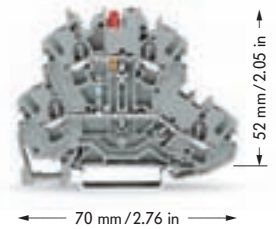
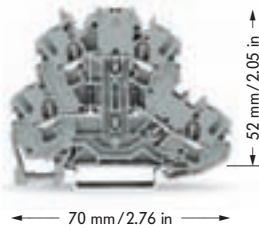
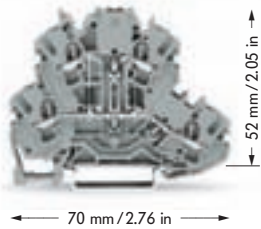


Used as recovery diodes



Used in lamp test circuit

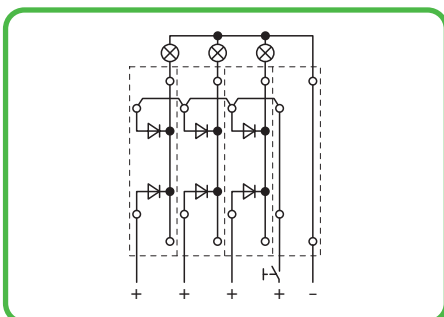
<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 U_N 250 V; U_{RM} 1000 V 1 N 4007 – 0.5 A continuous current</p> <p>Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in</p>	<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 U_N 250 V; U_{RM} 1000 V 1 N 4007 – 0.5 A continuous current</p> <p>Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in</p>	<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 DC 24 V I_f 25 mA max.</p> <p>Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in</p>
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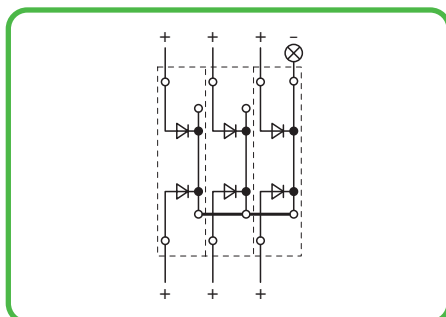
Item No.	Pack. unit pcs	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
Double deck diode terminal blocks with 2 diodes 1 N 4007		Double deck diode terminal blocks with 2 diodes 1 N 4007		Double deck LED terminal blocks with red LED, DC 24 V	
Circuit I, grey	2002-2213/1000-0487 50	Circuit I, grey	2002-2214/1000-0489 50	Circuit I, grey	2002-2221/1000-0434 50
Circuit II, grey	2002-2213/1000-0488 50	Circuit II, grey	2002-2214/1000-0490 50	Circuit II, grey	2002-2221/1000-0413 50

Appropriate marking system **WMB/WMB Inline** (see also Full Line Catalog W4 Volume 1 Section 14)

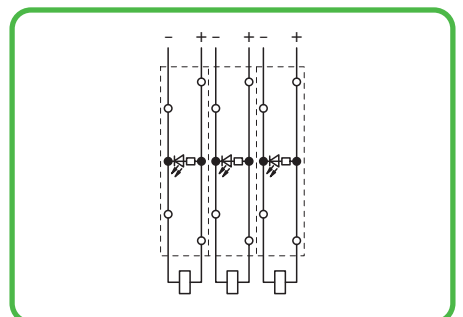
0.8 mm / 0.032 in thick			0.8 mm / 0.032 in thick			0.8 mm / 0.032 in thick		
orange	2002-2292	100 (4 x 25)	orange	2002-2292	100 (4 x 25)	orange	2002-2292	100 (4 x 25)
grey	2002-2291	100 (4 x 25)	grey	2002-2291	100 (4 x 25)	grey	2002-2291	100 (4 x 25)
2-way	2002-402	200 (8 x 25)	2-way	2002-402	200 (8 x 25)	2-way	2002-402	200 (8 x 25)
3-way	2002-403	200 (8 x 25)	3-way	2002-403	200 (8 x 25)	3-way	2002-403	200 (8 x 25)
4-way	2002-404	200 (8 x 25)	4-way	2002-404	200 (8 x 25)	4-way	2002-404	200 (8 x 25)
5-way	2002-405	100 (4 x 25)	5-way	2002-405	100 (4 x 25)	5-way	2002-405	100 (4 x 25)
:	:		:	:		:	:	
10-way	2002-410	100 (4 x 25)	10-way	2002-410	100 (4 x 25)	10-way	2002-410	100 (4 x 25)
1 - 3	2002-433	200 (8 x 25)	1 - 3	2002-433	200 (8 x 25)	1 - 3	2002-433	200 (8 x 25)
1 - 4	2002-434	200 (8 x 25)	1 - 4	2002-434	200 (8 x 25)	1 - 4	2002-434	200 (8 x 25)
1 - 5	2002-435	100 (4 x 25)	1 - 5	2002-435	100 (4 x 25)	1 - 5	2002-435	100 (4 x 25)
:	:		:	:		:	:	
1 - 10	2002-440	100 (4 x 25)	1 - 10	2002-440	100 (4 x 25)	1 - 10	2002-440	100 (4 x 25)
	2002-121	50 (2 x 25)		2002-121	50 (2 x 25)		2002-121	50 (2 x 25)



Used in lamp test circuit



Used for collective fault indication



Used for voltage indication

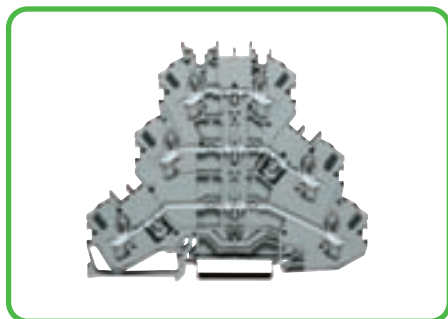
Triple Deck Diode Terminal Blocks / Triple Deck LED Terminal Blocks
2.5 mm²/4 mm² / AWG 12, Series 2002

0.25 – 2.5 (4) mm² ① | AWG 22 – 12
 U_N 250 V; U_{RM} 1000 V
 1 N 4007 – 0.5 A continuous current


Terminal block width 5.2 mm / 0.205 in
 10 – 12 mm / 0.43 in

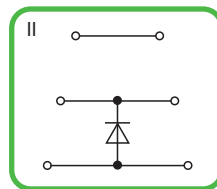
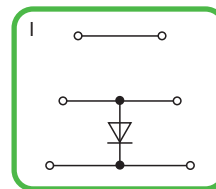
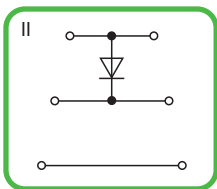
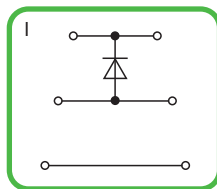
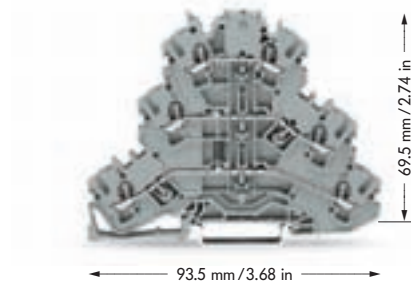
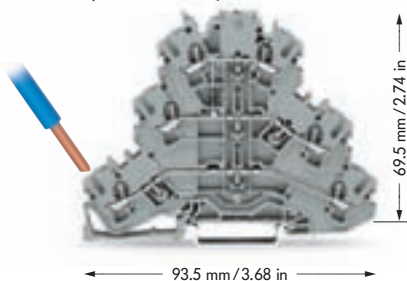
0.25 – 2.5 (4) mm² ① | AWG 22 – 12
 U_N 250 V; U_{RM} 1000 V
 1 N 4007 – 0.5 A continuous current

Terminal block width 5.2 mm / 0.205 in
 10 – 12 mm / 0.43 in



Through terminal blocks with the same shape see page 7





① can be connected: 0.25 mm² – 4 mm² "s + f-st";
 can be pushed in directly: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm/0.472 in" 





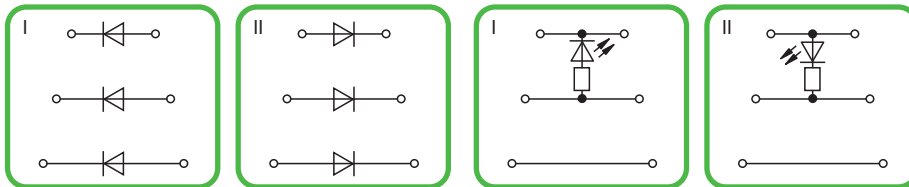
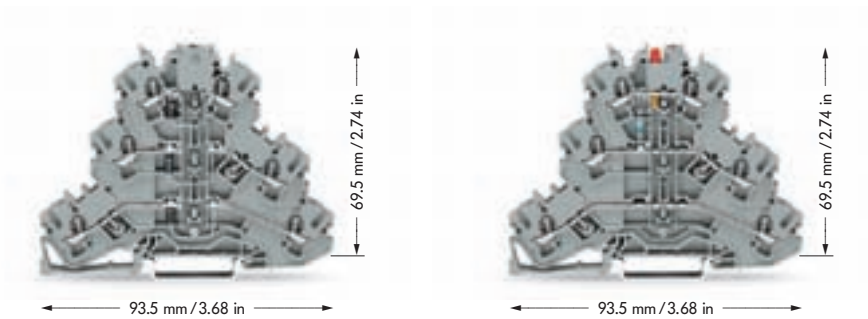
Description	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
Triple deck diode terminal block	Triple deck diode terminal blocks with diode 1 N 4007		Triple deck diode terminal blocks with diode 1 N 4007	
and				
Triple deck LED terminal block, for DIN 35 rail	Circuit I, grey	2002-3211/1000-0410 50	Circuit I, grey	2002-3211/1000-0675 50
	Circuit II, grey	2002-3211/1000-0411 50	Circuit II, grey	2002-3211/1000-0676 50

Accessories

Appropriate marking system **WMB/WMB Inline** (see also Full Line Catalog W4 Volume 1, Section 14)

		0.8 mm / 0.032 in thick		0.8 mm / 0.032 in thick
	End and intermediate plate	orange	2002-3292 100 (4 x 25)	orange 2002-3292 100 (4 x 25)
		grey	2002-3291 100 (4 x 25)	grey 2002-3291 100 (4 x 25)
	Push-in type jumper bars, light grey, insulated, I_N 25 A	2-way	2002-402 200 (8 x 25)	2-way 2002-402 200 (8 x 25)
		3-way	2002-403 200 (8 x 25)	3-way 2002-403 200 (8 x 25)
		4-way	2002-404 200 (8 x 25)	4-way 2002-404 200 (8 x 25)
		5-way	2002-405 100 (4 x 25)	5-way 2002-405 100 (4 x 25)
		:	:	:
		10-way	2002-410 100 (4 x 25)	10-way 2002-410 100 (4 x 25)
	Push-in type jumper bars, light grey, insulated, I_N 25 A	1 - 3	2002-433 200 (8 x 25)	1 - 3 2002-433 200 (8 x 25)
		1 - 4	2002-434 200 (8 x 25)	1 - 4 2002-434 200 (8 x 25)
		1 - 5	2002-435 100 (4 x 25)	1 - 5 2002-435 100 (4 x 25)
		:	:	:
		1 - 10	2002-440 100 (4 x 25)	1 - 10 2002-440 100 (4 x 25)
	Two-way marking adapter, pivotable		2002-131 50 (2 x 25)	2002-131 50 (2 x 25)

<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 U_N 250 V; U_{RM} 1000 V 1 N 4007 – 0.5 A continuous current</p> <p>Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in</p>	<p>0.25 – 2.5 (4) mm² ① AWG 22 – 12 DC 24 V I_F 25 mA max.</p> <p>Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in</p>
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Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
Triple deck diode terminal blocks with 3 diodes 1 N 4007		Triple deck LED terminal blocks with red LED, DC 24 V	
Circuit I, grey	2002-3212/1000-0673 50	Circuit I, grey	2002-3221/1000-0434 50
Circuit II, grey	2002-3212/1000-0674 50	Circuit II, grey	2002-3221/1000-0413 50

Appropriate marking system **WMB/WMB Inline** (see also Full Line Catalog W4 Volume 1 Section 14)

0.8 mm / 0.032 in thick			0.8 mm / 0.032 in thick		
orange	2002-3292	100 (4 x 25)	orange	2002-3292	100 (4 x 25)
grey	2002-3291	100 (4 x 25)	grey	2002-3291	100 (4 x 25)
2-way	2002-402	200 (8 x 25)	2-way	2002-402	200 (8 x 25)
3-way	2002-403	200 (8 x 25)	3-way	2002-403	200 (8 x 25)
4-way	2002-404	200 (8 x 25)	4-way	2002-404	200 (8 x 25)
5-way	2002-405	100 (4 x 25)	5-way	2002-405	100 (4 x 25)
:	:		:	:	
10-way	2002-410	100 (4 x 25)	10-way	2002-410	100 (4 x 25)
1 - 3	2002-433	200 (8 x 25)	1 - 3	2002-433	200 (8 x 25)
1 - 4	2002-434	200 (8 x 25)	1 - 4	2002-434	200 (8 x 25)
1 - 5	2002-435	100 (4 x 25)	1 - 5	2002-435	100 (4 x 25)
:	:		:	:	
1 - 10	2002-440	100 (4 x 25)	1 - 10	2002-440	100 (4 x 25)
	2002-131	50 (2 x 25)		2002-131	50 (2 x 25)

Push-in Type Wire Jumpers and Star Point Jumpers

Wire jumpers Nominal voltage: 800 V/8 kV/3 Nominal current: 16 A Nominal cross section: 1.5 mm ² /AWG 16 Conductor lengths: 60/110/250 mm 2.36/4.33/9.84 in	Star point jumpers Nominal voltage: 800 V/8 kV/3 Nominal current: $I_N \triangleq I_N$ Terminal block of the relevant series
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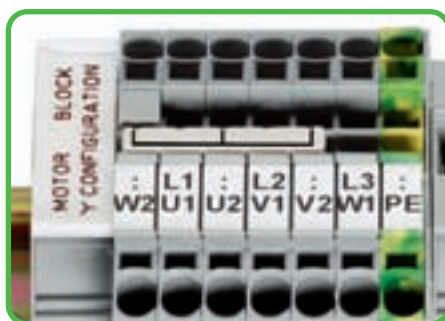


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Push-in type wire jumpers, insulated, conductor cross section 1.5 mm ² /AWG 16, suitable for rail-mounted terminal blocks series 2001 and 2002		Star Point Jumpers, light grey, insulated suitable for series	
Wire length		2002	2002-0405/0011-000
60 mm / 2.36 in	2009-412	10	
		2004	2004-0405/0011-000
110 mm / 4.33 in	2009-414	10	
		2006	2006-0405/0011-000
250 mm / 9.84 in	2009-416	10	
		2010	2010-0405/0011-000
		2016	2016-0405/0011-000

Applications notes



Push down the wire jumper until fully inserted. Lift the jumper with a screwdriver for rewiring.



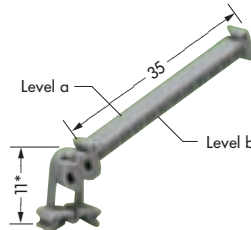
This jumper has been specially developed to create a "star point" and is used on motor terminal boards equipped with TOPJOB® rail-mounted terminal blocks.

Finger Guard Cover

Pivotable Group marker carrier

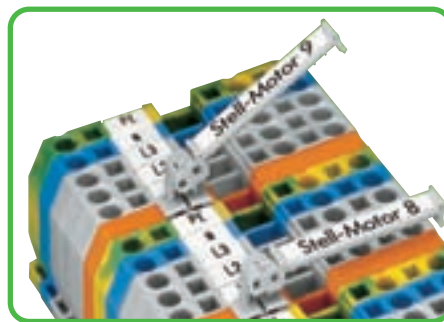
Group Marker Carriers Series 2009

Finger guard cover for TOPJOB® rail-mounted terminal blocks	WAGO pivotable group marker carrier – for TOPJOB® rail-mounted terminal blocks – for rail-mounted terminal blocks from 5 mm/0.197 in on and in spacer housings	TOPJOB® group marker carriers, Module width 5 mm / 0.197 in Module width 10 mm / 0.394 in Module width 15 mm / 0.591 in for marker cards and self-adhesive marker cards
-----------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



* from upper edge of terminal block

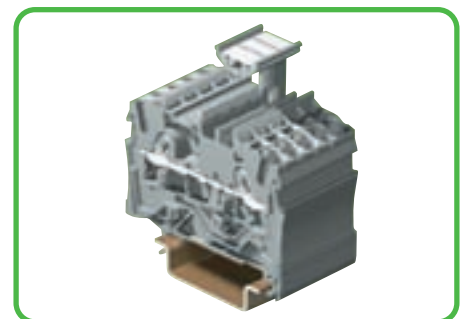
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Finger guard cover, serves as touchproof protection for unused clamping units		Pivotable group marker carrier		TOPJOB® group marker carriers, snap-on type for jumper slot	
		249-105	50	5 mm/0.197 in wide 2009-191	50
for TOPJOB® rail-mounted terminal blocks series		Marker card, 4 x 30 pcs per sheet		10 mm/0.394 in wide 2009-192	50
2010	2010-100	209-183	1 sheet	15 mm/0.591 in wide 2009-193	50
	100 (4 x 25)	Protection cover, transparent		WAGO Multi marking system WMB, miniature WSB Quick marking system, marker strips, 11 mm/0.433 in wide	
2016	2016-100	209-184	50	for marker cards and self-adhesive marker cards	
	100 (4 x 25)			2009-196	50
				(see also Full Line Catalog W4 Volume 1, Section 14)	



Insert finger guard cover into unused clamping unit

This pivotable group marker carrier has been developed for group marking of rail-mounted terminal blocks and brings together many requirements of our customers.

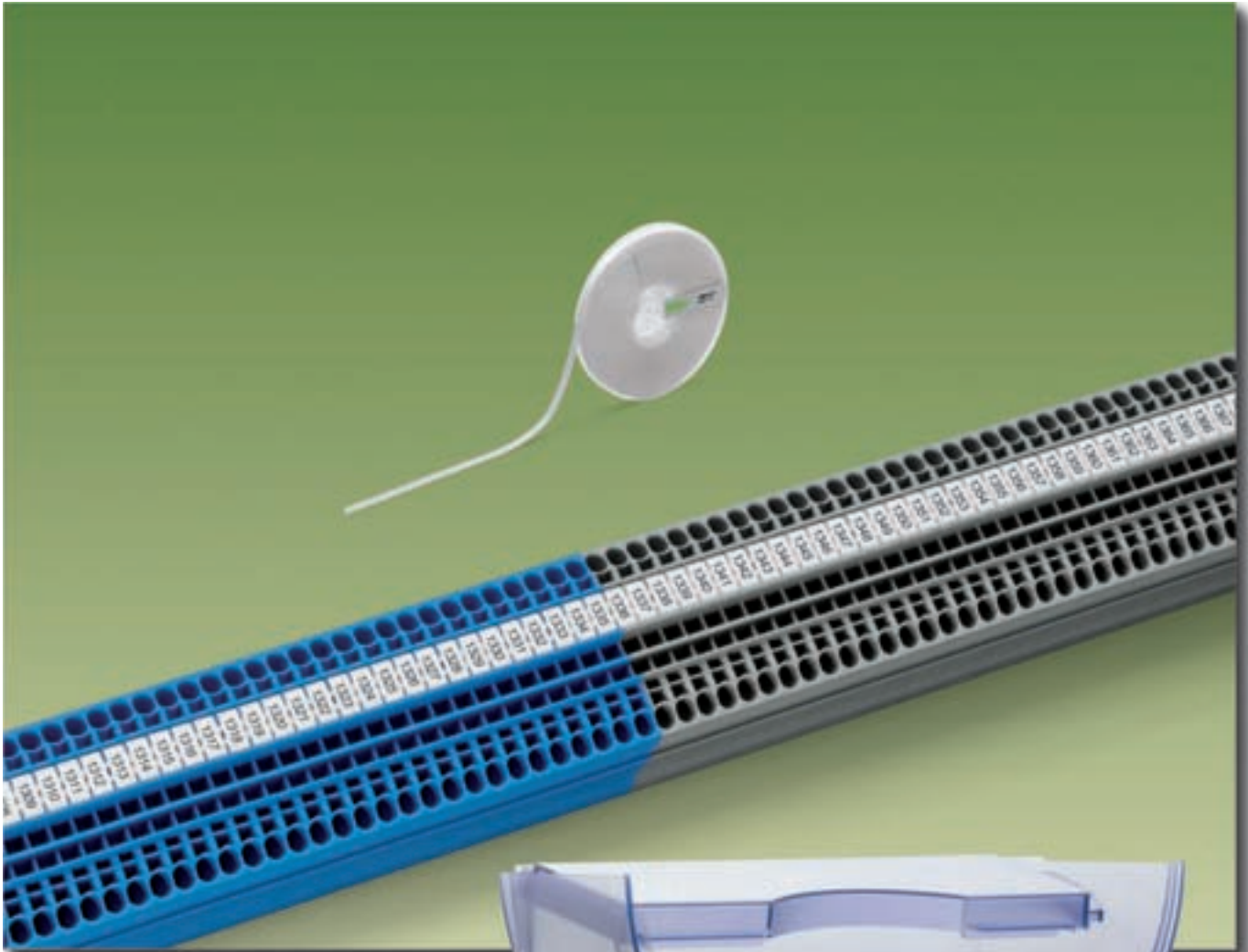
- Can be used in all multiprofile marker receptacles for rail-mounted terminal blocks from 5 mm width on or in spacer housings as shown in the picture
- Pivotable in 7 different stable positions, providing the best visual angle in case of difficult mounting conditions
- Two levels for different marking systems
 Level a:
 for marker card (4 x 34) mm (see picture)
 Level b:
 for 12 WCB-Combi markers (see left column)



TOPJOB® group marker carrier (equipped with WMB Multi marking system). Suitable for all TOPJOB® rail-mounted terminal blocks from Series 2001 to 2016

1 WAGO Marking System WMB Inline Series 2009

VOLUME 1



Marking

WMB or miniature WSB markers can be used in three positions of the TOPJOB[®] products. Moreover, a full length marking strip can be used in the top position of a terminal block. The terminal blocks from 1.5 mm²/AWG 16 to 6 mm²/AWG 10 as well as 10 mm²/AWG 8 and 16 mm²/AWG 6 are at the same height which allows quick marking even of terminal blocks of different sizes. The WAGO "smart Designer" software and a thermal transfer printer generate the marking.

WMB – Inline

- Markers "from the roll" save time and money
- A thermal transfer printer and the WAGO "smart Designer" software generate the marking
- Markers fit 5 mm / 0.197 in and 5.2 mm / 0.205 in wide terminal blocks and can hence be used for all 2.5 mm² WAGO rail-mounted terminal blocks
- Can be separated easily
- When separated they can also be fitted on all wider WAGO rail-mounted terminal blocks



WMB Inline, pitch 5 mm / 0.197 in,
for 5 mm / 0.197 in and 5.2 mm / 0.205 in,
on roll, 10 m
white **2009-115** 1 roll
1500 markers / roll

The Range of Rail Mounted Terminal Blocks
for Wire Sizes Ranging from 6 mm² – 95 mm²/AWG 8 to AWG 4/0

Connecting conductors up to 95 mm²/AWG 4/0 with a turn of the hand

The 285 Series of rail-mounted terminal blocks are suitable for applications with rated currents up to 232 A. Based on a unique patented technology, the largest version,

285-195, rated for **25-95 mm²/AWG 4 to AWG 4/0** has been holding its ground in the market for many years.

Now, two additional terminal blocks for wire sizes down to 6 mm² (AWG 8) have been added to the range:

285-135, **6-35 mm²/AWG 8 to AWG 2**

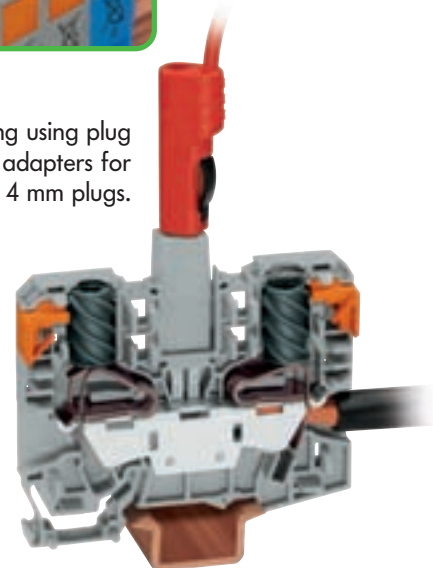
285-150, **10-50 mm²/AWG 8 to 2/0 (70 mm² "f-st")**.

Operation of these new terminals is essentially the same as the 95 mm² terminal block. **The 35 mm² terminal block has the following differences.**



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

Testing using plug adapters for Ø 4 mm plugs.



Commoning adjacent terminal blocks using centrally positioned adjacent jumper.



Move the marking strip laterally to remove the jumper.

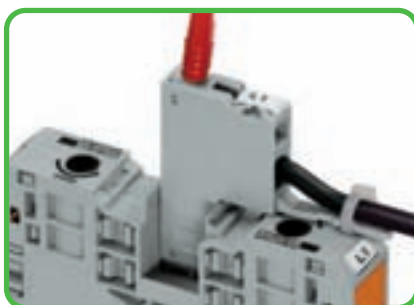
Counter-clockwise rotation using a screwdriver 5.5 mm/ 0.217 in. Hold clamp in open position using the latch.



Introduce stripped wire into the clamping unit up to the stop and hold it in position . . .



. . . A small counter-clockwise rotation releases the latch ①. Once the screwdriver ② has been removed the conductor is safely clamped.



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

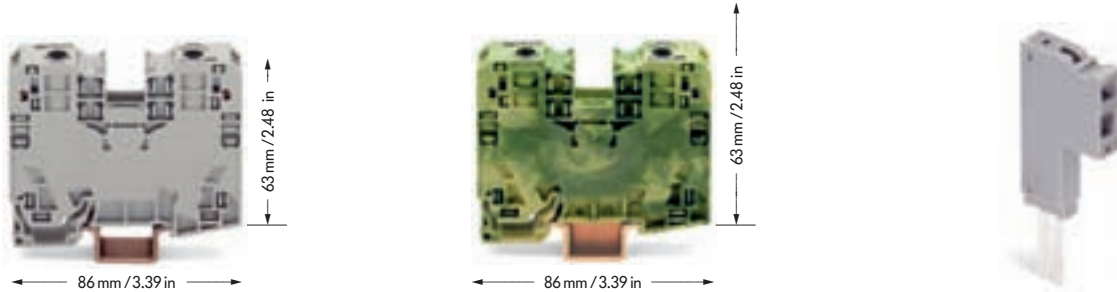


Side entry wiring means that even larger cables, which are flexible to a limited degree, can be connected without a problem.

High Current Through/Ground (Earth) Conductor Terminal Blocks

35 mm²/AWG 2, Series 285, Side-entry

<p>6 – 35 mm² 1000 V/8 kV/3 Ⓛ I_N 125 A</p> <p>AWG 8 – 2 600 V, 115 A ⚡ 600 V</p> <p>Terminal block width 16 mm / 0.63 in 25 – 26 mm / 0.98 in</p>	<p>6 – 35 mm² AWG 8 – 2</p> <p>Terminal block width 16 mm / 0.63 in 25 – 26 mm / 0.98 in</p>	<p>0.2 – 6 mm² 800 V/8 kV/3 I_N 32 A</p> <p>AWG 24 – 10</p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p>
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


Item No.	Pack. unit pcs	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
2-conductor through terminal blocks		2-conductor ground (earth) terminal blocks		Voltage tap,	
grey 285-135 ●	15	green-yellow 285-137 ●	15	grey 285-427 ●	5
blue 285-134 ●	15				
To be used exclusively on DIN 35 x 15; 2.3 mm / 0.091 in thick		To be used exclusively on DIN 35 x 15; 2.3 mm / 0.091 in thick, Cu			
Accessories Appropriate marking system WMB/Marker strips (see W4 Volume 1, Section 14)			Appropriate marking system WMB		
Adjacent jumper, insulated, I _N 100 A for 1 jumper I _N 85 A for 2 to 4 jumpers grey 285-435 50 (2 x 25)		Adjacent jumper, insulated, I _N 100 A for 1 jumper I _N A for 2 to 4 jumpers grey 285-435 50 (2 x 25)		Strain relief plate, snap-on type for voltage tap grey 769-410 100 (4 x 25)	
Screwdriver with partially insulated shaft, type 3, blade 5.5 x 0.8 mm / 0.217 in x 0.031 in 210-621 1		crewdriver with partially insulated shaft, type 3, blade 5.5 x 0.8 mm / 0.217 in x 0.031 in 210-621 1		Test plug, with cable 500 mm/17.7" 2 mm Ø, red 210-136 50 (5 x 10)	
Protective warning marker, with high voltage symbol, black yellow 285-420 50 (2 x 25)		Protective warning marker, with high voltage symbol, black yellow 285-420 50 (2 x 25)		Ⓛ 1000 V = rated voltage 8 kV = rated surge voltage 3 = pollution degree (see also Full Line Catalog W4 Volume 1, Section 15)	
Finger guard cover, serves as touchproof protection for unused clamping units yellow 285-421 25		Finger guard cover, serves as touchproof protection for unused clamping units yellow 285-421 25			
Test plug adapter, 11.6 mm/4.57 in wide, for test plug 4 mm/0.157 in Ø 283-404 25		Test plug adapter, 11.6 mm/4.57 in wide, for test plug 4 mm/0.157 in Ø 283-404 25			
Test plug, Ø 4 mm/0.157 in, protected against accidental contact, not offered by WAGO e. g. Fa. Multi-Contact Deutschland GmbH Postfach 16 06 · 79551 Weil am Rhein Hegenheimerstraße 19 · 79576 Weil am Rhein		Test plug, Ø 4 mm/0.157 in, protected against accidental contact, not offered by WAGO e. g. Fa. Multi-Contact Deutschland GmbH Postfach 16 06 · 79551 Weil am Rhein Hegenheimerstraße 19 · 79576 Weil am Rhein			

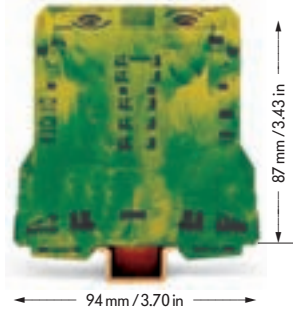
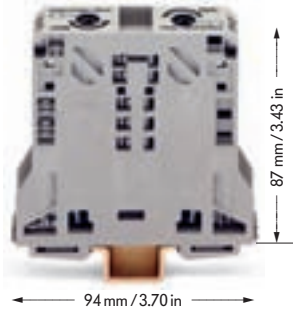
High Current Through/Ground (Earth) Conductor Terminal Blocks

50 (70 "f-st") mm²/AWG 2/0; Series 285, Side-entry













VOLUME 1

<p>10 – 50 (70 "f-st") mm² AWG 8 – 2/0 1000 V/8 kV/3 Ⓢ I_N 150 A</p> <p>Terminal block width 20 mm / 0.78 in  30 mm / 1.18 in</p>	<p>10 – 50 (70 "f-st") mm² AWG 8 – 2/0</p> <p>Terminal block width 20 mm / 0.78 in  30 mm / 1.18 in</p>	<p>2 x 0,2 – 6 mm² AWG 24 – 10 1000 V/8 kV/3 I_N 41 A</p> <p>Module width 16 mm / 0.63 in  12 – 13 mm / 0.49 in</p>
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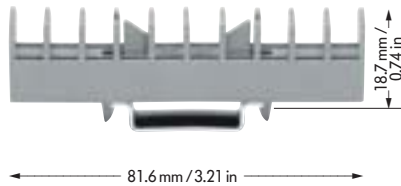
Item No.	Pack. unit pcs	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
2-conductor through terminal blocks		2-conductor ground (earth) terminal blocks		Voltage tap,	
grey 285-150 ●	5	green-yellow 285-157 ●	5	grey 285-447 ●	5
blue 285-154 ●	5				
To be used exclusively on DIN 35 x 15; 2.3 mm / 0.091 in thick		To be used exclusively on DIN 35 x 15; 2.3 mm / 0.091 in thick, Cu			

Accessories Appropriate marking system **WMB** (see Full Line Catalog W4 Volume 1, Section 14) Appropriate marking system **WMB**

<p>Adjacent jumper, insulated, I_N 150 A grey 285-450 25</p> 	<p>Adjacent jumper, insulated, I_N 150 A grey 285-450 25</p> 	<p>① 1000 V = rated voltage 8 kV = rated surge voltage 3 = pollution degree (see also Full Line Catalog W4 Volume 1, Section 15)</p>
<p>Hex wrench with partially insulated shaft 285-172 1</p> 	<p>Hex wrench with partially insulated shaft 285-172 1</p> 	
<p>Protective warning marker, with high voltage symbol, black yellow 285-420 50 (2 x 25)</p> 	<p>Protective warning marker, with high voltage symbol, black yellow 285-420 50 (2 x 25)</p> 	
<p>Finger guard cover, serves as touchproof protection for unused clamping units yellow 285-421 25</p> 	<p>Finger guard cover, serves as touchproof protection for unused clamping units yellow 285-421 25</p> 	
<p>Test plug, Ø 4 mm / 0.157 in, protected against accidental contact, not offered by WAGO e.g. Fa. Multi-Contact Deutschland GmbH Postfach 16 06 · 79551 Weil am Rhein Hegenheimerstraße 19 · 79576 Weil am Rhein</p> 	<p>Test plug, Ø 4 mm / 0.157 in, protected against accidental contact, not offered by WAGO e.g. Fa. Multi-Contact Deutschland GmbH Postfach 16 06 · 79551 Weil am Rhein Hegenheimerstraße 19 · 79576 Weil am Rhein</p> 	


Collective Carrier for Standard and Special Jumpers, Series 282

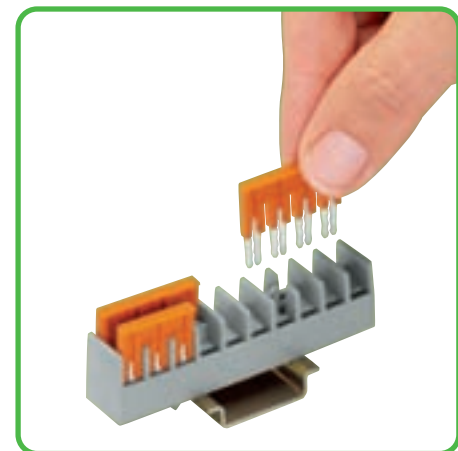
<p>Collective carrier for standard and special jumpers in longitudinal disconnect and transverse switch terminal blocks, Series 282, can be snapped onto DIN 35 rail Width 15.8 mm / 0.62 in (Δ 2 x pitch 8 mm)</p>		<p>Storage</p>
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Safe storage for jumpers that are only needed temporarily in longitudinal disconnect and transverse switch terminal blocks.

Jumpers are used as a "switch" for the transformer short circuit, for example with the longitudinal disconnect terminal blocks. Pre-locking positions in the terminal blocks hold the jumpers captive during normal operation. For users who prefer to store the jumpers outside the terminal block, the collective carrier is an ideal solution.

Item No.	Pack. unit pcs	
Collective carrier for jumpers		
282-369	25	
Suitable for jumpers for		
transverse switch t. bl.	282-811 and	
longitudinal disc. t. bl.	282-821	
Appropriate for the following jumpers:		
Jumpers, orange, I_N 30 A		
	2-way	282-432 50 (5 x 10)
	3-way	282-433 50 (5 x 10)
	4-way	282-434 50 (5 x 10)
	5-way	282-435 50 (5 x 10)
	6-way	282-436 50 (5 x 10)
	7-way	282-437 50 (5 x 10)
	8-way	282-438 50 (5 x 10)
	9-way	282-439 50 (5 x 10)
	10-way	282-440 50 (5 x 10)
Jumpers, special version, orange, I_N 30 A		
	3-way (1-3-5)	282-435/011-000 50 (5 x 10)
	4-way (1-3-5-7)	282-437/011-000 50 (5 x 10)



Insertion of a jumper

The collective carrier can be snapped onto DIN 35 rails. It serves as a depository for jumpers, e.g. during maintenance work.

Transformer test circuits and complex wiring tasks...

...are no problem and only require minimum space.



Customised jumpers are available on request

Application areas:

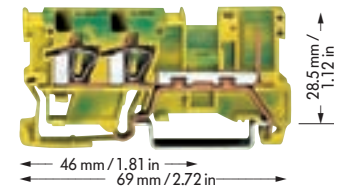
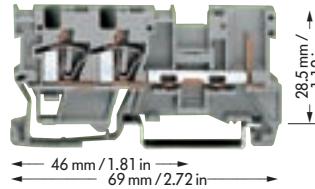
- Power supply
- Transformer test circuits

X-COM® SYSTEM

2-Conductor/1-Pin Receptacle Terminal Blocks

	<p>0.08 – 4 mm² AWG 28 – 12 500 V/6 kV/3 ① 300 V, 20 A ② I_N 32 A*</p> <p>Terminal block width 5 mm / 0.197 in  8 – 9 mm / 0.33 in</p> <p>* ② ③</p>	<p>0.08 – 4 mm² AWG 28 – 12</p> <p>Terminal block width 5 mm / 0.197 in  8 – 9 mm / 0.33 in</p> <p>* ② ③</p>
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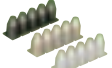




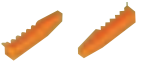






- ① 500 V = rated voltage
 6 kV = rated surge voltage
 3 = pollution degree
 (see also Full Line Catalog W4 Volume 1, Section 15)
- ② See application notes in our Full Line Catalog W4 Volume 1, pages 2.43 – 2.45



Description	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
2-conductor/1-pin receptacle terminal block, suitable for DIN 35 rail acc. to EN 50 022	2-conductor/1-pin receptacle terminal block grey	769-251 50	2-conductor/1-pin ground (earth) receptacle terminal block green-yellow	769-257 50

Accessories

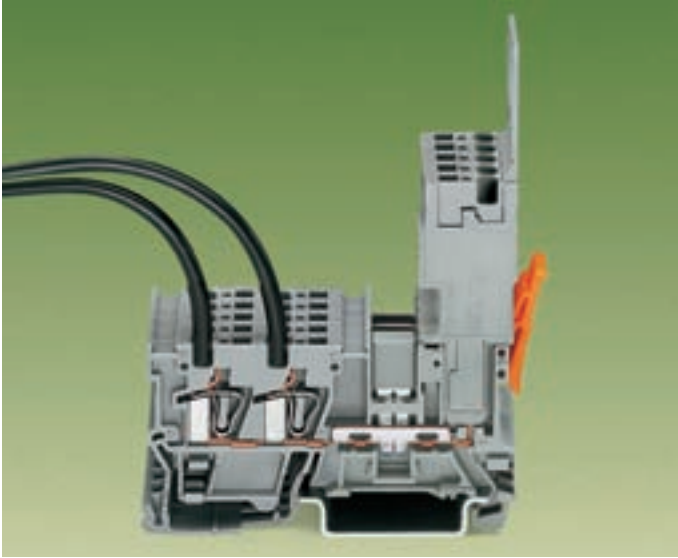
appropriate marking system **Mini-WSB** (see also Full Line Catalog W4 Volume 1, Section 14)

	End and intermediate plate 1.1 mm / 0.043 in thick	grey 769-320 100 (4 x 25) orange 769-321 100 (4 x 25)	1.1 mm / 0.043 in thick grey 769-320 100 (4 x 25) orange 769-321 100 (4 x 25)
	Screwless end stop 6 mm / 0.236 in wide 249-116 10 mm / 0.394 in wide 249-117	100 (4 x 25) 50 (2 x 25)	6 mm / 0.236 in wide 249-116 100 (4 x 25) 10 mm / 0.394 in wide 249-117 50 (2 x 25)
	Insulation stop ②, white 5 pcs/strip light grey dark grey	0.08 – 0.2 mm ² 769-470 200 strips 0.25 – 0.5 mm ² 769-471 200 strips 0.75 – 1 mm ² 769-472 200 strips	0.08 – 0.2 mm ² 769-470 200 strips 0.25 – 0.5 mm ² 769-471 200 strips 0.75 – 1 mm ² 769-472 200 strips
	Adjacent jumper, I _N 24 A insulated	grey 280-402 200 (8 x 25)	yellow-green 280-422 200 (8 x 25)
	Alternate jumper grey	280-409 100 (4 x 25)	grey 280-409 100 (4 x 25)
	Staggered jumper ②, from 1 to 2 insulated, from 1 to 3 width 5 mm / 0.197 in from 1 to 4 from 1 to 5 : from 1 to 8	I _N 24 A 780-452 100 (4 x 25) 780-453 100 (4 x 25) 780-454 100 (4 x 25) 780-455 50 (2 x 25) : 780-458 50 (2 x 25)	I _N 24 A 780-452 100 (4 x 25) 780-453 100 (4 x 25) 780-454 100 (4 x 25) 780-455 50 (2 x 25) : 780-458 50 (2 x 25)
	Push-in type wire jumper ②, insulated, 9 A – conductor cross section 0.75 mm ² /AWG 18	L = 60 mm / 2.362 in 249-125 10 L = 110 mm / 4.331 in 249-126 10 L = 250 mm / 9.843 in 249-127 10	L = 60 mm / 2.362 in 249-125 10 L = 110 mm / 4.331 in 249-126 10 L = 250 mm / 9.843 in 249-127 10
	Coding pin, for coding of female plugs	orange 769-435 100 (4 x 25)	orange 769-435 100 (4 x 25)
	Protective warning marker, for 5 terminal blocks, fits into screwdriver slot	yellow 280-415 100 (4 x 25)	
	Test plug, w. cable 500 mm / 1.77" 2 mm / 0.079 in Ø 2.3 mm / 0.091 in Ø	red 210-136 50 (5 x 10) yellow 210-137 50 (5 x 10)	red 210-136 50 (5 x 10) yellow 210-137 50 (5 x 10)
	Test plug module, for test using jumper position in current bar or cond. wire opening	Item numbers and application notes see Full Line Catalog W4 Volume, pages 2.38 – 2.40	Item numbers and application notes see Full Line Catalog W4 Volume 1, pages 2.38 – 2.40
	Test plug adapter 5 mm / 0.197 in wide 280-404 for test plug 210-137 (Ø 2.3 mm)	100 (4 x 25)	5 mm / 0.197 in wide 280-404 100 (4 x 25) for test plug 210-137 (Ø 2.3 mm)
	1-conductor female plug, straight or angled	see Full Line Catalog W4 Volume 1, pages 9.44/9.46	see Full Line Catalog W4 Volume 1, pages 9.44/9.46
	2-conductor female plug	see Full Line Catalog W4 Volume 1, page 9.45	see Full Line Catalog W4 Volume 1, page 9.45

*Further approvals with corresponding ratings can be found at www.wago.com

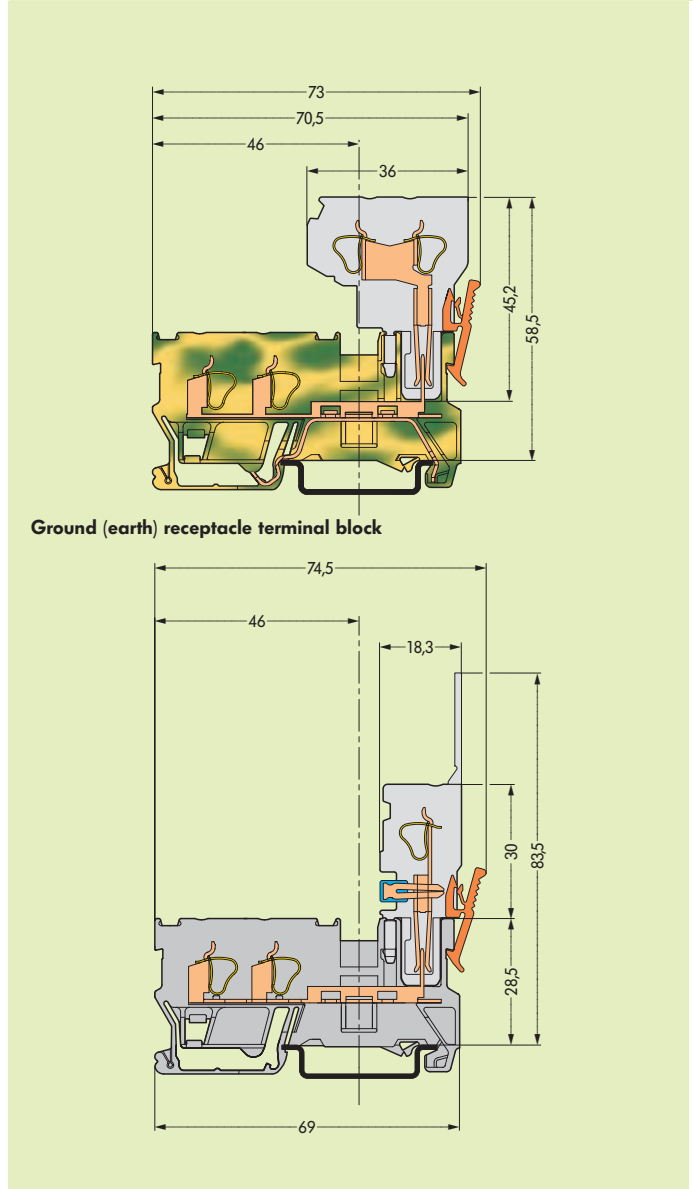
Types of Assembly

2-Conductor/1-pin Receptacle Terminal Blocks and 1-/2-Conductor Female Plugs



1-conductor female plug straight and angled **Commoning possibility of receptacle terminal blocks with jumper contact systems, series 280 and 780, and testing possibility with test plug adapter 280-4..**

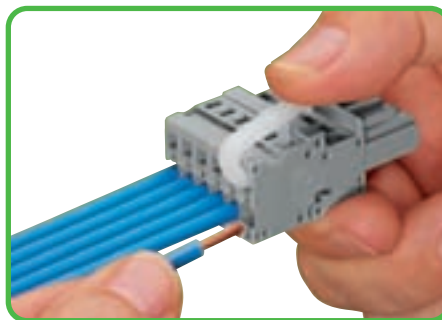
2-conductor female plug **Commoning possibility of receptacle terminal blocks only with adjacent jumpers and alternate jumpers, series 280**



Receptacle terminal block




Operating lever, loose,
for female plugs and male connectors
with CAGE CLAMP® connection
Item number: 769-434



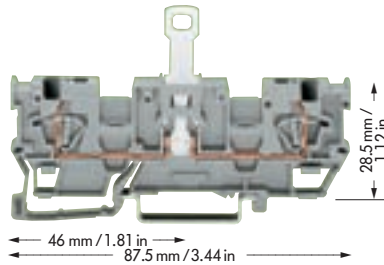
Wire connection using operating lever




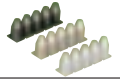


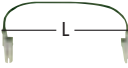

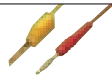
X-COM® SYSTEM

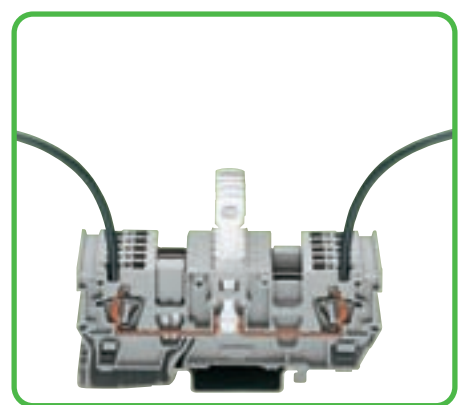
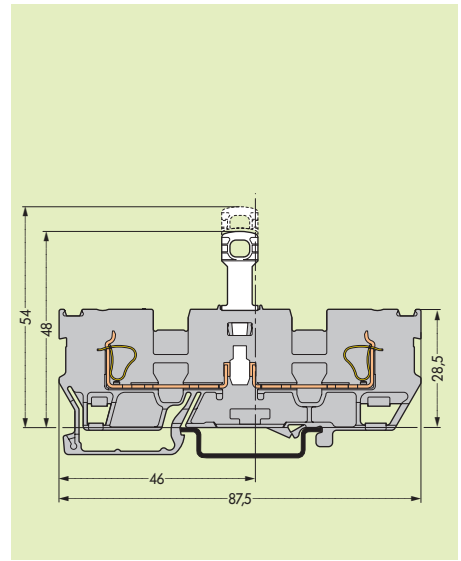
1-Conductor/1-Conductor Disconnect Receptacle Terminal Blocks with 2 Jumper Positions

0.08 – 4 mm² 400 V/6 kV/3 ① I_N 32 A	AWG 28 – 12 300 V, 10 A
Terminal block width 5 mm / 0.197 in  8 – 9 mm / 0.33 in	

- ① 500 V = rated voltage
 6 kV = rated surge voltage
 3 = pollution degree
 (see also Full Line Catalog W4 Volume 1, Section 15)
- ② See application notes in our Full Line Catalog W4 Volume 1, pages 2.43 – 2.45



Description	Item No.	Pack. unit pcs
1-conductor/1-conductor disconnect receptacle terminal block	1-cond./1-cond. disconnect receptacle term. block	
without/with shield (screen) contact and	grey 769-242	50
2 jumper positions,	1-cond./1-cond. disconnect receptacle term. block with shield (screen) contact (no picture)	
suitable for DIN 35 rail acc. to EN 60715	grey 769-243	50
Accessories appropriate marking system Mini-WSB (see also Full Line Catalog W4 Volume 1, Section 14)		
 End and intermediate plate	1.1 mm / 0.043 in thick	
	grey 769-317	100 (4 x 25)
	orange 769-318	100 (4 x 25)
 Separator plate, oversized	1.1 mm / 0.043 in thick	
	orange 769-319	100 (4 x 25)
 Screwless end stop		
	6 mm / 0.236 in wide 249-116	100 (4 x 25)
	10 mm / 0.394 in wide 249-117	50 (2 x 25)
 Insulation stop ②, white	0.08 – 0.2 mm ² 769-470	200 strips
5 pcs/strip	light grey 769-471	200 strips
	dark grey 769-472	200 strips
 Adjacent jumper, I _N 24 A	grey 280-402	200 (8 x 25)
insulated		
 Alternate jumper	grey 280-409	100 (4 x 25)
Staggered jumper ②, from 1 to 2	I _N 24 A 780-452	100 (4 x 25)
insulated, from 1 to 3	780-453	100 (4 x 25)
width 5 mm / 0.197 in from 1 to 4	780-454	100 (4 x 25)
from 1 to 5	780-455	50 (2 x 25)
:	:	:
from 1 to 8	780-458	50 (2 x 25)
 Push-in type wire jumper ②, L = 60 mm / 2.362 in	249-125	10
insulated, 9 A – conductor	L = 110 mm / 4.331 in 249-126	10
cross section 0.75 mm ² /AWG 18	L = 250 mm / 9.843 in 249-127	10
 Protective warning marker,		
for 5 terminal blocks	yellow 280-415	100 (4 x 25)
fits into screwdriver slot,		
 Test plug, w. cable 500 mm / 1.77"		
Ø 2 mm / 0.079 in	red 210-136	50 (5 x 10)
Ø 2.3 mm / 0.091 in	yellow 210-137	50 (5 x 10)



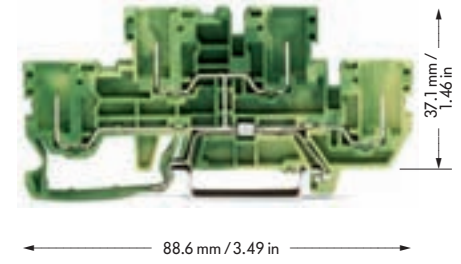
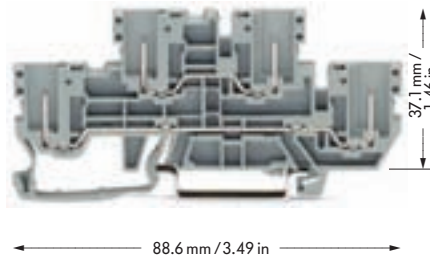
X-COM®-SYSTEM

2-Conductor/2-Pin Double Deck Receptacle Terminal Blocks

Series 870

	500 V/6 kV/3 ① I_N 16 A Terminal block width 5 mm / 0.197 in	Terminal block width 5 mm / 0.197 in
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① 500 V = rated voltage
 6 kV = rated surge voltage
 3 = pollution degree
 (see also Full Line Catalog W4
 Volume 1, Section 15)



Description	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
2-pin/2-pin double deck receptacle terminal block , suitable for DIN 35 rail	Through/through terminal blocks, housing color grey			
	L/L	870-151	50	
4-pin double deck receptacle terminal block , suitable for DIN 35 rail				4-pin ground (earth) conductor terminal block , internal commoning, housing color green-yellow
				PE
			870-157	50

Accessories

appropriate marking system **WMB/Mini-WSB** (see also Full Line Catalog W4 Volume 1, Section 14)

	End and intermediate plate	1 mm/0.039 in thick			1 mm/0.039 in thick		
	grey		870-168	100 (4 x 25)	grey	870-168	100 (4 x 25)
	orange		870-169	100 (4 x 25)	orange	870-169	100 (4 x 25)
	Push-in type jumper bars , light grey, insulated, I _N 18 A	2-way	870-402	200 (8 x 25)	2-way	870-402	200 (8 x 25)
		3-way	870-403	200 (8 x 25)	3-way	870-403	200 (8 x 25)
		4-way	870-404	200 (8 x 25)	4-way	870-404	200 (8 x 25)
		5-way	870-405	100 (4 x 25)	5-way	870-405	100 (4 x 25)
		:	:		:	:	
		10-way	870-410	100 (4 x 25)	10-way	870-410	100 (4 x 25)
	Push-in type jumper bars , light grey, insulated, I _N 18 A	from 1 to 3	870-433	200 (8 x 25)	from 1 to 3	870-433	200 (8 x 25)
		from 1 to 4	870-434	200 (8 x 25)	from 1 to 4	870-434	200 (8 x 25)
		from 1 to 5	870-435	100 (4 x 25)	from 1 to 5	870-435	100 (4 x 25)
		:	:		:	:	
		from 1 to 10	870-440	100 (4 x 25)	from 1 to 10	870-440	100 (4 x 25)
	Miniature WSB quick marking card , 10 strips with 10 markers each, white with black printing	see Full Line Catalog W4 Volume 1, Section 14			see Full Line Catalog W4 Volume 1, Section 14		
	1-connector female plug , straight	see Full Line Catalog W4 Volume 1, Section 9			see Full Line Catalog W4 Volume 1, Section 9		
	1-connector female plug , angled	see Full Line Catalog W4 Volume 1, Section 9			see Full Line Catalog W4 Volume 1, Section 9		

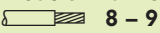

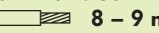
X-COM®-SYSTEM Blue Components

<p>0.08 – 4 mm² AWG 28 – 12 500 V/6 kV/3 ① 300/600 V, 10/5 A ② I_N 32 A**</p> <p>Module width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>* ② ③</p>	<p>0.08 – 4 mm² AWG 28 – 12 500 V/6 kV/3 ① 300/600 V, 10/5 A ② I_N 32 A**</p> <p>Module width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p>	<p>0.08 – 4 mm² AWG 28 – 12 500 V/6 kV/3 ① 300/600 V, 10/5 A ② I_N 32 A**</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p>
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No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs
1-conductor female plugs, with coding fingers, blue, commoning possibility with miniature adjacent jumpers			1-conductor female plug, with coding fingers, grey, blue, green-yellow, commoning possibility with miniature adjacent jumpers			1-conductor female plug, with coding fingers, grey, blue, green-yellow, commoning possibility with miniature adjacent jumpers		
1 pole	769-101/000-006	200	3 poles	769-103/000-038	50	5 poles	769-105/000-038	50
2 poles	769-102/000-006	100						
3 poles	769-103/000-006	50						
4 poles	769-104/000-006	50	1-conductor female plug, with coding fingers, green-yellow, blue, grey, commoning possibility with miniature adjacent jumpers			1-conductor female plug, with coding fingers, green-yellow, blue, grey, commoning possibility with miniature adjacent jumpers		
5 poles	769-105/000-006	50	3 poles	769-103/000-039	50	5 poles	769-105/000-039	50
6 poles	769-106/000-006	50						
7 poles	769-107/000-006	50						
8 poles	769-108/000-006	50						
9 poles	769-109/000-006	50						
10 poles	769-110/000-006	50						
11 poles	769-111/000-006	50						
12 poles	769-112/000-006	50						
13 poles	769-113/000-006	50						
14 poles	769-114/000-006	50						
15 poles	769-115/000-006	50						
<p>① 500 V = rated voltage 6 kV = rated surge voltage 3 = pollution degree</p>								
<p>Miniature adjacent jumper, insulated, I_N 24 A, grey, suitable for 1-conductor female plugs</p> <p>769-402 100 (4 x 25)</p>								

* Further approvals with corresponding ratings can be found at www.wago.com
** Current-carrying capacity curves and accessories see Full Line Catalog W4 Volume 1, Section 9

<p>0.08 – 4 mm² 500 V/6 kV/3 ① I_N 32 A**</p> <p>AWG 28 – 12 300/600 V, 10/5 A ② 300 V, 10 A ③</p> <p>Module width 5 mm / 0.197 in  8 – 9 mm / 0.33 in</p> <p>* ② ③</p>	<p>0.08 – 4 mm² 500 V/6 kV/3 ① I_N 32 A**</p> <p>AWG 28 – 12 300/600 V, 10/5 A ② 300 V, 10 A ③</p> <p>Module width 5 mm / 0.197 in  8 – 9 mm / 0.33 in</p> <p>* ② ③</p>	<p>0.08 – 4 mm² 500 V/6 kV/3 ① I_N 32 A**</p> <p>AWG 28 – 12 300/600 V, 10/5 A ② 300 V, 10 A ③</p> <p>Terminal block width 5 mm / 0.197 in  8 – 9 mm / 0.33 in</p> <p>* ② ③</p>
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
No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs
1-conductor/1-pin receptacle terminal block, blue			2-conductor/1-pin receptacle terminal block, blue			2-conductor/2-pin receptacle terminal block, blue		
suitable for DIN 35 rail acc. to EN 60715			suitable for DIN 35 rail acc. to EN 60715			suitable for DIN 35 rail acc. to EN 60715		
769-176/000-006		100	769-251/000-006		50	769-171/000-006		50
① 500 V = rated voltage 6 kV = rated surge voltage 3 = pollution degree								


Adjacent jumper,
 unsulated, I_N 24 A, grey
280-402 200 (8 x 25)

Alternate jumper,
 unsulated, I_N 24 A, grey
280-409 100 (4 x 25)




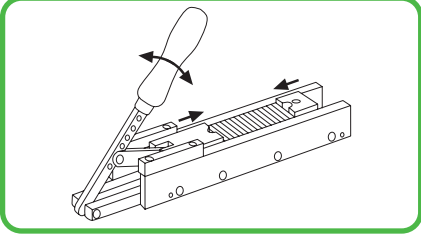
9 X-COM®-SYSTEM Female Plugs for Self-Assembly

VOLUME 1

0.08 – 4 mm² | AWG 28 – 12
 500 V/6 kV/3 ①
 I_N 32 A**
 Module width 5 mm / 0.197 in
 8 – 9 mm / 0.33 in

0.08 – 4 mm² | AWG 28 – 12
 500 V/6 kV/3 ①
 I_N 32 A**
 Module width 5 mm / 0.197 in
 8 – 9 mm / 0.33 in



	Color	Item No.	Pack.-unit pcs	Color	Item No.	Pack.-unit pcs
	1-conductor base module with integrated end plate			2-conductor base module with integrated end plate		
	grey	769-501	250	grey	769-504	250
	blue	769-501/000-006	250	blue	769-504/000-006	250
	green-yellow	769-501/000-016	250	green-yellow	769-504/000-016	250
	1-conductor center module			2-conductor center module		
	grey	769-502	250	grey	769-505	250
	blue	769-502/000-006	250	blue	769-505/000-006	250
	green-yellow	769-502/000-016	250	green-yellow	769-505/000-016	250
	1-conductor end module			2-conductor end module		
	grey	769-503	250	grey	769-506	250
	blue	769-503/000-006	250	blue	769-506/000-006	250
	green-yellow	769-503/000-016	250	green-yellow	769-506/000-016	250
	Mounting tool			Mounting tool		
		298-646	1		298-641	1
① 500 V = rated voltage 6 kV = rated surge voltage 3 = pollution degree						

** Current-carrying capacity curves and accessories see Full Line Catalog W4 Volume 1, Section 9

<p>0.08 – 4 mm² AWG 28 – 12 500 V/6 kV/3 ① I_N 32 A**</p> <p>Module width 5 mm / 0.197 in  8 – 9 mm / 0.33 in</p>		
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Color	Item No.	Pack.-unit pcs
1-conductor base module, 45° angled, with integrated end plate		
grey	769-512	250
blue	769-512/000-006	250
green-yellow	769-512/000-016	250
1-conductor end module, 45° angled		
grey	769-513	250
blue	769-513/000-006	250
green-yellow	769-513/000-016	250
1-conductor end module, 45° angled		
grey	769-515	250
blue	769-515/000-006	250
green-yellow	769-515/000-016	250
Mounting tool		
	298-642	1

Self-assembly of individual female plugs

Using modular female plugs from the X-COM-SYSTEM, female plugs can be customized for applications requiring varying numbers of poles (e.g. when designing prototypes).

Modules and pole numbers

A self assembled female plug consists of a base module with integrated end plate, up to 13 center modules (corresponding to a 15-pole female plug = maximum number of poles) as well as an end module.

Female plugs with ground (earth) modules (green-yellow)

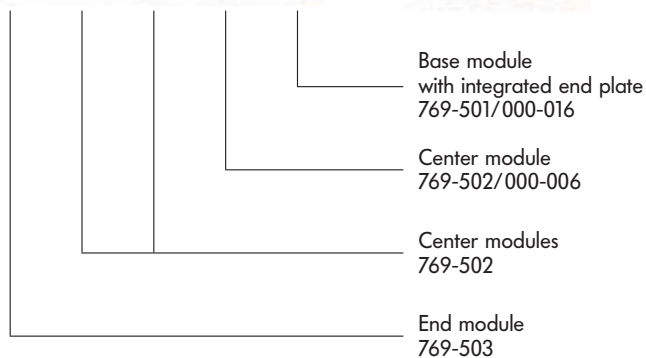
According to the "norm", connectors should be inserted and disengaged off load. This is why pre-mating the ground (earth) contact is required when connectors need to be connected or disengaged "under load".

This is guaranteed using a ground (earth) module in the middle of female plugs equipped with up to 7 poles or two ground (earth) modules at both ends of 8 - 15 pole female plugs to ensure a preceding ground (earth) connection.

Mounting





In order to guarantee that the individual modules are properly snapped into each other without damaging the locking latches, it is necessary to use the appropriate mounting tool.

Example of a 5-pole 1-conductor female plug



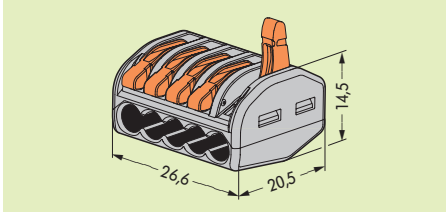
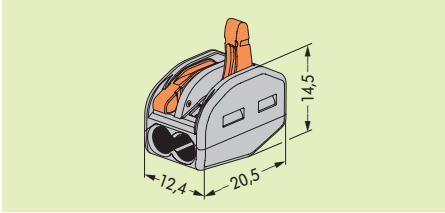
Compact Connector for Flexible Conductors Series 222

VOLUME 1

<p>2 x 0.08 – 2.5 mm² "s+f-st" 4 mm² "f-st" 400 V/4 kV/2** I_N 32 A  9 – 10 mm / 0.37 in</p>	<p>5 x 0.08 – 2.5 mm² "s+f-st" 4 mm² "f-st" 400 V/4 kV/2** I_N 32 A  9 – 10 mm / 0.37 in</p>
* 	*  = ENEC



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Compact connector,		Compact connector,	
2-wire connector, with levers		5-wire connector, with levers	
max. continuous service temperature 85°C		max. continuous service temperature 85°C	
grey 222-412		grey 222-415	400 (10 x 40)



Compact connector

It clamps up to to 5 stripped flexible wires of 0.08 mm²/AWG 28 to 4 mm²/AWG 12 or solid or stranded wires up to 2.5 mm²/AWG 14, without tools.

This is how it works:

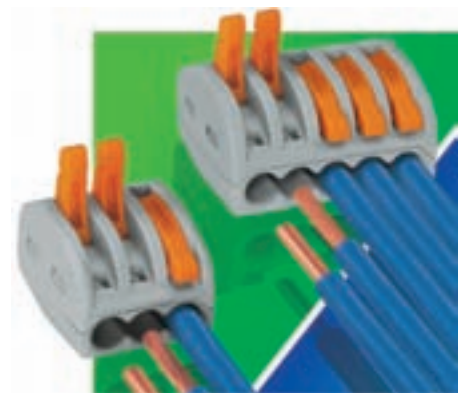
Open the clamping point using one of the small orange colored levers so that the lever engages and keeps the clamping point in its open position. The wire can now be inserted, then the lever can be returned to its rest position, flush with the terminal block housing.

The safety:

The special rest position of the lever reliably prevents accidental unclamping of a connected wire. The additional application safety for any type of conductor (solid, stranded, flexible) is confirmed by approbations like ENEC or UL.



The ENEC mark is a European safety mark including 20 countries.



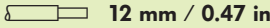
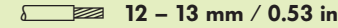
* You can find approvals on the Internet at www.wago.com.
 ** in grounded (earthed) supply systems

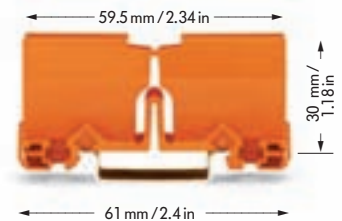
Mounting Carrier and Push-Wire Connectors for Junction Boxes Series 773

PUSH WIRE®

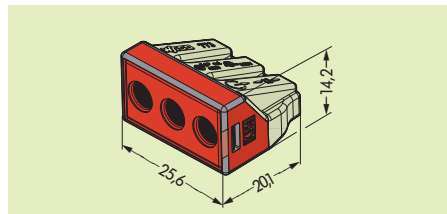
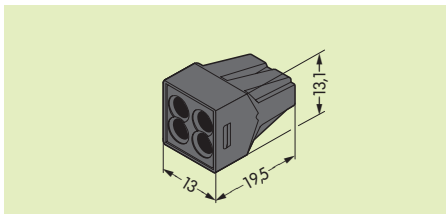
10

VOLUME 1

4 x 0.75 – 2.5 mm ² "s" 4 x 1.5 – 2.5 mm ² "str." 400 V / 4 kV / 2** I _N 24 A	4 x AWG 18 – 12 "sol." 4 x AWG 16 – 12 "str." 600 V, 20 A	3 x 2.5 – 6 mm ² "s" 400 V / 4 kV / 2** I _N 41 A	AWG 14 – 10 "sol." 600 V, 30 A	Mounting carrier for push-wire connectors for junction boxes Series 773 Adapter width 18 mm / 0.71 in
*  12 mm / 0.47 in		*  12 – 13 mm / 0.53 in		



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Push-wire connector for junction boxes,		Push-wire connectors for junction boxes,		Mounting carrier	
3-wire connector, black,		3-wire connector, color of housing transparent,		orange	773-332
max. continuous service temperature 150 °C		color of cover red		Marker strips,	
773-514	1000 (10 x 100)	773-173	500 (10 x 50)	plain	210-334
					1 card



For time and cost saving push-in wiring up to 6 mm² in distribution and junction boxes as well as other equipment.

As an addition to the 273 Series push wire connectors for AWG 16 to AWG 12 (1.5 – 4 mm²), the new 3-conductor push wire connector expands the range of wire sizes up to AWG 10 (6 mm²) and is suitable for both solid and fine-stranded wires.

A mounting carrier (see accessories) is suitable for applications where the connectors must be marked and fixed in position. The carrier fits up to two connectors on DIN 35 carrier rails or screw mounting on level surfaces.

Using this push wire connector, a large range of wiring applications can be realized in distribution or junction boxes, for example. To mention just a few: potential multiplication of an AWG 10 (6 mm²) conductor in a junction box, changing from or to AWG 10 (6 mm²) wire size.



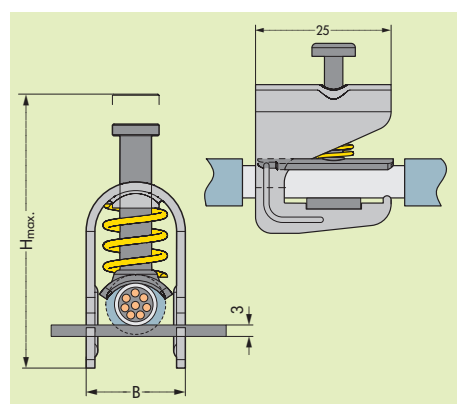
Shield (Screen) Clamps, Carrier with Grounding Foot Series 790, 791

<p>Shield (Screen) Clamps</p> <p>Note: Cannot be used for the connection of ground (earth) conductors!</p>	<p>Carrier with grounding foot</p>	<p>Carrier with grounding foot</p>
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			Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Shield (screen) clamps				Carrier w. grounding foot,		Carrier w. grounding foot,	
		Diameter of connectable conductor		for DIN 35 rail, bar parallel to the rail, 10 mm (0.394 in) x 3 mm (0.118 in), bar a. foot – Cu with tin plating		for DIN 35 rail, bar parallel to the rail, 10 mm (0.394 in) x 3 mm (0.118 in), bar a. foot – Cu with tin plating	
H _{max}	B						
40 mm	10 mm	1.5 mm to 6.5 mm	791-107	15 mm long/0.59 in	790-110	45 mm long/1.772 in	790-114
					25		25
47 mm	17 mm	5 mm to 11 mm	791-111				
63 mm	23 mm	10 mm to 17 mm	791-117	Carrier w. grounding foot,			
78 mm	30 mm	16 mm to 24 mm	791-124	for DIN 35 rail, bar parallel to the rail, 10 mm (0.394 in) x 3 mm (0.118 in), bar a. foot – Cu with tin plating			
				25 mm long/0.98 in	790-112		
					25		

Dimensions (in mm), Application notes



Item No.	Length	suitable shield (screen) clamping saddle	
		790-	791-
790-110	15 mm /0.59 in	max. 790-108	–
790-112	25 mm /0.98 in	max. 790-116	791-111, 791-117
790-114	45 mm /1.772 in	790-108 to 790-140	791-111 to 791-124
		see Full Line Catalog W4 Volume 1, Section 12	

Busbar Carrier	Busbar Carrier	Shield termination
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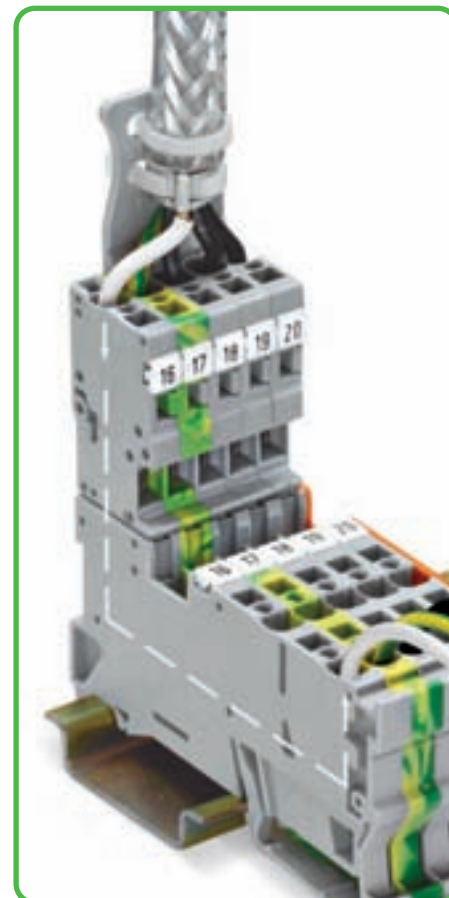
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Busbar Carrier for busbars Cu 10 mm x 3 mm		Busbar Carrier for busbars Cu 10 mm x 3 mm		Shield termination including cable tie for shield diameter	
790-300		790-301		5 mm / 0.197 in to 10 mm / 0.394 in	
				55 mm / 2.17 in long	709-350 100 (4 x 25)
				150 mm / 5.9 in long	709-352 100 (4 x 25)



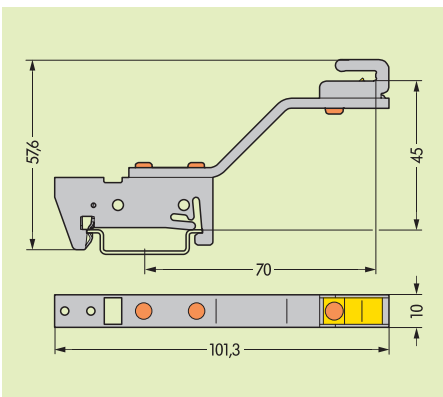
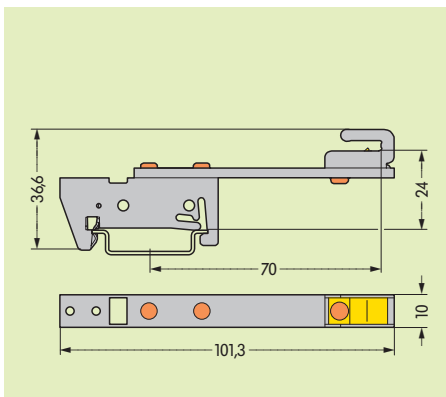
Remove the busbar carrier using a screwdriver (blade width 5.5 mm / 0.217 in)



To remove the busbar, compress the spring using pliers



Dimensions (in mm)



14 WAGO Wire and Cable Marking . . .

Wire marking

VOLUME 1



The following marker cards are available:
Marker cards for plotter marking ...



... or marker cards on roll
for thermal transfer printing



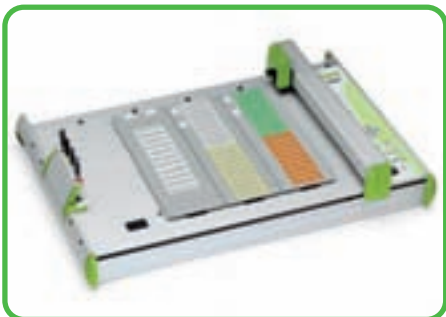
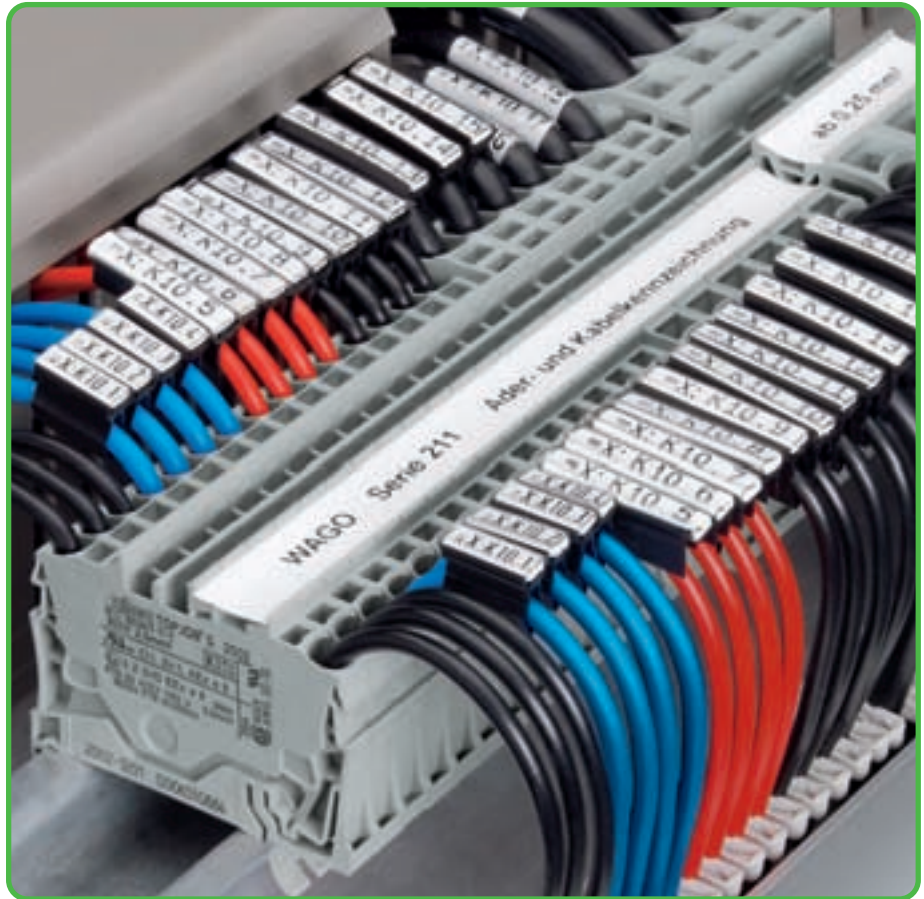
Remove the thermal transfer printed marker card
from the roll ...



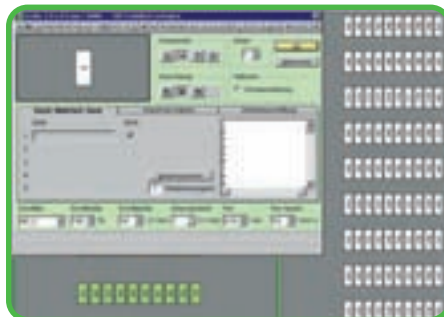
Slide the plotted marker card into the marking
sleeve receptacle. Changing the marking is also
possible after the wire has been connected



Compress the sleeve and slide it onto the wire to
be marked



Plotter IP 350



WAGO smart Marking software (see also Full Line
Catalog W4 Volume 1, Section 14)



Thermal transfer printer TP 298

... Description and Handling



... and slide it through the marker receptacle up to the end of the sleeve ...



... then remove the rest of the card by twisting it off



Fix the marking sleeve 211-129 using cable ties to individual wire or cable



Cable marking



Self-laminating labels are available on A4 sheets for the laser printer (plotter) ...



... or are supplied on roll for the thermal transfer printer



Remove the printed label from the sheet or roll ...



... and wrap it around the wire or cable



The transparent laminate protects the marking

Wire Marking for Wire Sizes from AWG 24 to 4 (0.25 mm² to 16 mm²)

Wire marking sleeve, halogen-free for marker card, for wires ranging from AWG 24 to 4 (0.25mm² to 16 mm²) (to be fitted before wire connection)

Wire marking sleeve, halogen-free for marker card, for wires ranging from AWG 24 to 4 (0.25mm² to 16 mm²) (to be fitted before wire connection)



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Marking sleeve 12 mm long / 0.472 in		Marking sleeve 23 mm long / 0.9 in	
for wire Ø 1.6 – 3.2 mm or AWG 24 – 16 (0.25 mm ² – 1.5 mm ²)		for wire Ø 1.6 – 3.2 mm or AWG 24 – 16 (0.25 mm ² – 1.5 mm ²)	
211-112	2000	211-122	2000
for wire Ø 2.2 – 4.5 mm or AWG 20 – 12 (0.5 mm ² – 4 mm ²)		for wire Ø 2.2 – 4.5 mm or AWG 20 – 12 (0.5 mm ² – 4 mm ²)	
211-113	2000	211-123	2000
for wire Ø 3.7 – 5.9 mm or AWG 14 – 10 (2.5 mm ² – 6 mm ²)		for wire Ø 3.7 – 5.9 mm or AWG 14 – 10 (2.5 mm ² – 6 mm ²)	
211-114	1000	211-124	1000
for wire Ø 4.8 – 7.5 mm or AWG 10 – 4 (6 mm ² – 16 mm ²)		for wire Ø 4.8 – 7.5 mm or AWG 10 – 4 (6 mm ² – 16 mm ²)	
211-115	1000	211-125	1000
Article specific accessories		Article specific accessories	
Marker card , for thermal transfer printer, 12 mm long / 0.472 in, white		Marker card , for thermal transfer printer, 23 mm long / 0.9 in, white	
 211-111	1 x 3000	 211-121	1 x 3000
Marker card , for plotter, 12 mm long / 0.472 in, white		Marker card , for plotter, 23 mm long / 0.9 in, white	
 211-110	18 x 57	 211-120	30 x 34
Plotter receptacle , for marker card		Plotter receptacle , for marker card	
 258-370	1	 258-370	1
Accessories (see also Full Line Catalog W4 Volume 1, Section 14)			
Thermal transfer printer, TP 298 Resolution 300 dpi		Plotter IP 350	
 258-298	1	 258-350	1
Thermal transfer printer, TP 297 Resolution 203 dpi		WAGO plotter pen , line width 0.35 mm	
 258-297	1	 258-228	1
Ink ribbon , 90 mm / 3.54 in width, 300 m roll		WAGO disposable pen , line width 0.35 mm	
 258-150	1	 258-328	1

Cable Marking

<p>Cable marking sleeve, halogen-free for marker card, for wire sizes from AWG 8 (10 mm²) for cable tie (can also be fitted subsequently)</p>	<p>Self-laminating labels on DIN A4 sheets or roll for cable marking.</p> <p>Cable diameter approx. 3 mm/0.118 in – 14 mm/0.55 in</p>	
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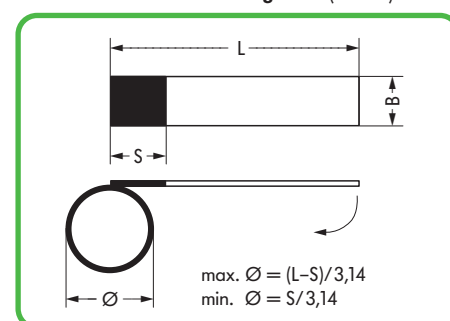


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Marking sleeve, for cable tie 23 mm long /0.9 in		Labels on DIN A4 sheets for laser printer	
for wires from AWG 8 (10 mm ²)		Marker surface "S" = 9 mm x "B" = 17 mm "L" = 35 mm	
211-129	1000	for max. cable Ø 8 mm /0.315 in	
		70 labels per sheet	
		211-150	20
		Marker surface "S" = 13 mm x "B" = 21 mm "L" = 56 mm	
		for max. cable Ø 14 mm /0.55 in	
		32 labels per sheet	
		211-151	25
		Labels on roll for thermal transfer printer	
Article specific accessories		Marker surface "S" = 8 mm x "B" = 18 mm "L" = 35 mm	
Marker card, for thermal transfer printer, 23 mm /0.9 in long, white		for max. cable Ø 9 mm /0.354 in	
211-121	1 x 3000	9,000 labels per roll	
		211-155	1
Marker card, for plotter, 23 mm /0.9 in long, white		Marker surface "S" = 13 mm x "B" = 23 mm "L" = 51 mm	
211-120	30 x 34	for max. cable Ø 12 mm /0.472 in	
Plotter receptacle, for marker card		5,000 labels per roll	
258-370	1	211-156	1
Cable tie, (2,5 x 100) mm			
807-0090/0101-0100	25		

Accessories (see also Full Line Catalog W4 Volume 1, Section 14)

Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Thermal transfer printer, TP 298 Resolution 300 dpi		Plotter IP 350	
258-298	1	258-350	1
Thermal transfer printer, TP 297 Resolution 203 dpi		WAGO plotter pen, line width 0.35 mm	
258-297	1	258-228	1
Ink ribbon 90 mm /3.54 in width, 300 m roll		WAGO disposable pen, line width 0.35 mm	
258-150	1	258-328	1

Dimensions of self-laminating label (in mm)



Marker carriers for WCB Combi Marking System

Marker carriers for 4 WCB markers	WCB Combi marking system	
	20 markers with identical numbers/letters each tag	



Item No.	Pack.-unit pcs	Marking per tag	Item No.	Marking per tag	Item No.
Marker carriers for 4 WCB markers 2009-184					
		plain	249-200	A (20x)	249-211
		1 (20x)	249-201	B (20x)	249-212
		2 (20x)	249-202	C (20x)	249-213
suitable for terminal blocks with WMB marking receptacle		3 (20x)	249-203	D (20x)	249-214
		4 (20x)	249-204	E (20x)	249-215
		5 (20x)	249-205	F (20x)	249-216
		6 (20x)	249-206	G (20x)	249-217
		7 (20x)	249-207	H (20x)	249-218
		8 (20x)	249-208	I (20x)	249-219
		9 (20x)	249-209	J (20x)	249-220
		0 (20x)	249-210	K (20x)	249-221
				L (20x)	249-222
		1 . . . 0 (2x)	249-239	M (20x)	249-223
				N (20x)	249-224
		1. (20x)	249-241	O (20x)	249-225
		2. (20x)	249-242	P (20x)	249-226
		3. (20x)	249-243	Q (20x)	249-227
		4. (20x)	249-244	R (20x)	249-228
		5. (20x)	249-245	S (20x)	249-229
		6. (20x)	249-246	T (20x)	249-230
		7. (20x)	249-247	U (20x)	249-231
		8. (20x)	249-248	V (20x)	249-232
		9. (20x)	249-249	W (20x)	249-233
		0. (20x)	249-250	X (20x)	249-234
				Y (20x)	249-235
		+	249-237	Z (20x)	249-236
		-	249-238		
Pieces per packing unit: 10 tags					



Insert WCB Combi marker into marker carrier



Twist the marker carrier off the carrier holder . . .



. . . and insert the marker carrier into the WMB marking receptacle of the terminal block

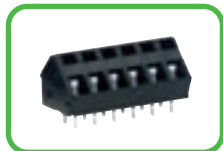
Contents

Volume 2



Terminal strips for PCBs – Reflow
Pin spacing 2.5 mm/0.098 in
Pin spacing 2.54 mm/0.1 in

Series 218 54
Series 218 54



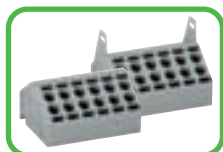
Terminal strips for PCBs – Reflow
Pin spacing 5 mm/0.197 in
Pin spacing 2.5 mm/0.098 in
Pin spacing 3.5 mm/0.138 in

Series 236 55
Series 250 55
Series 250 55



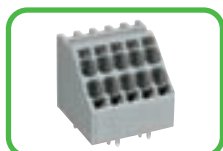
Terminal strips with “internal commoning”
Pin spacings 5 mm/0.197 in,
7.5 mm/0.295 in; 2.5 mm²/AWG 14

Series 804 57



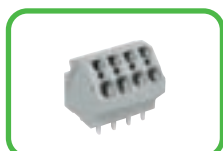
2-conductor female connector strips
with CAGE CLAMP[®]S connection
1.5 mm²/AWG 16

Series 806 58



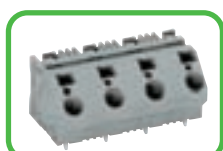
2-conductor modular terminal blocks and terminal strips
with CAGE CLAMP[®]S connection
Pin spacing 75 mm/0.295 in;
6 (10) mm²/AWG 10

Series 746 59



Modular terminal blocks and terminal strips without jumper slot
with CAGE CLAMP[®] connection
Pin spacing 5 mm/0.197 in; 4 mm²/AWG 12
Pin spacing 7.5 mm/0.295 in; 4 mm²/AWG 12
Pin spacing 10 mm/0.394 in; 4 mm²/AWG 12
Pin spacing 12.5 mm/0.492 in; 4 mm²/AWG 12

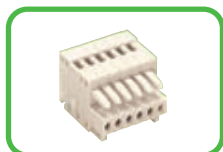
Series 745 60
Series 745 60 – 61
Series 745 60 – 61
Series 745 60 – 61



Modular terminal blocks with spacers 6 mm²
Pin spacing 7.5 mm/0.295 in, 10 mm/0.394 in
Terminal strips with spacers 6 mm²/AWG 10
Pin spacing 10 mm/0.394 in,
12.5 mm/0.492 in, 15 mm/0.591 in

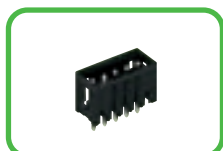
Series 745 62
Series 745 63

MULTI CONNECTION SYSTEM



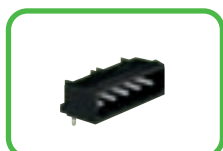
Male and female connectors
with CAGE CLAMP[®] connection
Pin spacing 2.5 mm/0.098 in

Series 733 64



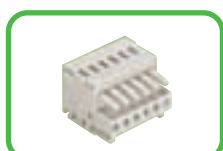
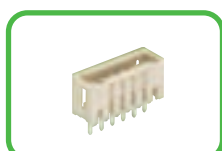
Headers with solder pins – Reflow
Pin spacing 3.5 mm/0.138 in

Series 734 66 – 67



Headers with solder pins – Reflow
Pin spacing 5 mm/0.197 in

Series 231 68 – 69



Extension of pole number - connectors,
Pin spacing 3.5 mm/0.138 in



Series 734 70

	Combi strip with CAGE CLAMP® connection Pin spacing 3.5 mm/0.138 in	Series 734	71
	IP 20 protection using cover for male connectors Pin spacings 3.5 mm/0.138 in, 3.81 mm/0.15 in	Series 734	72
	Operating tools MINI MIDI	Series 734 Series 231	73 73
	Female connectors with solder pins Pin spacing 3.5 mm/0.138 in Pin spacing 3.81 mm/0.15 in	Series 734 Series 734	74 75
	Angled female connectors with CAGE CLAMP® connection Pin spacing 5 mm/0.197 in	Series 722	76
	Extension of pole number		
	Pluggable connectors with right angle solder pins, Pin spacing 5 mm/0.197 in	Series 231	77
	Pluggable connectors with threaded/screw flanges, Pin spacing 5.08 mm/0.2 in	Series 231	79
	Comb type jumper bars Pin spacing 5 mm/0.197 in	Series 231	78
	Strain relief plates for 2-conductor female connectors with CAGE CLAMP® connection	Series 734	80
	Headers with solder pins Pin spacing 7.62 mm/0.3 in	Series 831	81
	Headers with CAGE CLAMP® connection Pin spacing 7.62 mm/0.3 in	Series 831	82
	Female connectors with CAGE CLAMP® connection and locking device Pin spacing 7.62 mm/0.3 in	Series 831	83
	Operating tools Screw driver	Series 210	84

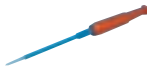
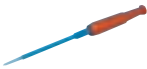


PCB Terminal Strips for THR Soldering

Terminal Strips with Locking Slide 0.5 mm²/AWG 20

Pin spacings 2.5 mm and 2.54 mm; Series 218

Pin spacing 2.5 mm / 0.098 in 0.08 – 0.5 mm ² ① AWG 28 – 20 ① 160 V/2.5 kV/2 150 V, 4 A ② I _N 6 A 150 V, 4 A ③  5 – 6 mm / 0.22 in * ② ③	Pin spacing 2.54 mm / 0.1 in 0.08 – 0.5 mm ² ① AWG 28 – 20 ① 160 V/2.5 kV/2 150 V, 4 A ② I _N 6 A 150 V, 4 A ③  5 – 6 mm / 0.22 in * ② ③	Terminal strips in tape on reel Pin spacing 2.5 mm Pin spacing 2.54 mm
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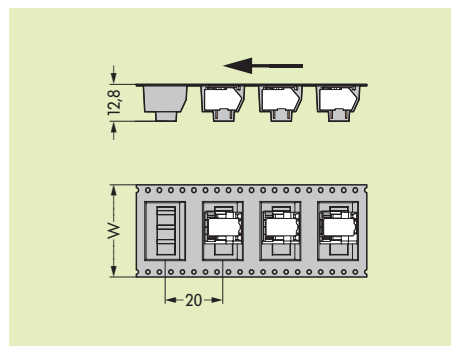
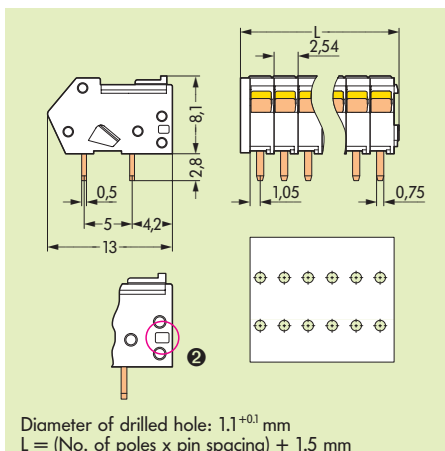
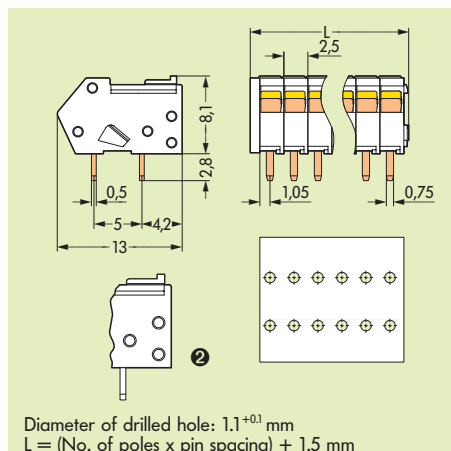


No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Width of reel (W)
1-conductor terminal strips with locking slide, 2 solder pins/pole in line, black, locking slide, white			1-conductor terminal strips with locking slide, 2 solder pins/pole in line, black, locking slide, white			1-conductor terminal strips with locking slide, 2 solder pins/pole in line, black, locking slide, white		
2	218-102/000-604	1000 (10 x 100)	2	218-502/000-604	1000 (10 x 100)	2	218-102/000-604/997-403	16
3	218-103/000-604	1000 (10 x 100)	3	218-503/000-604	1000 (10 x 100)	3	218-103/000-604/997-405	32
4	218-104/000-604	500 (5 x 100)	4	218-504/000-604	500 (5 x 100)	4	218-104/000-604/997-405	32
5	218-105/000-604	500 (5 x 100)	5	218-505/000-604	500 (5 x 100)	5	218-105/000-604/997-405	32
6	218-106/000-604	280 (4 x 70)	6	218-506/000-604	280 (4 x 70)	6	218-106/000-604/997-405	32
7	218-107/000-604	240 (4 x 60)	7	218-507/000-604	240 (4 x 60)	7	218-107/000-604/997-405	32
Other numbers of poles and pin spacings on request			Other numbers of poles and pin spacings on request			Pin spacing 2.5 mm / 0.098 in Pack. unit 250 pcs (mm)		
Terminal strips with additional suction pad in a tape on reel according to IEC 60286-3, Reel diameter 330 mm / 13 in								
Accessories								
Test pin, Ø 1 mm / 0.039 in  735-500 1 Test wire for sold. onto test plug			Test pin, Ø 1 mm / 0.039 in  735-500 1 Test wire for sold. onto test plug			Pin spacing 2.54 mm / 0.1 in Pack. unit 250 pcs (mm)		
Screwdriver with partially insulated shaft,  2.5 x 0.4 mm / 0.098 in x 0.016 in 210-619 1			Screwdriver with partially insulated shaft,  2.5 x 0.4 mm / 0.098 in x 0.016 in 210-619 1			2 218-502/000-604/997-403 16 3 218-503/000-604/997-405 32 4 218-504/000-604/997-405 32 5 218-505/000-604/997-405 32 6 218-506/000-604/997-405 32 7 218-507/000-604/997-405 32		



Terminal strips with white printing upon request

Dimensions (in mm)



- ① in adjacent positions 0.75 mm²/AWG 18
- ② A groove at the back of the terminal block differentiates between the two pin spacings

*Further approvals with corresponding ratings can be found at www.wago.com

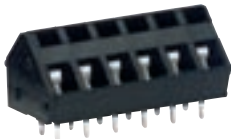
PCB Terminal Strips for THR Soldering Series 236 and Series 250

CAGE CLAMP®

1

VOLUME 2

Pin spacing 5/ 0.197 in 0.08 – 2.5 mm ² AWG 28 – 12** 200 V/4 kV/3, I _N 16 A 300 V, 15 A 320 V/4 kV/2, I _N 16 A 5 – 6 mm / 0.22 in *	Pin spacing 2.5 mm / 0.098 in 0.4 – 0.8 mm Ø "s" AWG 26 – 20 "sol." 250 V/2.5 kV/2 300 V, 5 A I _N 2 A 8.5 – 9.5 mm / 0.35 in *	Pin spacing 3.5 mm / 0.138 in 0.5 – 1.5 mm ² "s+f-st" AWG 20 – 16 "sol." 400 V/4 kV/2 300 V, 5 A I _N 2 A 8.5 – 9.5 mm / 0.35 in *
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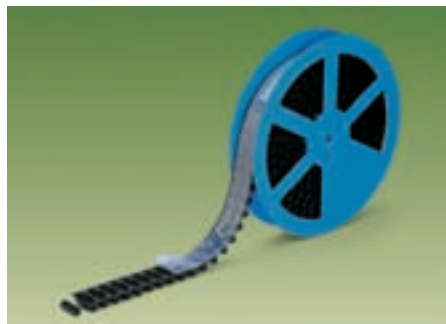
No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs
Terminal strips, reflow soldering technology, 2 solder pins / pole, black			Terminal strips with push-button, reflow soldering technology, 1 solder pin/pole staggered, black, with test slot for test pin up to 1.3 mm Ø			Terminal strips with push-button, reflow soldering technology, 1 solder pin/pole staggered, black, with test slot for test pin up to 1.3 mm Ø		
2	236-402/334-604	420 (4 x 105)	2	250-402/350-604	720 (4 x 180)	2	250-202/350-604	560 (4 x 140)
3	236-403/334-604	280 (4 x 70)	3	250-403/350-604	520 (4 x 130)	3	250-203/350-604	400 (4 x 100)
4	236-404/334-604	220 (4 x 55)	4	250-404/350-604	400 (4 x 100)	4	250-204/350-604	300 (4 x 75)
5	236-405/334-604	160 (4 x 40)	5	250-405/350-604	340 (4 x 85)	5	250-205/350-604	240 (4 x 60)
6	236-406/334-604	140 (4 x 35)	6	250-406/350-604	280 (4 x 70)	6	250-206/350-604	200 (4 x 50)
			7	250-407/350-604	240 (4 x 60)	7	250-207/350-604	180 (4 x 45)
			8	250-408/350-604	220 (4 x 55)	8	250-208/350-604	160 (4 x 40)
			② 0.2 mm ² – 0.5 mm ² "f-st"					
Other numbers of poles and pin spacings on request			Other numbers of poles and pin spacings on request			Other numbers of poles and pin spacings on request		

Accessories

	Operating tools ①,			Test pin, Ø 1 mm/0.039 in		Test pin, Ø 1 mm/0.039 in
	Plastic	236-332 1		735-500 1		735-500 1
	Metal	236-335 1	Test wire for sold. onto test plug		Test wire for sold. onto test plug	

Double savings are now available with WAGO PCB terminal blocks: as always, the time-saving CAGE CLAMP® and push-wire connections and now additional savings from their suitability for the THR solder process. This is achieved by changing the length of the solder pin which is adapted to the reflow process and by the use of high temperature resistant plastic for the insulating housing.

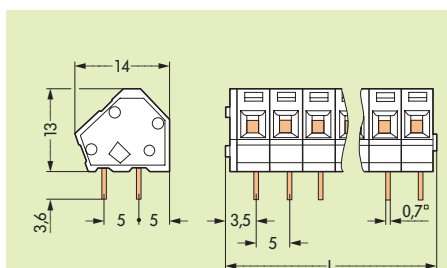
The new terminal blocks are simply pushed into the solder paste filled PCB holes and then soldered along with the SMT components. The previous wave soldering process is no longer necessary. The result is a perfect connection both from the mechanical and the electrical point of view.



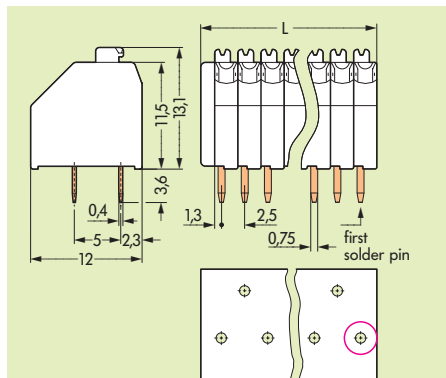
Packings for pick and place applications on request



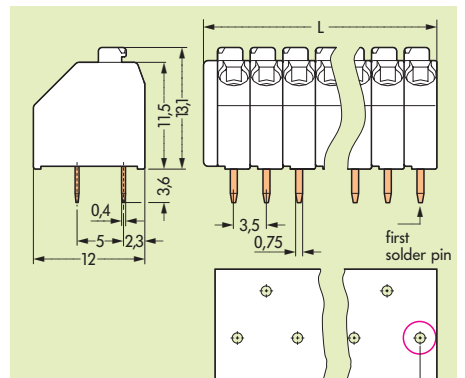
Dimensions (in mm)



L = (No. of poles x pin spacing) + 2.3 mm
 Diameter of metal plated hole 1.1^{+0.1} mm
 optimised for PCB width of up to 2 mm



L = (No. of poles x pin spacing) + 1.5 mm
 Diameter of metal plated hole 1.0^{+0.1} mm
 optimised for PCB width of up to 2 mm



L = (No. of poles x pin spacing) + 1.5 mm
 Diameter of metal plated hole 1.0^{+0.1} mm
 optimised for PCB width of up to 2 mm

** AWG 12: THHN, THWN ① for factory wiring

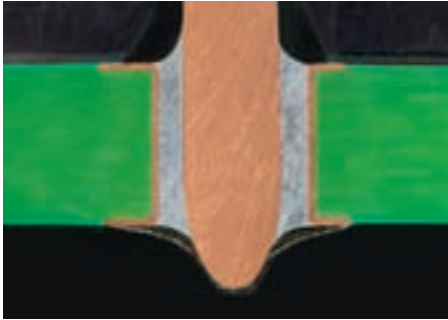
1 Reflow Soldering

VOLUME 2

THR (Through-Hole-Reflow)

Design and application recommendations for the THR solder process

The THR preparation and solder process

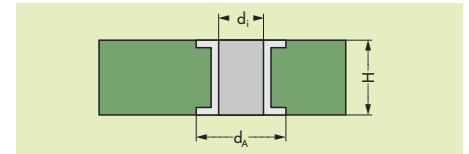


In the manufacture of electronic products, **Surface Mount Technology** has led to a rapid rise in productivity.

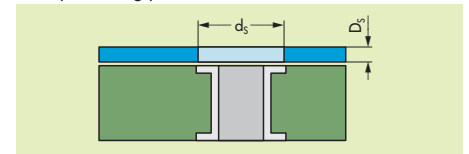
The integration of classic electromechanical components such as connectors or PCB terminal blocks into the reflow soldering process offers even more potential for economy.

By using high temperature resistant plastic and an optimized pin design, the WAGO Through Hole Reflow PCB terminal blocks meet the requirement for SMT process capability while maintaining the necessary stability.

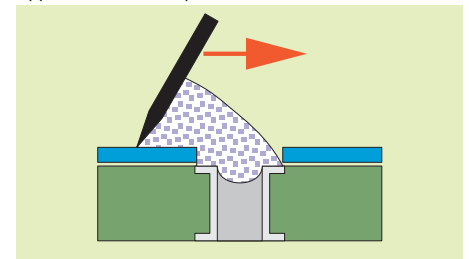
Metal plated PCB bore hole



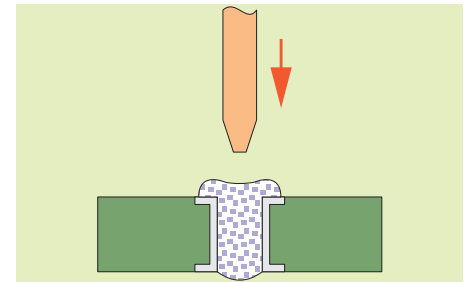
SMD positioning pattern



Application of solder paste



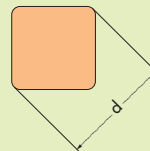
Component assembly automatic / by hand



THR product series

Series	d_i (mm)	d_A (mm)	H(mm)	d_s (mm)	D_s (μ m)	d(mm)	L(mm)
734	$1.4^{+0.1}$	2.5	< 2	2.4	150	1.2	2.4
231	$1.4^{+0.1}$	2.5	< 2	2.4	150	1.2	2.4
236	$1.1^{+0.1}$	2.2	< 2	2.1	150	0.9	3.6
250	$1.0^{+0.1}$	2.0	< 2	2.1	150	0.9	3.6

- d_i : Inner diameter metal plated PCB bore hole
- d_A : Outer diameter metal plated PCB bore hole*
- H: PCB thickness
- d_s : Pattern hole diameter
- D_s : Pattern thickness
- d: Pin diagonal
- L: Pin length

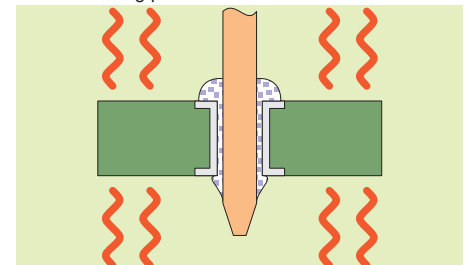


Solder pin

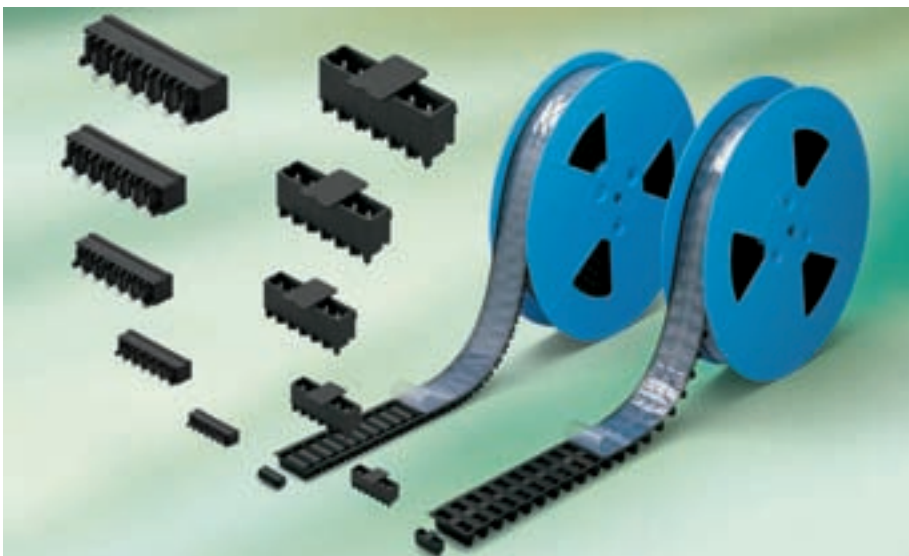
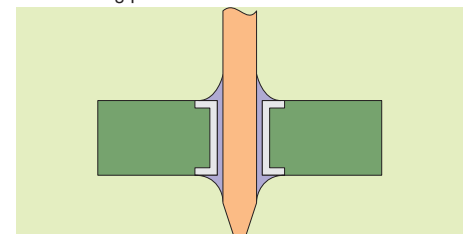
* When laying out the metal plated bore holes, consider the requirements of air and creepage distances of the equipment standards.

We recommend a temperature profile in accordance with EN 61760-1 and the use of forced convection ovens.

Reflow soldering process



THR soldering joint



"Tape on Reel" packings for pick and place applications







PCB Terminal Strips 2.5 mm²/AWG 14

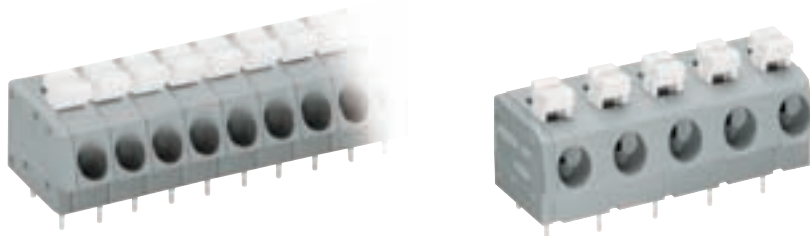
Pin spacings 5 mm/0.197 in and 7.5 mm/0.295 in; Series 804




CAGE CLAMP®






1

VOLUME 2

Pin spacing 5 mm / 0.197 in 0.5 – 2.5 mm ² „s+f-st“ AWG 20 – 12 „s+f-st“ 250 V/4 kV/3; I _N 16 A 300 V, 10 A  500 V/4 kV/2; I _N 16 A  10 – 11 mm / 0.41 in * 	Pin spacing 7.5 mm / 0.295 in 0.5 – 2.5 mm ² „s+f-st“ AWG 20 – 12 „s+f-st“ 400 V/6 kV/3; I _N 16 A 300 V, 10 A  800 V/6 kV/2; I _N 16 A  10 – 11 mm / 0.41 in * 	Accessoires Internal commencing
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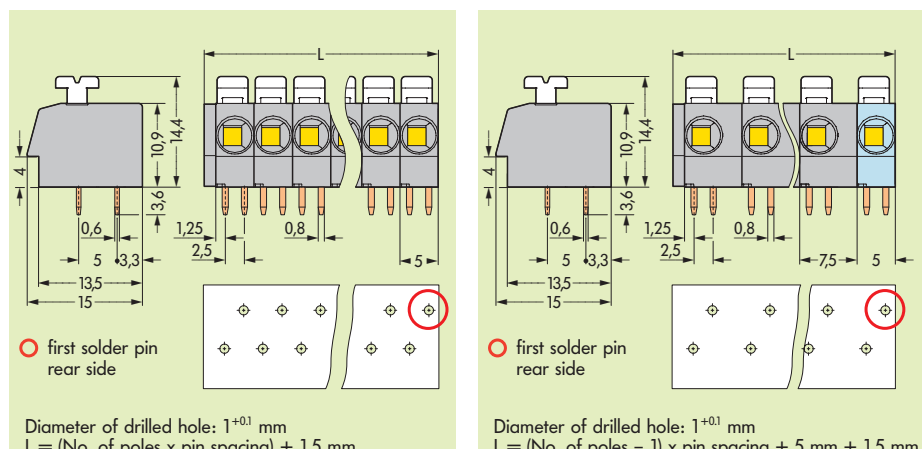


No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
1-conductor terminal strips with push button, 2 solder pins/pole staggered, grey, with test slot for test pin Ø 1 mm/0.039 in			1-conductor terminal strips with push button, 2 solder pins/pole staggered, grey, with test slot for test pin Ø 1 mm/0.039 in			Marker cards,	
2	804-102	420 (4x 105)	2	804-302	320 (4x 85)		100 self-adhesive strips per card
3	804-103	280 (4x 70)	3	804-303	220 (4x 55)		
4	804-104	220 (4x 55)	4	804-304	160 (4x 40)	Print - Pin spacing 5 mm / 0.197 in	
5	804-105	180 (4x 45)	5	804-305	120 (4x 30)	1-12 (300 x)	210-331/0500-0103 1 card
6	804-106	140 (4x 35)	6	804-306	100 (4x 25)	13-24 (300 x)	210-331/0500-0104 1 card
7	804-107	120 (4x 30)	7	804-307	80 (4x 20)	Print - Pin spacing 7.5 mm / 0.295 in	
8	804-108	100 (4x 25)	8	804-308	80 (4x 20)	1-16 (100 x)	210-331/0750-0202 1 card
9	804-109	100 (4x 25)	9	804-309	60 (4x 15)		
10	804-110	80 (4x 20)	10	804-310	60 (4x 15)		
11	804-111	80 (4x 20)	11	804-311	60 (4x 15)		
12	804-112	60 (4x 15)	12	804-312	40 (4x 10)		
13	804-113	60 (4x 15)				Direct printing on request	
14	804-114	60 (4x 15)				Test pin, Ø 1 mm/0.039 in	
15	804-115	60 (4x 15)					735-500 1 Test wire for sold. onto test plug
16	804-116	40 (4x 10)				Screwdriver with partially insulated shaft,	
Pin spacing 10 mm (with spacer) on request							3.5 x 0.4 mm / 0.137 in x 0.016 in 210-620 1

Additional item number for coloured terminal strips		Ordering example
red	... / 000-005 	Terminal strip, pin spacing 5 mm / 0.197 in, 8 poles,
blue	... / 000-006 	orange 804-108/000-012
orange	... / 000-012 	
light green	... / 000-017 	
 Terminal blocks with blue insulation are suitable for Ex i applications (only for pin spacing 7.5 mm / 0.295 in and 10 mm / 0.394 in)		

Internal commencing
 For example, the requirement of not routing the ground (earth) conductors over the board is met by WAGO through the "internal commencing" of 804 Series terminal strips. This way, custom terminal strips can be commenced to each other and marked at the factory.

Dimensions (in mm)



* Marks and approval data can be found on the Internet at www.wago.com.

2-Conductor Female Connector Strips 1.5 mm²/AWG 16 Pin Spacing 5 mm/0.197 in, Series 806

Pin spacing 5 mm / 0.197 in
2 x 0.2 – 1.5 mm² | 2 x AWG 24 – 16
250 V/2.5 kV/3 ① | 300 V, 10 A

9 – 10 mm / 0.37 in

*

Pin spacing 5 mm / 0.197 in
2 x 0.2 – 1.5 mm² | 2 x AWG 24 – 16
250 V/2.5 kV/3 ① | 300 V, 10 A

9 – 10 mm / 0.37 in

*

① 250 V = rated voltage
2.5 kV = rated surge voltage
3 = pollution degree
(see also Full Line Catalog W4 Volume 2, Section 12)



Connection of solid conductors:
insert stripped wire up to the stop

Connection/disconnection of fine-stranded conductors:
open clamping unit using a screwdriver and insert stripped wire up to the stop

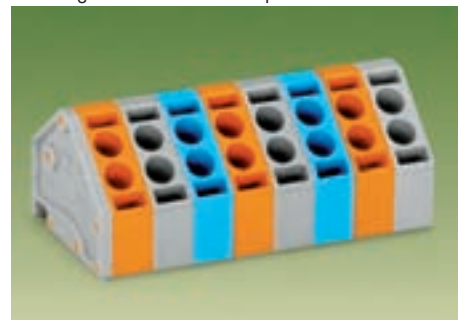
No. of poles	Item No.	No. of poles	Item No.
Female connector strips, grey		Female connector strips with removal aid, grey	
for solder pin strip		for solder pin strip	
2	806-102	2	806-202
3	806-103	3	806-203
4	806-104	4	806-204
5	806-105	5	806-205
6	806-106	6	806-206
7	806-107	7	806-207
8	806-108	8	806-208
9	806-109	9	806-209
10	806-110	10	806-210
11	806-111	11	806-211
12	806-112	12	806-212
For other lengths, please contact factory		For other lengths, please contact factory	
Additional item numbers for colored terminal strips		Additional item numbers for colored terminal strips	
blue	.../000-006	blue	.../000-006
orange	.../000-012	orange	.../000-012
Accessories			
Solder pin strip,	connector pin Ø 1.3 mm solder pin Ø 1 mm 2 to 12 poles 806-902 to 806-912	Solder pin strip,	connector pin Ø 1.3 mm solder pin Ø 1 mm 2 to 12 poles 806-902 to 806-912
Marker card,	with self-adhesive marker strips 1 – 16 (160 x) 210-332/0500-0202 1 card Direct printing on request	Marker card,	with self-adhesive marker strips 1 – 16 (160 x) 210-332/0500-0202 1 card Direct printing on request
Dimensions (in mm) Diameter of drilled hole: 1.3 mm L = No. of poles x pin spacing + 1.5 mm			



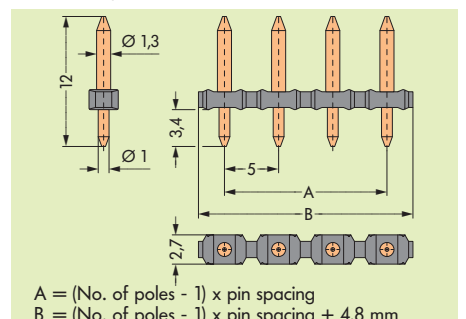
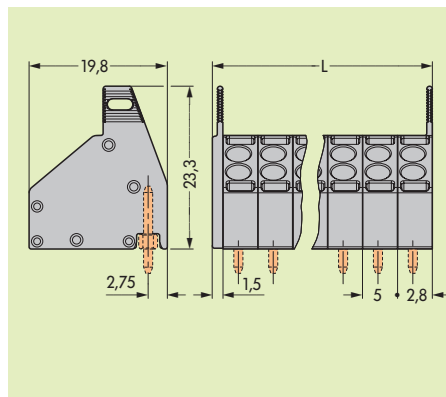
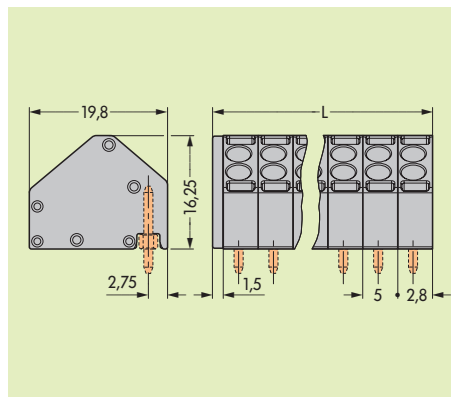
Connecting the conductor directly into the connector ...
... or pre-assembled



Removing the terminal blocks to place the board



Terminal strip insulation housings mixed in different colors on request

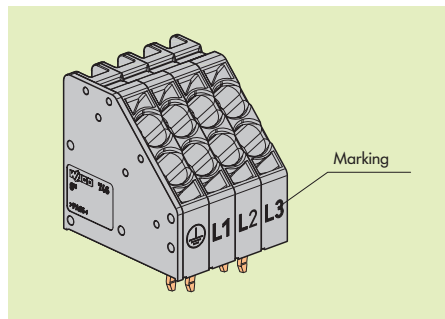


* Further approvals with corresponding ratings can be found at www.wago.com

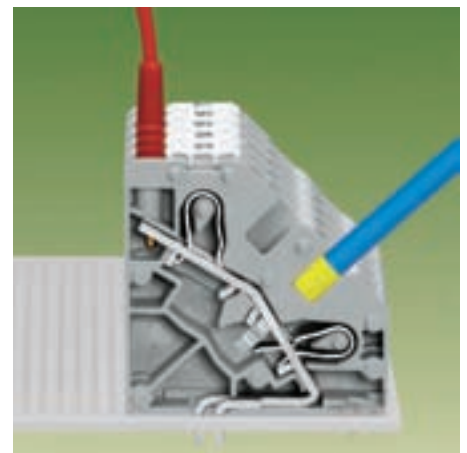
Modular Terminal Blocks and Terminal Strips 6 mm²/AWG 10 **CAGE CLAMP® S**

Pin spacing 7.5 mm / 0.295 in 2 x 0.5 – 6 (10) mm ² ① 2 x AWG 20 – 8 400 V/6 kV/3 600 V, 50 A ② I _N 41 A 13 – 15 mm / 0.55 in * ③		
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① Push-in conductor sizes: 0,5 mm² – 10 mm² „e + f“;
 AWG 16 – 8 (1,5 mm² – 10 mm²) „s“ and
 AWG 16 – 10 (1,5 mm² – 6 mm²)
 “insulated ferrules, 12 mm/0.472 in”





Connecting flexible wires using a screwdriver 5.5 mm



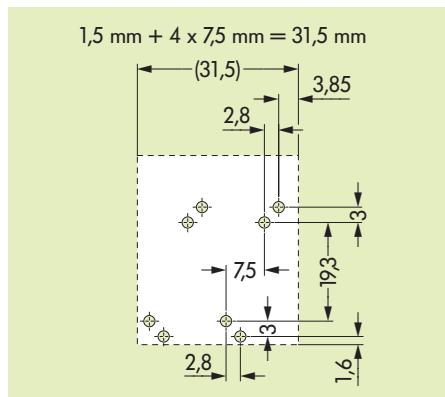
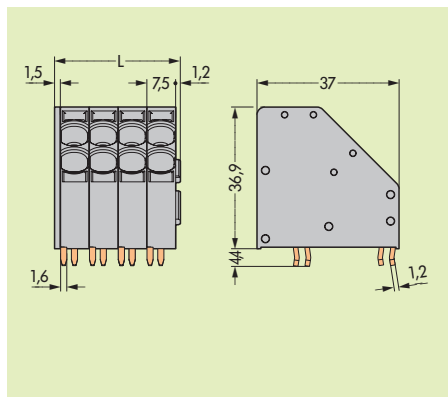
Solid wires and fine-stranded wires with ferrules can be simply pushed in
 Testing with test plug Ø 2 mm/0.079 in




Terminal blocks of different colors upon request


No. of poles	Item No.	No. of poles	Item No.
2-conductor terminal strips, grey, 2 x 2 pins / pole staggered			
2	746-2302		
3	746-2303		
4	746-2304		
5	746-2305		
6	746-2306		
7	746-2307		
8	746-2308		
9	746-2309		
10	746-2310		
12	746-2312		
For other lengths, please contact factory			
Additional item numbers for colored terminal strips			
light grey	.../000-009 ○		
blue	.../000-006 ①		
green-yellow	.../000-016 ②		
light green	.../000-017 ③		
Accessories (Marking see Full Line Catalog W4 Volume 2, Section 11)			
Screwdriver with partially insulated shaft			
	(5.5 x 0.8) mm 210-621		
Test plug with cable 500 mm/1.77"			
	210-136 2 mm/0.079 in Ø, red 210-137 2.3 mm/0.091 in Ø, yell.		

Dimensions (in mm) Diameter of drilled hole: 2.2^{+0.1} mm L = No. of poles x pin spacing + 2.7 mm





Modular Terminal Blocks and Terminal Strips without Jumper Slot 4 mm²/AWG 12 Pin Spacing 5 mm/0.197 in; Series 745

Pin spacing 5 mm / 0.197 in
0.08 – 4 mm² | AWG 28 – 12
250 V/4 kV/3 | 300 V, 20 A 
I_N 32 A

 8 – 9 mm / 0.33 in






* 

Pin spacing 5 mm / 0.197 in
0.08 – 4 mm² | AWG 28 – 12
250 V/4 kV/3 | 300 V, 20 A 
I_N 32 A

 8 – 9 mm / 0.33 in

* 



Color	Item No.	Pack.-unit pcs
Modular terminal blocks without jumper slot, 2 solder pins/pole		
grey	745-3801 	200 (2 x 100)
light grey	745-3803 	200 (2 x 100)
blue	745-3804 	200 (2 x 100)
green-yellow	745-3807 	200 (2 x 100)
light green	745-3808 	200 (2 x 100)

Accessoires

End plate, snap-on type, 1.5 mm / 0.059 in thick



grey 745-3100 100

Spacer, 2.5 mm / 0.098 in thick



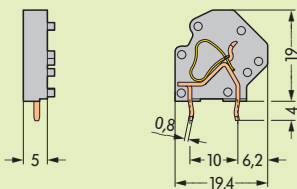
grey 745-3138
for extending the pin spacing

Test plug, with cable 500 mm / 17.7"



Ø 2 mm / 0.079 in, red 210-13650
Ø 2.3 mm / 0.091 in, yel. 210-13750

Dimensions (in mm)



Diameter of drilled hole: 1.5^{+0.1} mm



Saving space
2 terminal strips can be arranged in front of each other

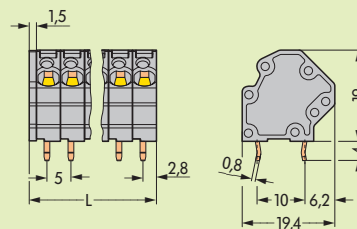


Wire connection using a screwdriver 3.5 mm / 0.138 in

No. of poles	Item No.
Terminal strips without jumper slot, grey, 2 solder pins/pole	
2	745-3102
3	745-3103
4	745-3104
5	745-3105
6	745-3106
7	745-3107
8	745-3108
9	745-3109
10	745-3110
12	745-3112

For assemblies in other lengths and colours, please contact factory.

Dimensions (in mm)












Diameter of drilled hole: 1.5^{+0.1} mm
L = No. of poles x pin spacing + 1.5 mm

* Further approvals with corresponding ratings can be found at www.wago.com

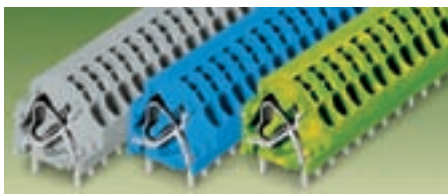





Terminal Strips without Jumper Slot 4 mm²/AWG 12

Pin Spacings 7.5 mm/0.295 in, 10 mm/0.394 in, 12.5 mm/0.492 in; Series 745

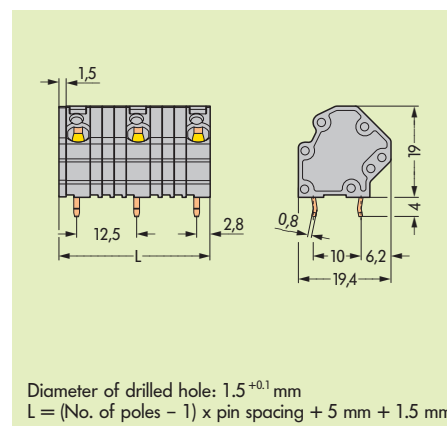
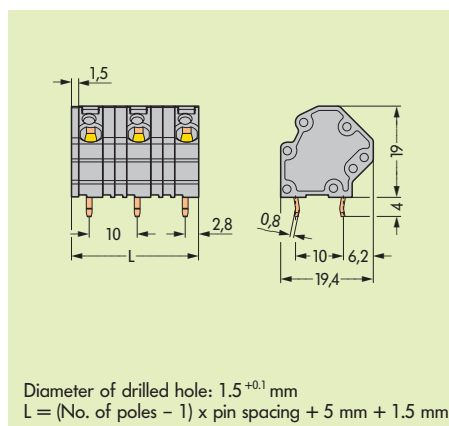
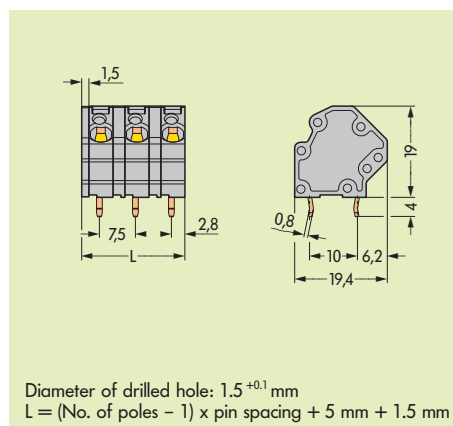
CAGE CLAMP®

<p>Pin spacing 7.5 mm / 0.295 in 0.08 – 4 mm² AWG 28 – 12 500 V/6 kV/3 300 V, 20 A  I_N 32 A</p> <p> 8 – 9 mm / 0.33 in</p> <p>* </p>	<p>Pin spacing 10 mm / 0.394 in 0.08 – 4 mm² AWG 28 – 12 630 V/8 kV/3 300 V, 20 A  I_N 32 A</p> <p> 8 – 9 mm / 0.33 in</p> <p>* </p>	<p>Pin spacing 12.5 mm / 0.492 in 0.08 – 4 mm² AWG 28 – 12 630 V/8 kV/3 600 V, 20 A  I_N 32 A</p> <p> 8 – 9 mm / 0.33 in</p> <p>* </p>
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



No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.
Terminal strips		Terminal strips		Terminal strips	
without jumper slot, grey,		without jumper slot, grey,		without jumper slot, grey,	
2 solder pins/pole		2 solder pins/pole		2 solder pins/pole	
2	745-3152	2	745-3202	2	745-3252
3	745-3153	3	745-3203	3	745-3253
4	745-3154	4	745-3204	4	745-3254
5	745-3155	5	745-3205	5	745-3255
6	745-3156	6	745-3206	6	745-3256
7	745-3157	7	745-3207	7	745-3257
8	745-3158	8	745-3208	8	745-3258
9	745-3159	9	745-3209	9	745-3259
10	745-3160	10	745-3210	10	745-3260
12	745-3162	12	745-3212	12	745-3262
For assemblies in other lengths and colors, please contact factory.		For assemblies in other lengths and colors, please contact factory.		For assemblies in other lengths and colors, please contact factory.	
		Additional item Nos. for colored terminal strips and end plates		Ordering examples	
		blue	.../...-006 	Terminal strip, pin spacing 5 mm/0.197 in	
		light grey	.../...-009 	8 poles, light grey: 745-3108/000-009	
		green-yellow	.../...-016 	Terminal strip pin spacing 12 mm/0.492 in	
light green	.../...-017 	12 poles, blue: 745-3262/000-006			
		 Suitable for EEx i applications (only suitable for pin spacings 7.5 mm/0.295 in; 10 mm/0.394 in and 12.5 mm/0.492 in)			













Dimensions (in mm) (Mounting shall provide flexibility for the PCB.)









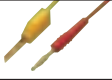
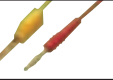


1 Modular Terminal Blocks 6 mm²/AWG 10, Series 745, Pin Spacings 7.5 mm / 0.295 in and 10 mm / 0.394 in

Pin spacing 7.5 mm / 0.295 in 0.2 – 6 mm ² AWG 24 – 10 400 V/6 kV/3 300 V, 30 A  I _N 32 A  11 – 12 mm / 0.45 in * 	Pin spacing 10 mm / 0.394 in 0.2 – 6 mm ² AWG 24 – 10 630 V/8 kV/3 300 V, 30 A  I _N 32 A  11 – 12 mm / 0.45 in * 	Spacer
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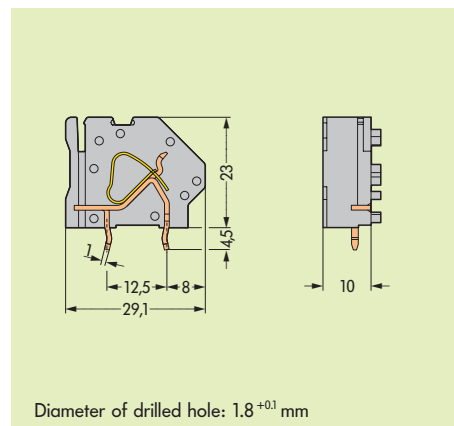
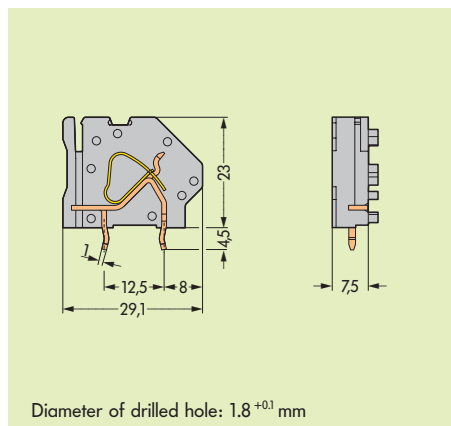
Color	Item No.	Pack.-unit pcs	Color	Item No.	Pack.-unit pcs	Color	Item No.	Pack.-unit pcs
Modular terminal blocks, 2 solder pins /pole			Modular terminal blocks, 2 solder pins /pole			Spacer, 2.5 mm wide		
grey	745-831 	100 (2 x 50)	grau	745-841 	100 (2 x 50)	grey	745-338	
light grey	745-833 	100 (2 x 50)	light grey	745-843 	100 (2 x 50)			
blue	745-834 	100 (2 x 50)	blue	745-844 	100 (2 x 50)			
green-yellow	745-837 	100 (2 x 50)	green-yellow	745-847 	100 (2 x 50)			
light green	745-838 	100 (2 x 50)	light green	745-848 	100 (2 x 50)			
 suitable for Ex i applications			 suitable for Ex i applications					

Accessories (for WMB marking accessories and miniature WSB marking accessories see Full Line Catalog W4 Volume 1, Section 11)

 End plate, snap-on type 1.6 mm / 0.063 in thick grey 745-300 100	 End plate, snap-on type 1.6 mm / 0.063 in thick grey 745-300 100
 End plate with fixing flange, grey 745-340 100	 End plate with fixing flange, grey 745-340 100
 End plate with fixing flange, grey 745-345 100	 End plate with fixing flange, grey 745-345 100
 Test plug, w. cable 500 mm/17.7" Ø 2 mm / 0.079 in, red 210-136 50 Ø 2.3 mm / 0.091 in, yel. 210-137 50	 Test plug, w. cable 500 mm/17.7" Ø 2 mm / 0.079 in, red 210-136 50 Ø 2.3 mm / 0.091 in, yel. 210-137 50
 Comb type jumper bar 1 to 3 745-381 250 (5 x 50) 2-way 745-382 250 (5 x 50) 3-way 745-383 250 (5 x 50) 4-way 745-384 200 (4 x 50) 5-way 745-385 200 (4 x 50) 10-way 745-380 200 (4 x 50)	 Comb type jumper bar 1 to 3 745-391 250 (5 x 50) 2-way 745-392 250 (5 x 50) 3-way 745-393 250 (5 x 50) 4-way 745-394 200 (4 x 50) 5-way 745-395 200 (4 x 50) 10-way 745-390 200 (4 x 50)

Dimensions (in mm)

Application notes



Higher rated voltages are possible using terminal strips with spacers so that 600 V to UL 1059 can be achieved without limitation at only 12.5 mm / 0.492 in pin spacing.

* Further approvals with corresponding ratings can be found at www.wago.com

Terminal Strips 6 mm²/AWG 10 with Spacers CAGE CLAMP®

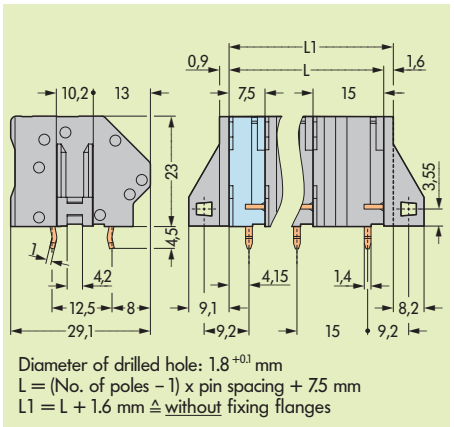
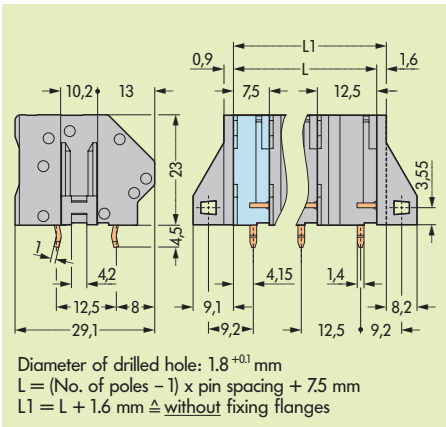
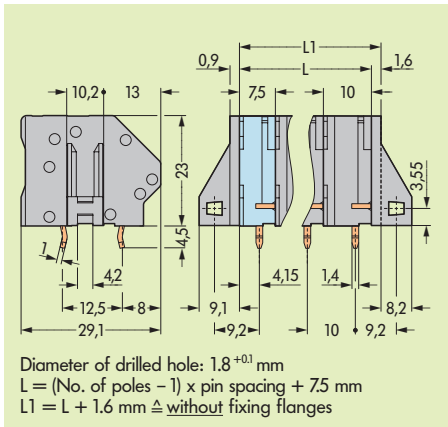
Pin Spacings 10 mm/0.394 in, 12.5 mm/0.492 in and 15 mm/0.591 in; Series 745

<p>Pin spacing 10 mm / 0.394 in 0.2 – 6 mm² AWG 24 – 10 630 V/8 kV/3 300 V, 10 A I_N 32 A</p> <p> 11 – 12 mm / 0.45 in</p> <p>* </p>	<p>Pin spacing 12.5 mm / 0.492 in 0.2 – 6 mm² AWG 24 – 10 800 V/8 kV/3 600 V, 30 A I_N 32 A</p> <p> 11 – 12 mm / 0.45 in</p> <p>* </p>	<p>Pin spacing 15 mm / 0.591 in 0.2 – 6 mm² AWG 24 – 10 1000 V/10 kV/3 600 V, 30 A I_N 32 A</p> <p> 11 – 12 mm / 0.45 in</p> <p>* </p>
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No. of poles	Item No.	Pack.-unit pcs	No. of poles	Item No.	Pack.-unit pcs	No. of poles	Item No.	Pack.-unit pcs
Terminal strips without fixing flanges, grey, with spacers			Terminal strips without fixing flanges, grey, with spacers			Terminal strips without fixing flanges, grey, with spacers		
2 solder pins /pole			2 solder pins /pole			2 solder pins /pole		
2	745-1352	104	2	745-1402		2	745-1452	
3	745-1353	72	3	745-1403		3	745-1453	
4	745-1354	48	4	745-1404		4	745-1454	
5	745-1355	40	5	745-1405		5	745-1455	
6	745-1356	32	6	745-1406		6	745-1456	
7	745-1357	24	7	745-1407		7	745-1457	
8	745-1358	24	8	745-1408		8	745-1458	
9	745-1359	16	9	745-1409		9	745-1459	
10	745-1360	16	10	745-1410		10	745-1460	
12	745-1362	16	12	745-1412		12	745-1462	
Additional item no. for terminal strips with fixing flanges .../005-000			Additional item no. for terminal strips with fixing flanges .../005-000			Additional item no. for terminal strips with fixing flanges .../005-000		
① Using jumpers, the UL current is reduced to 10 A at pin spacing 10 mm								
For assemblies in other lengths and colors, please contact factory.			For assemblies in other lengths and colors, please contact factory.			For assemblies in other lengths and colors, please contact factory.		
			Additional item nos. for colored terminal strips and end plates			Ordering examples		
			blue .../...-006 ①			Terminal strip, pin spacing 12.5 mm/0.492 in 8 poles, light grey: 745-1408/000-009		
			light grey .../...-009 ○			Terminal strip with fixing flanges, pin spacing 15 mm/0.591 in		
			green-yellow .../...-016 ●			12 poles, blue: 745-1462/005-006		
light green .../...-017 ●			① Suitable for Ex i applications					

Dimensions (in mm) (Mounting shall provide flexibility for the PCB.)



MULTI CONNECTION SYSTEM MICRO

Male and Female Connectors, 100% Protected against Mismatching, Pin Spacing 2.5 mm / 0.098 in



<p>Pin spacing 2.5 mm/0.098 in, light grey 0.08 – 0.5 mm² AWG 28 – 20 250 V/2.5 kV/2 250 V, 4 A I_N 4 A 150 V, 4 A</p> <p>5 – 6 mm / 0.22 in</p> <p>* CCA KCC GL BV LR NV ABS</p>	<p>Pin spacing 2.5 mm/0.098 in, light grey 0.08 – 0.5 mm² AWG 28 – 20 250 V/2.5 kV/2 250 V, 4 A I_N 4 A 150 V, 4 A</p> <p>5 – 6 mm / 0.22 in</p> <p>* CCA KCC GL BV LR NV ABS</p>	<p>Pin spacing 2.5 mm/0.098 in, light grey 0.08 – 0.5 mm² AWG 28 – 20 250 V/2.5 kV/2 250 V, 4 A I_N 4 A 150 V, 4 A</p> <p>5 – 6 mm / 0.22 in</p> <p>* CCA KCC GL BV LR NV ABS</p>
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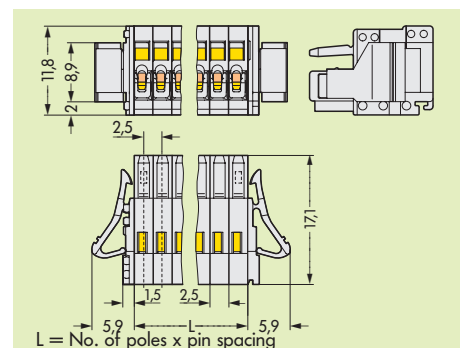
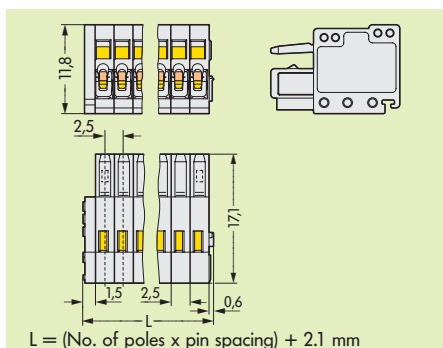
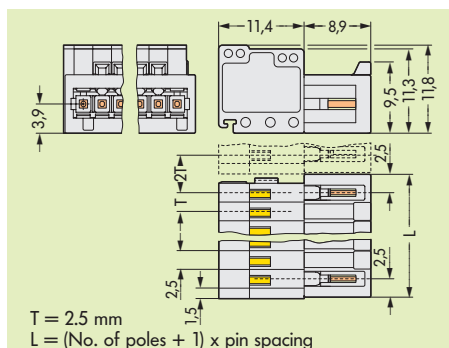


No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.
Male connectors with CAGE CLAMP® connection, 100% protected against mismatching, light grey		Female connectors with CAGE CLAMP® connection, 100% protected against mismatching, with coding fingers, light grey		Female connectors with CAGE CLAMP® connection and locking levers, 100% protected against mismatching, with coding fingers, light grey	
2	733-202	2	733-102	2	733-102/037-000
3	733-203	3	733-103	3	733-103/037-000
4	733-204	4	733-104	4	733-104/037-000
5	733-205	5	733-105	5	733-105/037-000
6	733-206	6	733-106	6	733-106/037-000
7	733-207	7	733-107	7	733-107/037-000
8	733-208	8	733-108	8	733-108/037-000
10	733-210	10	733-110	10	733-110/037-000
12	733-212	12	733-112	12	733-112/037-000

Accessories

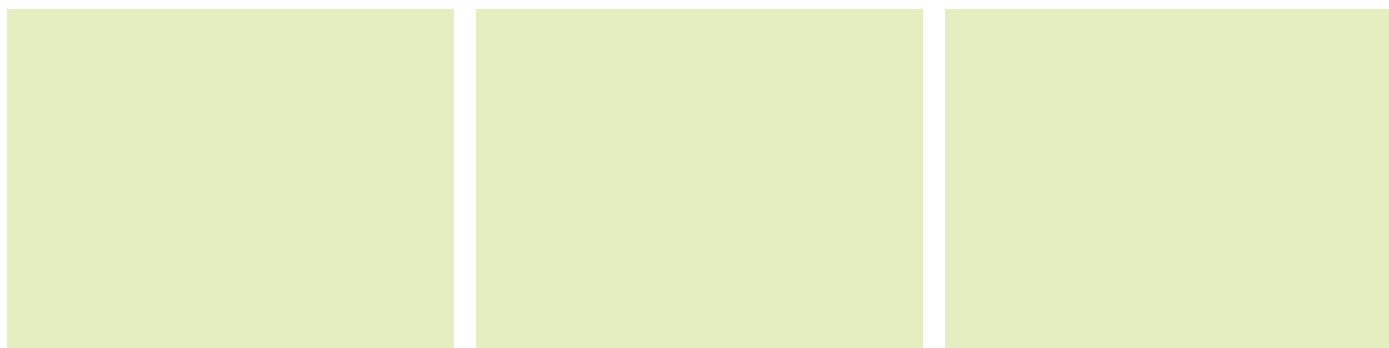
<p>Operating tool, see Full Line Catalog W4 Volume 2, Section 11</p>	<p>Operating tool, see Full Line Catalog W4 Volume 2, Section 11</p>	<p>Operating tool, see Full Line Catalog W4 Volume 2, Section 11</p>
<p>Coding key, snap-on type, light grey 733-330</p>		
<p>Marker card, 100 self-adhesive strips per card</p> <p>Marking 1 – 16 (400x) 210-331/0250-0202 For further printings Full Line Catalog W4 Volume 2, Section 11 For direct printing please contact factory</p>	<p>Marker card, 100 self-adhesive strips per card</p> <p>Marking 1 – 16 (400x) 210-331/0250-0202 For further printings Full Line Catalog W4 Volume 2, Section 11 For direct printing please contact factory</p>	<p>Marker card, 100 self-adhesive strips per card</p> <p>Marking 1 – 16 (400x) 210-331/0250-0202 For further printings Full Line Catalog W4 Volume 2, Section 11 For direct printing please contact factory</p>

Dimensions (in mm)



* Approvals with corresponding ratings see www.wago.com

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MULTI CONNECTION SYSTEM MINI

Headers with Solder Pins, Reflow Soldering

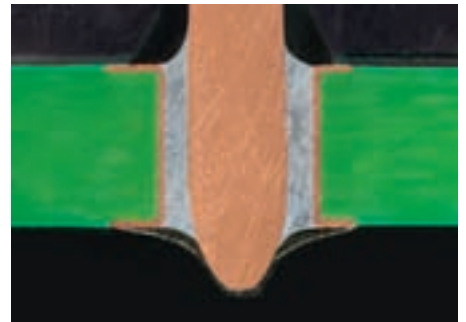
100 % Protected against Mismatching, Pin Spacing 3.5 mm/0.138 in

VOLUME 2

<p>Pin spacing 3.5 mm/0.138 in, black 250 V/2.5 kV/2 I_N 10 A</p>	<p>Pin spacing 3.5 mm/0.138 in, black 250 V/2.5 kV/2 I_N 10 A</p>	
*	*	



No. of poles	Item No.	No. of poles	Item No.	Width of reel (W)
Headers with solder pins, 100 % protected against mismatching, black, straight solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in		Headers with solder pins, 100 % protected against mismatching, black, straight solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in		
		Headers in tape on reel acc. to IEC 60286-3		
		Reel diameter 330 mm/13 in (mm)		
2	734-132/105-604	2	734-132/105-604/997-405	32
3	734-133/105-604	3	734-133/105-604/997-405	32
4	734-134/105-604	4	734-134/105-604/997-405	32
5	734-135/105-604	5	734-135/105-604/997-405	32
6	734-136/105-604	6	734-136/105-604/997-407	56
8	734-138/105-604	8	734-138/105-604/997-407	56
10	734-140/105-604	10	734-140/105-604/997-407	56
12	734-142/105-604	12	734-142/105-604/997-407	56
		200 pieces per reel		



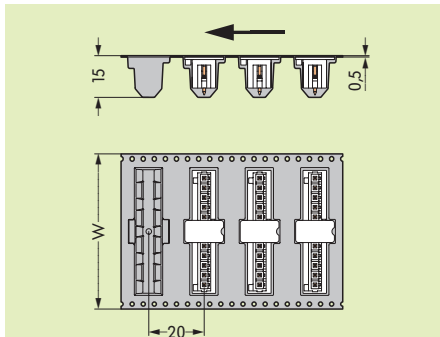
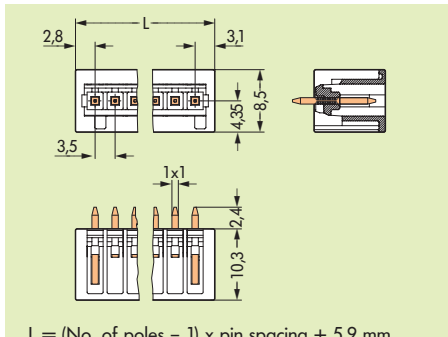
For use in reflow soldering processes in convection ovens based on EN 61760-1

- apply solder paste
- place components on PCB
- begin reflow soldering process

Accessories (fit after soldering)

<p>Coding key, light grey, snap-on type 734-130</p>	<p>Coding key, light grey, snap-on type 734-130</p>

Dimensions Diameter of the plated through hole: 1.4^{+0.1} mm – optimized for PCB thickness up to 2 mm







Note: These connectors can only be mated and unmated at voltages below 42 V and in the "No load" condition.
For mating and unmating at low power values, please request data.

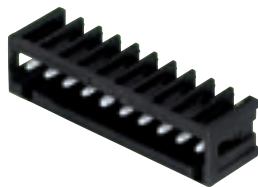
* Further approvals with corresponding ratings can be found at www.wago.com

MULTI CONNECTION SYSTEM **MINI**

Headers with Solder Pins, **Reflow Soldering**

100 % Protected against Mismatching, Pin spacing 3.5 mm/0.138 in

<p>Pin spacing 3.5 mm/0.138 in, black 250 V/2.5 kV/2 300 V, 10 A  I_N 10 A</p>	<p>Pin spacing 3.5 mm/0.138 in, black 250 V/2.5 kV/2 300 V, 10 A  I_N 10 A</p>
* 	* 





No. of poles	Item No.	No. of poles	Item No.	Width of reel (W)
<p>Headers with solder pins, 100 % protected against mismatching, black, right angle solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in</p>		<p>Headers with solder pins, 100 % protected against mismatching, black, right angle solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in</p>		
		<p>Headers in tape on reel acc. to IEC 60286-3 Reel diameter 330 mm/13 in (mm)</p>		
2	734-162/105-604	2	734-162/105-604/997-405	32
3	734-163/105-604	3	734-163/105-604/997-405	32
4	734-164/105-604	4	734-164/105-604/997-405	32
5	734-165/105-604	5	734-165/105-604/997-405	32
6	734-166/105-604	6	734-166/105-604/997-407	56
8	734-168/105-604	8	734-168/105-604/997-407	56
10	734-170/105-604	10	734-170/105-604/997-407	56
12	734-172/105-604	12	734-172/105-604/997-407	56
		280 pieces per reel		

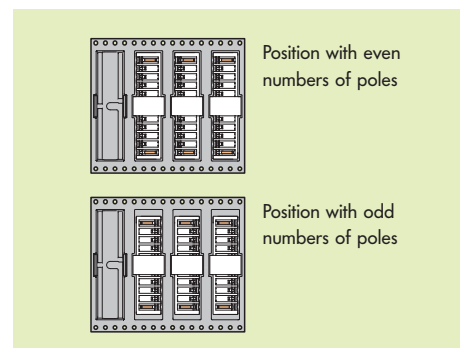
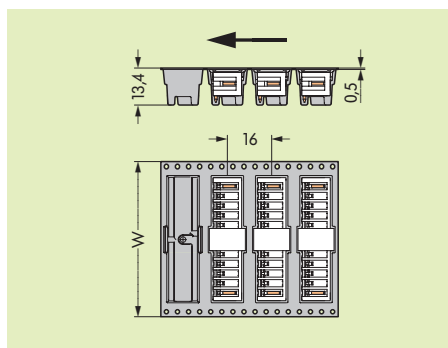
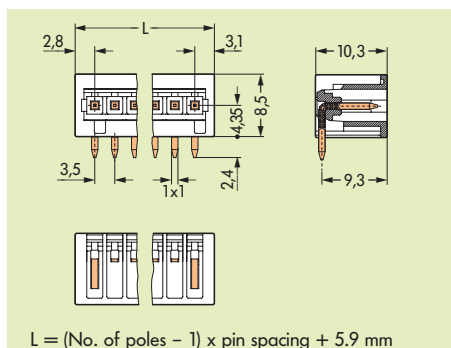


For use in reflow soldering processes in convection ovens based on EN 61760-1


- apply solder paste
- place components on PCB
- begin reflow soldering process


Accessories (fit after soldering)	
 <p>Coding key, light grey, snap-on type 734-130</p>	 <p>Coding key, light grey, snap-on type 734-130</p>

Dimensions Diameter of the plated through hole: 1.4^{+0.1} mm – optimized for PCB thickness up to 2 mm



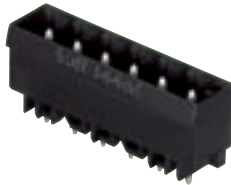
**Headers with Solder Pins,
Pin Spacing 5 mm/0.197 in**

Pin spacing 5 mm/0.197 in, black
250 V/4 kV/3 | 300 V, 10 A 
I_N 12 A

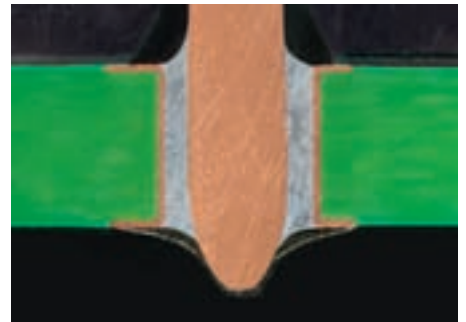
Pin spacing 5 mm/0.197 in, black
250 V/4 kV/3 | 300 V, 10 A 
I_N 12 A

* 

* 







No. of poles	Item No.	No. of poles	Item No.	Width of reel (W)
Headers with solder pins, black, straight solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in		Headers with solder pins, black, straight solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in		
		Headers in tape on reel acc. to IEC 60286-3		
		Reel diameter 330 mm/13 in (mm)		
2	231-132/001-000/105-604	2	231-132/001-000/105-604/997-405	32
3	231-133/001-000/105-604	3	231-133/001-000/105-604/997-405	32
4	231-134/001-000/105-604	4	231-134/001-000/105-604/997-407	56
5	231-135/001-000/105-604	5	231-135/001-000/105-604/997-407	56
6	231-136/001-000/105-604	6	231-136/001-000/105-604/997-407	56
8	231-138/001-000/105-604	8	231-138/001-000/105-604/997-407	56
10	231-140/001-000/105-604	10	231-140/001-000/105-604/997-409	88
12	231-142/001-000/105-604	12	231-142/001-000/105-604/997-409	88
		170 pieces per reel		



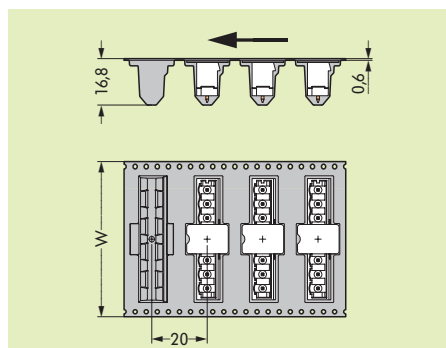
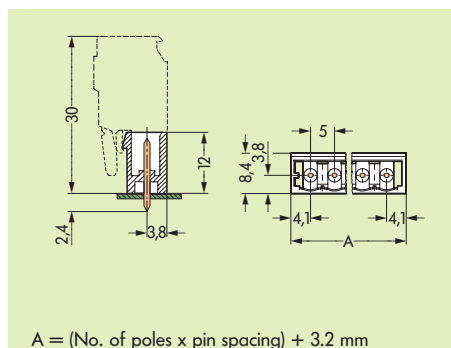
For use in reflow soldering processes in convection ovens based on EN 61760-1

- apply solder paste
- place components on PCB
- begin reflow soldering process

Accessories (fit after soldering)

	Coding key , snap-on type, light grey 231-129		Coding key , snap-on type, light grey 231-129
	Separator , for formation of groups, light grey 231-500		Separator , for formation of groups, light grey 231-500

Dimensions Diameter of the plated through hole: 1.4^{+0.1} mm – optimized for PCB thickness up to 2 mm



Note: These connectors can only be mated and unmated at voltages below 42 V and in the "No load" condition.

For mating and unmating at low power values, please request data.

* Further approvals with corresponding ratings can be found at www.wago.com

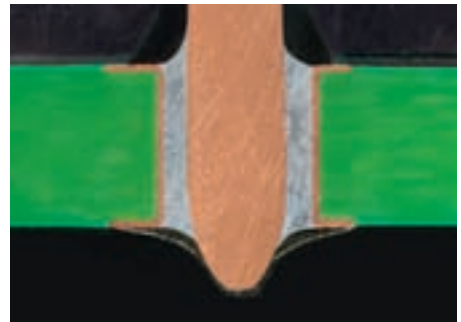
MULTI CONNECTION SYSTEM **MIDI** – Reflow Soldering

Headers with Solder Pins, Pin Spacing 5 mm/0.197 in

Pin spacing 5 mm/0.197 in, black 250 V/4 kV/3 I_N 12 A	Pin spacing 5 mm/0.197 in, black 250 V/4 kV/3 I_N 12 A	
	300 V, 10 A	300 V, 10 A
*	*	



No. of poles	Item No.	No. of poles	Item No.	Width of reel (W)
Headers with solder pins, black, right angle solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in		Headers with solder pins, black, right angle solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in		
		Headers in tape on reel acc. to IEC 60286-3		
		Reel diameter 330 mm/13 in (mm)		
2	231-432/001-000/105-604	2	231-432/001-000/105-604/997-405	32
3	231-433/001-000/105-604	3	231-433/001-000/105-604/997-405	32
4	231-434/001-000/105-604	4	231-434/001-000/105-604/997-407	56
5	231-435/001-000/105-604	5	231-435/001-000/105-604/997-407	56
6	231-436/001-000/105-604	6	231-436/001-000/105-604/997-407	56
8	231-438/001-000/105-604	8	231-438/001-000/105-604/997-407	56
10	231-440/001-000/105-604	10	231-440/001-000/105-604/997-409	88
12	231-442/001-000/105-604	12	231-442/001-000/105-604/997-409	88
		330 pieces per reel		

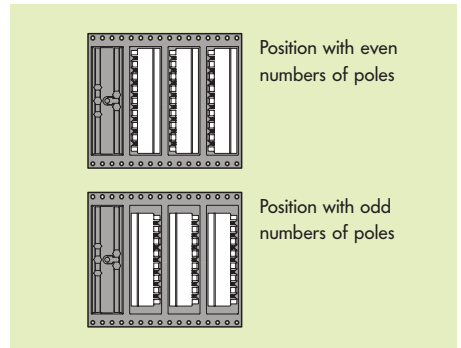
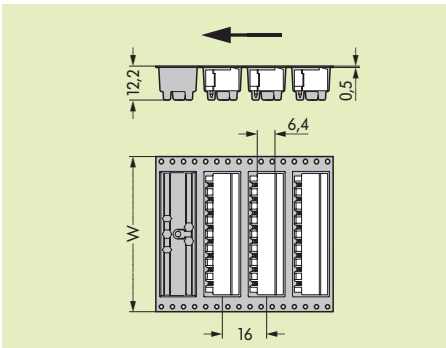
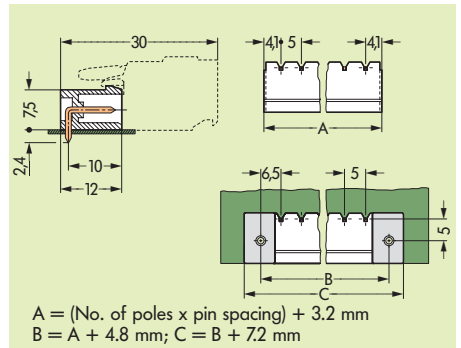


For use in reflow soldering processes in convection ovens based on EN 61760-1

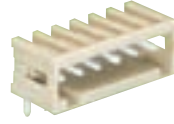
- apply solder paste
- place components on PCB
- begin reflow soldering process

Accessories (fit after soldering)			
	Coding key, snap-on type, light grey		Coding key, snap-on type, light grey
	231-129		231-129
	Separator, for formation of groups, light grey		Separator, for formation of groups, light grey
	231-500		231-500

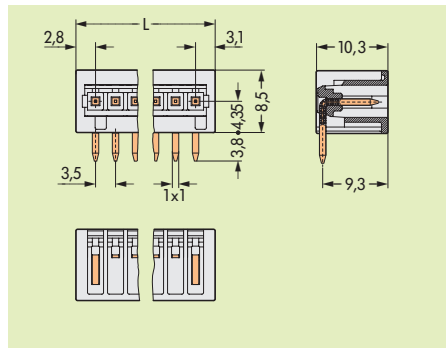
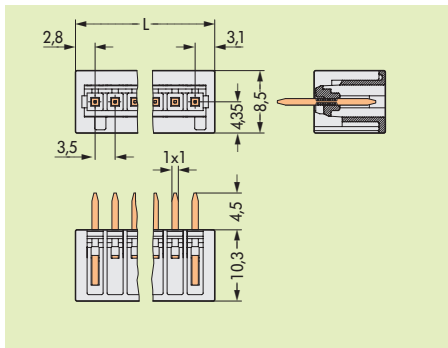
Dimensions Diameter of the plated through hole: 1.4^{+0.1} mm – optimized for PCB thickness up to 2 mm



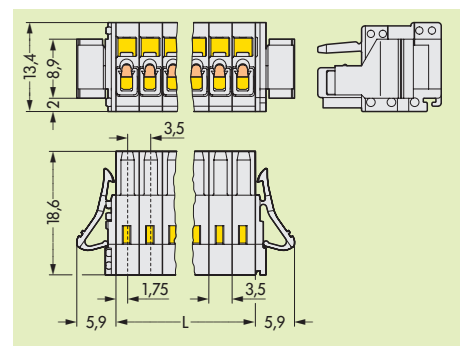
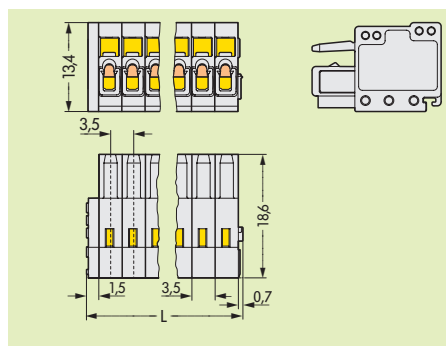
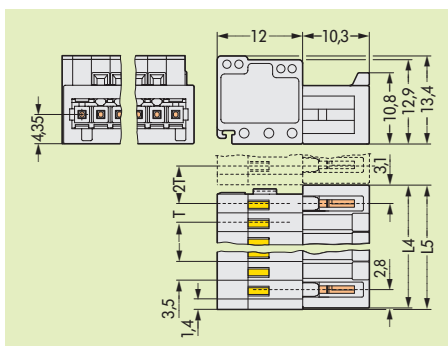
MULTI CONNECTION SYSTEM MINI – Extension of Pole Number
Connectors, 100% Protected against Mismatching
Pin Spacing 3.5 mm see also Full Line Catalog W4 Volume 2, pages 5.4 – 5.9



No. of poles	Item No.	No. of poles	Item No.
Headers with solder pins, straight solder pin 1 mm x 1 mm		Headers with solder pins, right angle solder pin 1 mm x 1 mm	
14	734-144	14	734-174



No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.
Male connector with CAGE CLAMP® connection		Femal connector with CAGE CLAMP® connection, coding fingers		Femal connector with CAGE CLAMP® connection and locking device, coding fingers	
14	734-314	14	734-114	14	734-114/037-000









MULTI CONNECTION SYSTEM **MINI**

Combi Strip, **100 % Protected against Mismatching**, Pin Spacing 3.5 mm / 0.138 in

CAGE CLAMP®

5

VOLUME 2

<p>Pin spacing 3.5 mm / 0.138 in, light grey 0.08 – 1.5 mm² AWG 28 – 14** 250 V / 2.5 kV / 2 300 V, 10 A  I_N 10 A</p> <p> 7 mm / 0.28 in</p> <p>* </p>	<p>Pin spacing 3.5 mm / 0.138 in, light grey 0.08 – 1.5 mm² AWG 28 – 14** 250 V / 2.5 kV / 2 300 V, 10 A  I_N 10 A</p> <p> 7 mm / 0.28 in</p> <p>* </p>	
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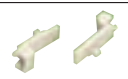
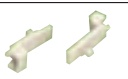
No. of poles	Item No.	No. of poles	Item No.
Combi strip with CAGE CLAMP® connection, 100% protected against mismatching, pin and socket connection, with coding fingers, light grey		Combi strip with CAGE CLAMP® connection and locking levers, 100 % protected against mismatching, with coding fingers, light grey	
2	734-362	2	734-362/037-000
3	734-363	3	734-363/037-000
:	:	:	:
6	734-366	6	734-366/037-000
7	734-367	7	734-367/037-000
8	734-368	8	734-368/037-000
9	734-369	9	734-369/037-000
10	734-370	10	734-370/037-000
12	734-372	12	734-372/037-000

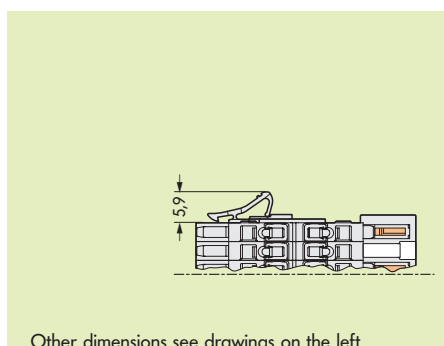
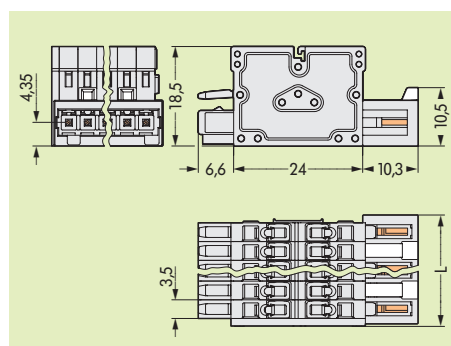


Combi strip

The combination of pin and socket connections allows the assembly of many combi strips. 2 CAGE CLAMP® connections allow the looping through of potentials.

Accessories

<p>Marker cards,</p> <p> 80 self-adhesive strips per card</p> <p>Marking</p> <p>1 – 16 (240x) 210-332/0350-0202</p> <p>17 – 32 (240x) 210-332/0350-0204</p> <p>For further printings see W4 Volume 2, Section 11</p> <p>For direct printing please contact factory</p>	<p>Marker cards,</p> <p> 80 self-adhesive strips per card</p> <p>Marking</p> <p>1 – 16 (240x) 210-332/0350-0202</p> <p>17 – 32 (240x) 210-332/0350-0204</p> <p>For further printings see W4 Volume 2, Section 11</p> <p>For direct printing please contact factory</p>
<p> Screwdriver, (2.5 x 0.4) mm (0.098 x 0.016) in 210-619</p>	<p> Screwdriver, (2.5 x 0.4) mm (0.098 x 0.016) in 210-619</p>
<p> Coding key, snap-on type, light grey 734-130</p>	<p> Coding key, snap-on type, light grey 734-130</p>
<p>Dimensions (in mm) $L_4 = (\text{No. of poles} - 1) \times \text{pin spacing} + 5.9 \text{ mm} + 0.45 \text{ mm}$</p>	



Other dimensions see drawings on the left

* Approvals with corresponding ratings see www.wago.com
** AWG 14: THHN, THWN

MULTI CONNECTION SYSTEM *MINI* and *MIDI* Connection Tool

<p>Connection tool for pin spacings 3.5 mm/0.138 in and 3.81 mm/0.15 in</p>	<p>Connection tool for pin spacings 5 mm/0.197 in and 5.08 mm/0.2 in and 7.5 mm/0.295 in and 7.62 mm/0.3 in</p>	
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Item No.	Item No.
<p>Connection tool for male and female connectors with CAGE CLAMP® connection, Series 734</p>	<p>Connection tool for male and female connectors with CAGE CLAMP® connection, Series 231, 232, 721, 722, 723, 731, 732</p>
<p>black 734-231</p>	<p>natural 231-159</p>



Wire connection
Wire entry and operation of the clamp are parallel to each other



Wire connection
Wire entry and operation of the clamp are parallel to each other






Wire connection
Wire entry and operation of the clamp is done at a right angle to each other



Wire connection
Wire entry and operation of the clamp is done at a right angle to each other

MULTI CONNECTION SYSTEM **MINI**




Female Connectors with Solder Pins, 100 % Protected against Mismatching
Pin Spacing 3.5 mm/0.138 in

Pin spacing 3.5 mm/0.138 in, light grey 250 V/2.5 kV/2 300 V, 10 A  I _N 10 A	Pin spacing 3.5 mm/0.138 in, light grey 250 V/2.5 kV/2 300 V, 10 A  I _N 10 A	Female connectors with solder pins and locking device * 
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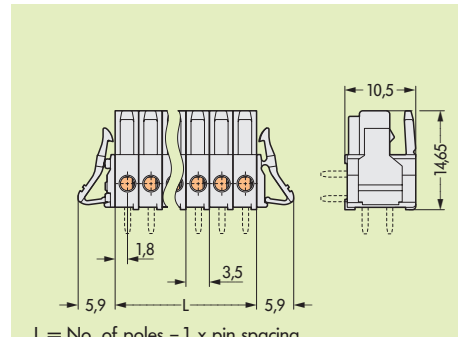
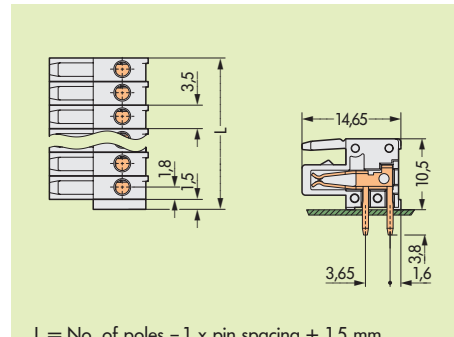
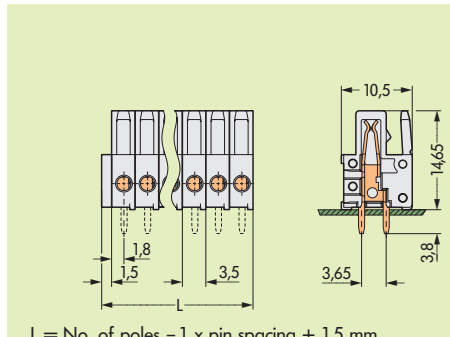


No. of poles	Item No.	No. of poles	Item No.	Additional item No. for . . .
Female connectors with straight solder pins, 100 % protected against mismatching, with coding fingers, with two latches, light grey, solder pin 0.9 mm x 0.9 mm		Female connectors with right angle solder pins, 100 % protected against mismatching, with coding fingers, with two latches, light grey, solder pin 0.9 mm x 0.9 mm		. . . Female connectors with straight or right angle solder pins and locking device
2 (one latch only)	734-462	2 (one latch only)	734-532	. . . / 037-000
3	734-463	3	734-533	
:	:	:	:	
6	734-466	6	734-536	
:	:	:	:	
10	734-470	10	734-540	Ordering example:
12	734-472	12	734-542	Female connector with straight solder pins and locking device,
:	:	:	:	100 % protected against mismatching,
14	734-474	14	734-544	pin spacing 3.5 mm/0.138 in, light grey,
16	734-476	16	734-546	12-pole 734-472/037-000
18	734-478	18	734-548	
20	734-480	20	734-550	
24	734-484	24	734-554	

Accessories

Marker cards,	Marker cards,	Marker cards,
80 self-adhesive strips per card	80 self-adhesive strips per card	80 self-adhesive strips per card
		
Marking 1 - 16 (240 x) 210-332/0350-0202 17 - 32 (240 x) 210-332/0350-0204 other markings see Full Line Catalog W4 Volume 2, Section 11 For direct printing, please contact factory	Marking 1 - 16 (240 x) 210-332/0350-0202 17 - 32 (240 x) 210-332/0350-0204 other markings see Full Line Catalog W4 Volume 2, Section 11 For direct printing, please contact factory	Marking 1 - 16 (240 x) 210-332/0350-0202 17 - 32 (240 x) 210-332/0350-0204 other markings see Full Line Catalog W4 Volume 2, Section 11 For direct printing, please contact factory






Dimensions (in mm) Diameter of drilled hole: 1.4^{+0.1} mm



* Approvals with corresponding ratings see www.wago.com

MULTI CONNECTION SYSTEM **MINI**




Female Connectors with Solder Pins, 100% Protected against Mismatching Pin Spacing 3.81 mm/0.15 in

Pin spacing 3.81 mm/0.15 in, orange 250 V/2.5 kV/2 300 V, 10 A  I _N 10 A	Pin spacing 3.81 mm/0.15 in, orange 250 V/2.5 kV/2 300 V, 10 A  I _N 10 A	Female connectors with solder pins and locking device
* 	* 	* 

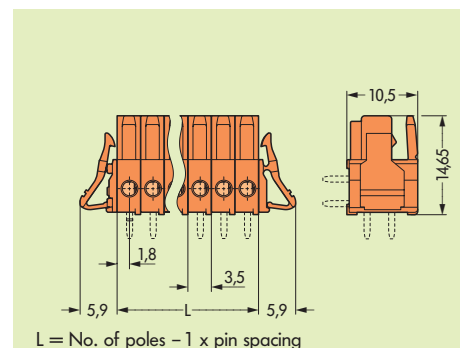
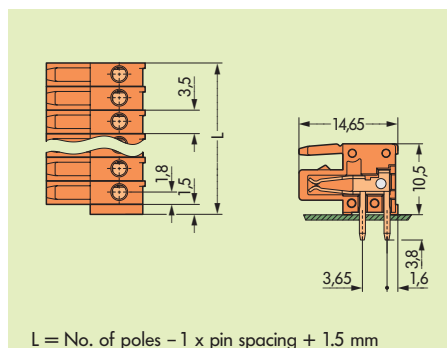
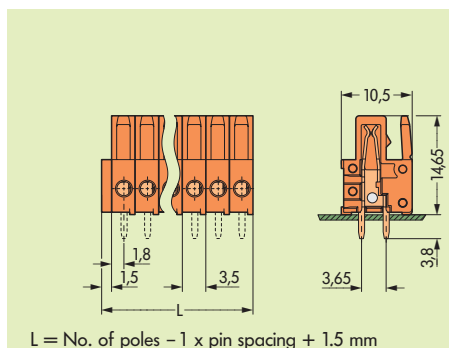


No. of poles	Item No.	No. of poles	Item No.	Additional item No. for . . .
Female connectors with straight solder pins, 100% protected against mismatching, with coding fingers, with two latches, light grey, solder pin 0.9 mm x 0.9 mm		Female connectors with right angle solder pins, 100% protected against mismatching, with coding fingers, with two latches, light grey, solder pin 0.9 mm x 0.9 mm		. . . Female connectors with straight or right angle solder pins and locking device
2 (one latch only)	734-502	2 (one latch only)	734-562	. . . / 037-000
3	734-503	3	734-563	
4	734-504	4	734-564	
5	734-505	5	734-565	
6	734-506	6	734-566	Ordering example:
7	734-507	7	734-567	Female connector with straight solder pins and locking device,
8	734-508	8	734-568	100% protected against mismatching,
9	734-509	9	734-569	pin spacing 3.81 mm/0.15 in, light grey,
10	734-510	10	734-570	8-pole 734-568/037-000
12	734-512	12	734-572	
14	734-514	14	734-574	
16	734-516	16	734-576	
20	734-520	20	734-580	

Accessories

Marker cards,	Marker cards,	Marker cards,
80 self-adhesive strips per card	80 self-adhesive strips per card	80 self-adhesive strips per card
		
Marking	Marking	Marking
1 - 16 (240 x) 210-332/0381-0202	1 - 16 (240 x) 210-332/0381-0202	1 - 16 (240 x) 210-332/0381-0202
17 - 32 (240 x) 210-332/0381-0204	17 - 32 (240 x) 210-332/0381-0204	17 - 32 (240 x) 210-332/0381-0204
other markings	other markings	other markings
see Full Line Catalog W4 Volume 2, Section 11	see Full Line Catalog W4 Volume 2, Section 11	see Full Line Catalog W4 Volume 2, Section 11
For direct printing, please contact factory	For direct printing, please contact factory	For direct printing, please contact factory

Dimensions (in mm) Diameter of drilled hole: 1.4 ^{+0.1} mm



<p>Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A I_N 14 A 300 V, 15 A </p> <p> 8 – 9 mm / 0.33 in</p> <p>* </p>	<p>Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm² AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A I_N 14 A 300 V, 15 A </p> <p> 8 – 9 mm / 0.33 in</p> <p>* </p>
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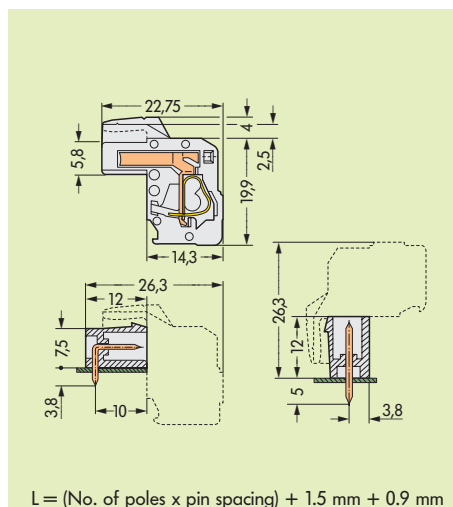
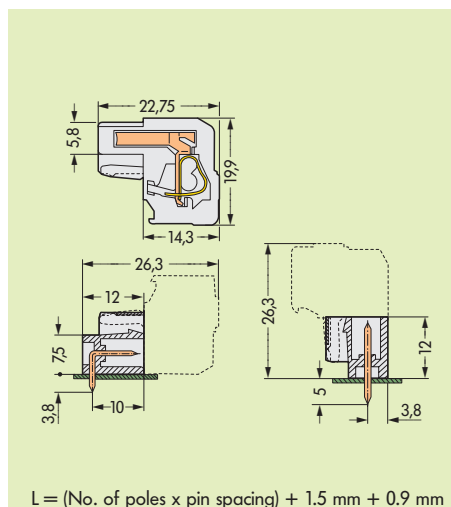


No. of poles	Item No.	No. of poles	Item No.
Angled female connectors with CAGE CLAMP® connection, 100% protected against mismatching, conductor exit same direction as latches, with coding fingers, with 2 latches, light grey		Angled female connectors with CAGE CLAMP® connection, 100% protected against mismatching, conductor exit same direction as latches, with coding fingers, with 2 latches, light grey	
2 (one latch only)	722-202/026-000	2 (one latch only)	722-102/026-000
3	722-203/026-000	3	722-103/026-000
4	722-204/026-000	4	722-104/026-000
5	722-205/026-000	5	722-105/026-000
6	722-206/026-000	6	722-106/026-000
:	:	:	:
10	722-210/026-000	10	722-110/026-000
12	722-212/026-000	12	722-112/026-000
14	722-214/026-000	14	722-114/026-000
16	722-216/026-000	16	722-116/026-000
20	722-220/026-000	20	722-120/026-000

Accessories

<p>Test plug, w. cable 500 mm/1'7.7" Ø 2 mm/0.079 in, red 210-136 Ø 2.3 mm/0.091 in, yel. 210-137</p>	<p>Test plug, w. cable 500 mm/1'7.7" Ø 2 mm/0.079 in, red 210-136 Ø 2.3 mm/0.091 in, yel. 210-137</p>
<p>Insulation stop, 5 pcs/strip 0.08 - 0.2 mm² (white) 231-670 0.25 - 0.5 mm² (light gr.) 231-671 0.75 - 1 mm² (dark grey) 231-672</p> <p> 0.2 mm² solid/0.14 mm² f-st</p>	<p>Insulation stop, 5 pcs/strip 0.08 - 0.2 mm² (white) 231-670 0.25 - 0.5 mm² (light gr.) 231-671 0.75 - 1 mm² (dark grey) 231-672</p> <p> 0.2 mm² solid/0.14 mm² f-st</p>


Dimensions (in mm)



* Approvals with corresponding ratings see www.wago.com
** AWG 12: THHN, THWN

Pin spacings 5 mm/0.197 in, grey
5.08 mm/0.2 in, grey



	Item No.	Pack.-unit pcs
Comb type jumper bars, insulated		
for straight and angled male and female connectors of Series 231		
with CAGE CLAMP® connection		
Suitable for pin spacings 5 mm/0.197 in and 5.08 mm/0.2 in		
Attention!		
Not suitable for 2-conductor female connectors with CAGE CLAMP®S connection		
3-way	231-903	
5-way	231-905	
7-way	231-907	
10-way	231-910	
Accessories		
Operating tool, insulated,		
	3-way 280-433	1
	5-way 280-435	1

Attention! Insert jumper bar according to direction symbols.

- Symbol shows direction to operating slot
- Symbol shows direction to conductor entry



Insert comb type jumper bars with maximum 5 contacts using operating tool. Comb type jumper bars with more than 7 contacts are pre-assembled by WAGO



Individual comb type jumper bars are created by breaking out jumper contacts

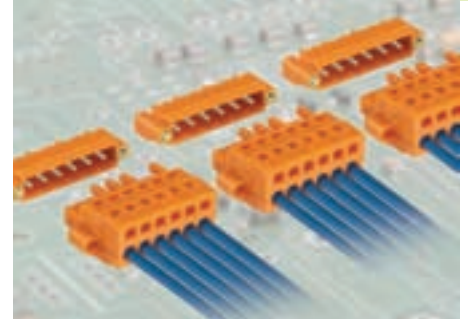
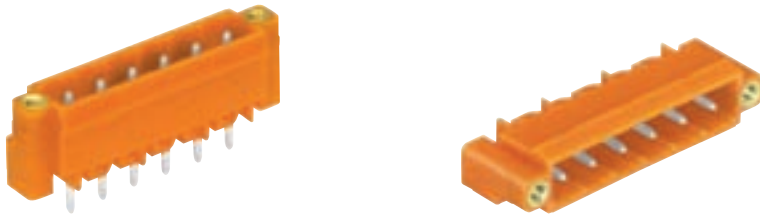


Note: The maximum wire size is reduced to 1.5 mm²/ AWG 16 solid and stranded ("s" + "f-st")

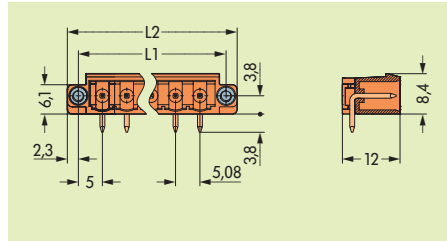
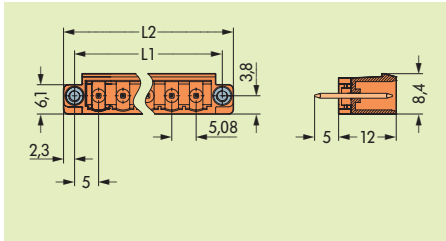
MULTI CONNECTION SYSTEM **MIDI** – Extension of Pole Number

Connectors with Screw/Threaded flanges

Pin Spacing 5.08 mm / 0.2 in see also Full Line Catalog W4 Volume 2, pages 7.32 – 7.33

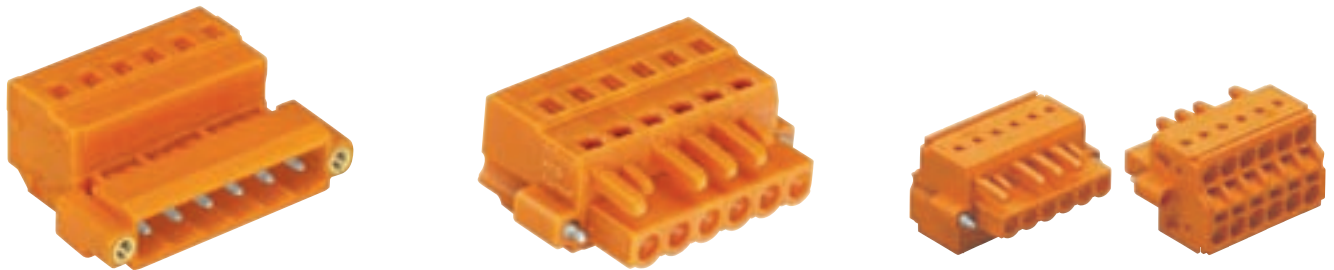


No. of poles	Item No.	No. of poles	Item No.
Headers with straight solder pins and threaded flanges, orange, solder pin 1 mm x 1 mm		Headers with right angle solder pins and threaded flanges, orange, solder pin 1 mm x 1 mm	
7	231-337/108-000	7	231-537/108-000
:	:	:	:
10	231-340/108-000	10	231-540/108-000
12	231-342/108-000	12	231-542/108-000
14	231-344/108-000	14	231-544/108-000
:	:	:	:
16	231-346/108-000	16	231-546/108-000

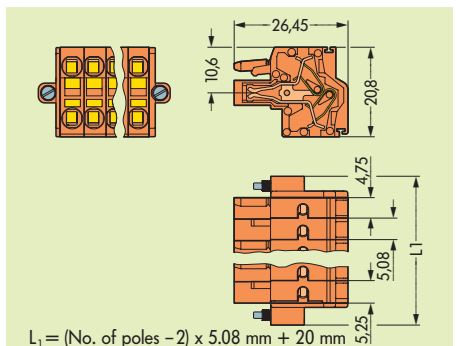
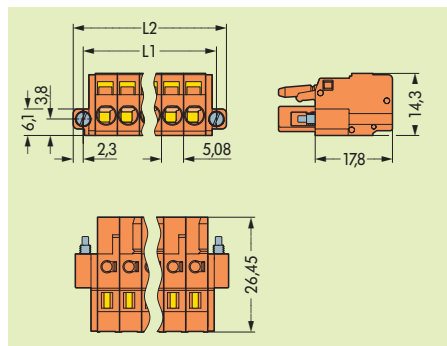
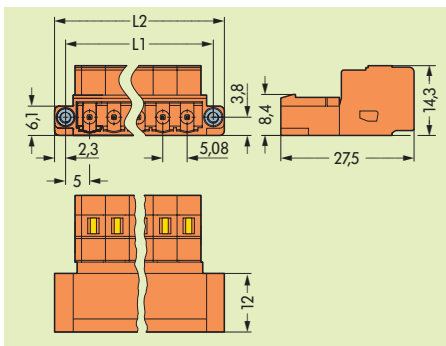


Pin spacing 5.08 mm/0.2 in, orange
 0.2 – 2.5 mm² | AWG 24 – 12
 250 V/4 kV/3 | 300 V, 20/5 A $\overline{\text{VA}}$
 I_N 16 A

9 – 10 mm / 0.37 in



No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.
Male connectors with CAGE CLAMP® and threaded flanges, orange		Female connectors with CAGE CLAMP® and screw flanges, with coding fingers, with two latches, orange		2-conductor female connectors with CAGE CLAMP® and screw flanges, with coding fingers, with two latches, orange	
7	231-637/109-000	7	231-307/107-000	2 (only 1 latch)	231-2302/107-000
:	:	:	:	3 (only 1 latch)	231-2303/107-000
10	231-640/109-000	10	231-310/107-000	4	231-2304/107-000
12	231-642/109-000	12	231-312/107-000	:	:
14	231-644/109-000	14	231-314/107-000	10	231-2310/107-000
:	:	:	:	:	:
16	231-646/109-000	16	231-316/107-000	16	231-2316/107-000



MULTI CONNECTION SYSTEM **MIDI**

Strain relief plates for 2-Conductor Female Connectors

Pin Spacings 5 mm/0.197 in; 5.08 mm/0.2 in; 7.5 mm/0.295 in and 7.62 mm/0.3 in

CAGE CLAMP®S

VOLUME 2

Ordering examples for
for 2-conductor female connectors
with CAGE CLAMP®S connection
and strain relief plates

Description	Width	Additional item No.
Strain relief plate, fixed	6 mm	.../132-000
	12.5 mm	.../133-000
	25 mm	.../134-000
	35 mm	.../135-000
	55 mm	.../136-000
	75 mm	.../137-000

Application notes

2-conductor female connectors with CAGE CLAMP®S connection can be fitted with a strain relief plate retrospectively or directly at the factory. Plates are available in 6 different sizes.

An "additional item no.", referring to the width of the strain relief plate, is added to the "basic item no." and determines the type of connector (see ordering examples).

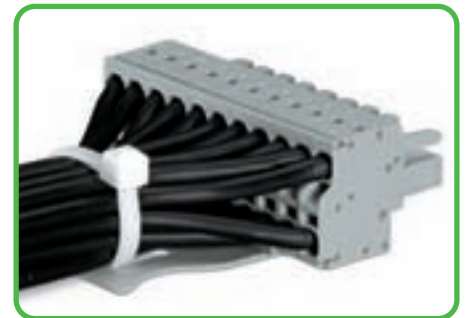
The arrangement of the fixing holes for cable ties allow single conductors or multicore cables to be attached in several different orientations.

Strain relief plate			... female conn. ranges as stated below		Cable ties*		
Item No.	Color	Width	Pin spacings 5 mm/5.08 mm	Pin spacings 7.50 mm/7.62 mm	Width	Type	MIL
734-127 734-327 734-227	light grey grey orange	6 mm	2 poles		2.5 mm	T 18 R	
734-128 734-328 734-228	light grey grey orange	12.5 mm	3 – 4 poles	2 – 3 poles	2.5 mm	T 18 R	
734-129 734-329 734-229	light grey grey orange	25 mm	5 – 7 poles	4 – 6 poles	2.5 mm 3.6 mm	T 18 R T 30 R	
734-126 734-326 734-226	light grey grey orange	35 mm	8 – 11 poles	7 – 9 poles	2.5 mm 3.6 mm	T 18 R T 30 R	MS 3367
734-426 734-430 734-428	light grey grey orange	① 55 mm	12 – 16 poles	10 – 12 poles	2.5 mm 3.6 mm 4.0 mm 4.7 mm	T 18 R T 30 R T 40 R T 50 R	
734-427 734-431 734-429	light grey grey orange	② 75 mm	17 – 24 poles	13 – 16 poles	2.5 mm 3.6 mm 4.0 mm 4.7 mm	T 18 R T 30 R T 40 R T 50 R	

* Cable binding tool MK III Item No.

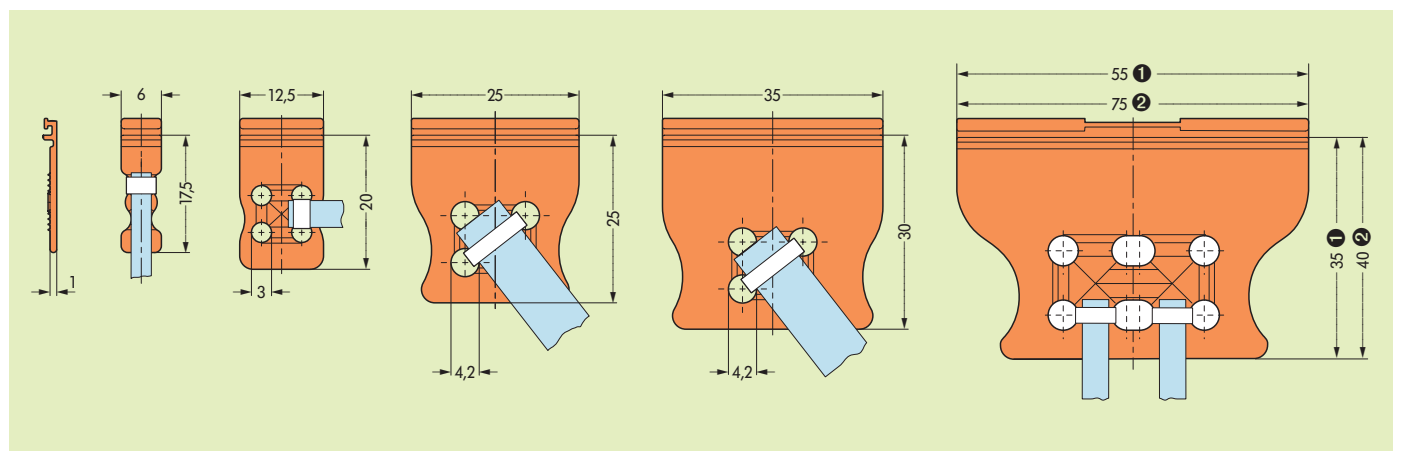


Female connector, pin spacing 5 mm/0.197 in, grey
8 poles, with strain relief plate
231-2108/026-000/135-000



Female connector, pin spacing 5 mm/0.197 in, grey
11 poles, with strain relief plate
231-2111/026-000/135-000

Dimensions (in mm)

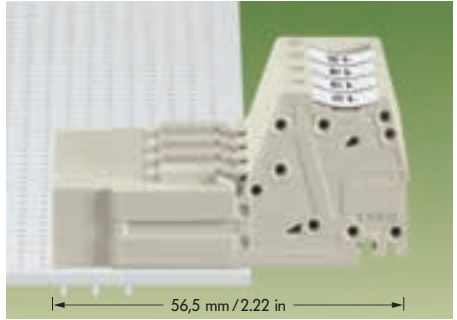


* Recommended cable ties and cable binding tool from Tyton or Hellermann, not offered by WAGO

MULTI CONNECTION SYSTEM **MAXI**

Headers with Solder Pins, **100 % Protected against Mismatching,** Pin Spacing 7.62 mm / 0.3 in

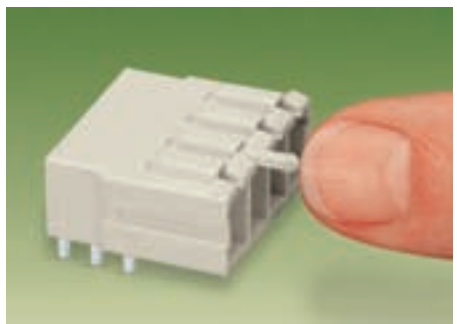
Pin spacing 7.62 mm/0.3 in, light grey 500 V/6 kV/3 I _N 41 A	300/600 V, 42/5 A 300/600 V, 50/5 A	Pin spacing 7.62 mm/0.3 in, light grey 500 V/6 kV/3 I _N 41 A	300/600 V, 42/5 A 300/600 V, 50/5 A
----------------------------------------------------------------------------	----------------------------------------	----------------------------------------------------------------------------	----------------------------------------



No. of poles	Item No.	No. of poles	Item No.
Headers with straight solder pins, 100 % protected against mismatching, light grey,		Headers with right angle solder pins, 100 % protected against mismatching, light grey,	
3 x solder pins	1 mm x 1.2 mm	3 x solder pins	1 mm x 1.2 mm
2	831-3602	2	831-3622
3	831-3603	3	831-3623
4	831-3604	4	831-3624
5	831-3605	5	831-3625
6	831-3606	6	831-3626
7	831-3607	7	831-3627
8	831-3608	8	831-3628
Note: On request, headers with straight solder pins are also available with protection against positioning error on the PCB			

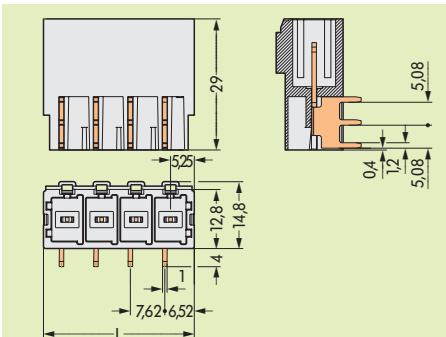
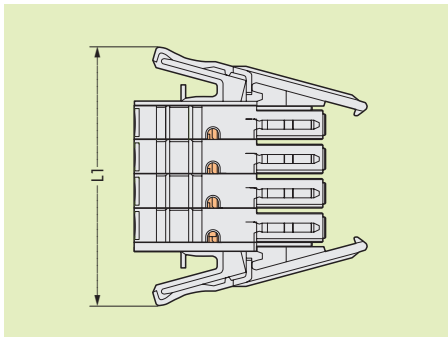


Break or cut-off coding pin on the female connector . . .



. . . Fit the coding pin into the connector (break first) so that the pin engages

Dimensions (in mm) Diameter of drilled hole: 1.7^{+0.1}mm L = (No. of poles - 1) x pin spacing + 10.5 mm



Printed female connector on request

* Further approvals with corresponding ratings can be found at www.wago.com

MULTI CONNECTION SYSTEM MAXI

Male Connectors, 100% Protected against Mismatching, Pin Spacing 7.62 mm / 0.3 in



VOLUME 2

Pin spacing 7.62 mm/0.3 in, light grey
0.5 – 6 (10) mm² ① AWG 20 – 8
800 V/8 kV/3 300/600 V, 42/5 A
I_N 41 A

Pin spacing 7.62 mm/0.3 in, light grey
0.5 – 6 (10) mm² ① AWG 20 – 8
800 V/8 kV/3 300/600 V, 42/5 A
I_N 41 A

*

*



① can be connected:
0.5 mm² – 10 mm² "s + f-st";
can be pushed in directly: 1.5 mm² – 10 mm² "s" and
1.5 mm² – 6 mm² "insulated ferrule, 12 mm/0.472 in"

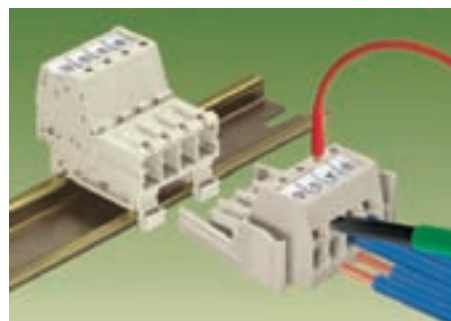
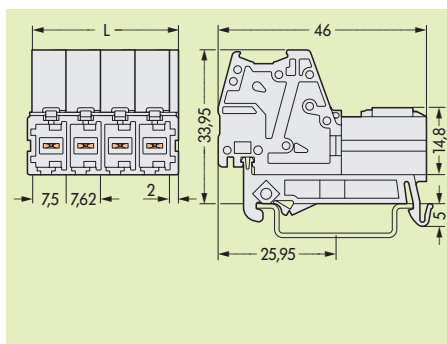
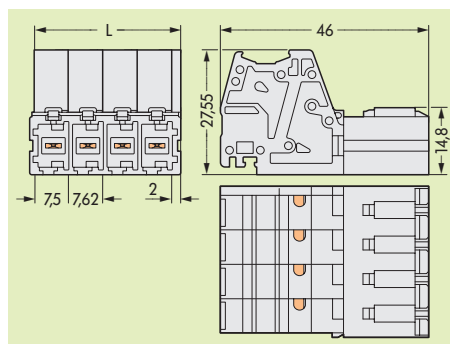


No. of poles	Item No.	No. of poles	Item No.
Male connectors with CAGE CLAMP[®]S connection, 100% protected against mismatching, with coding fingers, light grey		Male connectors with CAGE CLAMP[®]S connection, for DIN 35 rail mounting, 100% protected against mismatching, with coding fingers, light grey	
2	831-3202	2	831-3202/007-000
3	831-3203	3	831-3203/007-000
4	831-3204	4	831-3204/007-000
5	831-3205	5	831-3205/007-000
6	831-3206	6	831-3206/007-000
7	831-3207	7	831-3207/007-000
8	831-3208	8	831-3208/007-000

Accessories

Test plug , with cable 500 mm / 1'7.7" Ø 2 mm / 0.079 in, red 210-136	Test plug , with cable 500 mm / 1'7.7" Ø 2 mm / 0.079 in, red 210-136
Marker card , 80 self-adhesive strips per card Height of marker strip 5 mm / 0.197 in Marking 1 – 16 (100 x) 210-334/0762-0202 For direct printing, please contact factory	Marker card , 80 self-adhesive strips per card Height of marker strip 5 mm / 0.197 in Marking 1 – 16 (100 x) 210-334/0762-0202 For direct printing, please contact factory
Marker strip , white, plain, on roll for center marking 11 mm / 0.039 in wide 50 m 2009-110 300 m 2009-130	Marker strip , white, plain, on roll for center marking 11 mm / 0.039 in wide 50 m 2009-110 300 m 2009-130
DIN 35 carrier rail adapter , for snap-fit mounting to male connectors with CAGE CLAMP [®] S connection 831-137	Screwdriver with partially insulated shaft , (5.5 x 0.8) mm / (0.217 x 0.031) in 210-621

Dimensions (in mm) L = (No. of poles - 1) x pin spacing + 9.5 mm

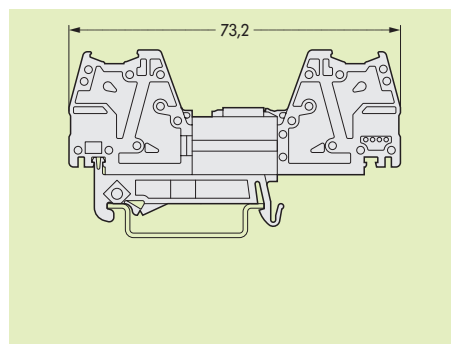


The new WAGO MULTI CONNECTION SYSTEM MAXI can be used as "high-power" sub-assemblies on carrier rails or printed circuit boards in such applications like drive technology, converters or power supply units.

Equipped with CAGE CLAMP[®]S connection up to AWG 10/ AWG 8 (6 mm²/10 mm²) ①, it handles a rated current of 41 A and has a pin spacing of 7.62 mm/0.3 in, which makes it ideally suited for such applications.

Product features

- 100 % protected against mismatching
- Coding without the loss of poles
- Male and female connectors with CAGE CLAMP[®]S connection for all conductor types
Additional benefit: Time-saving push-in wiring of fine-stranded wires with ferrules
- Vibration proof - fast - maintenance free
- Male and female connectors with separate test slot for test plugs Ø 2.3 mm / 0.091 in
- Pole marking using marker strips or direct printing



* Further approvals with corresponding ratings can be found at www.wago.com

MULTI CONNECTION SYSTEM MAXI

Female Connectors, 100% Protected against Mismatching, Pin Spacing 7.62 mm / 0.3 in



<p>Pin spacing 7.62 mm/0.3 in, light grey 0.5 – 6 (10) mm² ① AWG 20 – 8 800 V/8 kV/3 I_N 41 A</p>	<p>Pin spacing 7.62 mm/0.3 in, light grey 0.5 – 6 (10) mm² ① AWG 20 – 8 800 V/8 kV/3 I_N 41 A</p>	<p>300/600 V, 42/5 A </p> <p>300/600 V, 50/5 A </p>	<p>300/600 V, 42/5 A </p> <p>300/600 V, 50/5 A </p>
*	*		



① can be connected:
0.5 mm² – 10 mm² "s + f-st";
can be pushed in directly: 1.5 mm² – 10 mm² "s" and
1.5 mm² – 6 mm² "insulated ferrule, 12 mm/0.472 in"

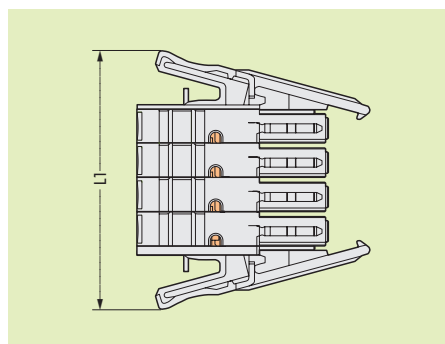
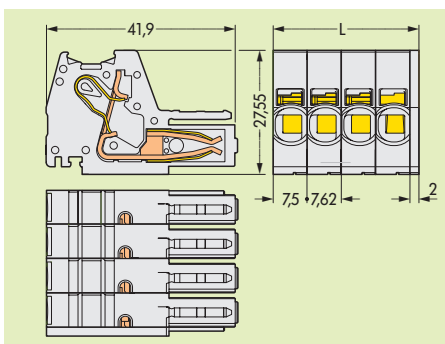


No. of poles	Item No.	No. of poles	Item No.
Female connectors with CAGE CLAMP[®]S connection, 100% protected against mismatching, with coding fingers, light grey		Female connectors with CAGE CLAMP[®]S connection and locking device, 100% protected against mismatching, with coding fingers, light grey	
2	831-3102	2	831-3102/037-000
3	831-3103	3	831-3103/037-000
4	831-3104	4	831-3104/037-000
5	831-3105	5	831-3105/037-000
6	831-3106	6	831-3106/037-000
7	831-3107	7	831-3107/037-000
8	831-3108	8	831-3108/037-000

Accessories


<p>Test plug, with cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136</p>	<p>Test plug, with cable 500 mm/1'7.7" 2 mm/0.079 in Ø, red 210-136</p>
<p>Marker card, 80 self-adhesive strips per card Height of marker strip 5 mm/0.197 in Marking 1 – 16 (100 x) 210-334/0762-0202 For direct printing, please contact factory</p>	<p>Marker card, 80 self-adhesive strips per card Height of marker strip 5 mm/0.197 in Marking 1 – 16 (100 x) 210-334/0762-0202 For direct printing, please contact factory</p>
<p>Marker strip, white, plain, on roll for center marking 11 mm/0.039 in wide 50 m 2009-110 300 m 2009-130</p>	<p>Marker strip, white, plain, on roll for center marking 11 mm/0.039 in wide 50 m 2009-110 300 m 2009-130</p>
<p>Screwdriver with partially insulated shaft, (5.5 x 0.8) mm / (0.217 x 0.031) in 210-621</p>	<p>Screwdriver with partially insulated shaft, (5.5 x 0.8) mm / (0.217 x 0.031) in 210-621</p>

Dimensions (in mm) L = (No. of poles - 1) x pin spacing + 9.5 mm L1 = L + 24.8 mm




Operating Tools

VOLUME 2

<p>Screwdriver acc. to DIN 5264, for optimum handling in terminal blocks and connectors</p>	<p>TOPJOB®  tool</p>	
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<p>Short screwdriver, with partially insulated shaft, blade 3.5 x 0.5 mm / 0.137 in x 0.020 in, suitable for series 260, 261, 262, 264, 280, 281, 869</p> <p>210-657</p> <p>1</p>		<p>TOPJOB®  tool with partially insulated shaft, Special blades 3.5 mm / 0.137 in and 5.5 mm / 0.217 in suitable for 2003 and 2005 Series multilevel installation terminal blocks</p> <p>2009-310</p> <p>1</p>	
<p>Short angled screwdriver, with partially insulated shaft, blade 3.5 x 0.5 mm / 0.137 in x 0.020 in, particularly suitable for actuator and sensor terminal blocks of Series 280 and also for Series 260, 261, 262, 264, 280, 281, 869, 870, 880</p> <p>210-658</p> <p>1</p>			

Application notes



The blade dimensions of the a. m. screwdrivers (DIN 5264) are particularly appropriate for easy operation of front-entry sensor and actuator terminal blocks of series 280.

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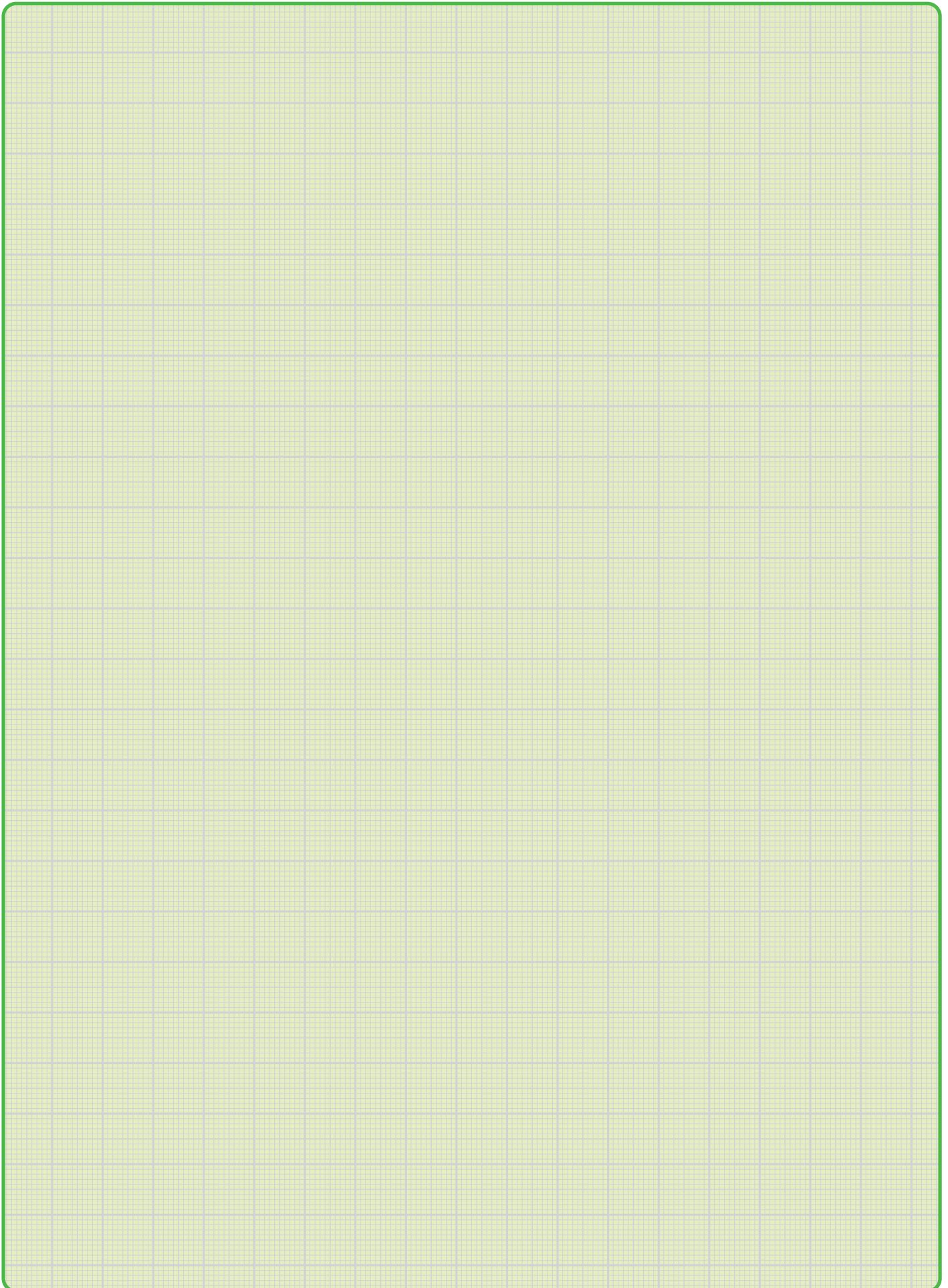
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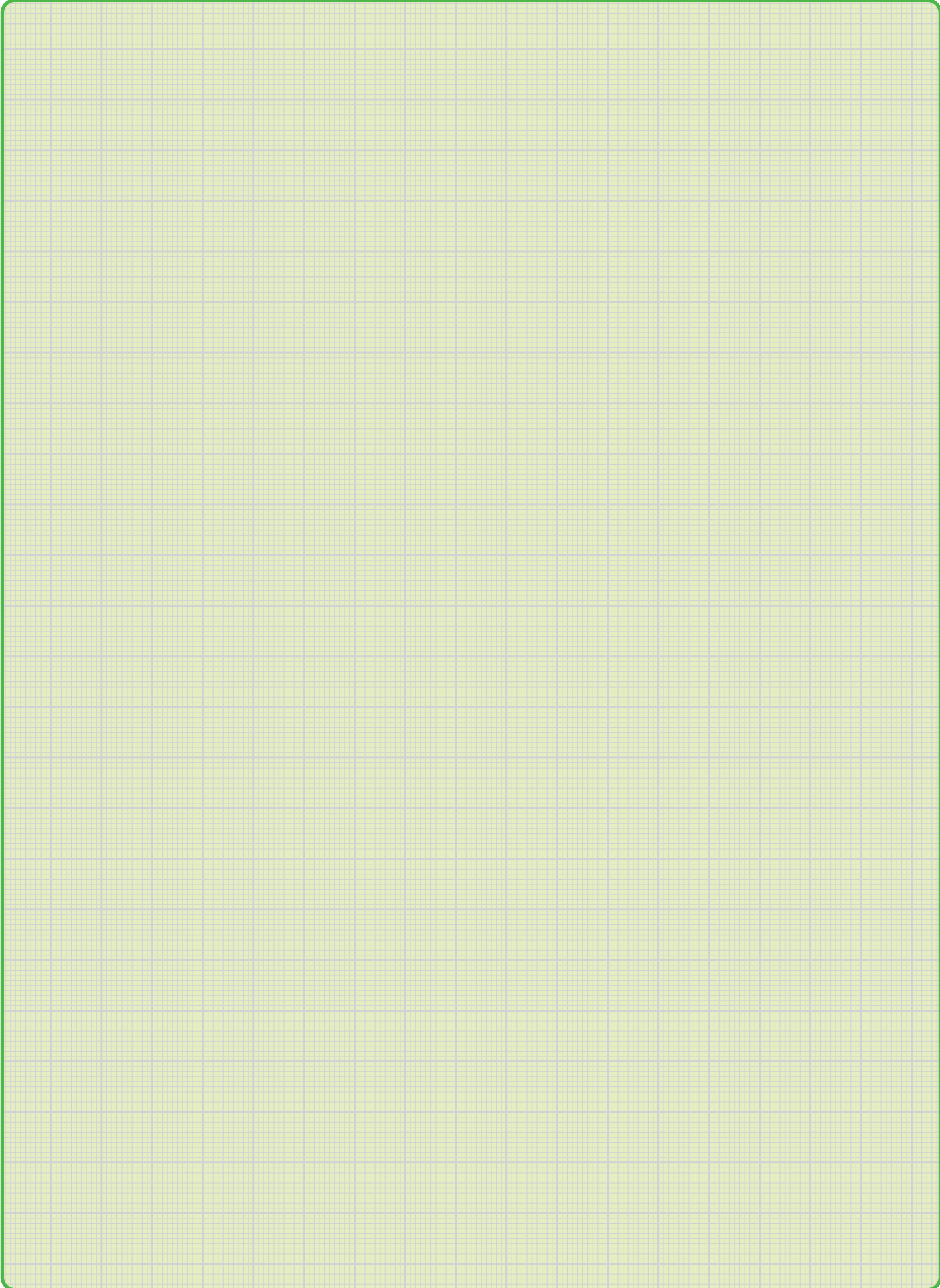
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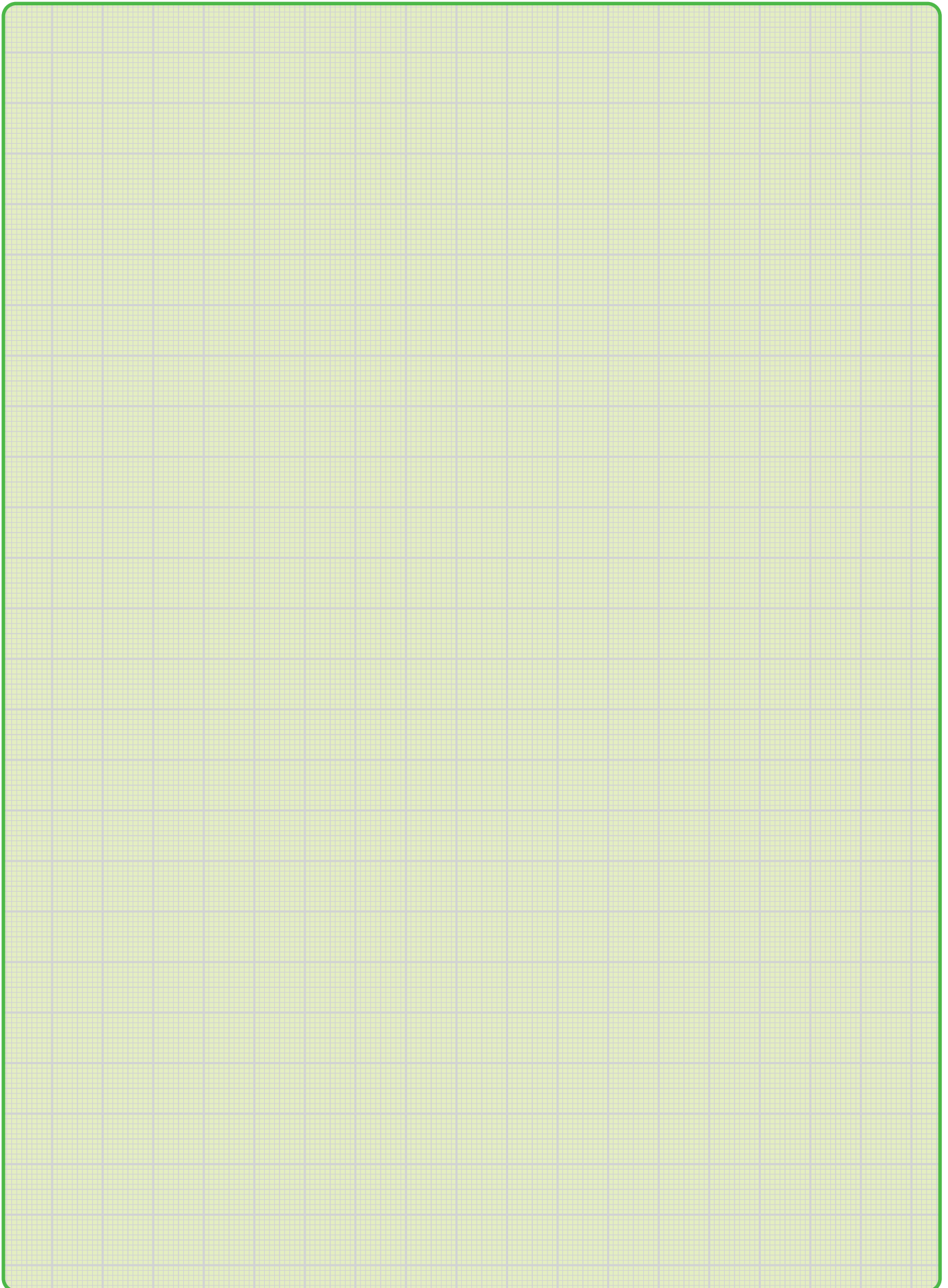
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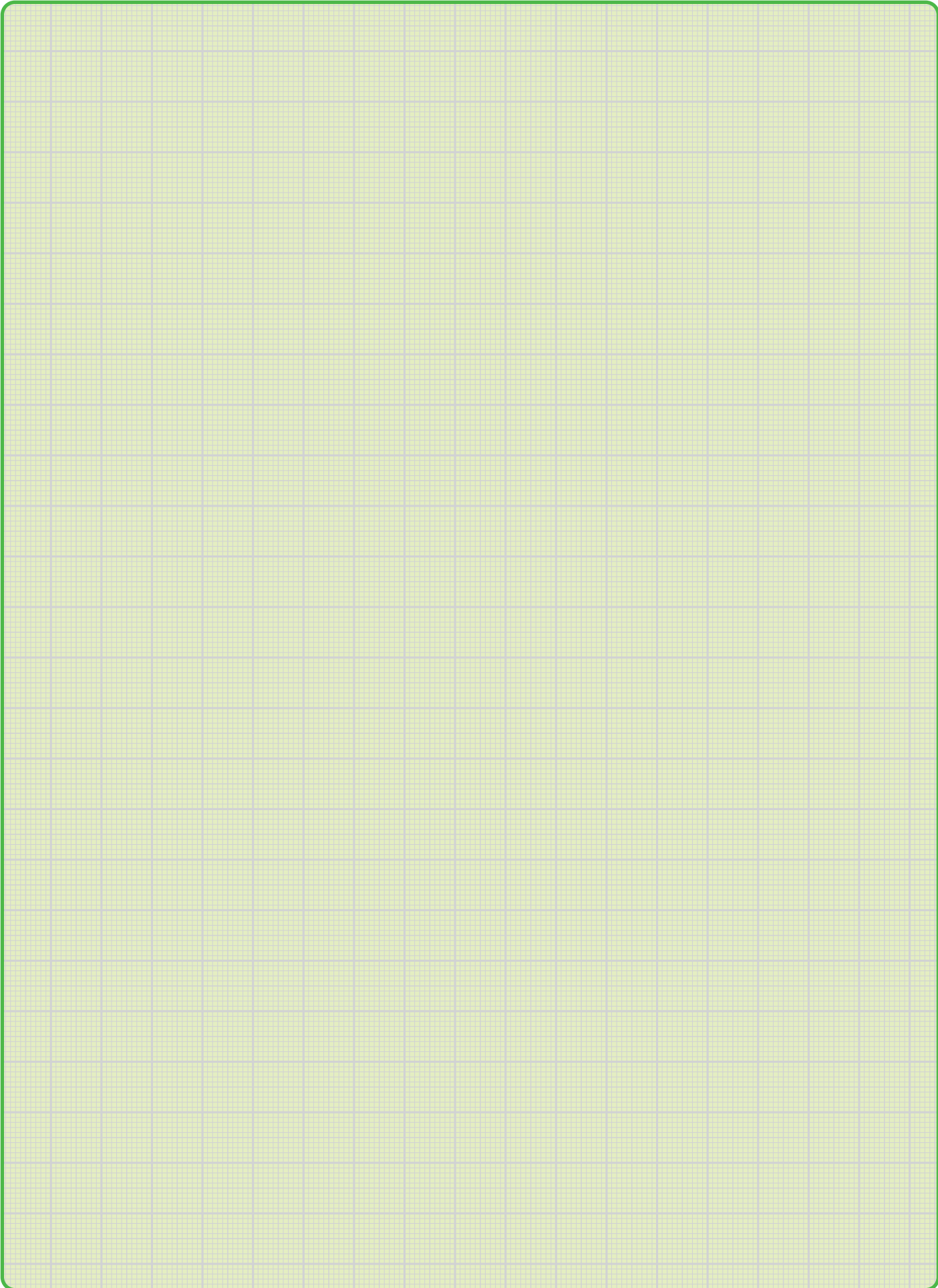
Notes



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