

# 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

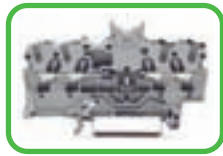
- PCB Terminal Blocks and Connectors

NOWOŚĆ  
NYHET  
NUEVO  
UUTUUS  
신제품  
-नया  
NIEUW  
NY

**WAGO**<sup>®</sup>  
INNOVATIVE CONNECTIONS

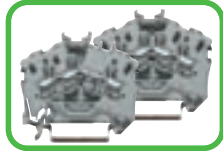
# Contents

## Volume 1



**TOPJOB<sup>®</sup> double potential terminal blocks  
with CAGE CLAMP<sup>®</sup>S connection**  
1.5 mm<sup>2</sup>/AWG 22 – 14  
2.5 mm<sup>2</sup>/AWG 22 – 12

**Series 2001 02**  
**Series 2002 02**



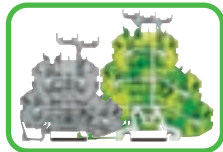
**TOPJOB<sup>®</sup> 3- and 4-conductor terminal blocks  
with CAGE CLAMP<sup>®</sup>S connection**  
2.5 mm<sup>2</sup>/AWG 22 – 12

**Series 2002 03**



**TOPJOB<sup>®</sup> connectors  
with CAGE CLAMP<sup>®</sup>S connection**  
1.5 mm<sup>2</sup> – 4 mm<sup>2</sup>/AWG 14 – 10

**Series 20xx 04 – 05**

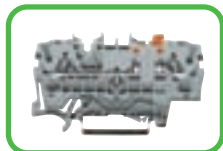


**TOPJOB<sup>®</sup> double and triple deck terminal blocks  
with CAGE CLAMP<sup>®</sup>S connection**  
2.5 mm<sup>2</sup>/AWG 22 – 12

**Series 2002 06 – 07**



**TOPJOB<sup>®</sup> multilevel installation term. blocks w. CAGE CLAMP<sup>®</sup>S connection**  
4 mm<sup>2</sup>/AWG 22 – 12 **Series 2003 10**  
6 mm<sup>2</sup>/AWG 20 – 10 **Series 2005 11**  
**TOPJOB<sup>®</sup> N-disconnect terminal blocks and power distribution disconnect  
terminal blocks with CAGE CLAMP<sup>®</sup>S connection**  
2.5 mm<sup>2</sup> – 25 mm<sup>2</sup>/AWG 22 – 4 **Series 20xx 12**



**TOPJOB<sup>®</sup> disconnect terminal blocks**

**Series 2002 16 – 18**



**TOPJOB<sup>®</sup> diode terminal blocks  
and double deck terminal blocks  
and triple deck terminal blocks**

**Series 2002 19 – 21**  
**Series 2002 22 – 25**



**TOPJOB<sup>®</sup> accessoires**

**26 – 27**

**TOPJOB<sup>®</sup> group marker carriers**

**Series 2009 27**

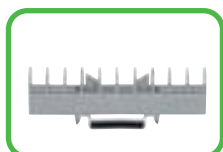
**Marking of TOPJOB<sup>®</sup> rail-mounted terminal blocks**

**Series 2009 28**



**Rail-mounted high current terminal blocks  
with POWER CAGE CLAMP<sup>®</sup> connection**  
35 mm<sup>2</sup>/AWG 8 – 2  
50 mm<sup>2</sup>/AWG 8 – 2/0

**Series 285 30 – 31**  
**Series 285 32**



**Collective carrier for jumpers  
(suitable for longitudinal disconnect and  
transverse switch terminal blocks)**

**Series 282 33**



**X-COM®-SYSTEM**

2-cond./1-pin receptacle terminal blocks  
0.08 mm<sup>2</sup> – 4 mm<sup>2</sup>/AWG 28 – 12

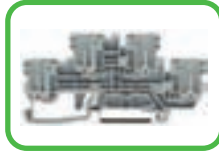
Series 769

34 – 35

1-cond./1-cond. disconnect receptacle terminal blocks  
0.08 mm<sup>2</sup> – 4 mm<sup>2</sup>/AWG 28 – 12

Series 769

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**X-COM®-SYSTEM**

2-conductor/  
2-pin double deck receptacle terminal

Series 870

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**X-COM®-SYSTEM**  
Blue components

Series 769

38 – 39

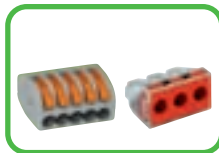


**X-COM®-SYSTEM**

Female plugs for self-assembly

Series 769

40 – 41



Compact connector for flexible conductors  
2 x 0.08 mm<sup>2</sup> – 2.5 mm<sup>2</sup>/AWG 28 – 12 and  
5 x 0.08 mm<sup>2</sup> – 2.5 mm<sup>2</sup>/AWG 28 – 12

Series 222

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Push-wire connectors for junction boxes  
4 x 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup>/AWG 18 – 12 and  
3 x 2.5 mm<sup>2</sup> – 6 mm<sup>2</sup>/AWG 14 – 10

Series 773

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Shield (screen) clamps,  
Carrier with grounding foot,  
Busbar carriers

Series 791

44

Series 790

44

Series 790

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**Shield termination**

Series 709

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**Wire and cable marking**

Series 211


46 – 49




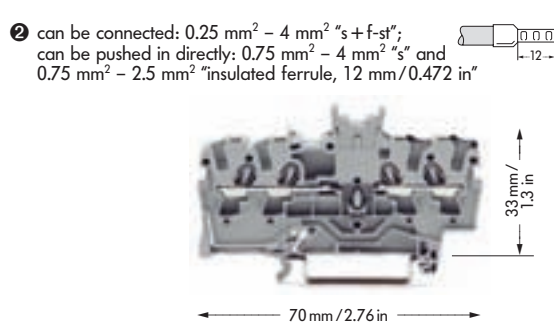
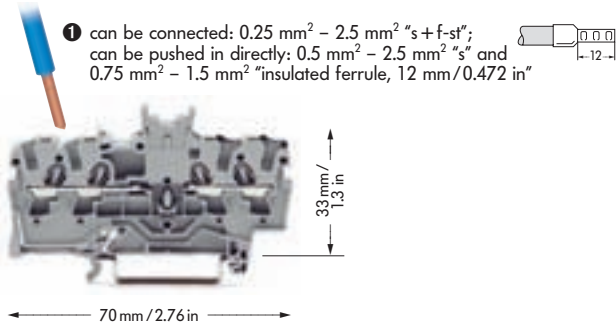
Marker carriers  
for WCB combi marking system









Series 2009

50

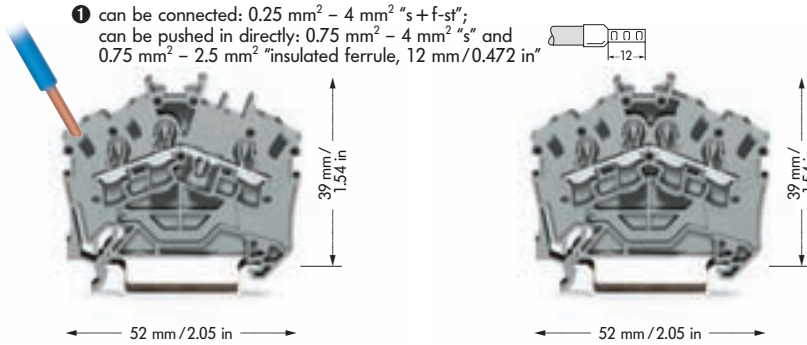
0.25 – 1.5 (2.5) mm<sup>2</sup>① | AWG 22 – 14  
 800 V/8 kV/3  
 I<sub>N</sub> 18 A (24 A)  
 Terminal block width 4.2 mm / 0.165 in  
 9 – 11 mm / 0.39 in

0.25 – 2.5 (4) mm<sup>2</sup>② | AWG 22 – 12  
 800 V/8 kV/3  
 I<sub>N</sub> 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!	
<b>Accessoires</b> appropriate marking system <b>WMB/Marker strips</b> (see Full Line Catalog W4 Volume 1, Section 14)				
<b>End and intermediate plate</b> , 0.8 mm / 0.331 in thick			<b>End and intermediate plate</b> , 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)
<b>Insulation stop</b> , 5 pcs/strip 200 strips			<b>Insulation stop</b> , 5 pcs/strip 200 strips	
 light grey	2001-171 0.25-0.5 mm <sup>2</sup>		 light grey	2001-171 0.25-0.5 mm <sup>2</sup>
			 dark grey	2002-172 0.75-1 mm <sup>2</sup>
			<b>Protective warning marker</b> , 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) mm<sup>2</sup> ① 800 V/8 kV/3 I<sub>N</sub> 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) mm<sup>2</sup> ① 800 V/8 kV/3 I<sub>N</sub> 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
<b>3-conductor through terminal blocks</b>		<b>4-conductor through terminal blocks</b>	
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	
<b>3-conductor ground (earth) terminal block</b>		<b>4-conductor ground (earth) terminal block</b>	
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	
		<b>Attention!</b>	
		<b>These terminal blocks cannot be commoned!</b>	
<b>Accessories</b> appropriate marker system (see Full Line Catalog W4 Vol. 1, Sec. 14)		<b>WMB/Marker strips/WMB Inline</b>	
<b>End and intermediate plate</b> , 0.8 mm / 0.031 in thick		<b>End and intermediate plate</b> , 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)	
<b>Insulation stop</b> , 5 pcs/strip 200 strips		<b>Insulation stop</b> , 5 pcs/strip 200 strips	
light grey 2002-171 0.25-0.5 mm <sup>2</sup>		light grey 2002-171 0.25-0.5 mm <sup>2</sup>	
dark grey 2002-172 0.75-1 mm <sup>2</sup>		dark grey 2002-172 0.75-1 mm <sup>2</sup>	
<b>Push-in type jumper bars</b> , light grey, insulated, I <sub>N</sub> 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)			
<b>Push-in type jumper bars</b> , light grey, insulated, I <sub>N</sub> 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)			
<b>Protective warning marker</b> , for 5 terminal blocks		<b>Protective warning marker</b> , for 5 terminal blocks	
yellow 2002-115 100 (4 x 25)		yellow 2002-115 100 (4 x 25)	
<b>Modular TOPJOB® S connector</b> , for jumper contact slot			
1 pole 2002-511 100 (4 x 25)			
<b>Spacer</b> , modular 2002-549 100 (4 x 25)			
<b>Test plug adapter</b> , for test plug 4 mm/0.157 in Ø 2009-174 100 (4 x 25)			
<b>Testing tap</b> , for max. 2.5 mm <sup>2</sup> 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

<b>0.25 – 1.5 (2.5) mm<sup>2</sup> ①</b> 500 V/6 kV/3 I <sub>N</sub> 18 A Terminal block width 4.2 mm / 0.165 in  9 – 11 mm / 0.39 in *  	<b>AWG 22 – 14</b> 300 V, 15 A  300 V, 15 A 	<b>0.25 – 2.5 (4) mm<sup>2</sup> ②</b> 500 V/6 kV/3 I <sub>N</sub> 24 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in *  	<b>AWG 22 – 12</b> 300 V, 20 A  300 V, 20 A 	<b>0.5 – 4 (6) mm<sup>2</sup> ③</b> 500 V/6 kV/3 I <sub>N</sub> 32 A Terminal block width 6.2 mm / 0.244 in  11 – 13 mm / 0.47 in *  	<b>AWG 20 – 10</b> 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
<b>Modular TOPJOB®S connectors with CAGE CLAMP®S connection, modular, grey, 1 pole</b>		<b>Modular TOPJOB®S connectors with CAGE CLAMP®S connection, modular, grey, 1 pole</b>		<b>Modular TOPJOB®S connectors with CAGE CLAMP®S connection, modular, grey, 1 pole</b>	
<b>2001-511</b>	100 (4 x 25)	<b>2002-511</b>	100 (4 x 25)	<b>2004-511</b>	100 (4 x 25)
<b>Spacer, for bridging over commoned terminal blocks, for example, modular, grey</b>		<b>Spacer, for bridging over commoned terminal blocks, for example, modular, grey</b>		<b>Spacer, for bridging over commoned terminal blocks, for example, modular, grey</b>	
<b>2001-549</b>	100 (4 x 25)	<b>2002-549</b>	100 (4 x 25)	<b>2004-549</b>	100 (4 x 25)
① can be connected: 0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup> "s + f-st"; can be pushed in directly: 0.5 mm <sup>2</sup> – 2.5 mm <sup>2</sup> "s" and 0.75 mm <sup>2</sup> – 1.5 mm <sup>2</sup> "insulated ferrule, 12 mm/0.472 in"		② can be connected: 0.25 mm <sup>2</sup> – 4 mm <sup>2</sup> "s + f-st"; can be pushed in directly: 0.75 mm <sup>2</sup> – 4 mm <sup>2</sup> "s" and 0.75 mm <sup>2</sup> – 2.5 mm <sup>2</sup> "insulated ferrules, 12 mm/0.472 in"		③ can be connected: 0.5 mm <sup>2</sup> – 6 mm <sup>2</sup> "s + f-st"; can be pushed in directly: 1 mm <sup>2</sup> – 6 mm <sup>2</sup> "s" and 0.75 mm <sup>2</sup> – 4 mm <sup>2</sup> "insulated ferrule, 12 mm/0.472 in"	
<b>Item-specific accessories</b>		<b>Item-specific accessories</b>		<b>Item-specific accessories</b>	
<b>End plate, 1.5 mm/0.059 in thick</b>		<b>End plate, 1.5 mm/0.059 in thick</b>		<b>End plate, 1.5 mm/0.059 in thick</b>	
 grey	<b>2002-541</b> 100 (4 x 25)	 grey	<b>2002-541</b> 100 (4 x 25)	 grey	<b>2002-541</b> 100 (4 x 25)
<b>WMB Multi marking card, 10 strips with 10 markers each, white with black printing, 4 – 4.2 mm/0.157 – 0.165 in wide</b>		<b>WMB Multi marking card, 10 strips with 10 markers each, white with black printing, 5 – 5.2 mm/0.197 – 0.205 in wide</b>		<b>WMB Multi marking card, 10 strips with 10 markers each, white with black printing, 5 – 5.2 mm/0.197 – 0.205 in wide</b>	
 <b>793-4 . . .</b>	5 cards	 <b>793-5 . . .</b>	5 cards	 <b>793-5 . . .</b>	5 cards
 <b>794-4 . . .</b>	5 cards	 <b>794-5 . . .</b>	5 cards	 <b>794-5 . . .</b>	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

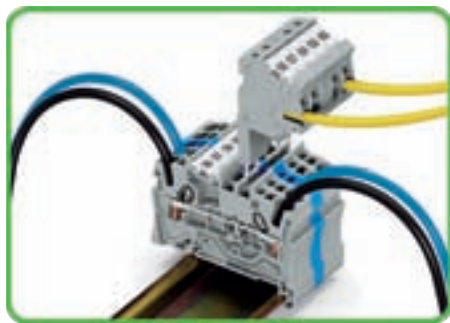
Accessories for TOPJOB®S connectors		appropriate marker system WMB/Marker strips (see Full Line Catalog W4 Volume 1, Section 14)	
 <b>Test plug, with cable 500 mm/1'7.7"</b> 2.3 mm/0.091 in Ø yellow <b>210-137</b> 50 (5 x 10)	 <b>Strain relief plate, grey</b> snappable onto connector strips	 <b>Marker strips, withe, plain, on roll</b> 11 mm/0.039 in wide 50 m <b>2009-110</b> 1	
 <b>Test plug, with cable 500 mm/1'7.7"</b> 2 mm/0.079 in Ø red <b>210-136</b> 50 (5 x 10)	6 mm/0.236 in wide <b>734-327</b> 100 (4 x 25) 12.5 mm/0.492 in wide <b>734-328</b> 100 (4 x 25) 25 mm/0.984 in wide <b>734-329</b> 100 (4 x 25) 35 mm/1.378 in wide <b>734-326</b> 100 (4 x 25)	 <b>Marker strips, withe, plain, on roll</b> 11 mm/0.039 in wide 300 m <b>2009-130</b> 1	

\* Further approvals with corresponding ratings can be found at [www.wago.com](http://www.wago.com)


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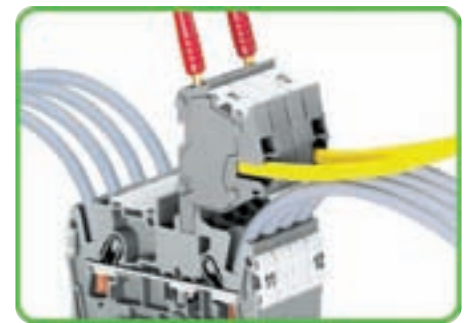
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>Modular TOPJOB®S connector strips with CAGE CLAMP®S connection, modular, grey,</b>		<b>Modular TOPJOB®S connector strips with CAGE CLAMP®S connection, modular, grey,</b>		<b>Modular TOPJOB®S connector strips with CAGE CLAMP®S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








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

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















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



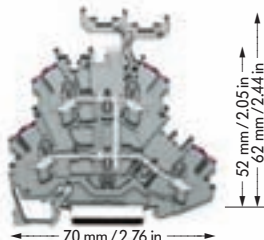
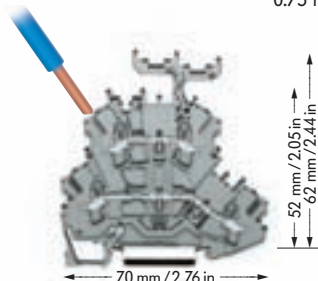
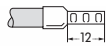
The connector has a test socket for 2 mm/0.079 in or 2.3 mm/0.091 in test plugs.

Accessories for TOPJOB®S connectors				appropriate marker system WMB/Marker strips (see Full Line Catalog W4 Volume 1, Section 14)							
<p><b>Test plug, with cable 500 mm/1'77"</b></p> <p> 2.3 mm/0.091 in Ø yellow <b>210-137</b> 50 (5 x 10)</p>		<p><b>Strain relief plate, grey</b></p> <p> snappable onto connector strips</p>		<p><b>Marker strips, with, plain, on roll</b></p> <p> 11 mm/0.039 in wide 50 m <b>2009-110</b> 1</p>		<p><b>Test plug, with cable 500 mm/1'77"</b></p> <p> 2 mm/0.079 in Ø red <b>210-136</b> 50 (5 x 10)</p>		<p>6 mm/0.236 in wide <b>734-327</b> 100 (4 x 25)</p> <p>12.5 mm/0.492 in wide <b>734-328</b> 100 (4 x 25)</p> <p>25 mm/0.984 in wide <b>734-329</b> 100 (4 x 25)</p> <p>35 mm/1.378 in wide <b>734-326</b> 100 (4 x 25)</p>		<p><b>Marker strips, with, plain, on roll</b></p> <p> 11 mm/0.039 in wide 300 m <b>2009-130</b> 1</p>	

# TOPJOB® Double Deck Terminal Blocks 2.5 (4) mm<sup>2</sup> / AWG 12 Series 2002

<b>0.25 – 2.5 (4) mm<sup>2</sup> ①</b> 500 V/6 kV/3 I <sub>N</sub> 24 A <b>Terminal block width 5.2 mm / 0.205 in</b>  <b>10 – 12 mm / 0.43 in</b> *  	<b>AWG 22 – 12</b> 600 V, 20 A   600 V, 20 A  	<b>0.25 – 2.5 (4) mm<sup>2</sup> ①</b> 500 V/6 kV/3 I <sub>N</sub> 24 A <b>Terminal block width 5.2 / 0.205 in</b>  <b>10 – 12 mm / 0.43 in</b> *  	<b>AWG 22 – 12</b> 600 V, 20 A   600 V, 20 A  
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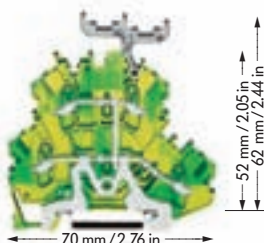
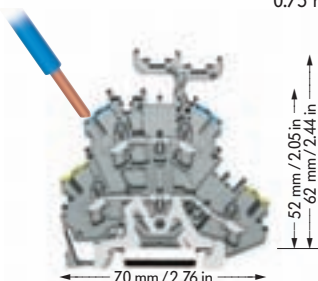
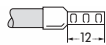
① can be connected: 0.25 mm<sup>2</sup> – 4 mm<sup>2</sup> "s + f-st";  
 can be pushed in directly: 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "s" and  
 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "insulated ferrule, 12 mm/0.472 in"



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



① can be connected: 0.25 mm<sup>2</sup> – 4 mm<sup>2</sup> "s + f-st";  
 can be pushed in directly: 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "s" and  
 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "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
<b>Double deck terminal blocks, for DIN 35 rail</b>			<b>Double deck terminal blocks, for DIN 35 rail</b>				
<b>Ground (earth) conductor/through terminal block,</b>			<b>4-conductor ground (earth) terminal block,</b>				
Housing color grey			internal commoning				
Marking carrier with		without	Housing color green-yellow				
PE/N	<b>2002-2247</b>	<b>2002-2217</b> 50	Marking carrier with		without		
PE/L	<b>2002-2257</b>	<b>2002-2227</b> 50	PE	<b>2002-2237</b>	<b>2002-2207</b> 50		
ⓧ applications are being prepared			ⓧ applications are being prepared				

## Accessories

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

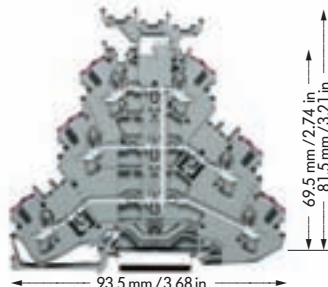
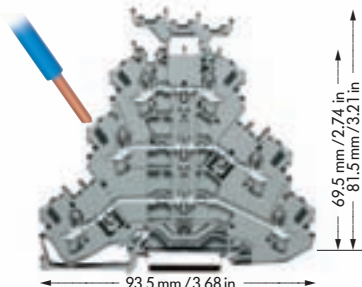
<b>End and intermediate plate, 0.8 mm/0.032 in thick</b> orange <b>2002-2292</b> 100 (4 x 25) grey <b>2002-2291</b> 100 (4 x 25)	<b>Two-way marking adapter,</b> pivotable <b>2002-121</b> 50 (4 x 25)	<b>Protective warning marker,</b> for 5 terminal blocks yellow <b>2002-115</b> 100 (4 x 25)
<b>Push-in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

\* Further approvals with corresponding ratings can be found at [www.wago.com](http://www.wago.com)



<p>0.25 – 2.5 (4) mm<sup>2</sup> ①   AWG 22 – 12 500 V/6 kV/3   600 V, 20 A Ⅴ I<sub>N</sub> 24 A</p> <p>Terminal block width 5.2 / 0.205 in 10 – 12 mm / 0.43 in</p> <p>* Ⅴ Ⅲ</p>	<p>0.25 – 2.5 (4) mm<sup>2</sup> ①   AWG 22 – 12 500 V/6 kV/3   600 V, 20 A Ⅴ I<sub>N</sub> 24 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>* Ⅴ Ⅲ</p>	<p>0.25 – 2.5 (4) mm<sup>2</sup> ①   AWG 22 – 12 500 V/6 kV/3   600 V, 20 A Ⅴ I<sub>N</sub> 24 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p> <p>* Ⅴ Ⅲ</p>
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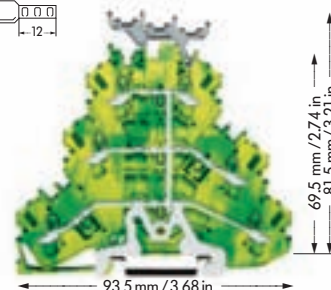
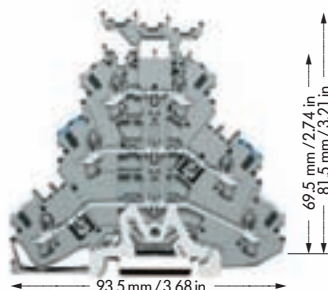
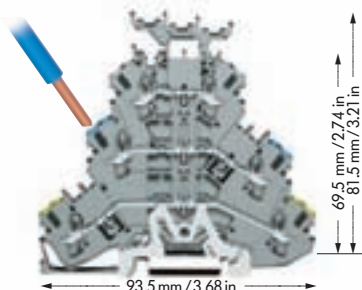
① can be connected: 0.25 mm<sup>2</sup> – 4 mm<sup>2</sup> "s + f-st";  
can be pushed in directly: 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "s" and 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "insulated ferrule, 12 mm/0.472 in"



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



① can be connected: 0.25 mm<sup>2</sup> – 4 mm<sup>2</sup> "s + f-st";  
can be pushed in directly: 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "s" and 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "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
<b>Triple deck terminal blocks, for DIN 35 rail</b>			<b>Triple deck terminal block, for DIN 35 rail</b>			<b>Triple deck terminal block, for DIN 35 rail</b>		
<b>Ground (earth)/through/through terminal blocks, housing color grey</b>			<b>Shield (screen)/through/through terminal blocks, housing color grey</b>			<b>6-conductor ground (earth) terminal block, internal commoning, housing color green-yellow</b>		
Marking carrier with	without		Marking carrier with	without		Marking carrier with	without	
PE/N/L	<b>2002-3247</b>	<b>2002-3217</b> 50	Schirm/N/L	<b>2002-3248</b>	<b>2002-3218</b> 50	PE	<b>2002-3237</b>	<b>2002-3207</b> 50
PE/L/L	<b>2002-3257</b>	<b>2002-3227</b> 50	Schirm/L/L	<b>2002-3258</b>	<b>2002-3228</b> 50			
⊗ applications are being prepared			⊗ applications are being prepared			⊗ applications are being prepared		

**Accessories**

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

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



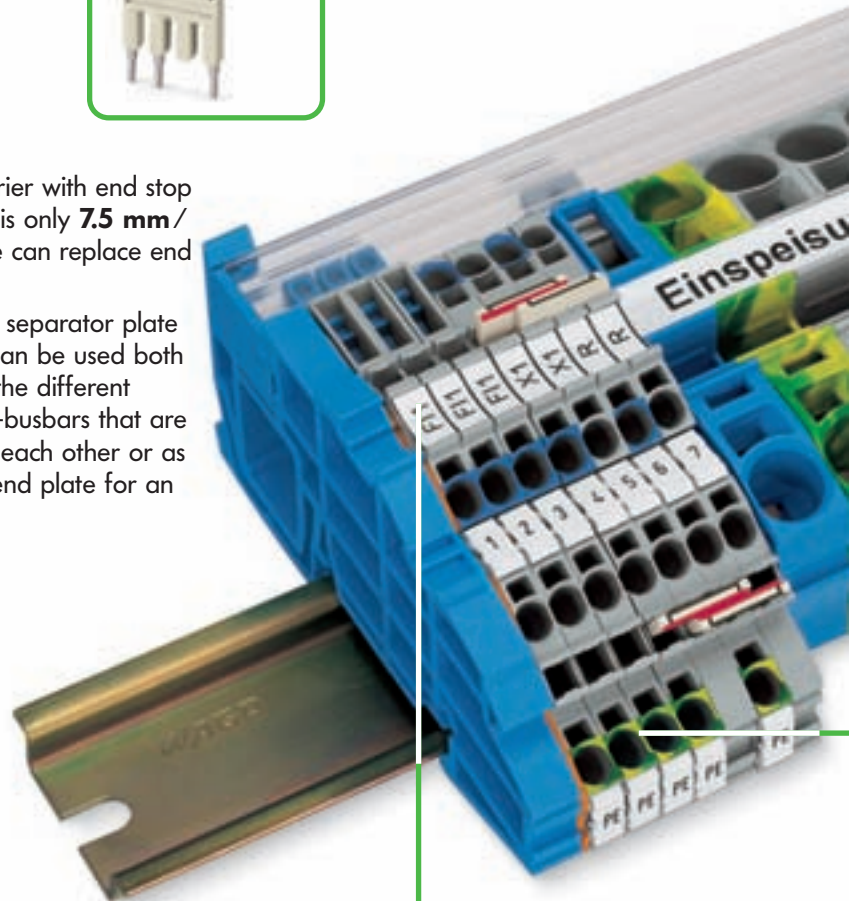
The busbar carrier with end stop function, which is only **7.5 mm / 0.295 in wide** can replace end stop.

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.

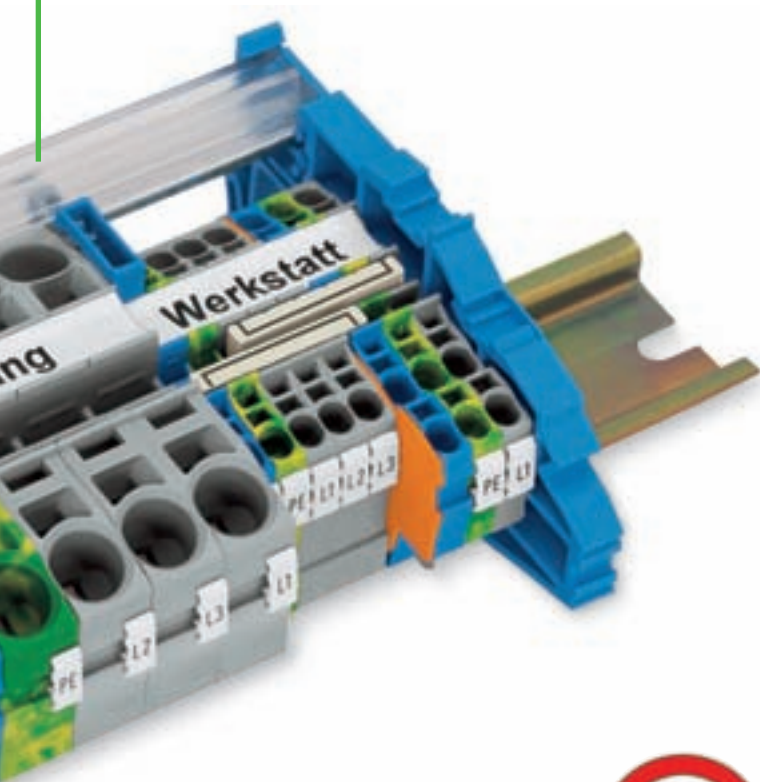


Each connection point has an individual marker receptacle for WMB markers. Additionally, the upper marker receptacle is suitable for marker strips that can be marked manually using a marker pen or automatically by a thermal transfer printer.



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.

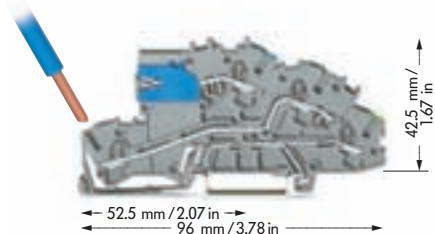
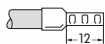
# TOPJOB® Multilevel Installation Terminal Blocks 4 mm<sup>2</sup>/AWG 12 Series 2003

0.25 – 2.5 (4) mm<sup>2</sup> ① AWG 22 – 12  
250 V/4 kV ②/3 400 V/6 kV ③/3  
I<sub>N</sub> 32 A  
Terminal block width 5.2 mm / 0.205 in  
10 – 12 mm / 0.43 in

0.25 – 2.5 (4) mm<sup>2</sup> ① AWG 22 – 12  
400 V/6 kV/3  
I<sub>N</sub> 32 A  
Terminal block width 5.2 mm / 0.205 in  
10 – 12 mm / 0.43 in

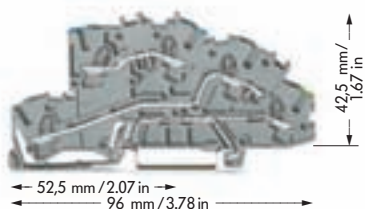
Accessories for  
2003 Series multilevel installation  
terminal blocks and  
2002/2006/2016 Series N-conductor  
disconnect terminal blocks

① can be connected: 0.25 mm<sup>2</sup> – 4 mm<sup>2</sup> "s + f-st";  
can be pushed in directly: 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "s" and  
0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "insulated ferrule, 12 mm / 0.472 in"



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>Multilevel installation terminal block, grey with N-disconnect slide link</b>		<b>Multilevel installation terminal blocks, grey</b>	
NT/L/PE	2003-7641	50	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
<b>Multilevel installation terminal blocks, grey</b>	
N/L/PE	2003-7646
	50
L/L/PE	2003-7645
	50

### 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

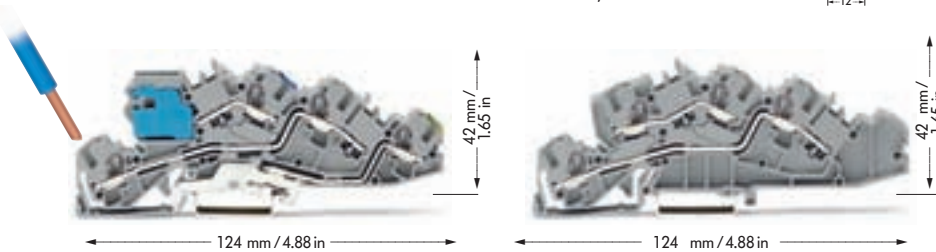
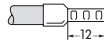


Locate red stripes of the staggered jumpers on the inside



	Item No.	Pack.-unit pcs
<b>End and intermediate plate</b> , 1 mm / 0.039 in thick orange	2003-7692	100 (4 x 25)
<b>Busbar carrier</b> , 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)
<b>Busbar carrier with end stop function and detachable separator plate</b> , for DIN rail 35; 7.5 mm / 0.295 in thick blue	2009-305	25
<b>N-busbar</b> , tinned		see page 11
<b>Cover for N-busbar</b> , transparent		see page 11
<b>Neutral supply terminal block</b> , I <sub>N</sub> 76 A, 16 mm <sup>2</sup> /AWG 6, blue 12 mm / 0.472 in wide	2016-7114	25
<b>Ground (earth) supply terminal block</b> , I <sub>N</sub> 76 A, 16 mm <sup>2</sup> /AWG 6, green-yellow, 12 mm / 0.472 in wide	2016-1207	20
<b>TOPJOB® tool</b> , special blades 3.5 mm / 0.137 in and 5.5 mm / 0.217 in	2009-310	1
<b>Connector</b> , with blue cover		see page 11
<b>Connector</b> , uninsulated,		see page 11
<b>Push-in type jumper bars</b> , light grey, insulated, I <sub>N</sub> 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)
<b>Push-in type jumper bars</b> , light grey, insulated, I <sub>N</sub> 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)
<b>Staggered jumper</b> , light grey, insulated, I <sub>N</sub> 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)
<b>Pre-assembled staggered jumpers</b> , with contact lugs that are factory removed with circuit printing, I <sub>N</sub> 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	
<b>Test plug</b> , Ø 2 mm / 0.079 in	210-136	50 (5 x 10)
<b>Test plug adapter</b> , for test plug Ø 4 mm / 0.157 in	2009-174	100 (4 x 25)
<b>Testing tap</b> , for max. 2.5 mm <sup>2</sup> /AWG 14	2009-182	100 (4 x 25)

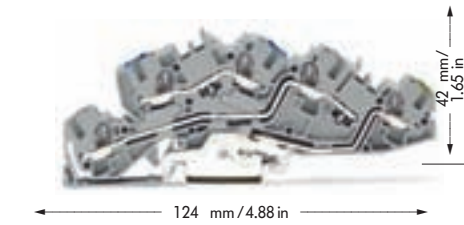
<p><b>0.5 – 4 (6) mm<sup>2</sup> ①</b>      <b>AWG 20 – 10</b>  <b>250 V/4 kV ②/3 400 V/6 kV ③/3</b>  <b>I<sub>N</sub> 36 A</b>  <b>Terminal block width 6.2 mm / 0.244 in</b>   <b>11 – 13 mm / 0.47 in</b></p>	<p><b>0.5 – 4 (6) mm<sup>2</sup> ①</b>      <b>AWG 20 – 10</b>  <b>400 V/6 kV/3</b>  <b>I<sub>N</sub> 36 A</b>  <b>Terminal block width 6.2 mm / 0.244 in</b>   <b>11 – 13 mm / 0.47 in</b></p>	<p><b>Accessories for 2005 Series multilevel installation terminal blocks and 2002/2006/2016 Series N-conductor disconnect terminal blocks</b></p>
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① can be connected: 0.5 mm<sup>2</sup> – 6 mm<sup>2</sup> "s+f-st";  
 can be pushed in directly: 1 mm<sup>2</sup> – 6 mm<sup>2</sup> "s" and  
 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "insulated ferrule, 12 mm/0.472 in"



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>Multilevel installation terminal block, grey with N-disconnect slide link</b>		<b>Multilevel installation terminal blocks, grey</b>	
NT/L/PE	<b>2005-7641</b> 50	L/L	<b>2005-7642</b> 50
		N/L	<b>2005-7649</b> 50
② Potential-Ground    ③ Potential-Potential			

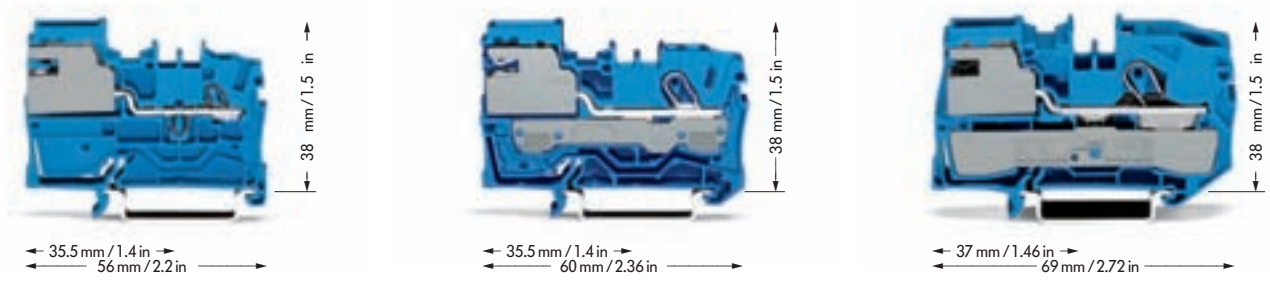
	Item No.	Pack.-unit pcs
<b>End and intermediate plate</b> , 1 mm/0.039 in thick orange	<b>2005-7692</b>	100 (4 x 25)
<b>Busbar carrier</b> , for DIN rail 35 (not suitable for use as end stop) 1.5 mm/0.059 in thick blue	<b>2009-304</b>	100 (4 x 25)
<b>Busbar carrier with end stop function and detachable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



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

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

<p><b>0.25 – 2.5 (4) mm<sup>2</sup> ①</b>   AWG 22 – 12 250 V/4 kV/3 I<sub>N</sub> 32 A</p> <p>Terminal block width 5.2 mm / 0.205 in 10 – 12 mm / 0.43 in</p>	<p><b>0.5 – 6 (10) mm<sup>2</sup> ①</b>   AWG 20 – 8 250 V/4 kV/3 I<sub>N</sub> 51 A</p> <p>Terminal block width 7.5 mm / 0.295 in 13 – 15 mm / 0.55 in</p>	<p><b>0.5 – 16 (25 "f") mm<sup>2</sup> ①</b>   AWG 20 – 4 250 V/4 kV/3 I<sub>N</sub> 76 A</p> <p>Terminal block width 12 mm / 0.472 in 18 – 20 mm / 0.75 in</p>
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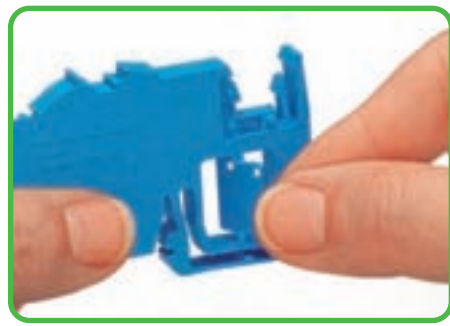
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>1-conductor N-disconnect terminal block</b>		<b>1-conductor N-disconnect terminal block</b>		<b>1-conductor N-disconnect terminal block</b>	
blue	2002-7114 ②	50	blue	2006-7114 ②	50
<b>1-conductor power distribution disconnect terminal block</b>		<b>1-conductor power distribution disconnect terminal block</b>		<b>1-conductor power distribution disconnect terminal block</b>	
grey	2002-7111 ③	50	grey	2006-7111 ③	50
<b>End and intermediate plate, 0.8 mm / 0.031 in thick</b>		<b>End and intermediate plate, 1 mm / 0.039 in thick</b>		<b>End and intermediate plate, 1 mm / 0.039 in thick</b>	
orange	2002-7192	100 (4 x 25)	orange	2006-7192	100 (4 x 25)
<b>For appropriate through and earth conductor terminal blocks see page 17 in TOPJOB® catalog</b>		<b>For appropriate through and earth conductor terminal blocks see page 17 in TOPJOB® catalog</b>		<b>For appropriate through and earth conductor terminal blocks see page 17 in TOPJOB® catalog</b>	



Testing with test plug Ø 2 mm



Operation of the slide link using a simple screwdriver



Removing the separator plate from the busbar carrier.



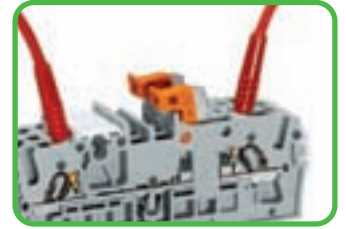
Insertion of the separator plate. To protect the N-busbar against accidental contact

- 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 mm<sup>2</sup>/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.



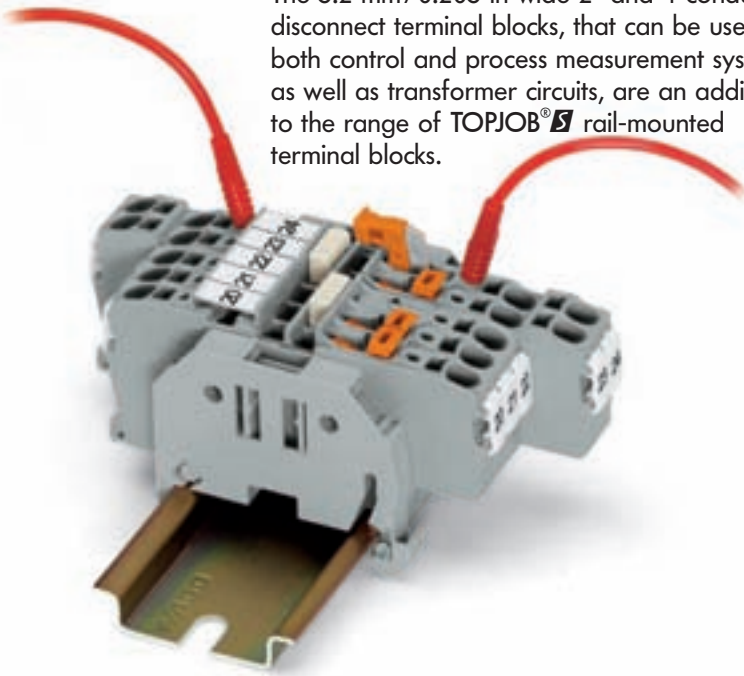
# TOPJOB® S

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.



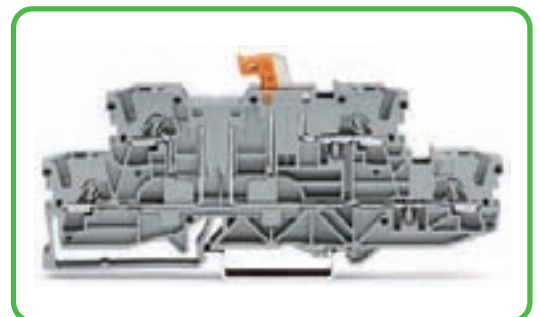
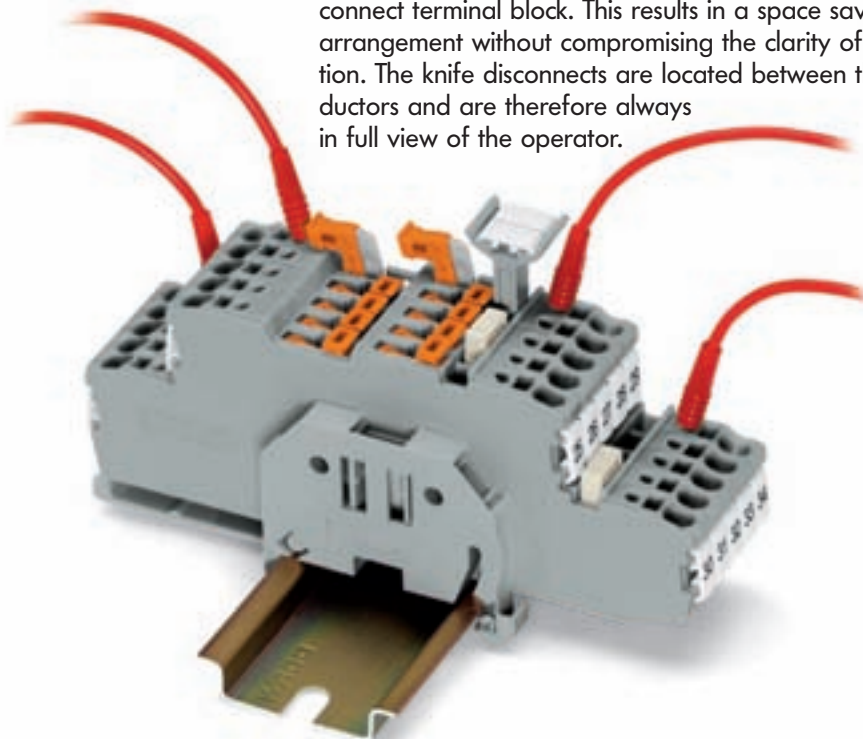
Two lateral and one center marker receptacle for WMB markers or marking strips. Dual jumper slots, in the same position as the other 2002 Series terminal blocks. Commoning options in front of or behind the knife disconnect, depending on which is the power supply side.



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

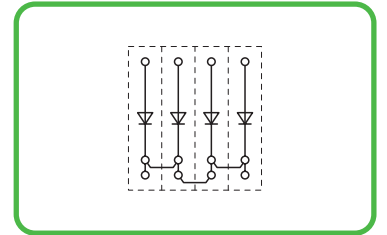


These diode terminal blocks have been specially developed for custom diode circuits such as lamp test and collective fault signal circuits.

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

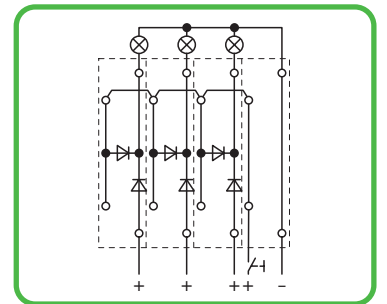
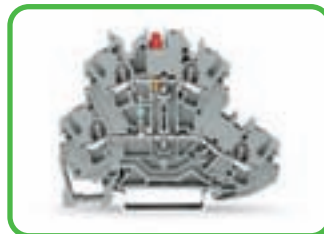
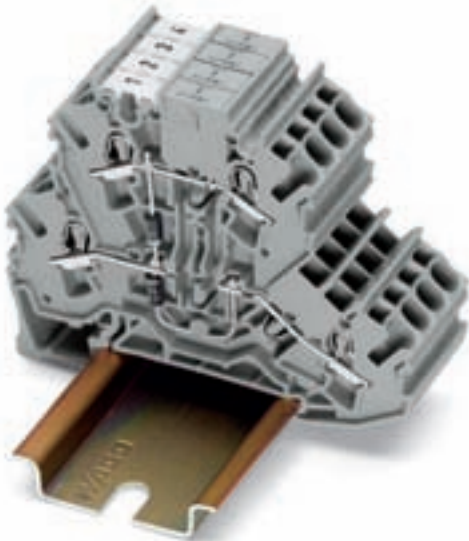
The terminal blocks provide high density wiring maintaining a width of only 5.2 mm/0.205 in.

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



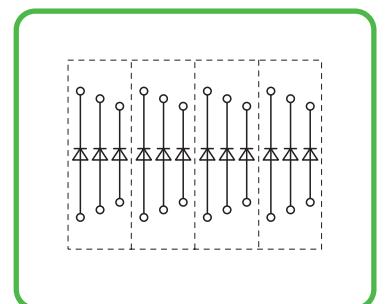
Polarized diode gate, common cathode

## Double deck diode terminal blocks



Lamp test circuit

## Triple deck diode terminal blocks

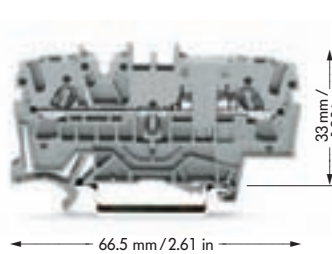
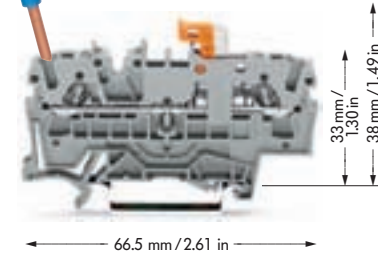
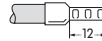


Open diode gate, can be connected individually. Using push-in type jumper bars, individual levels can be turned into polarized diode gates.

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

<p><b>0.25 – 2.5 (4) mm<sup>2</sup> ①</b>   AWG 22 – 12                  400 V/6 kV/3                  I<sub>N</sub> 16 A  <b>Terminal block width 5.2 mm / 0.205 in</b>  <b>10 – 12 mm / 0.43 in</b></p>	<p><b>0.25 – 2.5 (4) mm<sup>2</sup> ①</b>   AWG 22 – 12                  400 V/6 kV/3                  I<sub>N</sub> 16 A  <b>Terminal block width 5.2 mm / 0.205 in</b>  <b>10 – 12 mm / 0.43 in</b></p>
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① can be connected: 0.25 mm<sup>2</sup> – 4 mm<sup>2</sup> "s + f-st";  
 can be pushed in directly: 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "s" and  
 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "insulated ferrule, 12 mm / 0.472 in"



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

**Item-specific accessories**

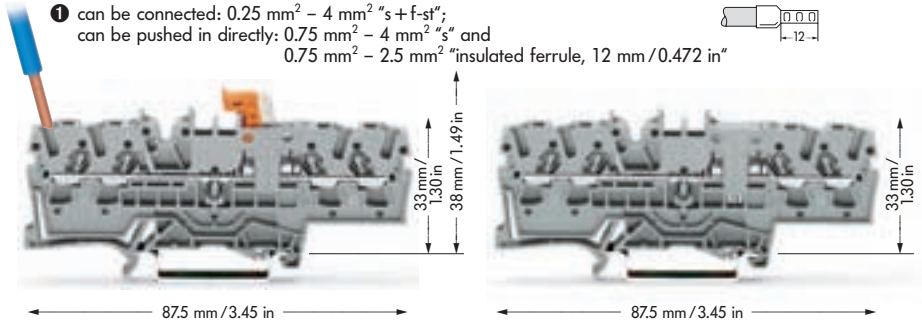
<p><b>End and intermediate plate, 1 mm / 0.039 in thick</b></p> <p>orange <b>2002-1692</b> 100 (4 x 25)                  grey <b>2002-1691</b> 100 (4 x 25)</p>	<p><b>End and intermediate plate, 1 mm / 0.039 in thick</b></p> <p>orange <b>2002-1692</b> 100 (4 x 25)                  grey <b>2002-1691</b> 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><b>Insulation stop, 5 pcs/strip</b> 200 strips</p> <p>light grey <b>2002-171</b> 0.25-0.5 mm<sup>2</sup>                  dark grey <b>2002-172</b> 0.75-1 mm<sup>2</sup></p>	<p><b>Protective warning marker,</b></p> <p>for 5 terminal blocks                  yellow <b>2002-115</b> 100 (4 x 25)</p>
<p><b>Push-in type jumper bars, light grey, insulated, I<sub>N</sub> 25 A</b></p> <p>2-way <b>2002-402</b> 200 (8 x 25)                  3-way <b>2002-403</b> 200 (8 x 25)                  4-way <b>2002-404</b> 200 (8 x 25)                  5-way <b>2002-405</b> 100 (4 x 25)                  :                  10-way <b>2002-410</b> 100 (4 x 25)</p>	<p><b>Staggered jumper, light grey, insulated, I<sub>N</sub> 25 A</b></p> <p>2-way <b>2002-472</b> 100 (4 x 25)                  3-way <b>2002-473</b> 100 (4 x 25)                  4-way <b>2002-474</b> 100 (4 x 25)                  5-way <b>2002-475</b> 50 (2 x 25)                  :                  12-way <b>2002-482</b> 50 (2 x 25)</p>
<p><b>Push-in type jumper bars, light grey, insulated, I<sub>N</sub> 25 A</b></p> <p>1 - 3 <b>2002-433</b> 200 (8 x 25)                  1 - 4 <b>2002-434</b> 200 (8 x 25)                  1 - 5 <b>2002-435</b> 100 (4 x 25)                  :                  1 - 10 <b>2002-440</b> 100 (4 x 25)</p>	<p><b>Test plug adapter, for test plug Ø 4 mm / 0.157 in</b></p> <p><b>2009-174</b> 100 (4 x 25)</p>
<p><b>Modular TOPJOB® connector,</b></p> <p>for jumper contact slot                  1 pole <b>2002-511</b> 100 (4 x 25)</p>	<p><b>Testing tap, for max. 2.5 mm<sup>2</sup> / AWG 14</b></p> <p><b>2009-182</b> 100 (4 x 25)</p>
<p><b>Spacer, modular</b> <b>2002-549</b> 100 (4 x 25)</p>	<p><b>Two-way marking adapter,</b></p> <p>pivotable  <b>2002-121</b> 50 (4 x 25)</p>
<p><b>Test plug, with cable 500 mm / 17.7"</b></p> <p>Ø 2 mm / 0.079 in                  red <b>210-136</b> 50 (5 x 10)</p>	

<p>0.25 – 2.5 (4) mm<sup>2</sup> ①   AWG 22 – 12 400 V/6 kV/3 I<sub>N</sub> 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) mm<sup>2</sup> ①   AWG 22 – 12 400 V/6 kV/3 I<sub>N</sub> 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
<b>4-conductor disconnect terminal block for test and measurement</b>		<b>4-conductor through terminal blocks,</b>	
grey	<b>2002-1871</b>	same profile as disconnect terminal block	
blue	<b>2002-1874</b>	grey	<b>2002-1801</b>
orange	<b>2002-1872</b>	blue	<b>2002-1804</b>
		orange	<b>2002-1802</b>

Item-specific accessories




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

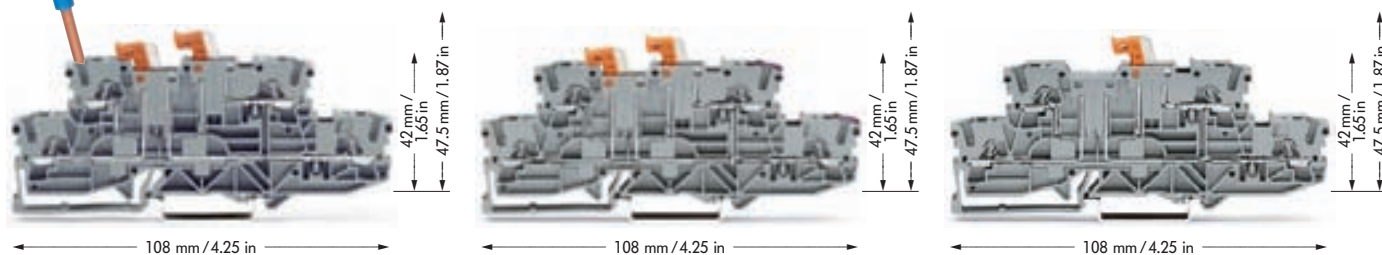
appropriate marker system **WMB/Marker strips/WMB Inline** (see Full Line Catalog W4 Volume 1, Section 14)

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

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

<b>0.25 – 2.5 (4) mm<sup>2</sup> ①</b>   AWG 22 – 12 400 V/6 kV/3 I <sub>N</sub> 16 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in	<b>0.25 – 2.5 (4) mm<sup>2</sup> ①</b>   AWG 22 – 12 400 V/6 kV/3 I <sub>N</sub> 16 A Terminal block width 5.2 mm / 0.205 in  10 – 12 mm / 0.43 in	<b>0.25 – 2.5 (4) mm<sup>2</sup> ①</b>   AWG 22 – 12 400 V/6 kV/3 I <sub>N</sub> 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 mm<sup>2</sup> – 4 mm<sup>2</sup> "s + f-st";  
 can be pushed in directly: 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "s" and 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "insulated ferrule, 12 mm/0.472 in"



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




### Item-specific accessories

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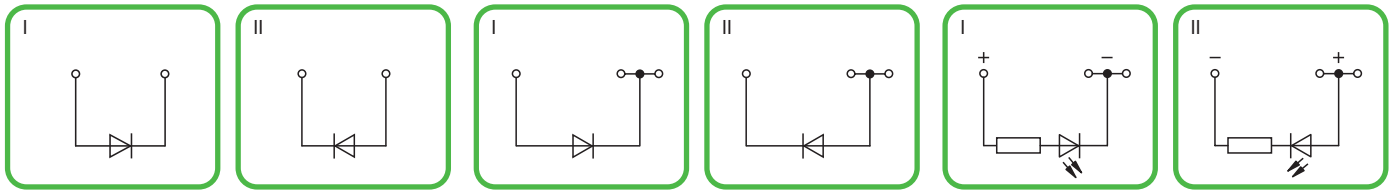
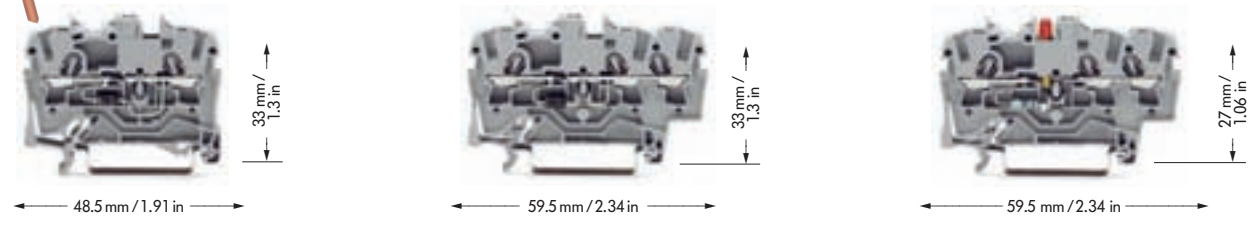
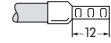
### Accessories Series 2002

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

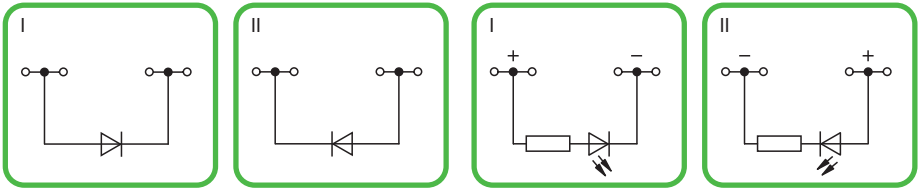
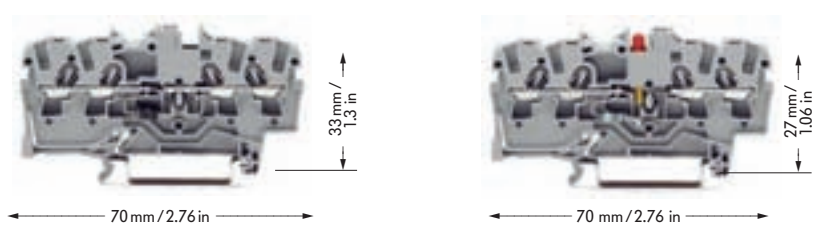
<b>Insulation stop, 5 pcs/strip</b> 200 strips light grey <b>2002-171</b> 0.25-0.5 mm <sup>2</sup> dark grey <b>2002-172</b> 0.75-1 mm <sup>2</sup>	<b>Protective warning marker,</b> for 5 terminal blocks yellow <b>2002-115</b> 100 (4 x 25)	<b>Test plug, with cable 500 mm / 1'7.7"</b> Ø 2 mm / 0.079 in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

<p>0.25 – 1.5 (2.5) mm<sup>2</sup>   AWG 22 – 14                  U<sub>N</sub> 250 V; U<sub>RM</sub> 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) mm<sup>2</sup>   AWG 22 – 14                  U<sub>N</sub> 250 V; U<sub>RM</sub> 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) mm<sup>2</sup>   AWG 22 – 14                  DC 24 V                  I<sub>f</sub> 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 mm<sup>2</sup> – 4 mm<sup>2</sup> "s + f-st";  
 can be pushed in directly: 0.5 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "s" and 0.75 mm<sup>2</sup> – 1.5 mm<sup>2</sup> "insulated ferrule, 12 mm/0.472 in"






Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>2-cond. diode term. blocks with diode 1 N 4007</b>		<b>3-cond. diode term. blocks with diode 1 N 4007</b>		<b>3-cond. LED term. blocks with red LED, DC 24 V</b>	
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	
<b>Through terminal block with the same shape</b>		<b>Through terminal block with the same shape</b>		<b>Through terminal block with the same shape</b>	
grey	2001-1201	grey	2001-1301	grey	2001-1301
<b>End and intermediate plate, 0.8 mm/0.032 in thick</b>		<b>End and intermediate plate, 0.8 mm/0.032 in thick</b>		<b>End and intermediate plate, 0.8 mm/0.032 in thick</b>	
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)

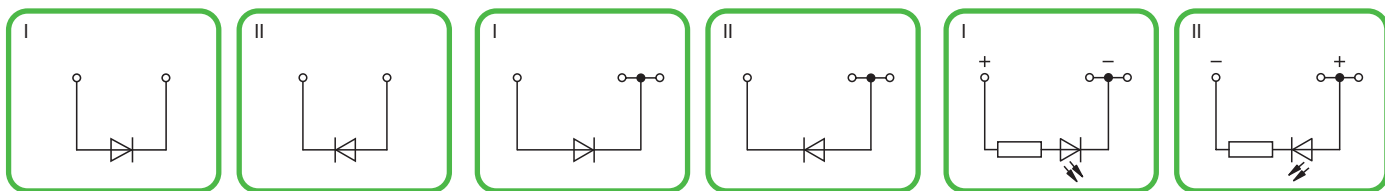
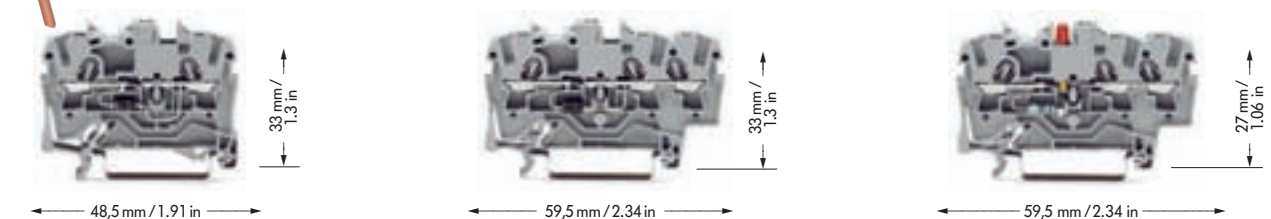


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>4-cond. diode term. blocks with diode 1 N 4007</b>		<b>4-cond. LED term. blocks with red LED, DC 24 V</b>	
Circuit I, grey	2001-1411/1000-410 100	Circuit I, grey	2001-1421/1000-434 100
Circuit II, grey	2001-1411/1000-411 100	Circuit II, grey	2001-1421/1000-413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

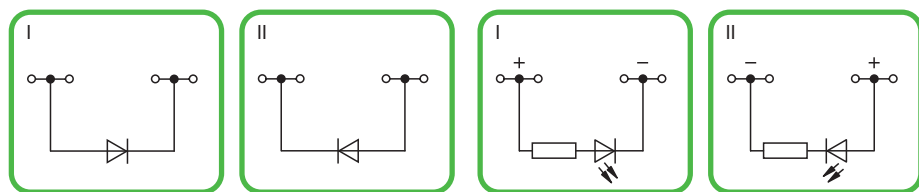
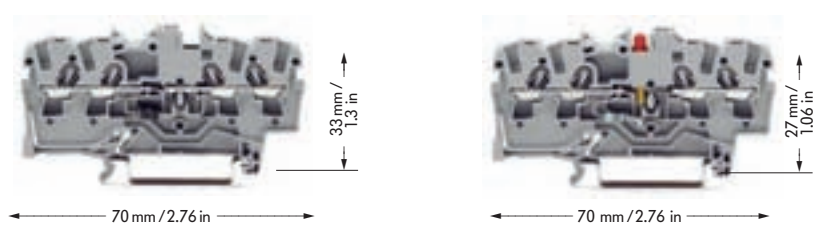
# TOPJOB® Diode Terminal Blocks 2.5 (4) mm<sup>2</sup> / AWG 12 and LED Terminal Blocks 2.5 (4) mm<sup>2</sup>; Series 2002

<b>0.25 – 2.5 (4) mm<sup>2</sup></b>   AWG 22 – 12 U <sub>N</sub> 250 V; U <sub>RM</sub> 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	<b>0.25 – 2.5 (4) mm<sup>2</sup></b>   AWG 22 – 12 U <sub>N</sub> 250 V; U <sub>RM</sub> 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	<b>0.25 – 2.5 (4) mm<sup>2</sup></b>   AWG 22 – 12 DC 24 V I <sub>f</sub> 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 mm<sup>2</sup> – 4 mm<sup>2</sup> "s+f-st";  
 can be pushed in directly: 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "s" and 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "insulated ferrule, 12 mm/0.472 in"







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



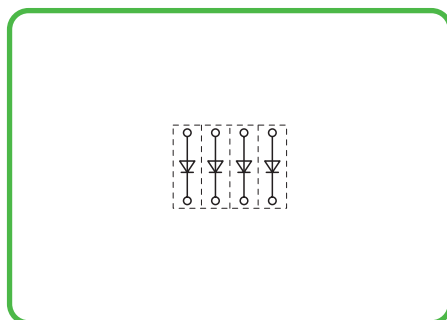
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>4-cond. diode term. blocks with diode 1 N 4007</b>		<b>4-cond. LED term. blocks with red LED, DC 24 V</b>	
Circuit I, grey	<b>2002-1411/1000-410</b> 100	Circuit I, grey	<b>2002-1421/1000-434</b> 100
Circuit II, grey	<b>2002-1411/1000-411</b> 100	Circuit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

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

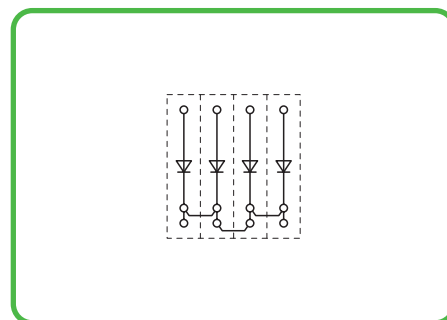
Examples of circuit configuration

2-conductor diode terminal block



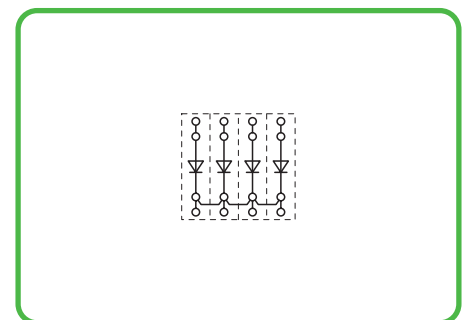
Open diode gate

3-conductor diode terminal block



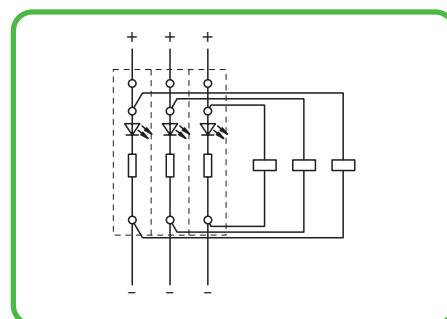
Polarized diode gate, common cathode

4-conductor diode terminal block



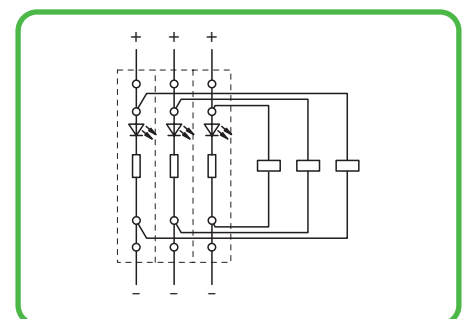
Polarized diode gate, common cathode

3-conductor LED terminal block



Voltage indication

4-conductor LED terminal block

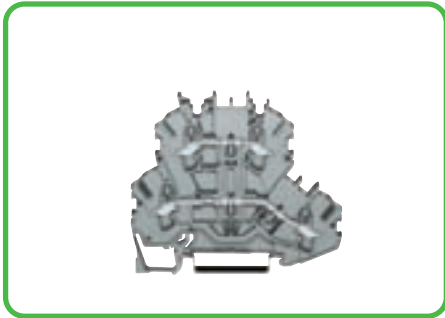
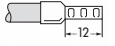


Voltage indication

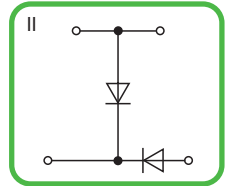
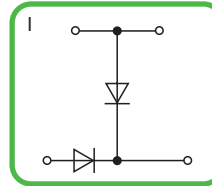
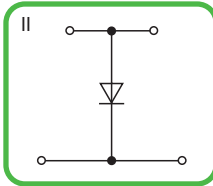
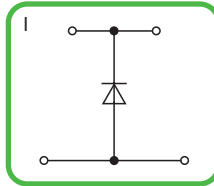
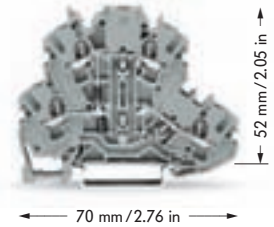
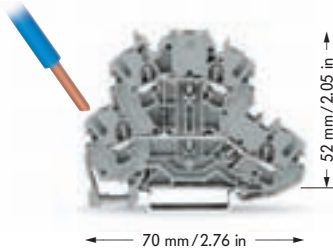
# Double Deck Diode Terminal Blocks / Double Deck LED Terminal Blocks 2.5 mm<sup>2</sup>/4 mm<sup>2</sup> / AWG 12, Series 2002

<p>0.25 – 2.5 (4) mm<sup>2</sup> ①   AWG 22 – 12  <math>U_N</math> 250 V; <math>U_{RM}</math> 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) mm<sup>2</sup> ①   AWG 22 – 12  <math>U_N</math> 250 V; <math>U_{RM}</math> 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>
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① can be connected: 0.25 mm<sup>2</sup> – 4 mm<sup>2</sup> "s + f-st";  
 can be pushed in directly: 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "s" and  
 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "insulated ferrule, 12 mm/0.472 in"



Through terminal blocks with the same shape see page 6



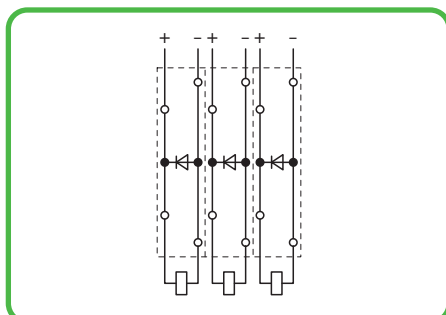
Description	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
Double deck diode terminal block	Double deck diode terminal blocks with diode 1 N 4007		Double deck diode terminal blocks with 2 diodes 1 N 4007	
and	Circuit I, grey	2002-2211/1000-0410 50	Circuit I, grey	2002-2214/1000-0492 50
double deck LED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

**Accessories**

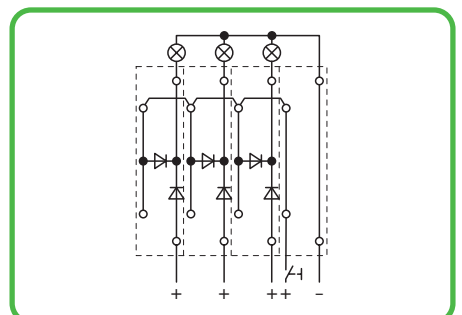
Appropriate marking system **WMB/WMB Inline** (see also Full Line Catalog W4 Volume 1, Section 14)

	0.8 mm / 0.032 in thick	0.8 mm / 0.032 in thick
	<b>End and intermediate plate</b>	
	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)
	<b>Push-in type jumper bars,</b> 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)	
	<b>Push-in type jumper bars,</b> 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)
	<b>Two-way marking adapter,</b> pivotal	
	2002-121 50 (2 x 25)	2002-121 50 (2 x 25)

**Examples of circuit configuration**






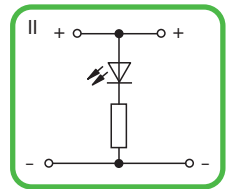
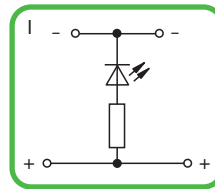
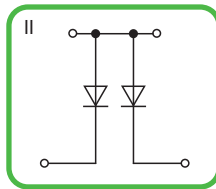
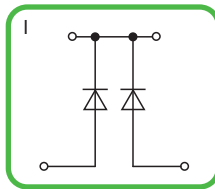
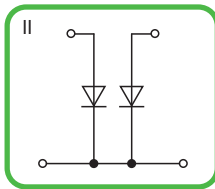
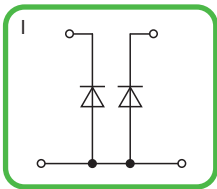
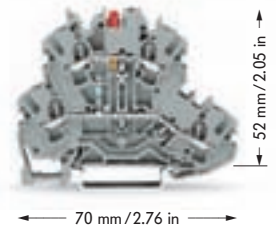
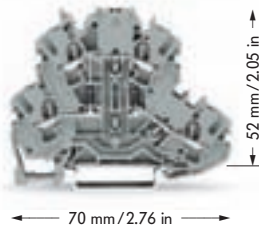
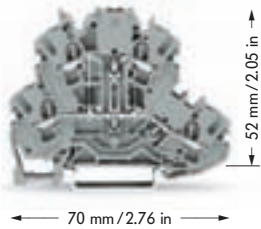
Used as recovery diodes



Used in lamp test circuit



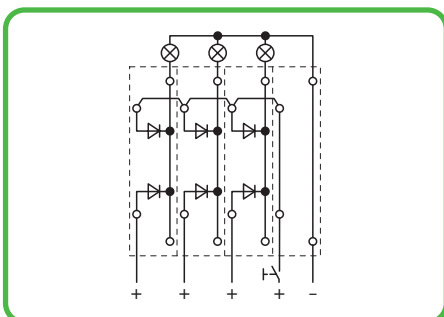
<p>0.25 – 2.5 (4) mm<sup>2</sup> ①   AWG 22 – 12                  U<sub>N</sub> 250 V; U<sub>RM</sub> 1000 V                  1 N 4007 – 0.5 A continuous current</p> <p>Terminal block width 5.2 mm / 0.205 in   10 – 12 mm / 0.43 in</p>	<p>0.25 – 2.5 (4) mm<sup>2</sup> ①   AWG 22 – 12                 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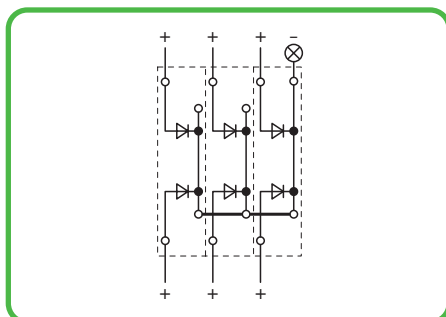
Item No.	Pack. unit pcs	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
<b>Double deck diode terminal blocks with 2 diodes 1 N 4007</b>		<b>Double deck diode terminal blocks with 2 diodes 1 N 4007</b>		<b>Double deck LED terminal blocks with red LED, DC 24 V</b>	
Circuit I, grey	<b>2002-2213/1000-0487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

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

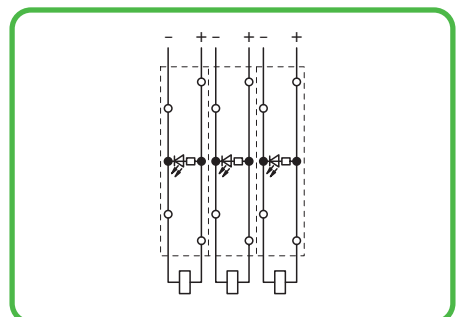
0.8 mm / 0.032 in thick			0.8 mm / 0.032 in thick			0.8 mm / 0.032 in thick		
orange	<b>2002-2292</b>	100 (4 x 25)	orange	<b>2002-2292</b>	100 (4 x 25)	orange	<b>2002-2292</b>	100 (4 x 25)
grey	<b>2002-2291</b>	100 (4 x 25)	grey	<b>2002-2291</b>	100 (4 x 25)	grey	<b>2002-2291</b>	100 (4 x 25)
2-way	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



Used in lamp test circuit



Used for collective fault indication



Used for voltage indication

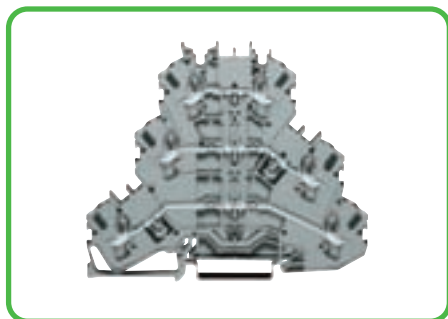
# Triple Deck Diode Terminal Blocks / Triple Deck LED Terminal Blocks 2.5 mm<sup>2</sup>/4 mm<sup>2</sup> / AWG 12, Series 2002

0.25 – 2.5 (4) mm<sup>2</sup> ① | AWG 22 – 12  
U<sub>N</sub> 250 V; U<sub>RM</sub> 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

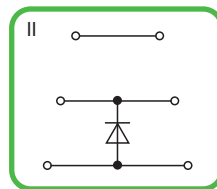
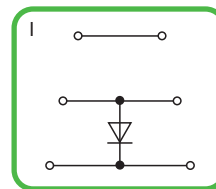
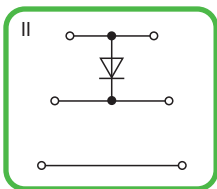
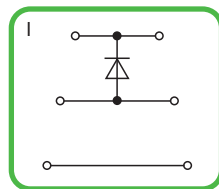
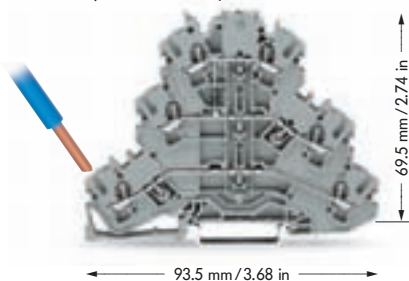
0.25 – 2.5 (4) mm<sup>2</sup> ① | AWG 22 – 12  
U<sub>N</sub> 250 V; U<sub>RM</sub> 1000 V  
1 N 4007 – 0.5 A continuous current

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 mm<sup>2</sup> – 4 mm<sup>2</sup> "s + f-st";  
can be pushed in directly: 0.75 mm<sup>2</sup> – 4 mm<sup>2</sup> "s" and 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup> "insulated ferrule, 12 mm/0.472 in"





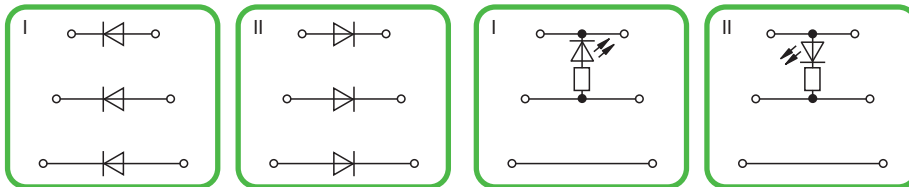
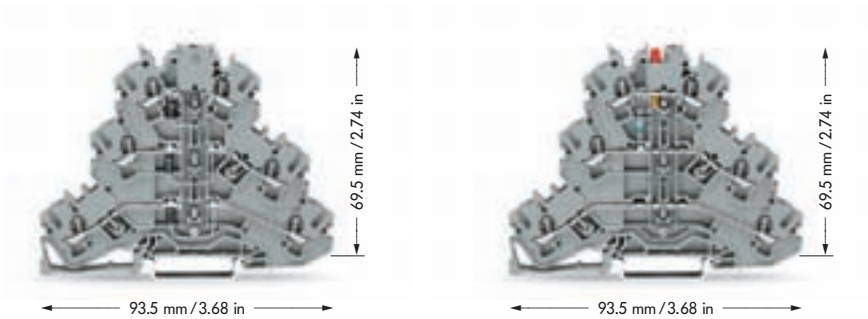
Description	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
<b>Triple deck diode terminal block</b>	<b>Triple deck diode terminal blocks with diode 1 N 4007</b>		<b>Triple deck diode terminal blocks with diode 1 N 4007</b>	
and				
<b>Triple deck LED terminal block, for DIN 35 rail</b>	Circuit I, grey	<b>2002-3211/1000-0410</b> 50	Circuit I, grey	<b>2002-3211/1000-0675</b> 50
	Circuit II, grey	<b>2002-3211/1000-0411</b> 50	Circuit II, grey	<b>2002-3211/1000-0676</b> 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	
	<b>End and intermediate plate</b>	orange	<b>2002-3292</b> 100 (4 x 25)	orange	<b>2002-3292</b> 100 (4 x 25)
		grey	<b>2002-3291</b> 100 (4 x 25)	grey	<b>2002-3291</b> 100 (4 x 25)
	<b>Push-in type jumper bars, light grey, insulated, I<sub>N</sub> 25 A</b>	2-way	<b>2002-402</b> 200 (8 x 25)	2-way	<b>2002-402</b> 200 (8 x 25)
		3-way	<b>2002-403</b> 200 (8 x 25)	3-way	<b>2002-403</b> 200 (8 x 25)
		4-way	<b>2002-404</b> 200 (8 x 25)	4-way	<b>2002-404</b> 200 (8 x 25)
		5-way	<b>2002-405</b> 100 (4 x 25)	5-way	<b>2002-405</b> 100 (4 x 25)
		:	:	:	:
		10-way	<b>2002-410</b> 100 (4 x 25)	10-way	<b>2002-410</b> 100 (4 x 25)
	<b>Push-in type jumper bars, light grey, insulated, I<sub>N</sub> 25 A</b>	1 - 3	<b>2002-433</b> 200 (8 x 25)	1 - 3	<b>2002-433</b> 200 (8 x 25)
		1 - 4	<b>2002-434</b> 200 (8 x 25)	1 - 4	<b>2002-434</b> 200 (8 x 25)
		1 - 5	<b>2002-435</b> 100 (4 x 25)	1 - 5	<b>2002-435</b> 100 (4 x 25)
		:	:	:	:
		1 - 10	<b>2002-440</b> 100 (4 x 25)	1 - 10	<b>2002-440</b> 100 (4 x 25)
	<b>Two-way marking adapter, pivotable</b>		<b>2002-131</b> 50 (2 x 25)		<b>2002-131</b> 50 (2 x 25)

<p>0.25 – 2.5 (4) mm<sup>2</sup> ①   AWG 22 – 12                  U<sub>N</sub> 250 V; U<sub>RM</sub> 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) mm<sup>2</sup> ①   AWG 22 – 12                  DC 24 V                  I<sub>F</sub> 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
<b>Triple deck diode terminal blocks with 3 diodes 1 N 4007</b>		<b>Triple deck LED terminal blocks with red LED, DC 24 V</b>	
Circuit I, grey	<b>2002-3212/1000-0673</b> 50	Circuit I, grey	<b>2002-3221/1000-0434</b> 50
Circuit II, grey	<b>2002-3212/1000-0674</b> 50	Circuit II, grey	<b>2002-3221/1000-0413</b> 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	<b>2002-3292</b>	100 (4 x 25)	orange	<b>2002-3292</b>	100 (4 x 25)
grey	<b>2002-3291</b>	100 (4 x 25)	grey	<b>2002-3291</b>	100 (4 x 25)
2-way	<b>2002-402</b>	200 (8 x 25)	2-way	<b>2002-402</b>	200 (8 x 25)
3-way	<b>2002-403</b>	200 (8 x 25)	3-way	<b>2002-403</b>	200 (8 x 25)
4-way	<b>2002-404</b>	200 (8 x 25)	4-way	<b>2002-404</b>	200 (8 x 25)
5-way	<b>2002-405</b>	100 (4 x 25)	5-way	<b>2002-405</b>	100 (4 x 25)
:	:		:	:	
10-way	<b>2002-410</b>	100 (4 x 25)	10-way	<b>2002-410</b>	100 (4 x 25)
1 - 3	<b>2002-433</b>	200 (8 x 25)	1 - 3	<b>2002-433</b>	200 (8 x 25)
1 - 4	<b>2002-434</b>	200 (8 x 25)	1 - 4	<b>2002-434</b>	200 (8 x 25)
1 - 5	<b>2002-435</b>	100 (4 x 25)	1 - 5	<b>2002-435</b>	100 (4 x 25)
:	:		:	:	
1 - 10	<b>2002-440</b>	100 (4 x 25)	1 - 10	<b>2002-440</b>	100 (4 x 25)
	<b>2002-131</b>	50 (2 x 25)		<b>2002-131</b>	50 (2 x 25)

# Push-in Type Wire Jumpers and Star Point Jumpers

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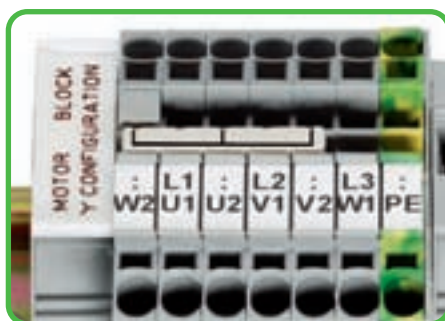


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>Push-in type wire jumpers,</b> insulated, conductor cross section 1.5 mm <sup>2</sup> /AWG 16, suitable for rail-mounted terminal blocks series 2001 and 2002		<b>Star Point Jumpers,</b> light grey, insulated suitable for series	
<b>Wire length</b>		2002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

## Applications notes



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



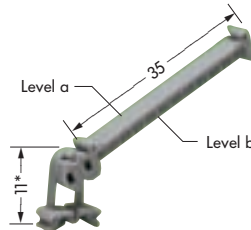
This jumper has been specially developed to create a "star point" and is used on motor terminal boards equipped with TOPJOB® rail-mounted terminal blocks.

## Finger Guard Cover

## Pivotable Group marker carrier

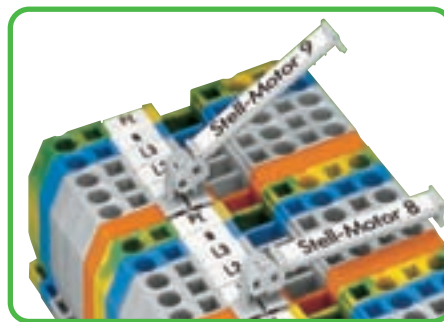
## Group Marker Carriers Series 2009

<b>Finger guard cover</b> for TOPJOB® rail-mounted terminal blocks	<b>WAGO pivotable group marker carrier</b> – for TOPJOB® rail-mounted terminal blocks – for rail-mounted terminal blocks from 5 mm/0.197 in on and in spacer housings	<b>TOPJOB® group marker carriers,</b>  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
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\* from upper edge of terminal block

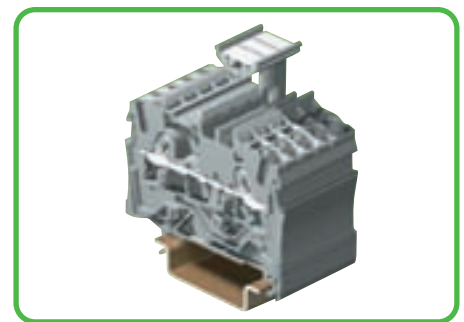
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>Finger guard cover,</b> serves as touchproof protection for unused clamping units		<b>Pivotable group marker carrier</b>		<b>TOPJOB® group marker carriers,</b> snap-on type for jumper slot	
		<b>249-105</b>	50	5 mm/0.197 in wide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

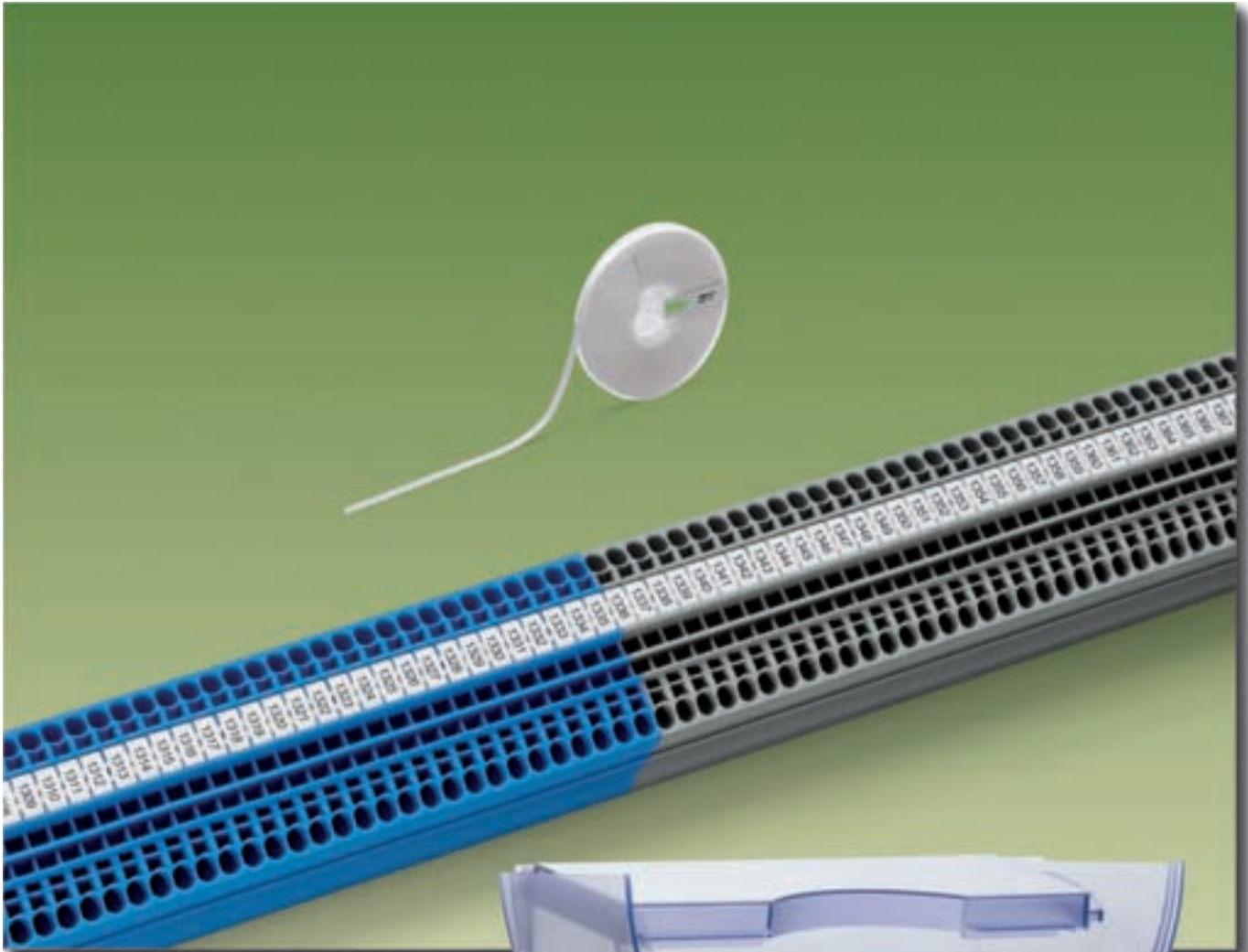
- Can be used in all multiprofile marker receptacles for rail-mounted terminal blocks from 5 mm width on or in spacer housings as shown in the picture
- Pivotable in 7 different stable positions, providing the best visual angle in case of difficult mounting conditions
- Two levels for different marking 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

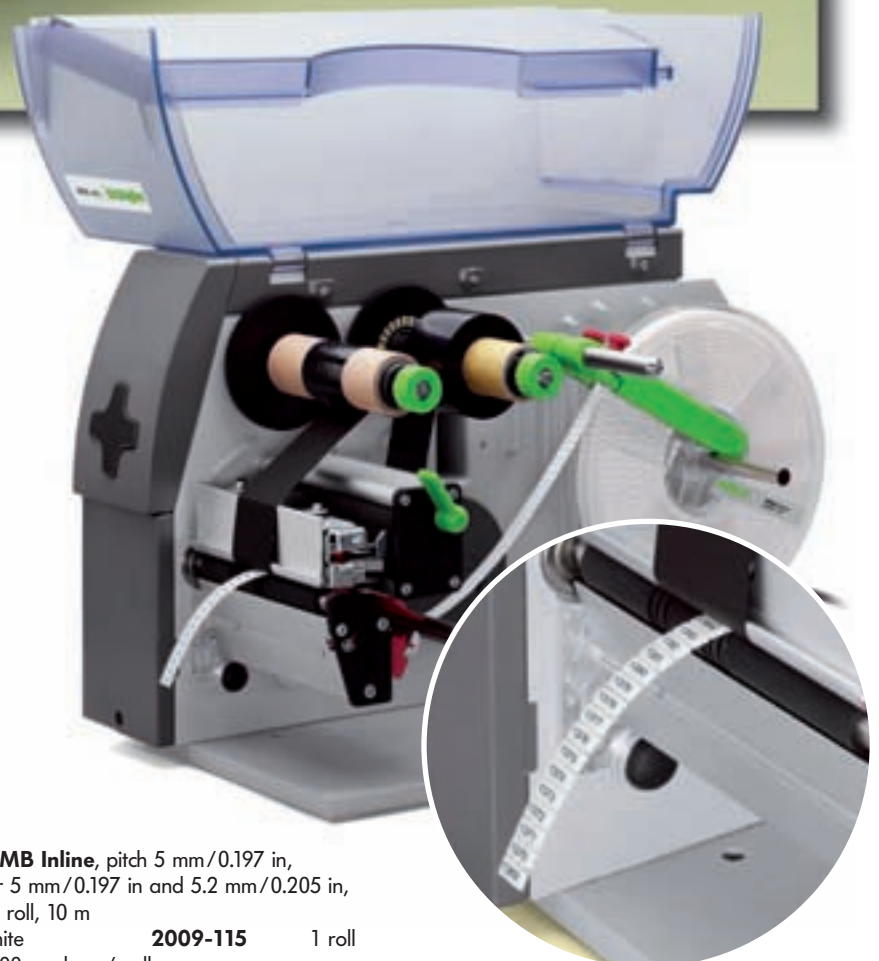


## Marking

WMB or miniature WSB markers can be used in three positions of the TOPJOB<sup>®</sup> products. Moreover, a full length marking strip can be used in the top position of a terminal block. The terminal blocks from 1.5 mm<sup>2</sup>/AWG 16 to 6 mm<sup>2</sup>/AWG 10 as well as 10 mm<sup>2</sup>/AWG 8 and 16 mm<sup>2</sup>/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 mm<sup>2</sup> 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 mm<sup>2</sup> – 95 mm<sup>2</sup>/AWG 8 to AWG 4/0

# Connecting conductors up to 95 mm<sup>2</sup>/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 mm<sup>2</sup>/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 mm<sup>2</sup> (AWG 8) have been added to the range:

**285-135**, **6-35 mm<sup>2</sup>/AWG 8 to AWG 2**

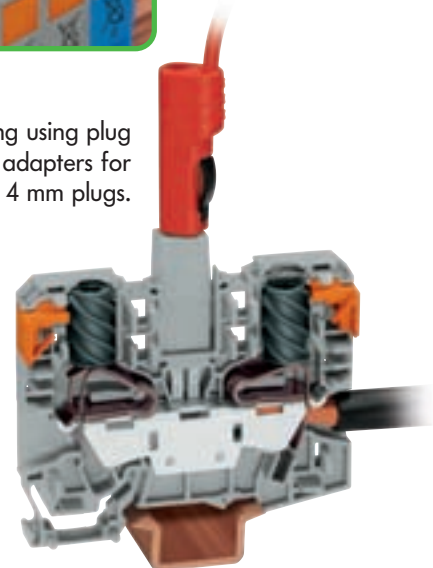
**285-150**, **10-50 mm<sup>2</sup>/AWG 8 to 2/0 (70 mm<sup>2</sup> "f-st")**.

Operation of these new terminals is essentially the same as the 95 mm<sup>2</sup> terminal block. **The 35 mm<sup>2</sup> 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.

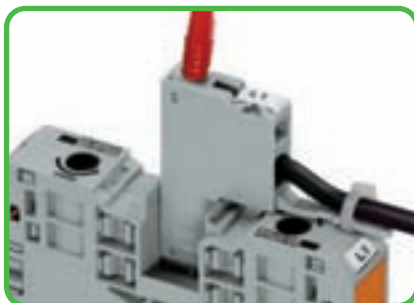
Counter-clockwise rotation using a screwdriver 5.5 mm/ 0.217 in. Hold clamp in open position using the latch.



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.



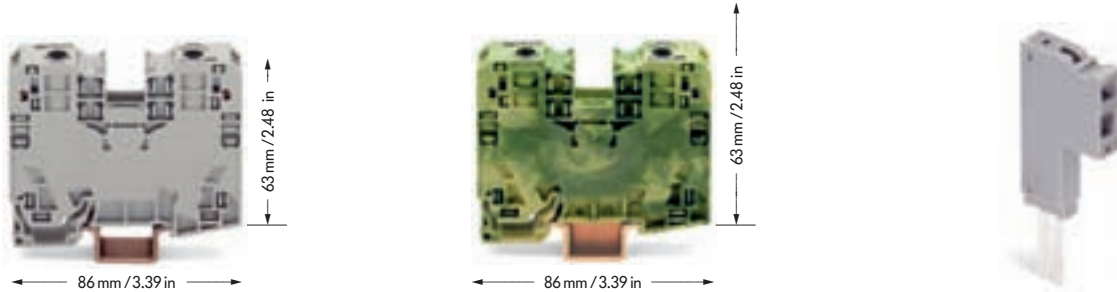
Side entry wiring means that even larger cables, which are flexible to a limited degree, can be connected without a problem.



# High Current Through/Ground (Earth) Conductor Terminal Blocks

## 35 mm<sup>2</sup>/AWG 2, Series 285, Side-entry

<p>6 – 35 mm<sup>2</sup> 1000 V/8 kV/3 Ⓛ I<sub>N</sub> 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 mm<sup>2</sup> AWG 8 – 2</p> <p>Terminal block width 16 mm / 0.63 in 25 – 26 mm / 0.98 in</p>	<p>0.2 – 6 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 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
<b>2-conductor through terminal blocks</b>		<b>2-conductor ground (earth) terminal blocks</b>		<b>Voltage tap,</b>	
grey <b>285-135</b> ●	15	green-yellow <b>285-137</b> ●	15	grey <b>285-427</b> ●	5
blue <b>285-134</b> ●	15				
To be used <b>exclusively</b> on DIN 35 x 15; 2.3 mm / 0.091 in thick		To be used <b>exclusively</b> on DIN 35 x 15; 2.3 mm / 0.091 in thick, Cu			
<b>Accessories</b> Appropriate marking system <b>WMB/Marker strips</b> (see W4 Volume 1, Section 14)			Appropriate marking system <b>WMB</b>		
<b>Adjacent jumper, insulated,</b> I <sub>N</sub> 100 A for 1 jumper I <sub>N</sub> 85 A for 2 to 4 jumpers grey <b>285-435</b> 50 (2 x 25)		<b>Adjacent jumper, insulated,</b> I <sub>N</sub> 100 A for 1 jumper I <sub>N</sub> A for 2 to 4 jumpers grey <b>285-435</b> 50 (2 x 25)		<b>Strain relief plate, snap-on type for voltage tap</b> grey <b>769-410</b> 100 (4 x 25)	
<b>Screwdriver with partially insulated shaft,</b> type 3, blade 5.5 x 0.8 mm / 0.217 in x 0.031 in <b>210-621</b> 1		<b>crewdriver with partially insulated shaft,</b> type 3, blade 5.5 x 0.8 mm / 0.217 in x 0.031 in <b>210-621</b> 1		<b>Test plug, with cable 500 mm/17.7"</b> 2 mm Ø, red <b>210-136</b> 50 (5 x 10)	
<b>Protective warning marker,</b> with high voltage symbol, black yellow <b>285-420</b> 50 (2 x 25)		<b>Protective warning marker,</b> with high voltage symbol, black yellow <b>285-420</b> 50 (2 x 25)		<b>Ⓛ</b> 1000 V = rated voltage 8 kV = rated surge voltage 3 = pollution degree (see also Full Line Catalog W4 Volume 1, Section 15)	
<b>Finger guard cover, serves as touchproof protection for unused clamping units</b> yellow <b>285-421</b> 25		<b>Finger guard cover, serves as touchproof protection for unused clamping units</b> yellow <b>285-421</b> 25			
<b>Test plug adapter, 11.6 mm/4.57 in wide, for test plug 4 mm/0.157 in Ø</b> <b>283-404</b> 25		<b>Test plug adapter, 11.6 mm/4.57 in wide, for test plug 4 mm/0.157 in Ø</b> <b>283-404</b> 25			
<b>Test plug, Ø 4 mm/0.157 in, protected against accidental contact, not offered by WAGO</b> e. g. Fa. Multi-Contact Deutschland GmbH Postfach 16 06 · 79551 Weil am Rhein Hegenheimerstraße 19 · 79576 Weil am Rhein		<b>Test plug, Ø 4 mm/0.157 in, protected against accidental contact, not offered by WAGO</b> e. g. Fa. Multi-Contact Deutschland GmbH Postfach 16 06 · 79551 Weil am Rhein Hegenheimerstraße 19 · 79576 Weil am Rhein			

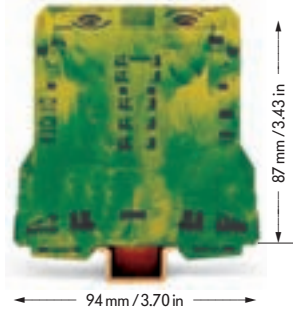
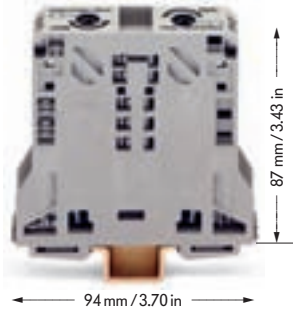
# High Current Through/Ground (Earth) Conductor Terminal Blocks

## 50 (70 "f-st") mm<sup>2</sup>/AWG 2/0; Series 285, Side-entry













VOLUME 1

<p>10 – 50 (70 "f-st") mm<sup>2</sup>   AWG 8 – 2/0                  1000 V/8 kV/3 Ⓢ                  I<sub>N</sub> 150 A</p> <p>Terminal block width 20 mm / 0.78 in   30 mm / 1.18 in</p>	<p>10 – 50 (70 "f-st") mm<sup>2</sup>   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 mm<sup>2</sup>   AWG 24 – 10                  1000 V/8 kV/3                  I<sub>N</sub> 41 A</p> <p>Module width 16 mm / 0.63 in   12 – 13 mm / 0.49 in</p>
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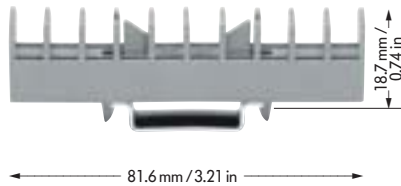
Item No.	Pack. unit pcs	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
<b>2-conductor through terminal blocks</b>		<b>2-conductor ground (earth) terminal blocks</b>		<b>Voltage tap,</b>	
grey	285-150 ●	5	green-yellow	285-157 ●	5
blue	285-154 ●	5			
To be used <b>exclusively</b> on DIN 35 x 15; 2.3 mm / 0.091 in thick		To be used <b>exclusively</b> 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><b>Adjacent jumper, insulated,</b>                  I<sub>N</sub> 150 A                  grey</p> <p><b>285-450</b> 25</p> 	<p><b>Adjacent jumper, insulated,</b>                  I<sub>N</sub> 150 A                  grey</p> <p><b>285-450</b> 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><b>Hex wrench with partially insulated shaft</b></p> <p><b>285-172</b> 1</p> 	<p><b>Hex wrench with partially insulated shaft</b></p> <p><b>285-172</b> 1</p> 	
<p><b>Protective warning marker,</b>                  with high voltage symbol, black                  yellow</p> <p><b>285-420</b> 50 (2 x 25)</p> 	<p><b>Protective warning marker,</b>                  with high voltage symbol, black                  yellow</p> <p><b>285-420</b> 50 (2 x 25)</p> 	
<p><b>Finger guard cover, serves as touchproof protection for unused clamping units</b>                  yellow</p> <p><b>285-421</b> 25</p> 	<p><b>Finger guard cover, serves as touchproof protection for unused clamping units</b>                  yellow</p> <p><b>285-421</b> 25</p> 	
<p><b>Test plug, Ø 4 mm / 0.157 in, protected against accidental contact, not offered by WAGO</b>                  e.g. Fa. Multi-Contact Deutschland GmbH                  Postfach 16 06 · 79551 Weil am Rhein                  Hegenheimerstraße 19 · 79576 Weil am Rhein</p> 	<p><b>Test plug, Ø 4 mm / 0.157 in, protected against accidental contact, not offered by WAGO</b>                  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

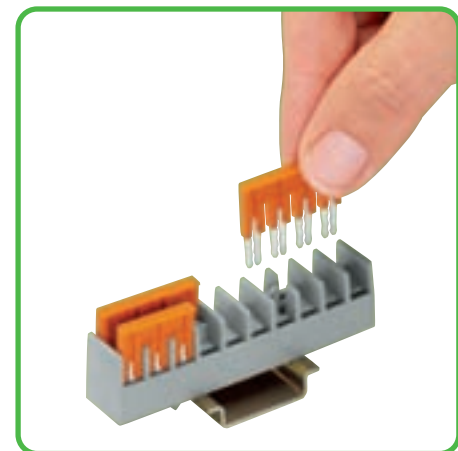
<p>Collective carrier for standard and special jumpers in longitudinal disconnect and transverse switch terminal blocks, Series 282, can be snapped onto DIN 35 rail Width 15.8 mm / 0.62 in (<math>\Delta</math> 2 x pitch 8 mm)</p>		<p><b>Storage</b></p>
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Safe 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	
<b>Collective carrier for jumpers</b>		
<b>282-369</b>	25	
Suitable for jumpers for		
transverse switch t. bl.	282-811 and	
longitudinal disc. t. bl.	282-821	
<b>Appropriate for the following jumpers:</b>		
<b>Jumpers, orange, I<sub>N</sub> 30 A</b>		
	2-way	<b>282-432</b> 50 (5 x 10)
	3-way	<b>282-433</b> 50 (5 x 10)
	4-way	<b>282-434</b> 50 (5 x 10)
	5-way	<b>282-435</b> 50 (5 x 10)
	6-way	<b>282-436</b> 50 (5 x 10)
	7-way	<b>282-437</b> 50 (5 x 10)
	8-way	<b>282-438</b> 50 (5 x 10)
	9-way	<b>282-439</b> 50 (5 x 10)
	10-way	<b>282-440</b> 50 (5 x 10)
<b>Jumpers, special version, orange, I<sub>N</sub> 30 A</b>		
	3-way (1-3-5)	<b>282-435/011-000</b> 50 (5 x 10)
	4-way (1-3-5-7)	<b>282-437/011-000</b> 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:

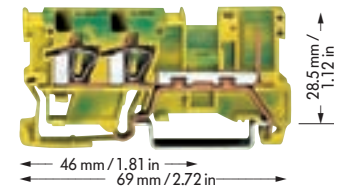
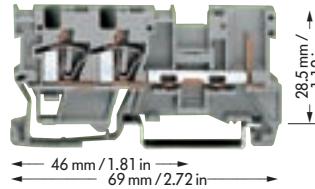
- Power supply
- Transformer test circuits

# X-COM® SYSTEM

## 2-Conductor/1-Pin Receptacle Terminal Blocks

	<p>0.08 – 4 mm<sup>2</sup>   AWG 28 – 12                  500 V/6 kV/3 ①   300 V, 20 A ②                  I<sub>N</sub> 32 A*   300 V, 20 A ③</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 mm<sup>2</sup>   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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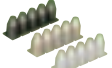




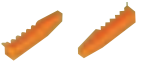






- ① 500 V = rated voltage  
 6 kV = rated surge voltage  
 3 = pollution degree  
 (see also Full Line Catalog W4 Volume 1, Section 15)
- ② See application notes in our Full Line Catalog W4 Volume 1, pages 2.43 – 2.45



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

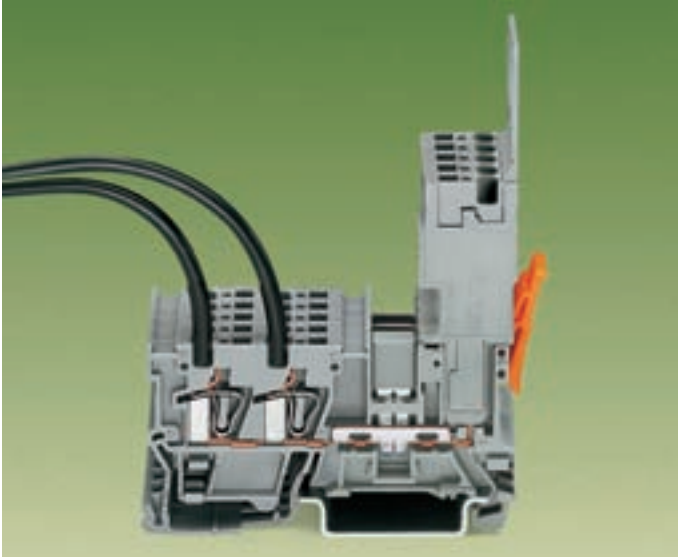
**Accessories**

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

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

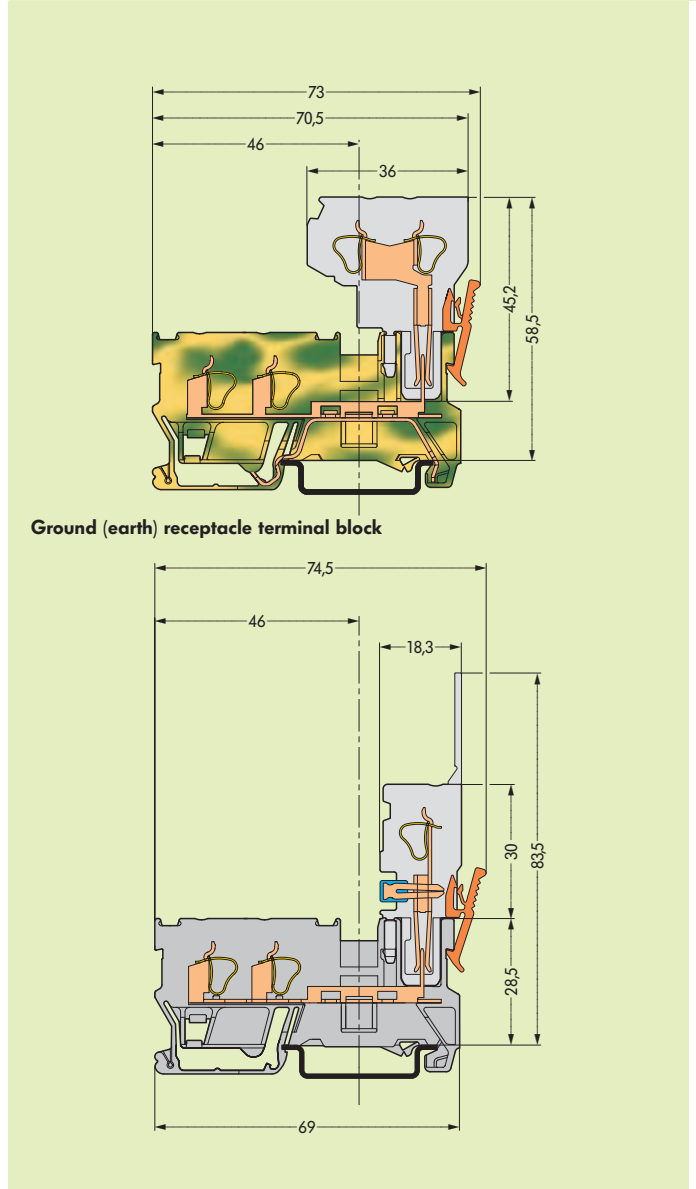
\*Further approvals with corresponding ratings can be found at [www.wago.com](http://www.wago.com)

# 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..**

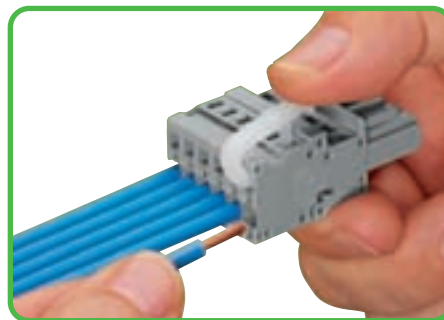
**2-conductor female plug**      **Commoning possibility of receptacle terminal blocks only with adjacent jumpers and alternate jumpers, series 280**



Receptacle terminal block




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



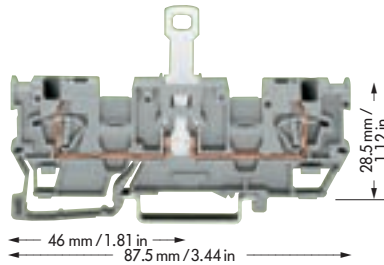
Wire connection using operating lever




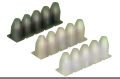


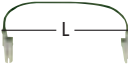
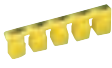

# X-COM® SYSTEM

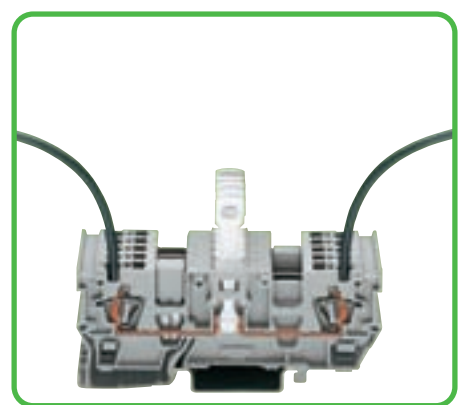
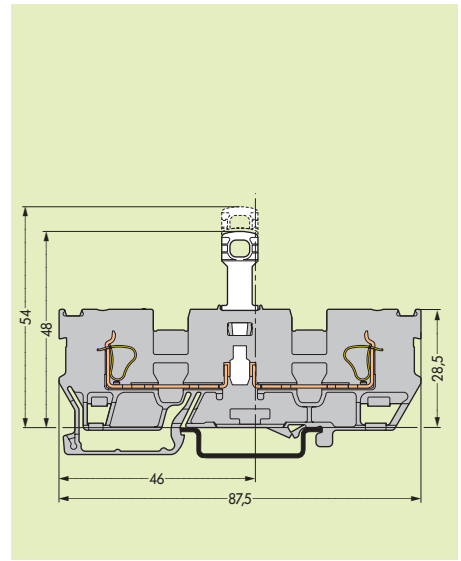
## 1-Conductor/1-Conductor Disconnect Receptacle Terminal Blocks with 2 Jumper Positions

<b>0.08 – 4 mm<sup>2</sup></b> <b>400 V/6 kV/3 ①</b> <b>I<sub>N</sub> 32 A</b>	<b>AWG 28 – 12</b> <b>300 V, 10 A</b>
<b>Terminal block width 5 mm / 0.197 in</b>  <b>8 – 9 mm / 0.33 in</b>	

- 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
<b>1-conductor/1-conductor disconnect receptacle terminal block</b>	<b>1-cond./1-cond. disconnect receptacle term. block</b>	
without/with shield (screen) contact and	grey <b>769-242</b>	50
<b>2 jumper positions,</b>	<b>1-cond./1-cond. disconnect receptacle term. block with shield (screen) contact</b> (no picture)	
suitable for DIN 35 rail acc. to EN 60715	grey <b>769-243</b>	50
<b>Accessories</b> appropriate marking system <b>Mini-WSB</b> (see also Full Line Catalog W4 Volume 1, Section 14)		
	<b>End and intermediate plate</b>	1.1 mm / 0.043 in thick
	grey <b>769-317</b>	100 (4 x 25)
	orange <b>769-318</b>	100 (4 x 25)
	<b>Separator plate, oversized</b>	1.1 mm / 0.043 in thick
	orange <b>769-319</b>	100 (4 x 25)
	<b>Screwless end stop</b>	
	6 mm / 0.236 in wide <b>249-116</b>	100 (4 x 25)
	10 mm / 0.394 in wide <b>249-117</b>	50 (2 x 25)
	<b>Insulation stop</b> ②, white	0.08 – 0.2 mm <sup>2</sup> <b>769-470</b>
	5 pcs/strip light grey	0.25 – 0.5 mm <sup>2</sup> <b>769-471</b>
	dark grey	0.75 – 1 mm <sup>2</sup> <b>769-472</b>
	<b>Adjacent jumper, I<sub>N</sub> 24 A</b>	grey <b>280-402</b>
	insulated	200 (8 x 25)
	<b>Alternate jumper</b>	grey <b>280-409</b>
		100 (4 x 25)
	<b>Staggered jumper</b> ②, from 1 to 2	I <sub>N</sub> 24 A <b>780-452</b>
	insulated, from 1 to 3	<b>780-453</b>
	width 5 mm / 0.197 in from 1 to 4	<b>780-454</b>
	from 1 to 5	<b>780-455</b>
	:	:
	from 1 to 8	<b>780-458</b>
		50 (2 x 25)
	<b>Push-in type wire jumper</b> ②, L = 60 mm / 2.362 in	<b>249-125</b>
	insulated, 9 A – conductor L = 110 mm / 4.331 in	<b>249-126</b>
	cross section 0.75 mm <sup>2</sup> /AWG 18 L = 250 mm / 9.843 in	<b>249-127</b>
		10
	<b>Protective warning marker, for 5 terminal blocks</b>	yellow <b>280-415</b>
	fits into screwdriver slot,	
	<b>Test plug, w. cable 500 mm / 1.77"</b>	
	Ø 2 mm / 0.079 in red <b>210-136</b>	50 (5 x 10)
	Ø 2.3 mm / 0.091 in yellow <b>210-137</b>	50 (5 x 10)



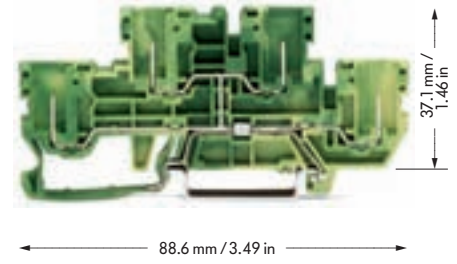
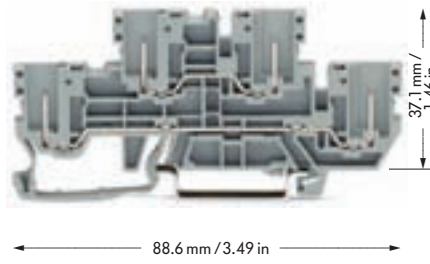
# X-COM®-SYSTEM

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

### Series 870

	<b>500 V/6 kV/3 ①</b> <b>I<sub>N</sub> 16 A</b> <b>Terminal block width 5 mm / 0.197 in</b>	<b>Terminal block width 5 mm / 0.197 in</b>
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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
<b>2-pin/2-pin double deck receptacle terminal block</b> , suitable for DIN 35 rail	<b>Through/through terminal blocks</b> , housing color grey			
	L/L	<b>870-151</b>	50	
<b>4-pin double deck receptacle terminal block</b> , suitable for DIN 35 rail				<b>4-pin ground (earth) conductor terminal block</b> , internal commoning, housing color green-yellow
				PE
			<b>870-157</b>	50

**Accessories**

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

	<b>End and intermediate plate</b>	1 mm/0.039 in thick		1 mm/0.039 in thick			
	grey	<b>870-168</b>	100 (4 x 25)	grey	<b>870-168</b>	100 (4 x 25)	
	orange	<b>870-169</b>	100 (4 x 25)	orange	<b>870-169</b>	100 (4 x 25)	
	<b>Push-in type jumper bars</b> , light grey, insulated, I <sub>N</sub> 18 A	2-way	<b>870-402</b>	200 (8 x 25)	2-way	<b>870-402</b>	200 (8 x 25)
		3-way	<b>870-403</b>	200 (8 x 25)	3-way	<b>870-403</b>	200 (8 x 25)
		4-way	<b>870-404</b>	200 (8 x 25)	4-way	<b>870-404</b>	200 (8 x 25)
		5-way	<b>870-405</b>	100 (4 x 25)	5-way	<b>870-405</b>	100 (4 x 25)
		:	:		:	:	
		10-way	<b>870-410</b>	100 (4 x 25)	10-way	<b>870-410</b>	100 (4 x 25)
	<b>Push-in type jumper bars</b> , light grey, insulated, I <sub>N</sub> 18 A	from 1 to 3	<b>870-433</b>	200 (8 x 25)	from 1 to 3	<b>870-433</b>	200 (8 x 25)
		from 1 to 4	<b>870-434</b>	200 (8 x 25)	from 1 to 4	<b>870-434</b>	200 (8 x 25)
		from 1 to 5	<b>870-435</b>	100 (4 x 25)	from 1 to 5	<b>870-435</b>	100 (4 x 25)
		:	:		:	:	
		from 1 to 10	<b>870-440</b>	100 (4 x 25)	from 1 to 10	<b>870-440</b>	100 (4 x 25)
	<b>Miniature WSB quick marking card</b> , 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			
	<b>1-connector female plug</b> , straight	see Full Line Catalog W4 Volume 1, Section 9		see Full Line Catalog W4 Volume 1, Section 9			
	<b>1-connector female plug</b> , 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 mm<sup>2</sup>   AWG 28 – 12 500 V/6 kV/3 ①   300/600 V, 10/5 A ② I<sub>N</sub> 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 mm<sup>2</sup>   AWG 28 – 12 500 V/6 kV/3 ①   300/600 V, 10/5 A ② I<sub>N</sub> 32 A**</p> <p>Module width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p>	<p>0.08 – 4 mm<sup>2</sup>   AWG 28 – 12 500 V/6 kV/3 ①   300/600 V, 10/5 A ② I<sub>N</sub> 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><b>Miniature adjacent jumper,</b> insulated, I<sub>N</sub> 24 A, grey, suitable for 1-conductor female plugs 769-402 100 (4 x 25)</p>								

\* Further approvals with corresponding ratings can be found at [www.wago.com](http://www.wago.com)  
\*\* Current-carrying capacity curves and accessories see Full Line Catalog W4 Volume 1, Section 9




<p>0.08 – 4 mm<sup>2</sup> 500 V/6 kV/3 Ⓛ I<sub>N</sub> 32 A**</p> <p>AWG 28 – 12 300/600 V, 10/5 A 300 V, 10 A Ⓛ</p> <p>Module width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>*  </p>	<p>0.08 – 4 mm<sup>2</sup> 500 V/6 kV/3 Ⓛ I<sub>N</sub> 32 A**</p> <p>AWG 28 – 12 300/600 V, 10/5 A 300 V, 10 A Ⓛ</p> <p>Module width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>*  </p>	<p>0.08 – 4 mm<sup>2</sup> 500 V/6 kV/3 Ⓛ I<sub>N</sub> 32 A**</p> <p>AWG 28 – 12 300/600 V, 10/5 A 300 V, 10 A Ⓛ</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 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
1-conductor/1-pin receptacle terminal block, blue suitable for DIN 35 rail acc. to EN 60715			2-conductor/1-pin receptacle terminal block, blue suitable for DIN 35 rail acc. to EN 60715			2-conductor/2-pin receptacle terminal block, blue suitable for DIN 35 rail acc. to EN 60715		
	769-176/000-006	100		769-251/000-006	50		769-171/000-006	50
<p>Ⓛ 500 V = rated voltage 6 kV = rated surge voltage 3 = pollution degree</p>								
<p><b>Adjacent jumper,</b></p> <p> insulated, I<sub>N</sub> 24 A, grey</p> <p><b>280-402</b> 200 (8 x 25)</p>								
<p><b>Alternate jumper,</b></p> <p>insulated, I<sub>N</sub> 24 A, grey</p> <p><b>280-409</b> 100 (4 x 25)</p>								




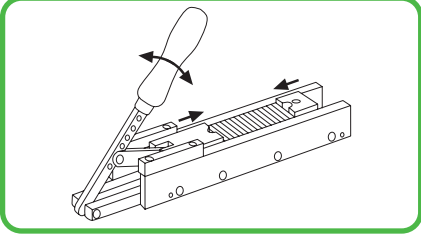
# 9 X-COM®-SYSTEM Female Plugs for Self-Assembly

VOLUME 1

0.08 – 4 mm<sup>2</sup> | AWG 28 – 12  
 500 V/6 kV/3 ①  
 I<sub>N</sub> 32 A\*\*  
 Module width 5 mm / 0.197 in  
 8 – 9 mm / 0.33 in

0.08 – 4 mm<sup>2</sup> | AWG 28 – 12  
 500 V/6 kV/3 ①  
 I<sub>N</sub> 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
	<b>1-conductor base module with integrated end plate</b>			<b>2-conductor base module with integrated end plate</b>		
	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
	<b>1-conductor center module</b>			<b>2-conductor center module</b>		
	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
	<b>1-conductor end module</b>			<b>2-conductor end module</b>		
	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
	<b>Mounting tool</b>			<b>Mounting tool</b>		
		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 mm<sup>2</sup>   AWG 28 – 12                  500 V/6 kV/3 ①                  I<sub>N</sub> 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
<b>1-conductor base module, 45° angled, with integrated end plate</b>		
grey	769-512	250
blue	769-512/000-006	250
green-yellow	769-512/000-016	250
<b>1-conductor end module, 45° angled</b>		
grey	769-513	250
blue	769-513/000-006	250
green-yellow	769-513/000-016	250
<b>1-conductor end module, 45° angled</b>		
grey	769-515	250
blue	769-515/000-006	250
green-yellow	769-515/000-016	250
<b>Mounting tool</b>		
	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)**

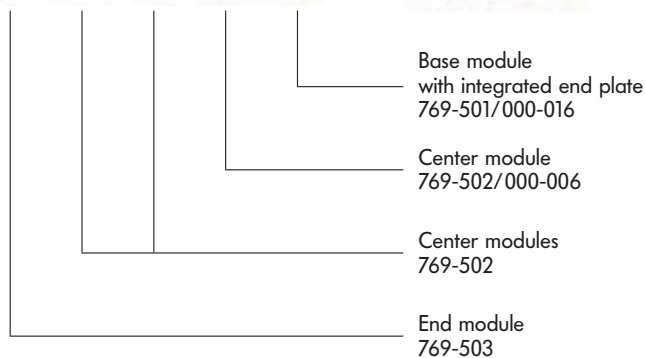
According to the "norm", connectors should be inserted and disengaged off load. This is why pre-mating the ground (earth) contact is required when connectors need to be connected or disengaged "under load".

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**



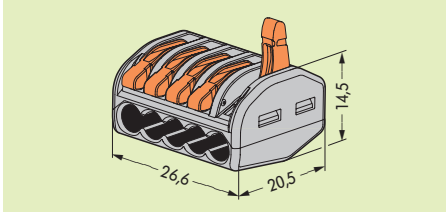
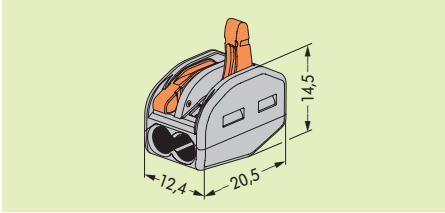
# Compact Connector for Flexible Conductors Series 222

VOLUME 1

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



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



### Compact connector

It clamps up to to 5 stripped flexible wires of 0.08 mm<sup>2</sup>/AWG 28 to 4 mm<sup>2</sup>/AWG 12 or solid or stranded wires up to 2.5 mm<sup>2</sup>/AWG 14, without tools.

### This is how it works:

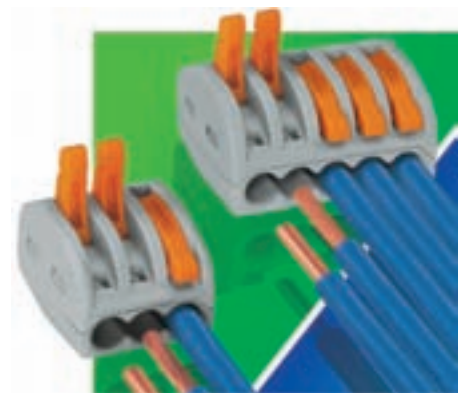
Open the clamping point using one of the small orange colored levers so that the lever engages and keeps the clamping point in its open position. The wire can now be inserted, then the lever can be returned to its rest position, flush with the terminal block housing.

### 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.



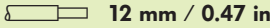
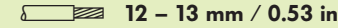
\* You can find approvals on the Internet at [www.wago.com](http://www.wago.com).  
 \*\* in grounded (earthed) supply systems

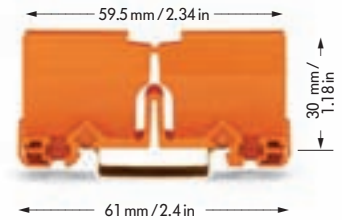
# Mounting Carrier and Push-Wire Connectors for Junction Boxes Series 773

**PUSH WIRE®**

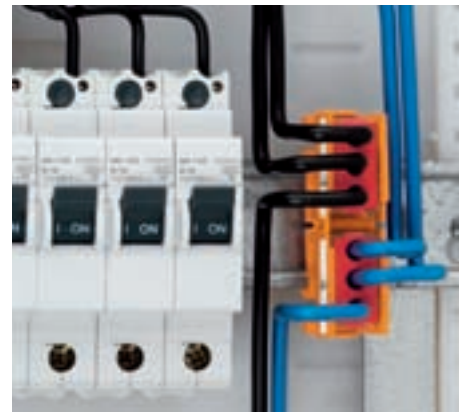
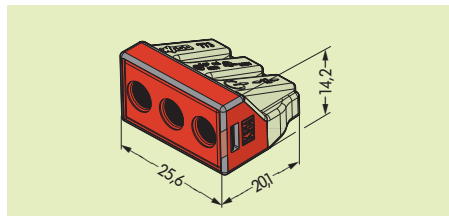
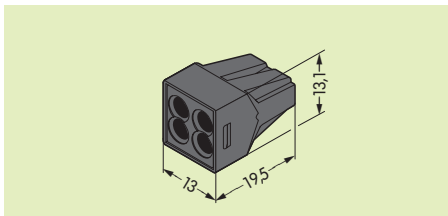
**10**

VOLUME 1

4 x 0.75 – 2.5 mm <sup>2</sup> "s" 4 x 1.5 – 2.5 mm <sup>2</sup> "str." 400 V / 4 kV / 2** I <sub>N</sub> 24 A	4 x AWG 18 – 12 "sol." 4 x AWG 16 – 12 "str." 600 V, 20 A	3 x 2.5 – 6 mm <sup>2</sup> "s" 400 V / 4 kV / 2** I <sub>N</sub> 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
<b>Push-wire connector for junction boxes,</b>		<b>Push-wire connectors for junction boxes,</b>		<b>Mounting carrier</b>	
3-wire connector, black,		3-wire connector, color of housing transparent,		orange	<b>773-332</b>
max. continuous service temperature 150 °C		color of cover red		<b>Marker strips,</b>	
<b>773-514</b>	1000 (10 x 100)	<b>773-173</b>	500 (10 x 50)	plain	<b>210-334</b>
					1 card



### For time and cost saving push-in wiring up to 6 mm<sup>2</sup> 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 mm<sup>2</sup>), the new 3-conductor push wire connector expands the range of wire sizes up to AWG 10 (6 mm<sup>2</sup>) 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 mm<sup>2</sup>) conductor in a junction box, changing from or to AWG 10 (6 mm<sup>2</sup>) wire size.



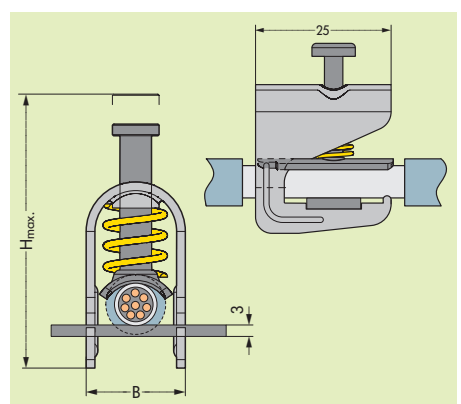
# Shield (Screen) Clamps, Carrier with Grounding Foot Series 790, 791

<p><b>Shield (Screen) Clamps</b></p> <p><b>Note:</b> Cannot be used for the connection of ground (earth) conductors!</p>	<p><b>Carrier with grounding foot</b></p>	<p><b>Carrier with grounding foot</b></p>
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			Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>Shield (screen) clamps</b>				<b>Carrier w. grounding foot,</b>		<b>Carrier w. grounding foot,</b>	
		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 <sub>max</sub>	B						
40 mm	10 mm	1.5 mm to 6.5 mm	<b>791-107</b>	15 mm long/0.59 in	<b>790-110</b>	45 mm long/1.772 in	<b>790-114</b>
					25		25
47 mm	17 mm	5 mm to 11 mm	<b>791-111</b>				
63 mm	23 mm	10 mm to 17 mm	<b>791-117</b>	<b>Carrier w. grounding foot,</b>			
78 mm	30 mm	16 mm to 24 mm	<b>791-124</b>	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	<b>790-112</b>		
					25		

**Dimensions (in mm), Application notes**



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

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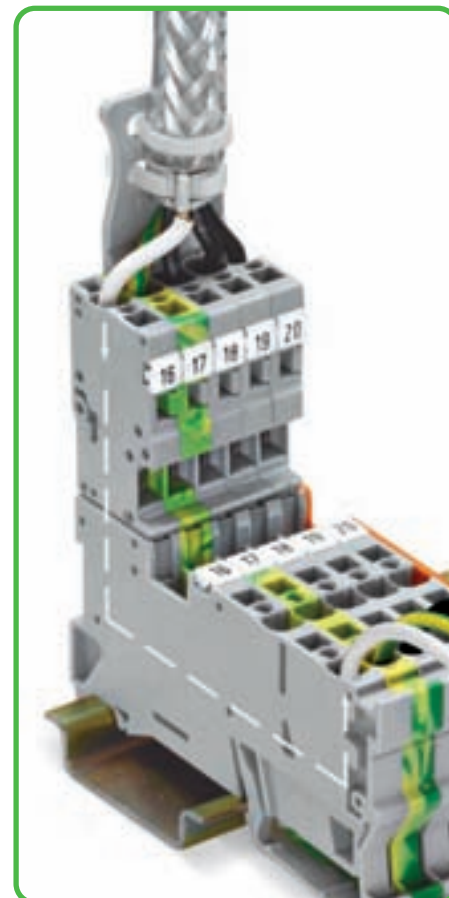
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>Busbar Carrier</b> for busbars Cu 10 mm x 3 mm		<b>Busbar Carrier</b> for busbars Cu 10 mm x 3 mm		<b>Shield termination</b> including cable tie for shield diameter	
<b>790-300</b>		<b>790-301</b>		5 mm / 0.197 in to 10 mm / 0.394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



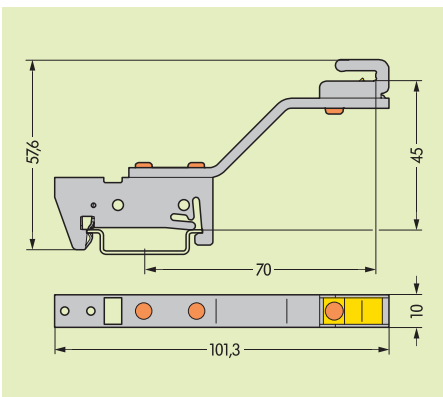
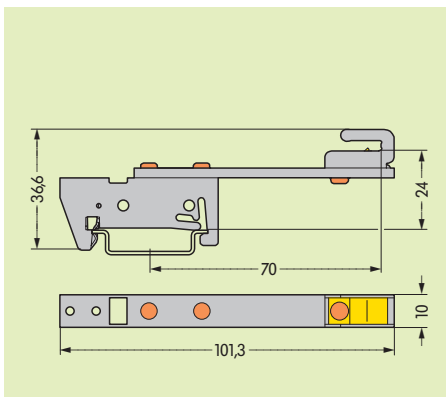
Remove the busbar carrier using a screwdriver (blade width 5.5 mm / 0.217 in)



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



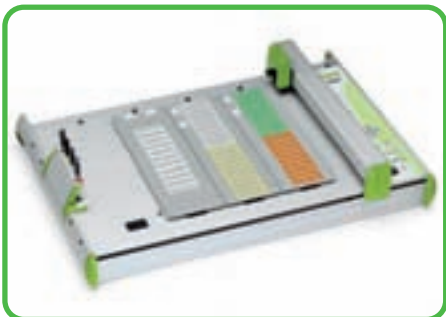
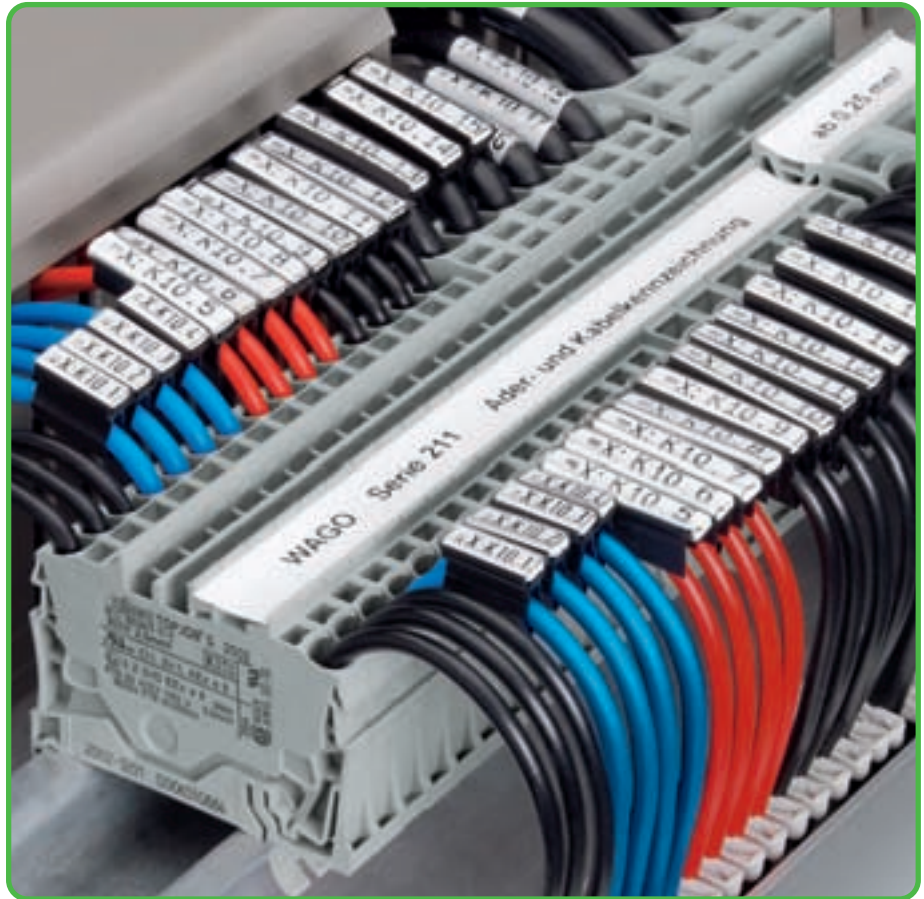
Remove the thermal transfer printed marker card  
from the roll ...



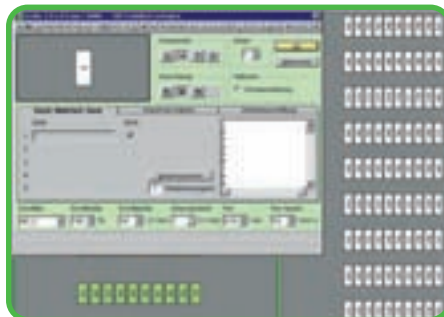
Slide the plotted marker card into the marking  
sleeve receptacle. Changing the marking is also  
possible after the wire has been connected



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 mm<sup>2</sup> to 16 mm<sup>2</sup>)

Wire marking sleeve, halogen-free for marker card, for wires ranging from AWG 24 to 4 (0.25mm<sup>2</sup> to 16 mm<sup>2</sup>) (to be fitted before wire connection)

Wire marking sleeve, halogen-free for marker card, for wires ranging from AWG 24 to 4 (0.25mm<sup>2</sup> to 16 mm<sup>2</sup>) (to be fitted before wire connection)



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

## Cable Marking

<p><b>Cable marking sleeve, halogen-free for marker card, for wire sizes from AWG 8 (10 mm<sup>2</sup>) for cable tie (can also be fitted subsequently)</b></p>	<p><b>Self-laminating labels on DIN A4 sheets or roll for cable marking.</b></p> <p><b>Cable diameter approx. 3 mm/0.118 in – 14 mm/0.55 in</b></p>	
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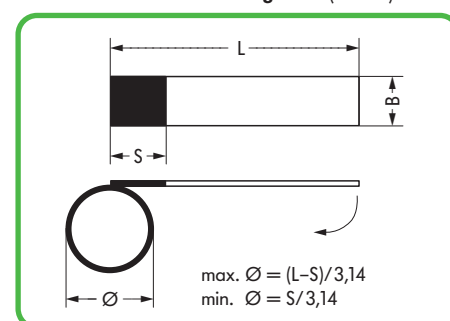


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>Marking sleeve, for cable tie</b> 23 mm long /0.9 in		<b>Labels on DIN A4 sheets</b> for <b>laser printer</b>	
for wires from AWG 8 (10 mm <sup>2</sup> )		Marker surface "S" = 9 mm x "B" = 17 mm "L" = 35 mm	
<b>211-129</b>	1000	for max. cable Ø 8 mm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

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

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

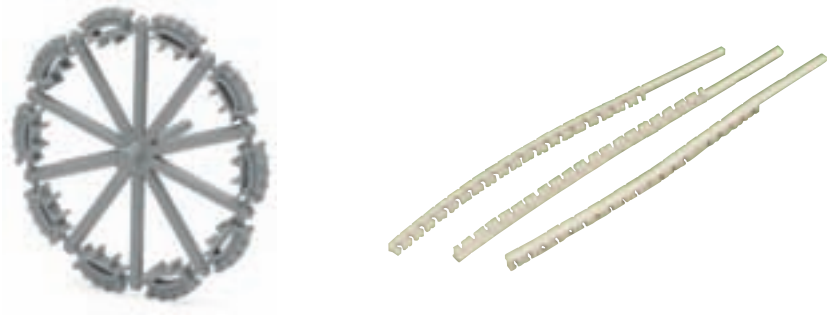
### Dimensions of self-laminating label (in mm)



# Marker carriers for WCB Combi Marking System

VOLUME 1

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



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



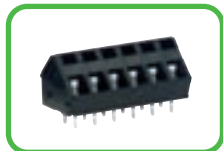
# Contents

## 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



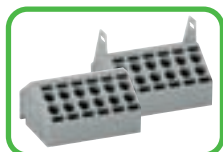
Terminal strips for PCBs – Reflow  
Pin spacing 5 mm/0.197 in  
Pin spacing 2.5 mm/0.098 in  
Pin spacing 3.5 mm/0.138 in

Series 236 55  
Series 250 55  
Series 250 55



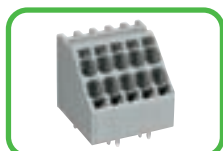
Terminal strips with “internal commoning”  
Pin spacings 5 mm/0.197 in,  
7.5 mm/0.295 in; 2.5 mm<sup>2</sup>/AWG 14

Series 804 57



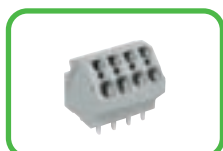
2-conductor female connector strips  
with CAGE CLAMP<sup>®</sup>S connection  
1.5 mm<sup>2</sup>/AWG 16

Series 806 58



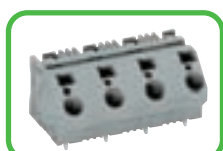
2-conductor modular terminal blocks and terminal strips  
with CAGE CLAMP<sup>®</sup>S connection  
Pin spacing 75 mm/0.295 in;  
6 (10) mm<sup>2</sup>/AWG 10

Series 746 59



Modular terminal blocks and terminal strips without jumper slot  
with CAGE CLAMP<sup>®</sup> connection  
Pin spacing 5 mm/0.197 in; 4 mm<sup>2</sup>/AWG 12  
Pin spacing 7.5 mm/0.295 in; 4 mm<sup>2</sup>/AWG 12  
Pin spacing 10 mm/0.394 in; 4 mm<sup>2</sup>/AWG 12  
Pin spacing 12.5 mm/0.492 in; 4 mm<sup>2</sup>/AWG 12

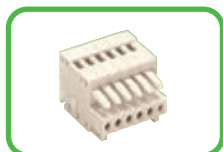
Series 745 60  
Series 745 60 – 61  
Series 745 60 – 61  
Series 745 60 – 61



Modular terminal blocks with spacers 6 mm<sup>2</sup>  
Pin spacing 7.5 mm/0.295 in, 10 mm/0.394 in  
Terminal strips with spacers 6 mm<sup>2</sup>/AWG 10  
Pin spacing 10 mm/0.394 in,  
12.5 mm/0.492 in, 15 mm/0.591 in

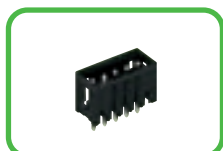
Series 745 62  
Series 745 63

### MULTI CONNECTION SYSTEM



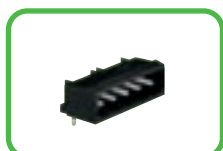
Male and female connectors  
with CAGE CLAMP<sup>®</sup> connection  
Pin spacing 2.5 mm/0.098 in

Series 733 64



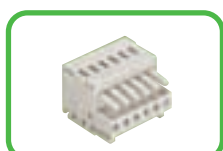
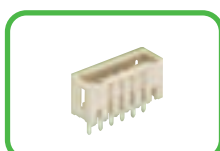
Headers with solder pins – Reflow  
Pin spacing 3.5 mm/0.138 in

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

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

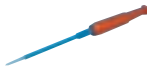
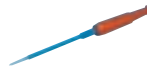


# PCB Terminal Strips for THR Soldering

## Terminal Strips with Locking Slide 0.5 mm<sup>2</sup>/AWG 20

### Pin spacings 2.5 mm and 2.54 mm; Series 218

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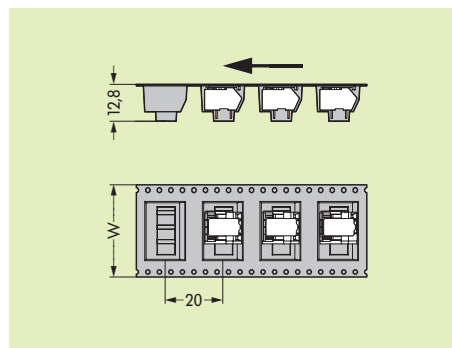
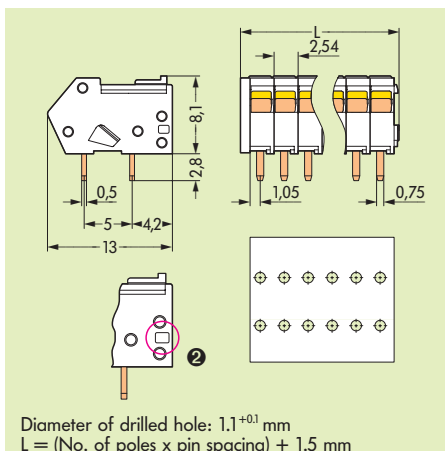
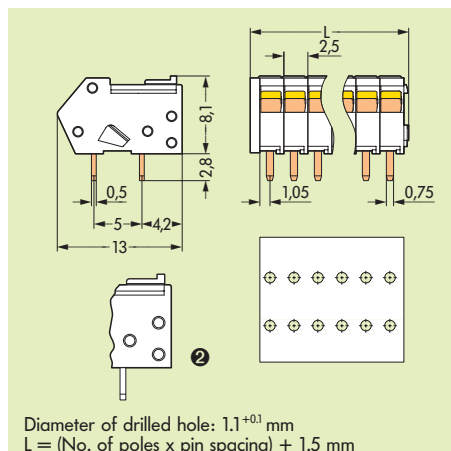


No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Width of reel (W)
<b>1-conductor terminal strips with locking slide, 2 solder pins/pole in line, black, locking slide, white</b>			<b>1-conductor terminal strips with locking slide, 2 solder pins/pole in line,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



Terminal strips with white printing upon request

#### Dimensions (in mm)



- ① in adjacent positions 0.75 mm<sup>2</sup>/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](http://www.wago.com)



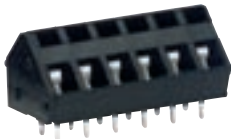
# PCB Terminal Strips for THR Soldering Series 236 and Series 250

CAGE CLAMP®

1

VOLUME 2

<b>Pin spacing 5/ 0.197 in</b> 0.08 – 2.5 mm <sup>2</sup>   AWG 28 – 12** 200 V/4 kV/3, I <sub>N</sub> 16 A   300 V, 15 A 320 V/4 kV/2, I <sub>N</sub> 16 A 5 – 6 mm / 0.22 in *	<b>Pin spacing 2.5 mm / 0.098 in</b> 0.4 – 0.8 mm Ø "s"    AWG 26 – 20 "sol." 250 V/2.5 kV/2   300 V, 5 A I <sub>N</sub> 2 A 8.5 – 9.5 mm / 0.35 in *	<b>Pin spacing 3.5 mm / 0.138 in</b> 0.5 – 1.5 mm <sup>2</sup> "s+f-st"   AWG 20 – 16 "sol." 400 V/4 kV/2   300 V, 5 A I <sub>N</sub> 2 A 8.5 – 9.5 mm / 0.35 in *
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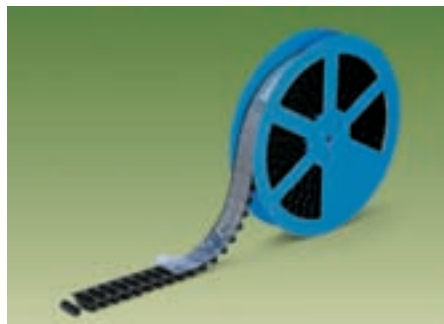
No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs	No. of poles	Item No.	Pack. unit pcs
<b>Terminal strips, reflow soldering technology, 2 solder pins / pole, black</b>			<b>Terminal strips with push-button, reflow soldering technology, 1 solder pin/pole staggered, black, with test slot for test pin up to 1.3 mm Ø</b>			<b>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</b>		
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 <sup>2</sup> – 0.5 mm <sup>2</sup> "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

	<b>Operating tools ①,</b>			<b>Test pin, Ø 1 mm/0.039 in</b>		<b>Test pin, Ø 1 mm/0.039 in</b>
	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.

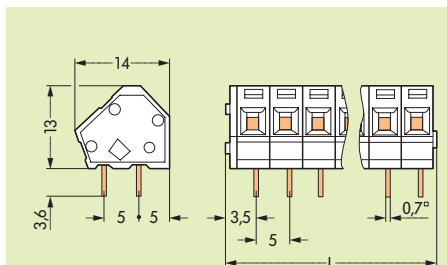
The new terminal blocks are simply pushed into the solder paste filled PCB holes and then soldered along with the SMT components. The previous wave soldering process is no longer necessary. The result is a perfect connection both from the mechanical and the electrical point of view.



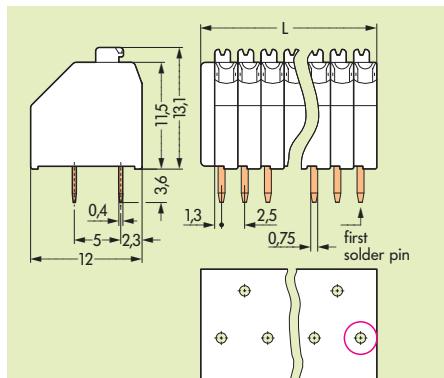
Packings for pick and place applications on request



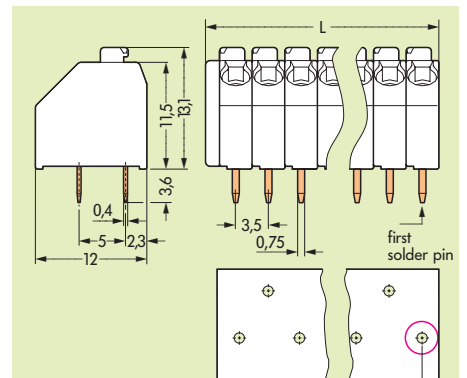
## Dimensions (in mm)



L = (No. of poles x pin spacing) + 2.3 mm  
 Diameter of metal plated hole 1.1<sup>+0.1</sup> 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<sup>+0.1</sup> 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<sup>+0.1</sup> mm  
 optimised for PCB width of up to 2 mm

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

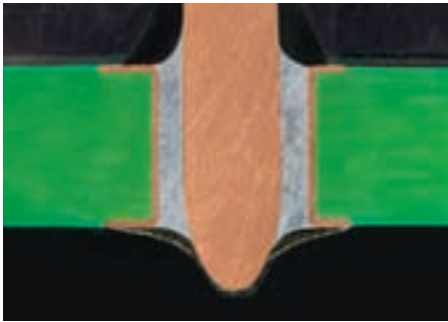
# 1 Reflow Soldering

VOLUME 2

## THR (Through-Hole-Reflow)

Design and application recommendations for the THR solder process

## The THR preparation and solder process

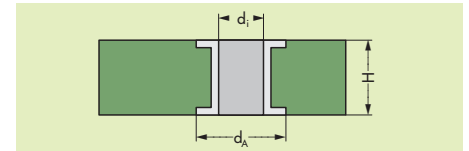


In the manufacture of electronic products, **Surface Mount Technology** has led to a rapid rise in productivity.

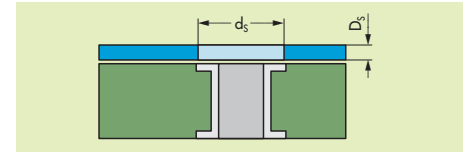
The integration of classic electromechanical components such as connectors or PCB terminal blocks into the reflow soldering process offers even more potential for economy.

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.

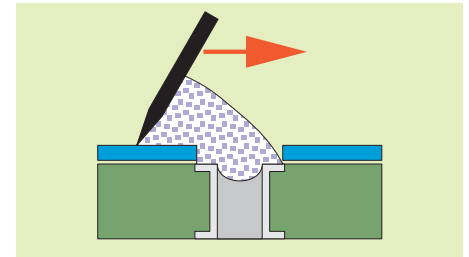
Metal plated PCB bore hole



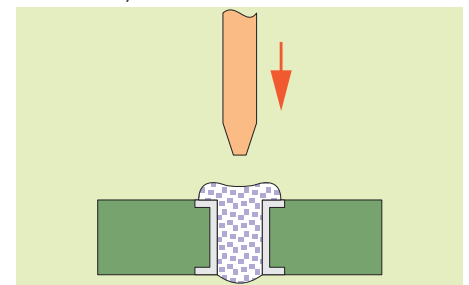
SMD positioning pattern



Application of solder paste



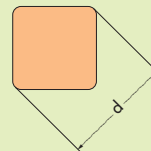
Component assembly automatic / by hand



### THR product series

Series	$d_i$ (mm)	$d_A$ (mm)	H(mm)	$d_s$ (mm)	$D_s$ ( $\mu$ 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

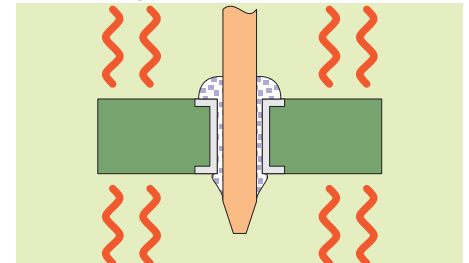


Solder pin

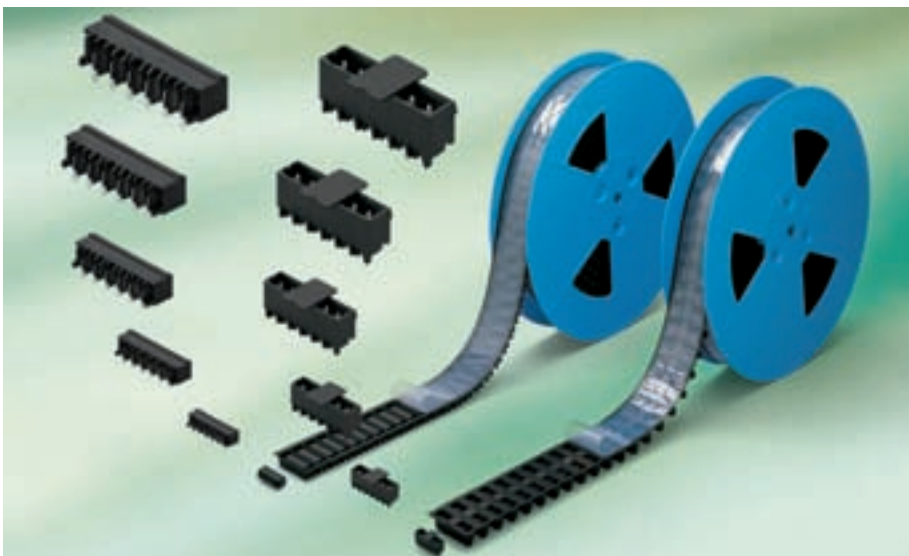
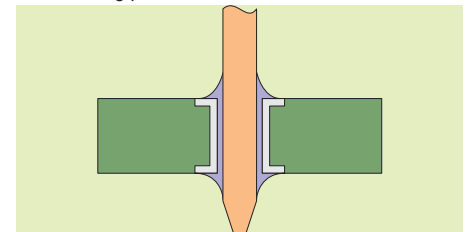
\* When laying out the metal plated bore holes, consider the requirements of air and creepage distances of the equipment standards.

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 mm<sup>2</sup>/AWG 14

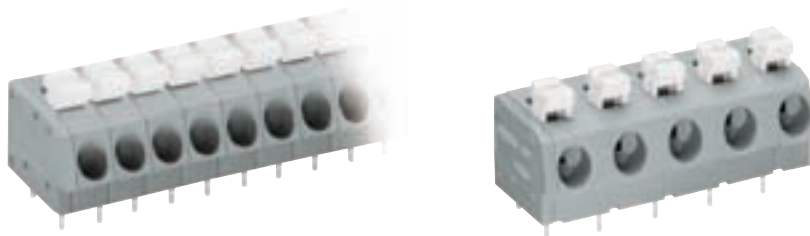
## Pin spacings 5 mm/0.197 in and 7.5 mm/0.295 in; Series 804



CAGE CLAMP®






1

VOLUME 2

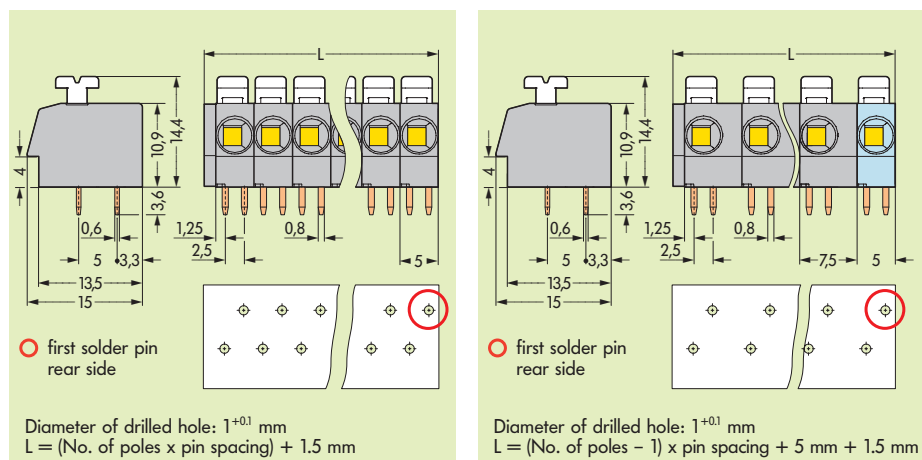
<b>Pin spacing 5 mm / 0.197 in</b> 0.5 – 2.5 mm <sup>2</sup> „s+f-st“   AWG 20 – 12 „s+f-st“ 250 V/4 kV/3; I <sub>N</sub> 16 A   300 V, 10 A  500 V/4 kV/2; I <sub>N</sub> 16 A    10 – 11 mm / 0.41 in * 	<b>Pin spacing 7.5 mm / 0.295 in</b> 0.5 – 2.5 mm <sup>2</sup> „s+f-st“   AWG 20 – 12 „s+f-st“ 400 V/6 kV/3; I <sub>N</sub> 16 A   300 V, 10 A  800 V/6 kV/2; I <sub>N</sub> 16 A    10 – 11 mm / 0.41 in * 	<b>Accessoires</b>  <b>Internal commoning</b>
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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	
<b>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</b>			<b>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</b>			<b>Marker cards,</b>		
2	<b>804-102</b>	420 (4x 105)	2	<b>804-302</b>	320 (4x 85)		100 self-adhesive strips per card	
3	<b>804-103</b>	280 (4x 70)	3	<b>804-303</b>	220 (4x 55)			
4	<b>804-104</b>	220 (4x 55)	4	<b>804-304</b>	160 (4x 40)	Print - Pin spacing 5 mm / 0.197 in		
5	<b>804-105</b>	180 (4x 45)	5	<b>804-305</b>	120 (4x 30)	1-12 (300 x)	<b>210-331/0500-0103</b> 1 card	
6	<b>804-106</b>	140 (4x 35)	6	<b>804-306</b>	100 (4x 25)	13-24 (300 x)	<b>210-331/0500-0104</b> 1 card	
7	<b>804-107</b>	120 (4x 30)	7	<b>804-307</b>	80 (4x 20)	Print - Pin spacing 7.5 mm / 0.295 in		
8	<b>804-108</b>	100 (4x 25)	8	<b>804-308</b>	80 (4x 20)	1-16 (100 x)	<b>210-331/0750-0202</b> 1 card	
9	<b>804-109</b>	100 (4x 25)	9	<b>804-309</b>	60 (4x 15)			
10	<b>804-110</b>	80 (4x 20)	10	<b>804-310</b>	60 (4x 15)			
11	<b>804-111</b>	80 (4x 20)	11	<b>804-311</b>	60 (4x 15)			
12	<b>804-112</b>	60 (4x 15)	12	<b>804-312</b>	40 (4x 10)			
13	<b>804-113</b>	60 (4x 15)				Direct printing on request		
14	<b>804-114</b>	60 (4x 15)				<b>Test pin, Ø 1 mm/0.039 in</b>		
15	<b>804-115</b>	60 (4x 15)				 <b>735-500</b>	1	
16	<b>804-116</b>	40 (4x 10)				Test wire for sold. onto test plug		
Pin spacing 10 mm (with spacer) on request						<b>Screwdriver with partially insulated shaft,</b>		
						 3.5 x 0.4 mm / 0.137 in x 0.016 in	<b>210-620</b>	1

Additional item number for coloured terminal strips	Ordering example
red ... / <b>000-005</b> 	Terminal strip, pin spacing 5 mm / 0.197 in, 8 poles,
blue ... / <b>000-006</b> 	orange <b>804-108/000-012</b>
orange ... / <b>000-012</b> 	
light green ... / <b>000-017</b> 	
 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 commoning**  
 For example, the requirement of not routing the ground (earth) conductors over the board is met by WAGO through the "internal commoning" of 804 Series terminal strips. This way, custom terminal strips can be commoned to each other and marked at the factory.



\* Marks and approval data can be found on the Internet at [www.wago.com](http://www.wago.com).

# 2-Conductor Female Connector Strips 1.5 mm<sup>2</sup>/AWG 16 Pin Spacing 5 mm/0.197 in, Series 806

Pin spacing 5 mm / 0.197 in  
2 x 0.2 – 1.5 mm<sup>2</sup> | 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 mm<sup>2</sup> | 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

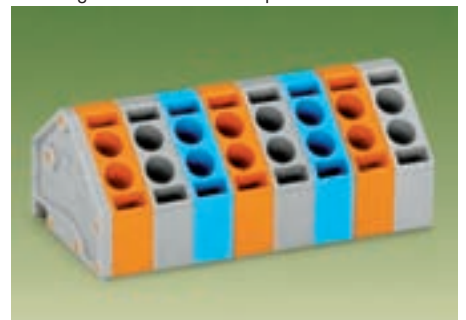
No. of poles	Item No.	No. of poles	Item No.
<b>Female connector strips, grey</b>		<b>Female connector strips with removal aid, grey</b>	
for solder pin strip		for solder pin strip	
2	806-102	2	806-202
3	806-103	3	806-203
4	806-104	4	806-204
5	806-105	5	806-205
6	806-106	6	806-206
7	806-107	7	806-207
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
<b>Accessories</b>			
<b>Solder pin strip,</b>	connector pin Ø 1.3 mm solder pin Ø 1 mm 2 to 12 poles 806-902 to 806-912	<b>Solder pin strip,</b>	connector pin Ø 1.3 mm solder pin Ø 1 mm 2 to 12 poles 806-902 to 806-912
<b>Marker card,</b>	with self-adhesive marker strips 1 – 16 (160 x) 210-332/0500-0202 1 card Direct printing on request	<b>Marker card,</b>	with self-adhesive marker strips 1 – 16 (160 x) 210-332/0500-0202 1 card Direct printing on request
<b>Dimensions (in mm)</b> Diameter of drilled hole: 1.3 mm L = No. of poles x pin spacing + 1.5 mm			



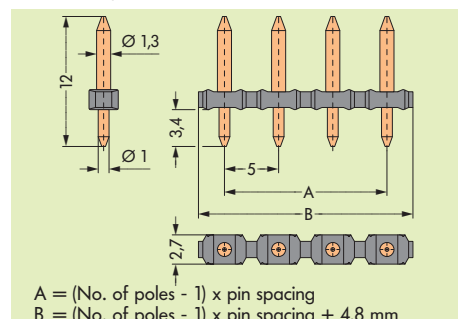
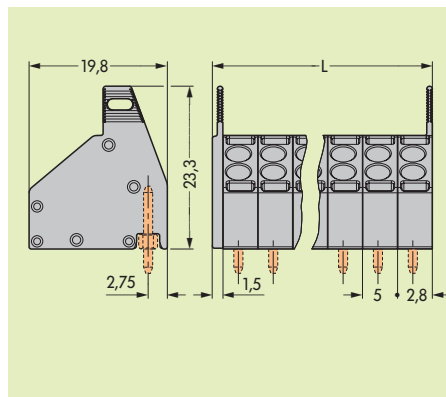
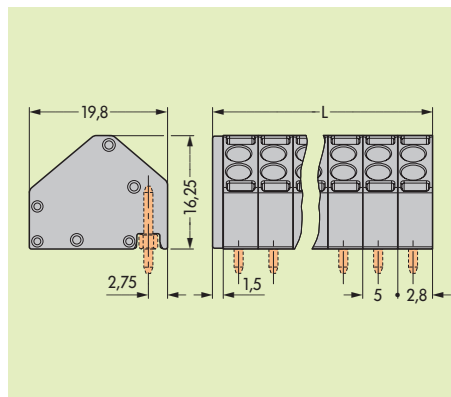
Connecting the conductor directly into the connector ...  
... or pre-assembled



Removing the terminal blocks to place the board



Terminal strip insulation housings mixed in different colors on request

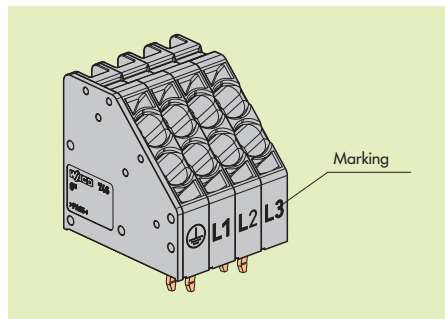


\* Further approvals with corresponding ratings can be found at [www.wago.com](http://www.wago.com)

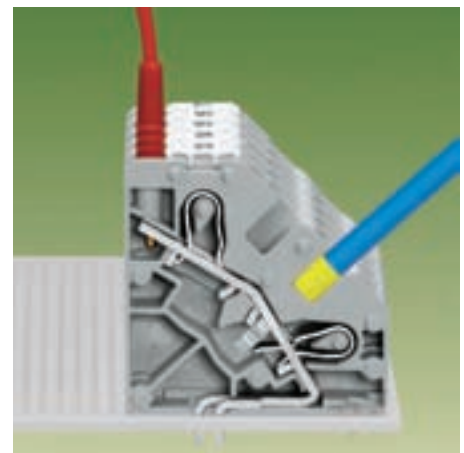
# Modular Terminal Blocks and Terminal Strips 6 mm<sup>2</sup>/AWG 10 **CAGE CLAMP® S**

<b>Pin spacing 7.5 mm / 0.295 in</b> 2 x 0.5 – 6 (10) mm <sup>2</sup> ⓐ   2 x AWG 20 – 8 400 V/6 kV/3   600 V, 50 A ⓑ I <sub>N</sub> 41 A 13 – 15 mm / 0.55 in * ⓑ		
---	--	--

ⓐ Push-in conductor sizes: 0,5 mm<sup>2</sup> – 10 mm<sup>2</sup> „e + f“;  
 AWG 16 – 8 (1,5 mm<sup>2</sup> – 10 mm<sup>2</sup>) „s“ and  
 AWG 16 – 10 (1,5 mm<sup>2</sup> – 6 mm<sup>2</sup>)  
 “insulated ferrules, 12 mm/0.472 in”





Connecting flexible wires using a screwdriver 5.5 mm

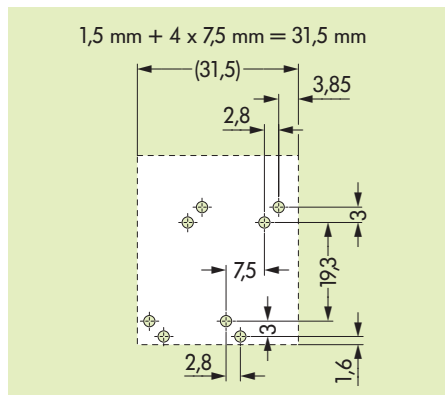
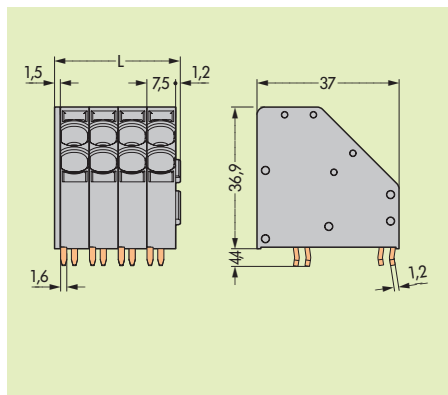


Solid wires and fine-stranded wires with ferrules can be simply pushed in  
 Testing with test plug Ø 2 mm/0.079 in





Terminal blocks of different colors upon request

No. of poles	Item No.	No. of poles	Item No.
<b>2-conductor terminal strips, grey, 2 x 2 pins / pole staggered</b>			
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 ⓐ		
green-yellow	.../000-016 ⓑ		
light green	.../000-017 ⓑ		
<b>Accessories</b> (Marking see Full Line Catalog W4 Volume 2, Section 11)			
<b>Screwdriver with partially insulated shaft</b>			
	(5.5 x 0.8) mm 210-621		
<b>Test plug</b> 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.		
<b>Dimensions (in mm)</b> Diameter of drilled hole: 2.2 <sup>+0.1</sup> mm L = No. of poles x pin spacing + 2.7 mm			





# Modular Terminal Blocks and Terminal Strips without Jumper Slot 4 mm<sup>2</sup>/AWG 12 Pin Spacing 5 mm/0.197 in; Series 745

Pin spacing 5 mm / 0.197 in  
0.08 – 4 mm<sup>2</sup> | AWG 28 – 12  
250 V/4 kV/3 | 300 V, 20 A   
I<sub>N</sub> 32 A

 8 – 9 mm / 0.33 in






\* 

Pin spacing 5 mm / 0.197 in  
0.08 – 4 mm<sup>2</sup> | AWG 28 – 12  
250 V/4 kV/3 | 300 V, 20 A   
I<sub>N</sub> 32 A

 8 – 9 mm / 0.33 in

\* 



Color	Item No.	Pack.-unit pcs
<b>Modular terminal blocks without jumper slot, 2 solder pins/pole</b>		
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



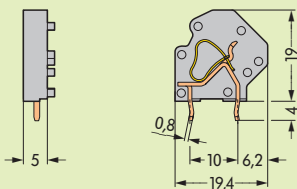
grey **745-3138**  
for extending the pin spacing

**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<sup>+0.1</sup> mm



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

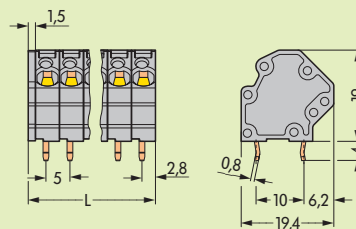


Wire connection using a screwdriver 3.5 mm / 0.138 in

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

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

**Dimensions (in mm)**



Diameter of drilled hole: 1.5<sup>+0.1</sup> mm  
L = No. of poles x pin spacing + 1.5 mm












Testing with test plug Ø 2 mm / 0.079 in

\* Further approvals with corresponding ratings can be found at [www.wago.com](http://www.wago.com)

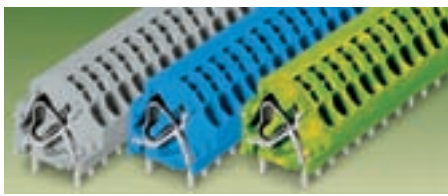





# Terminal Strips without Jumper Slot 4 mm<sup>2</sup>/AWG 12

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

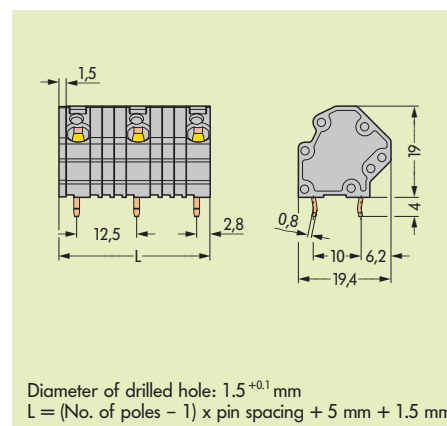
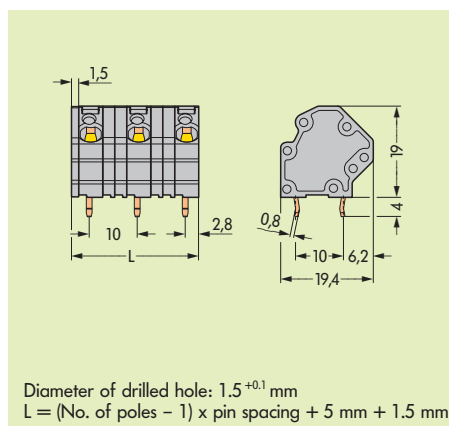
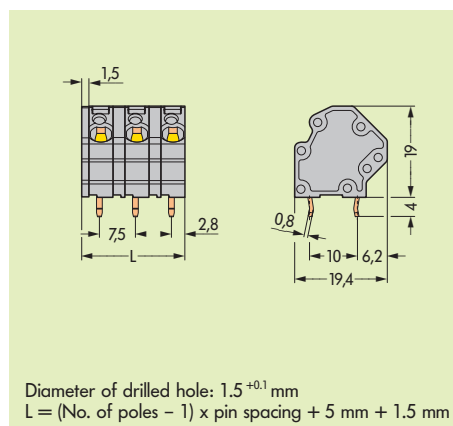
CAGE CLAMP®

<p>Pin spacing 7.5 mm / 0.295 in 0.08 – 4 mm<sup>2</sup>   AWG 28 – 12 500 V/6 kV/3   300 V, 20 A  I<sub>N</sub> 32 A</p> <p> 8 – 9 mm / 0.33 in</p> <p>* </p>	<p>Pin spacing 10 mm / 0.394 in 0.08 – 4 mm<sup>2</sup>   AWG 28 – 12 630 V/8 kV/3   300 V, 20 A  I<sub>N</sub> 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 mm<sup>2</sup>   AWG 28 – 12 630 V/8 kV/3   600 V, 20 A  I<sub>N</sub> 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.
<b>Terminal strips</b>		<b>Terminal strips</b>		<b>Terminal strips</b>	
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: <b>745-3108/000-009</b>	
		green-yellow	.../...-016 	Terminal strip pin spacing 12 mm/0.492 in	
light green	.../...-017 	12 poles, blue: <b>745-3262/000-006</b>			
		 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.)










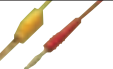


# 1 Modular Terminal Blocks 6 mm<sup>2</sup>/AWG 10, Series 745, Pin Spacings 7.5 mm / 0.295 in and 10 mm / 0.394 in

<b>Pin spacing 7.5 mm / 0.295 in</b> 0.2 – 6 mm <sup>2</sup>   AWG 24 – 10 400 V/6 kV/3   300 V, 30 A  I <sub>N</sub> 32 A  11 – 12 mm / 0.45 in * 	<b>Pin spacing 10 mm / 0.394 in</b> 0.2 – 6 mm <sup>2</sup>   AWG 24 – 10 630 V/8 kV/3   300 V, 30 A  I <sub>N</sub> 32 A  11 – 12 mm / 0.45 in * 	<b>Spacer</b>
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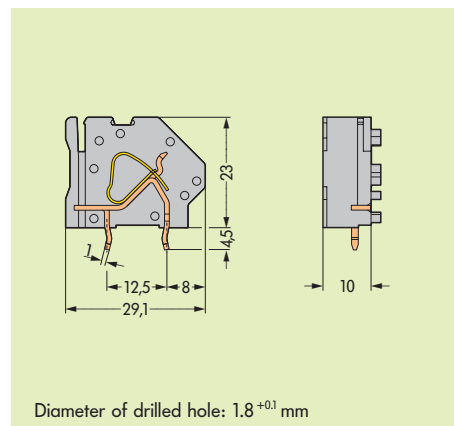
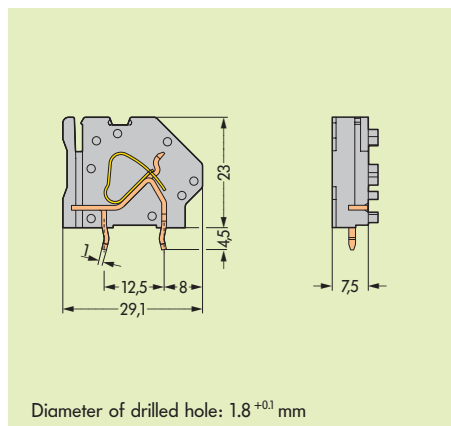
Color	Item No.	Pack.-unit pcs	Color	Item No.	Pack.-unit pcs	Color	Item No.	Pack.-unit pcs
<b>Modular terminal blocks, 2 solder pins /pole</b>			<b>Modular terminal blocks, 2 solder pins /pole</b>			<b>Spacer, 2.5 mm wide</b>		
grey	745-831 	100 (2 x 50)	grau	745-841 	100 (2 x 50)	grey	745-338	
light 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)

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



# Terminal Strips 6 mm<sup>2</sup>/AWG 10 with Spacers CAGE CLAMP®

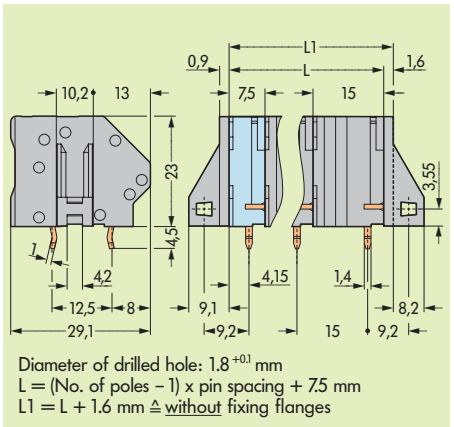
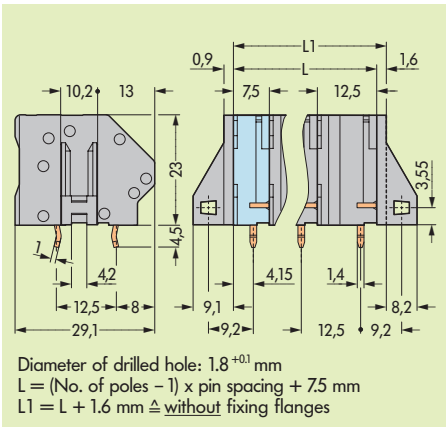
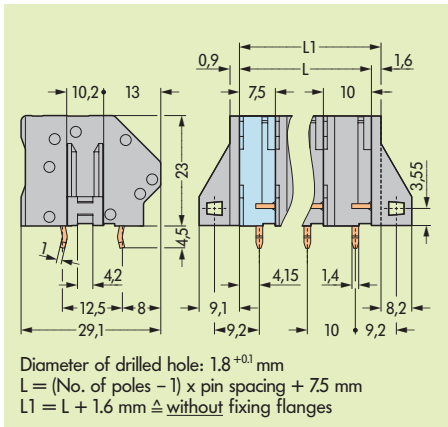
## Pin Spacings 10 mm/0.394 in, 12.5 mm/0.492 in and 15 mm/0.591 in; Series 745

<p><b>Pin spacing 10 mm / 0.394 in</b> 0.2 – 6 mm<sup>2</sup>   AWG 24 – 10 630 V/8 kV/3   300 V, 10 A   I<sub>N</sub> 32 A</p> <p> 11 – 12 mm / 0.45 in</p> <p>* </p>	<p><b>Pin spacing 12.5 mm / 0.492 in</b> 0.2 – 6 mm<sup>2</sup>   AWG 24 – 10 800 V/8 kV/3   600 V, 30 A   I<sub>N</sub> 32 A</p> <p> 11 – 12 mm / 0.45 in</p> <p>* </p>	<p><b>Pin spacing 15 mm / 0.591 in</b> 0.2 – 6 mm<sup>2</sup>   AWG 24 – 10 1000 V/10 kV/3   600 V, 30 A   I<sub>N</sub> 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
<b>Terminal strips without fixing flanges, grey, with spacers</b>			<b>Terminal strips without fixing flanges, grey, with spacers</b>			<b>Terminal strips without fixing flanges, grey, with spacers</b>		
<b>2 solder pins /pole</b>			<b>2 solder pins /pole</b>			<b>2 solder pins /pole</b>		
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: <b>745-1408/000-009</b>		
			light grey .../...-009 ○			Terminal strip with fixing flanges, pin spacing 15 mm/0.591 in		
			green-yellow .../...-016 ●			12 poles, blue: <b>745-1462/005-006</b>		
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><b>Pin spacing 2.5 mm/0.098 in, light grey</b>                  0.08 – 0.5 mm<sup>2</sup>   AWG 28 – 20                  250 V/2.5 kV/2   250 V, 4 A                  I<sub>N</sub> 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><b>Pin spacing 2.5 mm/0.098 in, light grey</b>                  0.08 – 0.5 mm<sup>2</sup>   AWG 28 – 20                  250 V/2.5 kV/2   250 V, 4 A                  I<sub>N</sub> 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><b>Pin spacing 2.5 mm/0.098 in, light grey</b>                  0.08 – 0.5 mm<sup>2</sup>   AWG 28 – 20                  250 V/2.5 kV/2   250 V, 4 A                  I<sub>N</sub> 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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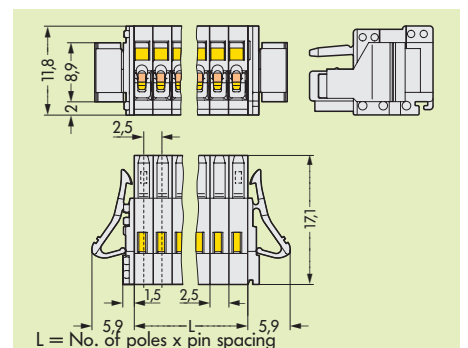
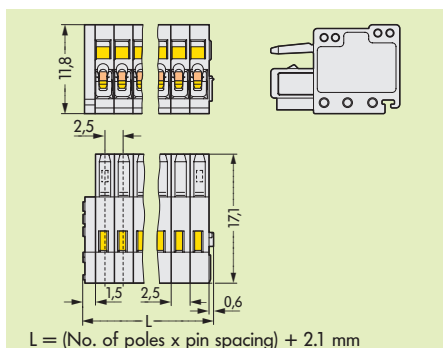
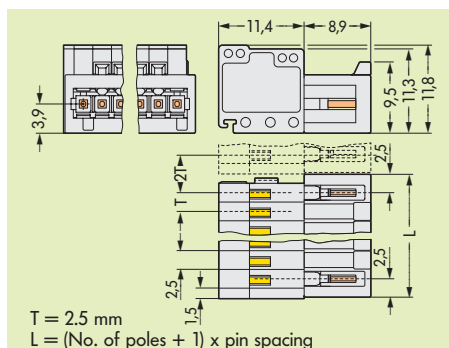


No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.
<b>Male connectors with CAGE CLAMP® connection, 100% protected against mismatching, light grey</b>		<b>Female connectors with CAGE CLAMP® connection, 100% protected against mismatching, with coding fingers, light grey</b>		<b>Female connectors with CAGE CLAMP® connection and locking levers, 100% protected against mismatching, with coding fingers, light grey</b>	
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><b>Operating tool,</b> see Full Line Catalog W4 Volume 2, Section 11</p>	<p><b>Operating tool,</b> see Full Line Catalog W4 Volume 2, Section 11</p>	<p><b>Operating tool,</b> see Full Line Catalog W4 Volume 2, Section 11</p>
<p><b>Coding key, snap-on type,</b> light grey 733-330</p>		
<p><b>Marker card,</b> 100 self-adhesive strips per card</p> <p>Marking 1 – 16 (400x) <b>210-331/0250-0202</b> For further printings Full Line Catalog W4 Volume 2, Section 11 For direct printing please contact factory</p>	<p><b>Marker card,</b> 100 self-adhesive strips per card</p> <p>Marking 1 – 16 (400x) <b>210-331/0250-0202</b> For further printings Full Line Catalog W4 Volume 2, Section 11 For direct printing please contact factory</p>	<p><b>Marker card,</b> 100 self-adhesive strips per card</p> <p>Marking 1 – 16 (400x) <b>210-331/0250-0202</b> 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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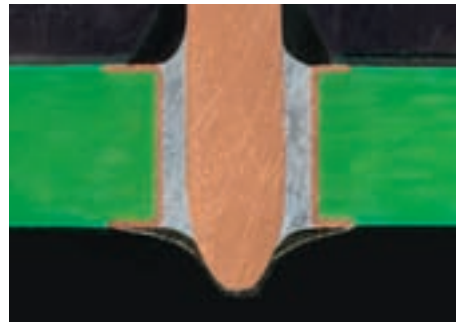
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**MULTI CONNECTION SYSTEM MINI**  
**Headers with Solder Pins, Reflow Soldering**  
**100 % Protected against Mismatching, Pin Spacing 3.5 mm/0.138 in**

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



No. of poles	Item No.	No. of poles	Item No.	Width of reel (W)
<b>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</b>		<b>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</b>		
		<b>Headers in tape on reel acc. to IEC 60286-3</b>		
		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		



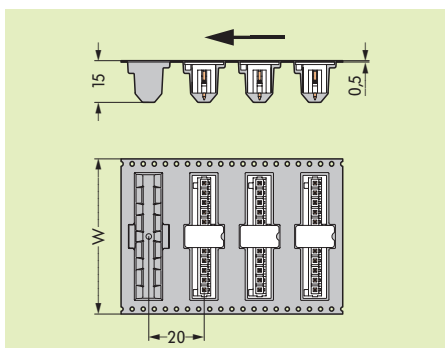
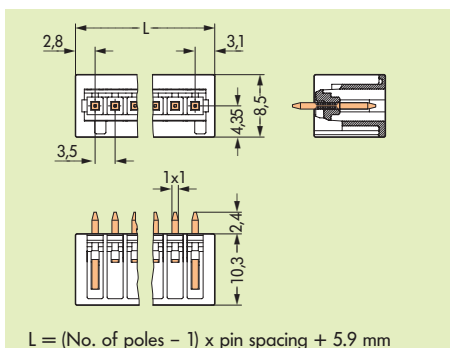
**For use in reflow soldering processes in convection ovens based on EN 61760-1**

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

**Accessories** (fit after soldering)

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

**Dimensions** Diameter of the plated through hole: 1.4<sup>+0.1</sup> 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.

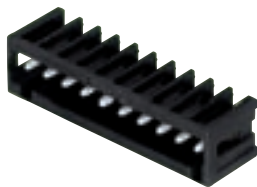
\* Further approvals with corresponding ratings can be found at [www.wago.com](http://www.wago.com)

# MULTI CONNECTION SYSTEM MINI

## Headers with Solder Pins, Reflow Soldering

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

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

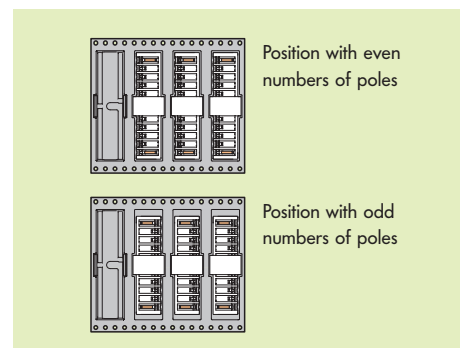
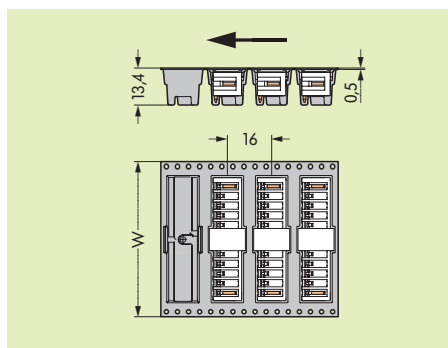
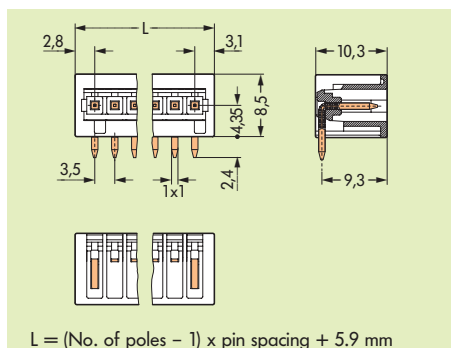


No. of poles	Item No.	No. of poles	Item No.	Width of reel (W)
<b>Headers with solder pins, 100 % protected against mismatching, black, right angle solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in</b>		<b>Headers with solder pins, 100 % protected against mismatching, black, right angle solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in</b>		
		<b>Headers in tape on reel acc. to IEC 60286-3</b>		
		Reel diameter 330 mm/13 in (mm)		
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		
<b>Accessories (fit after soldering)</b>				
	<b>Coding key, light grey, snap-on type</b> 734-130		<b>Coding key, light grey, snap-on type</b> 734-130	
<b>Dimensions</b> Diameter of the plated through hole: 1.4 <sup>+0.1</sup> mm – optimized for PCB thickness up to 2 mm				




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



# MULTI CONNECTION SYSTEM MIDI – Reflow Soldering

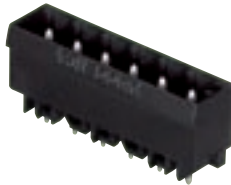
## Headers with Solder Pins, Pin Spacing 5 mm/0.197 in

Pin spacing 5 mm/0.197 in, black  
250 V/4 kV/3 | 300 V, 10 A   
I<sub>N</sub> 12 A

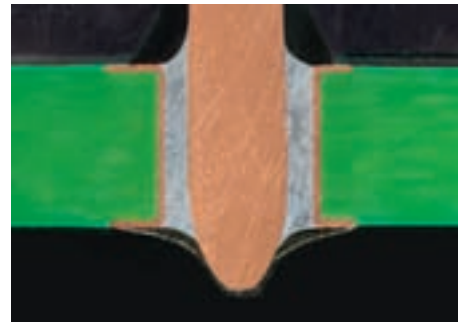
Pin spacing 5 mm/0.197 in, black  
250 V/4 kV/3 | 300 V, 10 A   
I<sub>N</sub> 12 A

\* 

\* 







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		
		<b>Headers in tape on reel acc. to IEC 60286-3</b>		
		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		



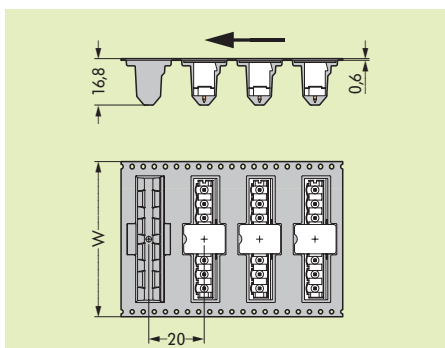
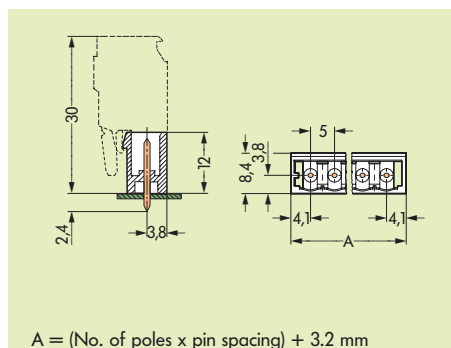
For use in reflow soldering processes in convection ovens based on EN 61760-1

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

**Accessories** (fit after soldering)

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

**Dimensions** Diameter of the plated through hole: 1.4<sup>+0.1</sup> 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](http://www.wago.com)

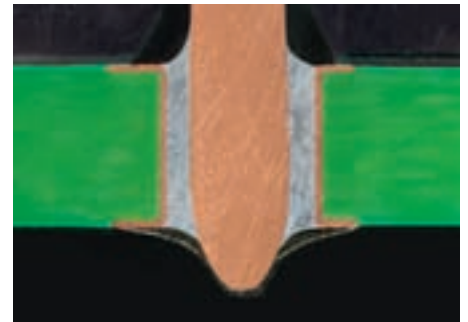
# MULTI CONNECTION SYSTEM **MIDI** – Reflow Soldering

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

<b>Pin spacing 5 mm/0.197 in, black</b> 250 V/4 kV/3 I <sub>N</sub> 12 A	<b>Pin spacing 5 mm/0.197 in, black</b> 300 V, 10 A	<b>Pin spacing 5 mm/0.197 in, black</b> 250 V/4 kV/3 I <sub>N</sub> 12 A	<b>Pin spacing 5 mm/0.197 in, black</b> 300 V, 10 A
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No. of poles	Item No.	No. of poles	Item No.	Width of reel (W)
<b>Headers with solder pins, black, right angle solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in</b>		<b>Headers with solder pins, black, right angle solder pin 1 mm x 1 mm, length of solder pin 2.4 mm/0.094 in</b>		
		<b>Headers in tape on reel acc. to IEC 60286-3</b>		
		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		

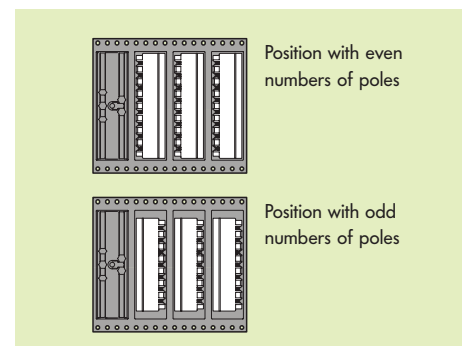
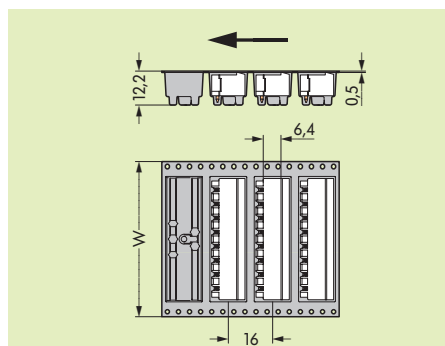
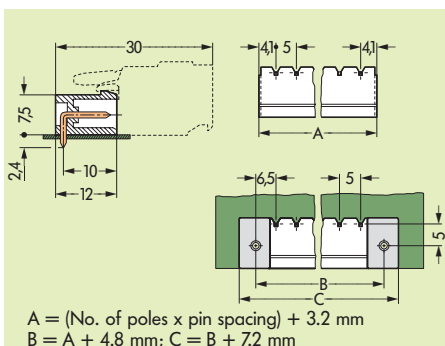


For use in reflow soldering processes in convection ovens based on EN 61760-1

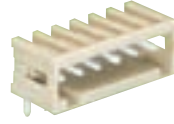
- apply solder paste
- place components on PCB
- begin reflow soldering process

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

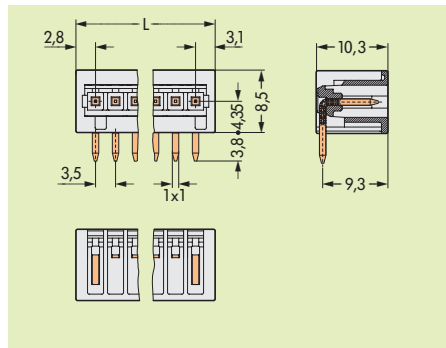
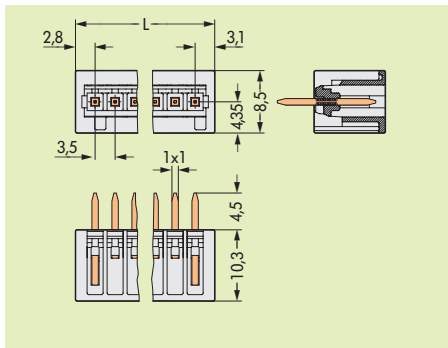
**Dimensions** Diameter of the plated through hole: 1.4<sup>+0.1</sup> mm – optimized for PCB thickness up to 2 mm



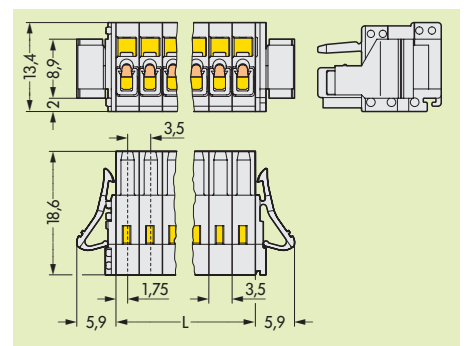
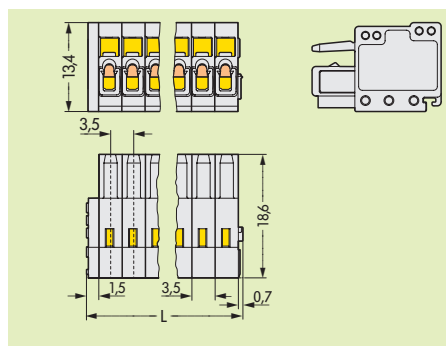
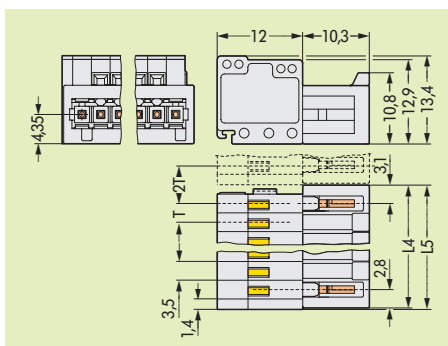
**MULTI CONNECTION SYSTEM MINI – Extension of Pole Number**  
**Connectors, 100% Protected against Mismatching**  
**Pin Spacing 3.5 mm** see also Full Line Catalog W4 Volume 2, pages 5.4 – 5.9



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



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











# 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 mm<sup>2</sup>   AWG 28 – 14** 250 V / 2.5 kV / 2   300 V, 10 A  I<sub>N</sub> 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 mm<sup>2</sup>   AWG 28 – 14** 250 V / 2.5 kV / 2   300 V, 10 A  I<sub>N</sub> 10 A</p> <p> 7 mm / 0.28 in</p> <p>* </p>	
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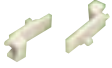



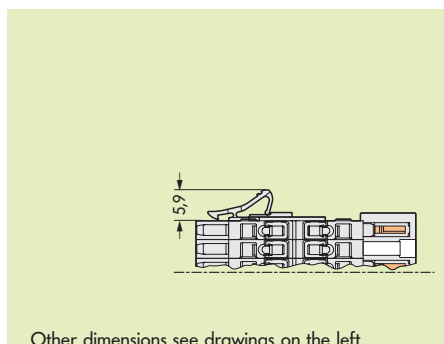
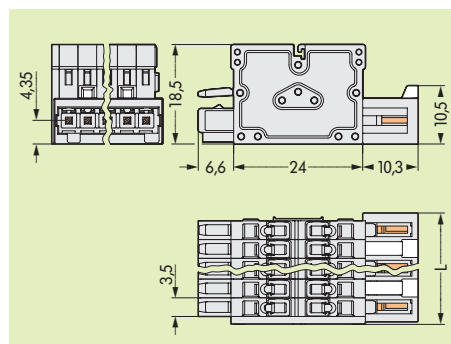
No. of poles	Item No.	No. of poles	Item No.
<b>Combi strip with CAGE CLAMP® connection, 100% protected against mismatching, pin and socket connection, with coding fingers, light grey</b>		<b>Combi strip with CAGE CLAMP® connection and locking levers, 100 % protected against mismatching, with coding fingers, light grey</b>	
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><b>Marker cards,</b></p> <p> 80 self-adhesive strips per card</p> <p>Marking</p> <p>1 – 16 (240x) <b>210-332/0350-0202</b></p> <p>17 – 32 (240x) <b>210-332/0350-0204</b></p> <p>For further printings see W4 Volume 2, Section 11</p> <p>For direct printing please contact factory</p>	<p><b>Marker cards,</b></p> <p> 80 self-adhesive strips per card</p> <p>Marking</p> <p>1 – 16 (240x) <b>210-332/0350-0202</b></p> <p>17 – 32 (240x) <b>210-332/0350-0204</b></p> <p>For further printings see W4 Volume 2, Section 11</p> <p>For direct printing please contact factory</p>
<p> <b>Screwdriver, (2.5 x 0.4) mm (0.098 x 0.016) in 210-619</b></p>	<p> <b>Screwdriver, (2.5 x 0.4) mm (0.098 x 0.016) in 210-619</b></p>
<p> <b>Coding key, snap-on type, light grey 734-130</b></p>	<p> <b>Coding key, snap-on type, light grey 734-130</b></p>
<p><b>Dimensions (in mm)</b> <math>L_4 = (\text{No. of poles} - 1) \times \text{pin spacing} + 5.9 \text{ mm} + 0.45 \text{ mm}</math></p>	



Other dimensions see drawings on the left

\* Approvals with corresponding ratings see [www.wago.com](http://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            <b>734-231</b></p>	<p>natural            <b>231-159</b></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**

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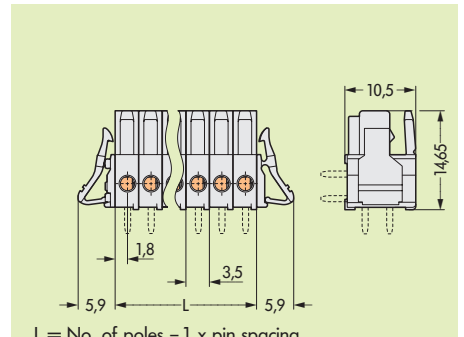
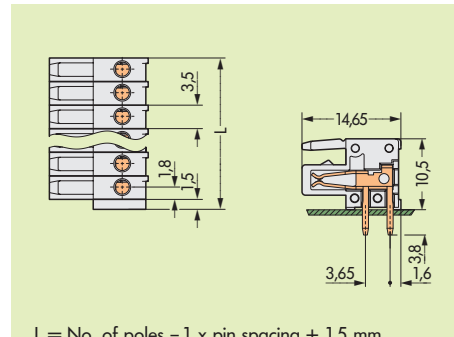
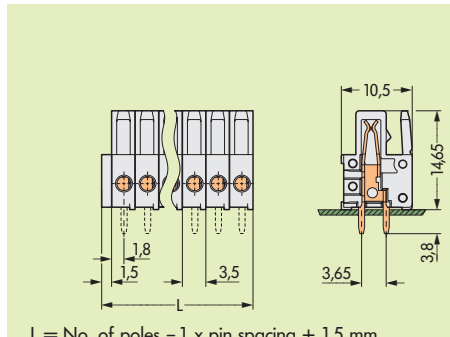


No. of poles	Item No.	No. of poles	Item No.	Additional item No. for . . .
<b>Female connectors with straight solder pins, 100 % protected against mismatching,</b> with coding fingers, with two latches, light grey, solder pin 0.9 mm x 0.9 mm		<b>Female connectors with right angle solder pins, 100 % protected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

**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) <b>210-332/0350-0202</b> 17 - 32 (240 x) <b>210-332/0350-0204</b> other markings see Full Line Catalog W4 Volume 2, Section 11 For direct printing, please contact factory	Marking 1 - 16 (240 x) <b>210-332/0350-0202</b> 17 - 32 (240 x) <b>210-332/0350-0204</b> other markings see Full Line Catalog W4 Volume 2, Section 11 For direct printing, please contact factory	Marking 1 - 16 (240 x) <b>210-332/0350-0202</b> 17 - 32 (240 x) <b>210-332/0350-0204</b> 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<sup>+0.1</sup> mm



\* Approvals with corresponding ratings see [www.wago.com](http://www.wago.com)

# MULTI CONNECTION SYSTEM **MINI**




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

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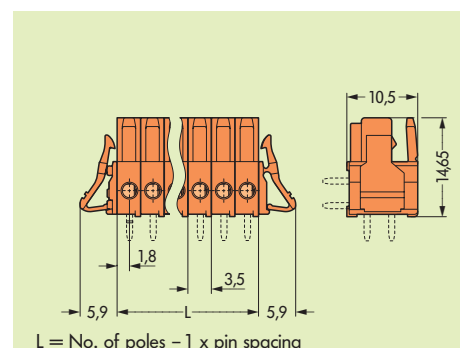
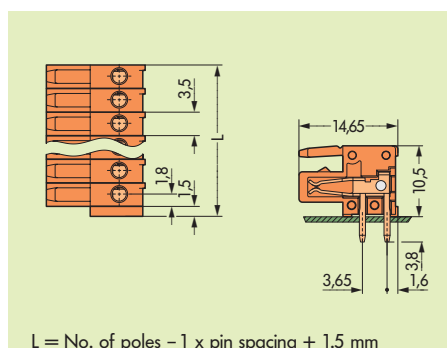
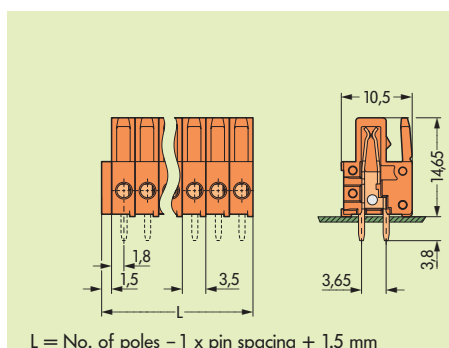


No. of poles	Item No.	No. of poles	Item No.	Additional item No. for . . .
<b>Female connectors with straight solder pins, 100% protected against mismatching, with coding fingers, with two latches, light grey, solder pin 0.9 mm x 0.9 mm</b>		<b>Female connectors with right angle solder pins, 100% protected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

### 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) <b>210-332/0381-0202</b>	1 - 16 (240 x) <b>210-332/0381-0202</b>	1 - 16 (240 x) <b>210-332/0381-0202</b>
17 - 32 (240 x) <b>210-332/0381-0204</b>	17 - 32 (240 x) <b>210-332/0381-0204</b>	17 - 32 (240 x) <b>210-332/0381-0204</b>
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<sup>+0.1</sup> mm



MULTI CONNECTION SYSTEM **MIDI**

**Angled Female Connectors, 100% Protected against Mismatching, CAGE CLAMP®**  
Pin Spacing 5 mm/0.197 in

<p>Pin spacing 5 mm/0.197 in, light grey 0.08 – 2.5 mm<sup>2</sup> AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A   I<sub>N</sub> 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 mm<sup>2</sup> AWG 28 – 12** 250 V/4 kV/3 300 V, 15 A   I<sub>N</sub> 14 A 300 V, 15 A  </p> <p> 8 – 9 mm / 0.33 in</p> <p>*  </p>
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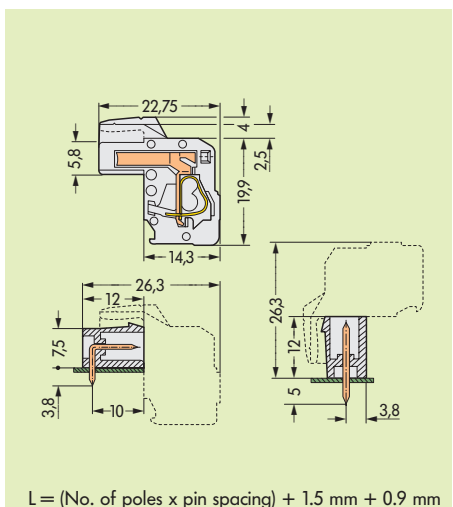
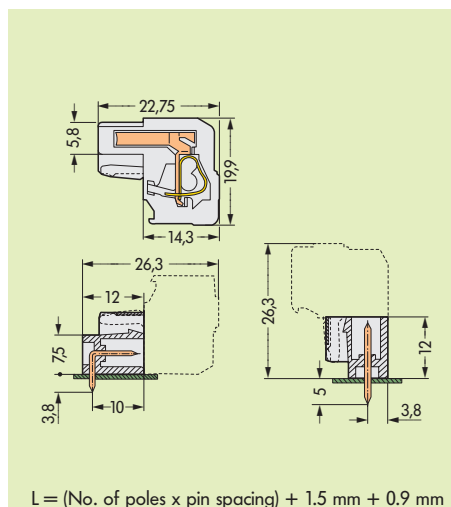


No. of poles	Item No.	No. of poles	Item No.
<b>Angled female connectors with CAGE CLAMP® connection, 100% protected against mismatching, conductor exit same direction as latches, with coding fingers, with 2 latches, light grey</b>		<b>Angled female connectors with CAGE CLAMP® connection, 100% protected against mismatching, conductor exit same direction as latches, with coding fingers, with 2 latches, light grey</b>	
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><b>Test plug, w. cable 500 mm/1'7.7"</b> Ø 2 mm/0.079 in, red <b>210-136</b> Ø 2.3 mm/0.091 in, yel. <b>210-137</b></p>	<p><b>Insulation stop, 5 pcs/strip</b> 0.08 - 0.2 mm<sup>2</sup> (white) <b>231-670</b> 0.25 - 0.5 mm<sup>2</sup> (light gr.) <b>231-671</b> 0.75 - 1 mm<sup>2</sup> (dark grey) <b>231-672</b></p> <p> 0.2 mm<sup>2</sup> solid/0.14 mm<sup>2</sup> f-st</p>	<p><b>Test plug, w. cable 500 mm/1'7.7"</b> Ø 2 mm/0.079 in, red <b>210-136</b> Ø 2.3 mm/0.091 in, yel. <b>210-137</b></p>	<p><b>Insulation stop, 5 pcs/strip</b> 0.08 - 0.2 mm<sup>2</sup> (white) <b>231-670</b> 0.25 - 0.5 mm<sup>2</sup> (light gr.) <b>231-671</b> 0.75 - 1 mm<sup>2</sup> (dark grey) <b>231-672</b></p> <p> 0.2 mm<sup>2</sup> solid/0.14 mm<sup>2</sup> f-st</p>
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**Dimensions (in mm)**







\* Approvals with corresponding ratings see [www.wago.com](http://www.wago.com)  
\*\* AWG 12: THHN, THWN

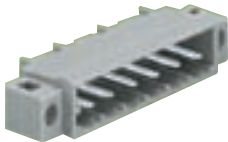
# MULTI CONNECTION SYSTEM MIDI – Extension of Pole Number



## Connectors with Right Angle Solder Pins

Pin Spacing 5 mm/0.197 in see also Full Line Catalog W4 Volume 2, page 7.15

Pin spacing 5 mm/0.197 in, light grey  
 250 V/4 kV/3 300 V, 10 A ①    
 I<sub>N</sub> 12 A ① / I<sub>N</sub> 16 A ② 300 V, 15 A ②  

\*      

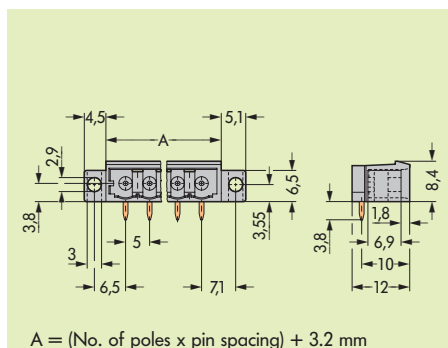


No. of poles	Item No.	Item No.
<b>Headers with right angle solder pins and fixing flanges, grey,</b>		
solder pin	1 mm x 1 mm ①	1.2 mm x 1.2 mm ②
3	231-433/040-000	231-463/040-000
Female connectors with locking devices cannot be used.		
	<b>Coding key, snap-on type, light grey</b> 231-129	
	<b>Separator, for formation of groups, light grey</b> 231-500	



**Additional mechanical safety**  
 The additional mechanical securing on the PCB or the fixing on panels/front plates in case of feedthrough applications are the main features of these headers. Depending on the wall thickness a recessed, flush or projecting mounting can be realized. Fixing of the header may be made with standard nuts and bolts (size M2 or M2.5).

**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.




**MULTI CONNECTION SYSTEM MIDI**

**Comb type jumper bars**

**Pin Spacings 5 mm / 0.197 in and 5.08 mm / 0.2 in**

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



	Item No.	Pack.-unit pcs
<b>Comb type jumper bars, insulated</b>		
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	<b>231-903</b>	
5-way	<b>231-905</b>	
7-way	<b>231-907</b>	
10-way	<b>231-910</b>	
<b>Accessories</b>		
<b>Operating tool, insulated,</b>		
	3-way <b>280-433</b>	1
	5-way <b>280-435</b>	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



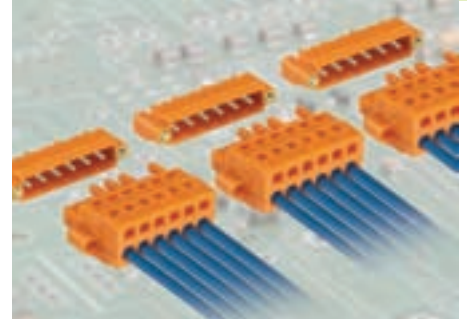
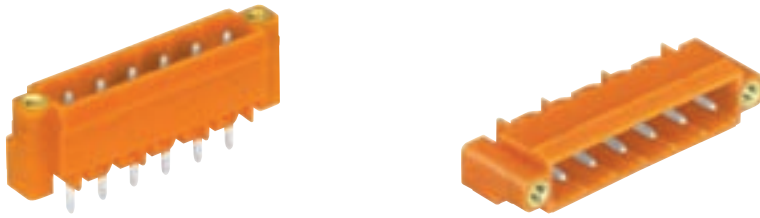
Note: The maximum wire size is reduced to 1.5 mm<sup>2</sup>/ AWG 16 solid and stranded ("s" + "f-st")



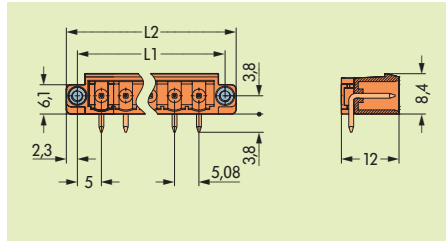
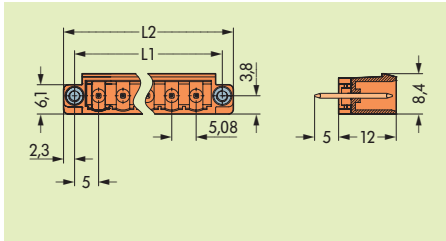
# MULTI CONNECTION SYSTEM **MIDI** – Extension of Pole Number


## 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

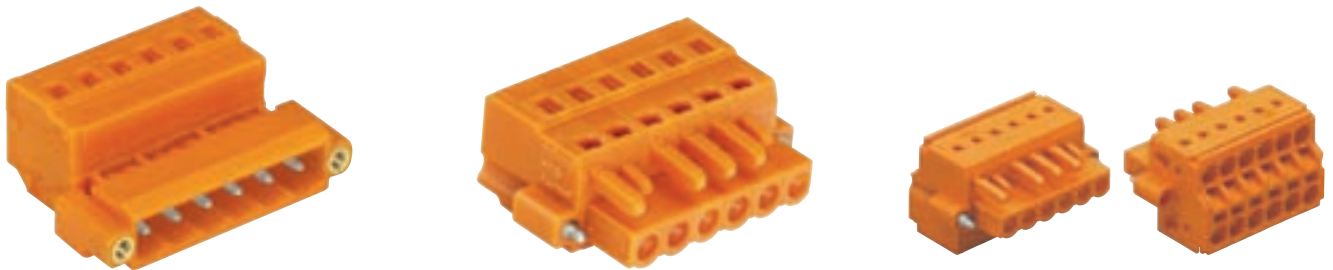


No. of poles	Item No.	No. of poles	Item No.
<b>Headers with straight solder pins and threaded flanges, orange, solder pin 1 mm x 1 mm</b>		<b>Headers with right angle solder pins and threaded flanges, orange, solder pin 1 mm x 1 mm</b>	
7	231-337/108-000	7	231-537/108-000
:	:	:	:
10	231-340/108-000	10	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

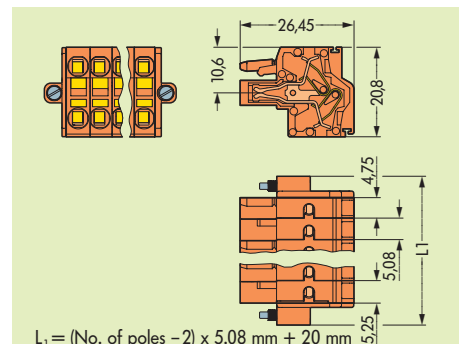
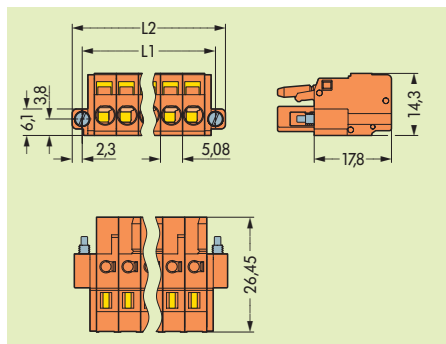
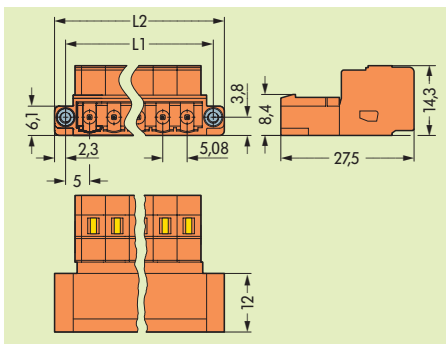


Pin spacing 5.08 mm/0.2 in, orange  
 0.2 – 2.5 mm<sup>2</sup> | AWG 24 – 12  
 250 V/4 kV/3 | 300 V, 20/5 A   
 I<sub>N</sub> 16 A

 9 – 10 mm / 0.37 in



No. of poles	Item No.	No. of poles	Item No.	No. of poles	Item No.
<b>Male connectors with CAGE CLAMP® and threaded flanges, orange</b>		<b>Female connectors with CAGE CLAMP® and screw flanges, with coding fingers, with two latches, orange</b>		<b>2-conductor female connectors with CAGE CLAMP® and screw flanges, with coding fingers, with two latches, orange</b>	
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



VOLUME 2

Ordering examples for 2-conductor female connectors with CAGE CLAMP<sup>®</sup>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**

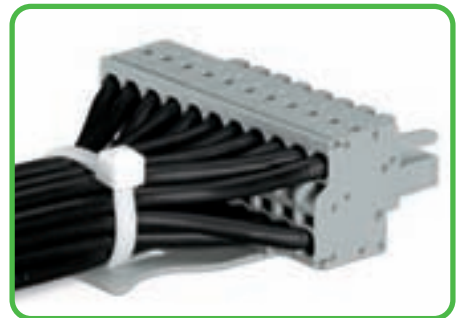
2-conductor female connectors with CAGE CLAMP<sup>®</sup>S connection can be fitted with a strain relief plate retrospectively or directly at the factory. Plates are available in 6 different sizes. An "additional item no.", referring to the width of the strain relief plate, is added to the "basic item 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.

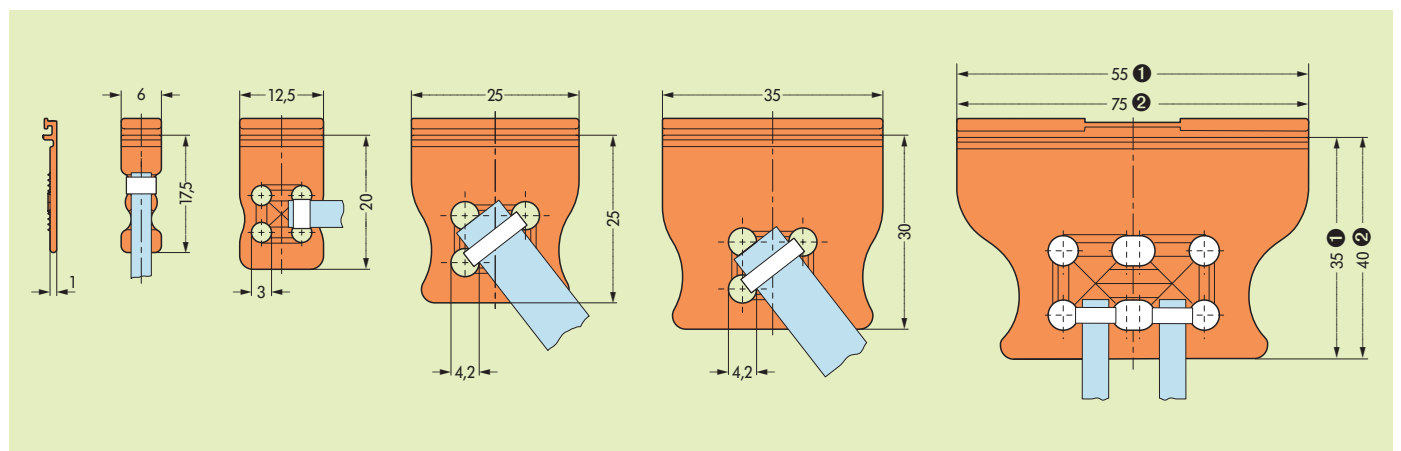


Female connector, pin spacing 5 mm/0.197 in, grey 8 poles, with strain relief plate  
**231-2108/026-000/135-000**



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)

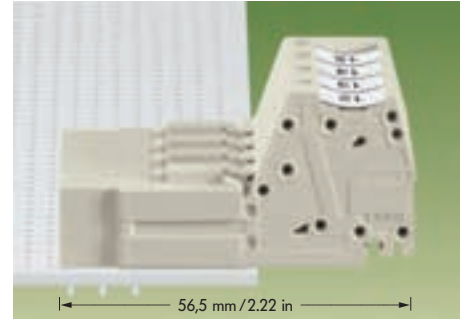


\* Recommended cable ties and cable binding tool from Tyton or Hellermann, not offered by WAGO

# MULTI CONNECTION SYSTEM **MAXI**

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

<b>Pin spacing 7.62 mm/0.3 in, light grey</b> 500 V/6 kV/3   300/600 V, 42/5 A <b>UL</b> I <sub>N</sub> 41 A   300/600 V, 50/5 A <b>CE</b>	<b>Pin spacing 7.62 mm/0.3 in, light grey</b> 500 V/6 kV/3   300/600 V, 42/5 A <b>UL</b> I <sub>N</sub> 41 A   300/600 V, 50/5 A <b>CE</b>
--	--



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

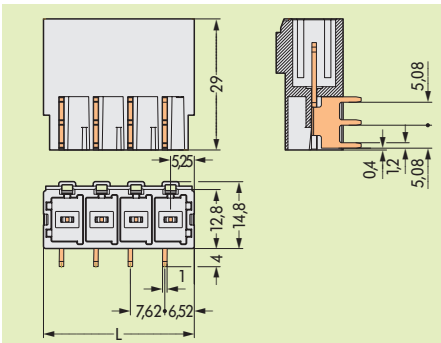
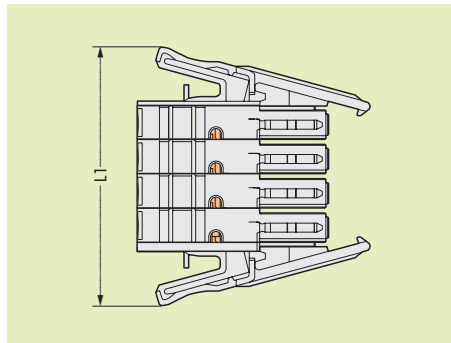


Break or cut-off coding pin on the female connector . . .



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

**Dimensions (in mm)** Diameter of drilled hole: 1.7<sup>+0.1</sup>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](http://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) mm<sup>2</sup> ① AWG 20 – 8  
800 V/8 kV/3 300/600 V, 42/5 A   
I<sub>N</sub> 41 A

Pin spacing 7.62 mm/0.3 in, light grey  
0.5 – 6 (10) mm<sup>2</sup> ① AWG 20 – 8  
800 V/8 kV/3 300/600 V, 42/5 A   
I<sub>N</sub> 41 A

\*

\*



① can be connected:  
0.5 mm<sup>2</sup> – 10 mm<sup>2</sup> "s + f-st";  
can be pushed in directly: 1.5 mm<sup>2</sup> – 10 mm<sup>2</sup> "s" and  
1.5 mm<sup>2</sup> – 6 mm<sup>2</sup> "insulated ferrule, 12 mm/0.472 in"

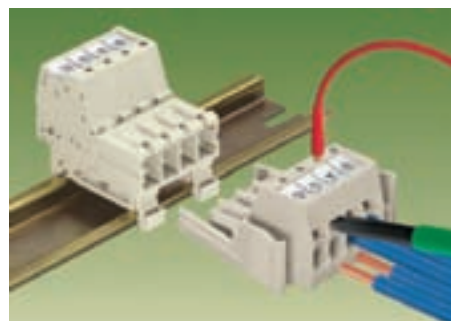
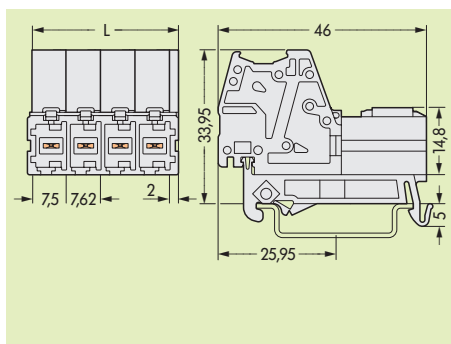
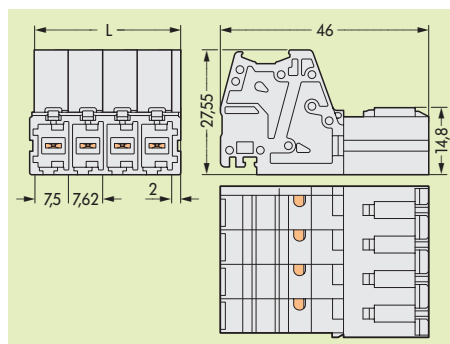


No. of poles	Item No.	No. of poles	Item No.
<b>Male connectors with CAGE CLAMP<sup>®</sup>S connection, 100% protected against mismatching, with coding fingers, light grey</b>		<b>Male connectors with CAGE CLAMP<sup>®</sup>S connection, for DIN 35 rail mounting, 100% protected against mismatching, with coding fingers, light grey</b>	
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

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

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

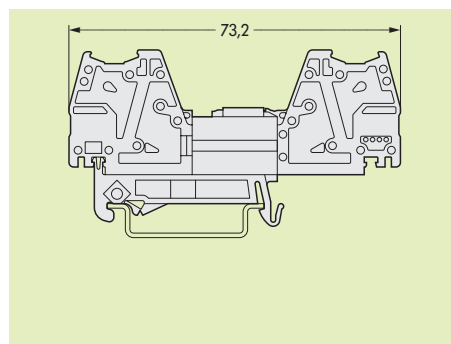


The new WAGO MULTI CONNECTION SYSTEM MAXI can be used as "high-power" sub-assemblies on carrier rails or printed circuit boards in such applications like drive technology, converters or power supply units.

Equipped with CAGE CLAMP<sup>®</sup>S connection up to AWG 10/ AWG 8 (6 mm<sup>2</sup>/10 mm<sup>2</sup>) 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<sup>®</sup>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



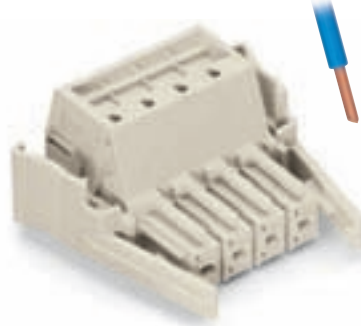
\* Further approvals with corresponding ratings can be found at [www.wago.com](http://www.wago.com)

# 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) mm<sup>2</sup> ① AWG 20 – 8 800 V/8 kV/3 I<sub>N</sub> 41 A</p>	<p>Pin spacing 7.62 mm/0.3 in, light grey 0.5 – 6 (10) mm<sup>2</sup> ① AWG 20 – 8 800 V/8 kV/3 I<sub>N</sub> 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 mm<sup>2</sup> – 10 mm<sup>2</sup> "s + f-st";  
can be pushed in directly: 1.5 mm<sup>2</sup> – 10 mm<sup>2</sup> "s" and  
1.5 mm<sup>2</sup> – 6 mm<sup>2</sup> "insulated ferrule, 12 mm/0.472 in"

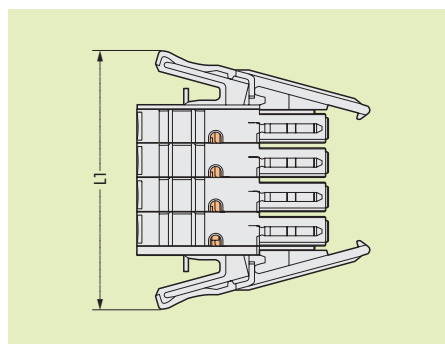
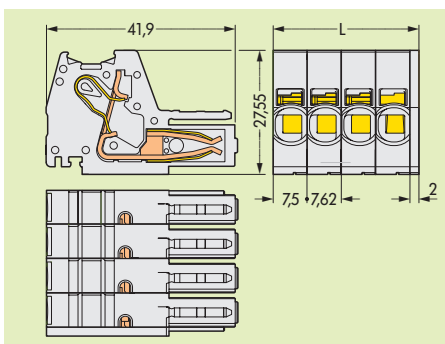


No. of poles	Item No.	No. of poles	Item No.
<b>Female connectors with CAGE CLAMP<sup>®</sup>S connection, 100% protected against mismatching, with coding fingers, light grey</b>		<b>Female connectors with CAGE CLAMP<sup>®</sup>S connection and locking device, 100% protected against mismatching, with coding fingers, light grey</b>	
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><b>Test plug, with cable 500 mm/1'7.7"</b> 2 mm/0.079 in Ø, red <b>210-136</b></p>	<p><b>Test plug, with cable 500 mm/1'7.7"</b> 2 mm/0.079 in Ø, red <b>210-136</b></p>
<p><b>Marker card,</b> 80 self-adhesive strips per card Height of marker strip 5 mm/0.197 in Marking 1 – 16 (100 x) <b>210-334/0762-0202</b> For direct printing, please contact factory</p>	<p><b>Marker card,</b> 80 self-adhesive strips per card Height of marker strip 5 mm/0.197 in Marking 1 – 16 (100 x) <b>210-334/0762-0202</b> For direct printing, please contact factory</p>
<p><b>Marker strip, white, plain, on roll</b> for center marking 11 mm/0.039 in wide 50 m <b>2009-110</b> 300 m <b>2009-130</b></p>	<p><b>Marker strip, white, plain, on roll</b> for center marking 11 mm/0.039 in wide 50 m <b>2009-110</b> 300 m <b>2009-130</b></p>
<p><b>Screwdriver with partially insulated shaft,</b> (5.5 x 0.8) mm / (0.217 x 0.031) in <b>210-621</b></p>	<p><b>Screwdriver with partially insulated shaft,</b> (5.5 x 0.8) mm / (0.217 x 0.031) in <b>210-621</b></p>

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




## Operating Tools

VOLUME 2

Screwdriver acc. to DIN 5264,  
for optimum handling  
in terminal blocks and connectors

TOPJOB®  tool



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
<b>Short screwdriver, with partially insulated shaft,</b> blade 3.5 x 0.5 mm / 0.137 in x 0.020 in, suitable for series 260, 261, 262, 264, 280, 281, 869 <b>210-657</b>	1	<b>TOPJOB®  tool with partially insulated shaft,</b> 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 <b>2009-310</b>	1
<b>Short angled screwdriver,</b> <b>with partially insulated shaft,</b> 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 <b>210-658</b>	1		

### 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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210-137	4	231-132/001-000/105-604/997-405	68	231-2306/107-000	79	250-406/350-604	55
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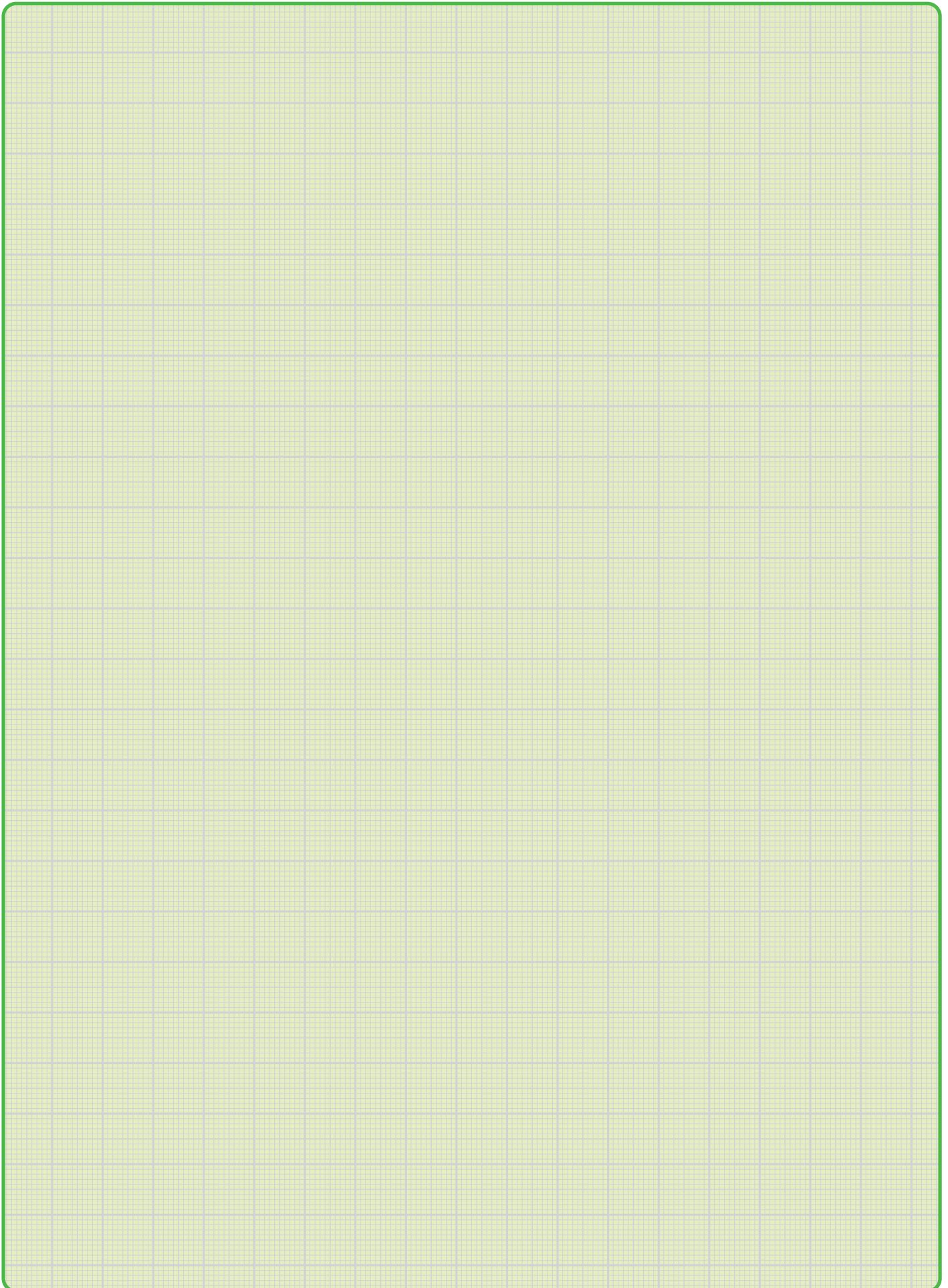


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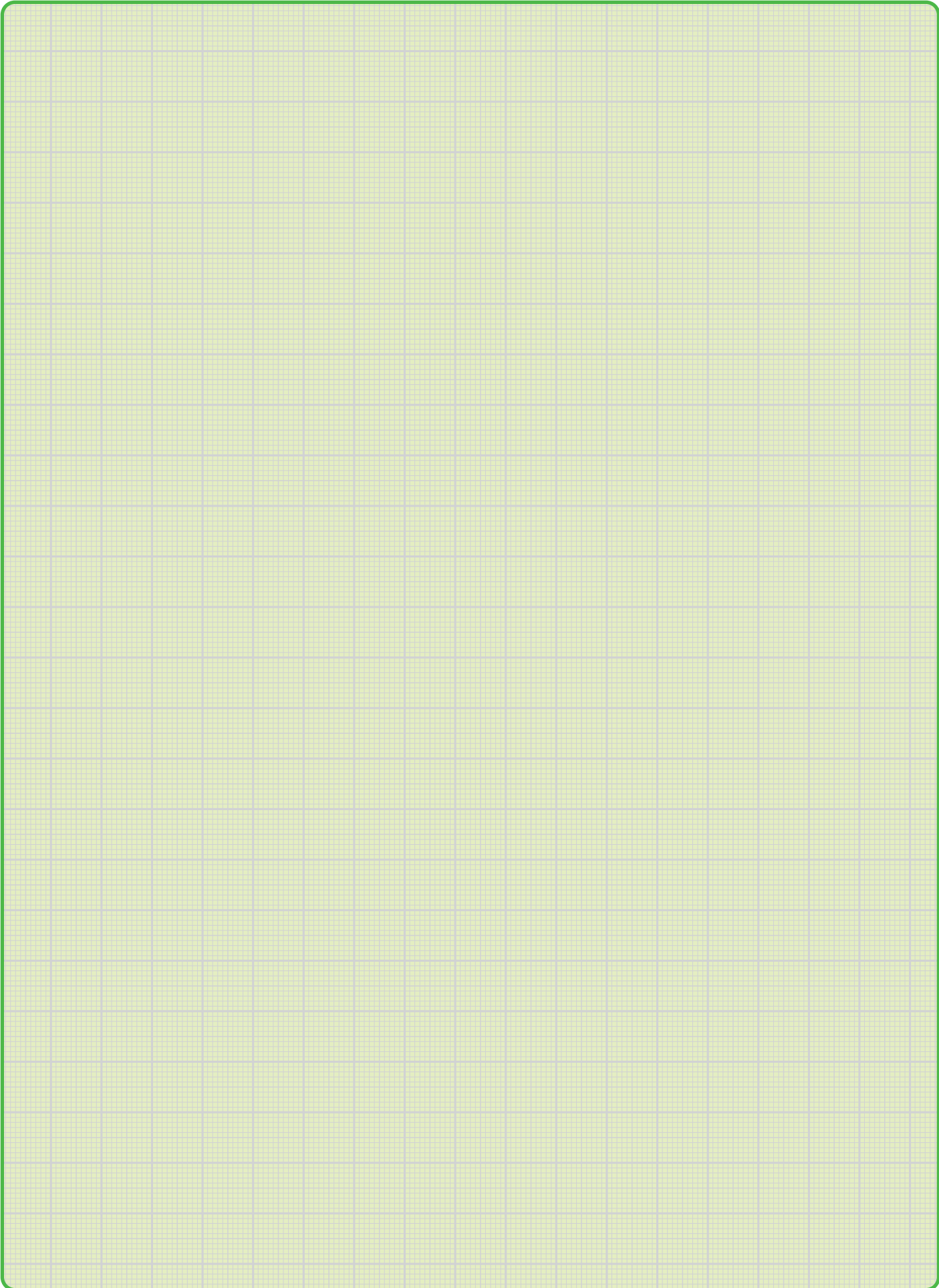
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2001-1311/1000-0411	19	2002-1321/1000-0434	20	2002-3212/1000-0673	25	<b>Series 2005</b>	
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2001-1321/1000-0434	19	2002-1392	20	2002-3221/1000-0413	25	2005-7642	11
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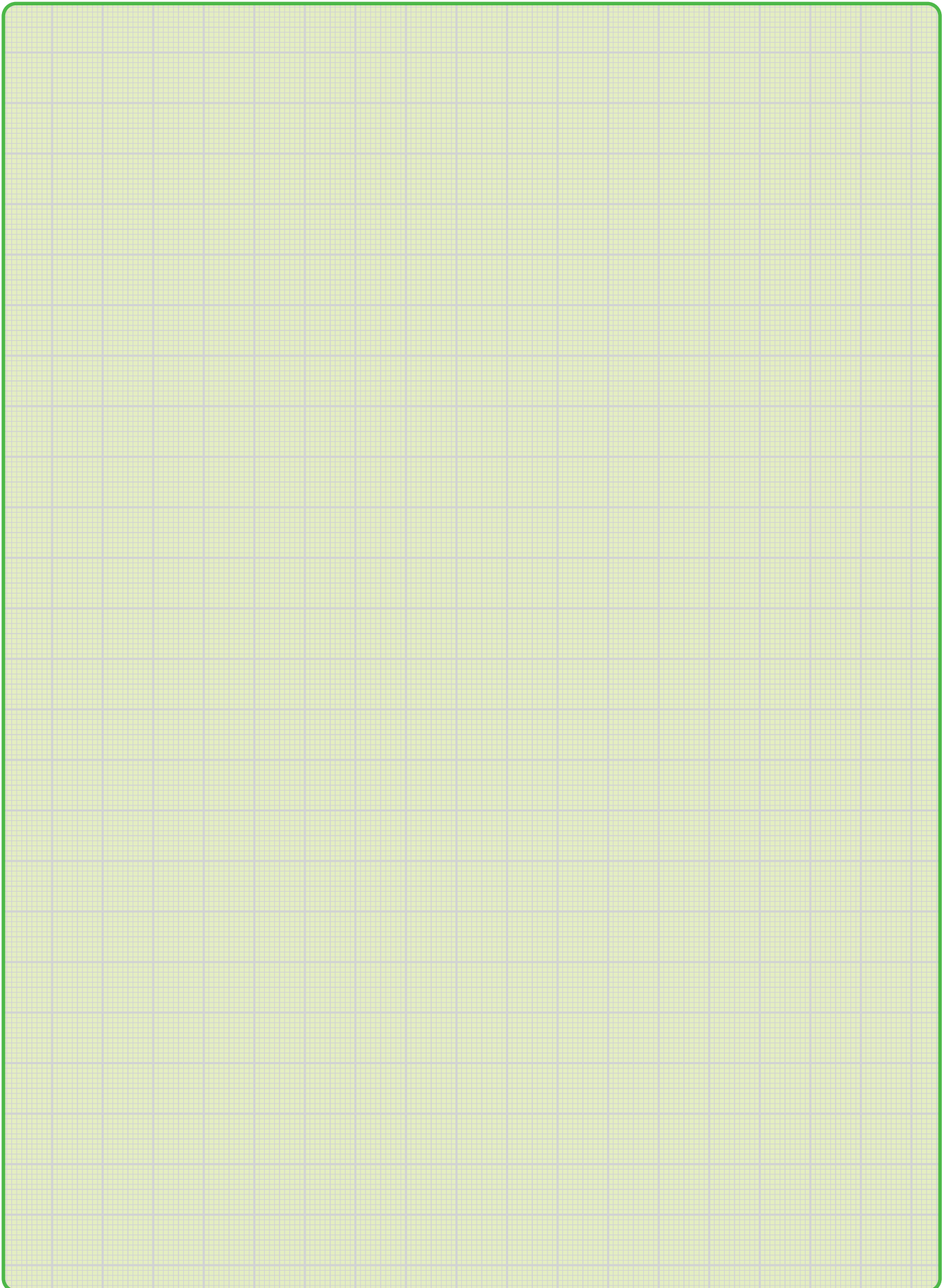
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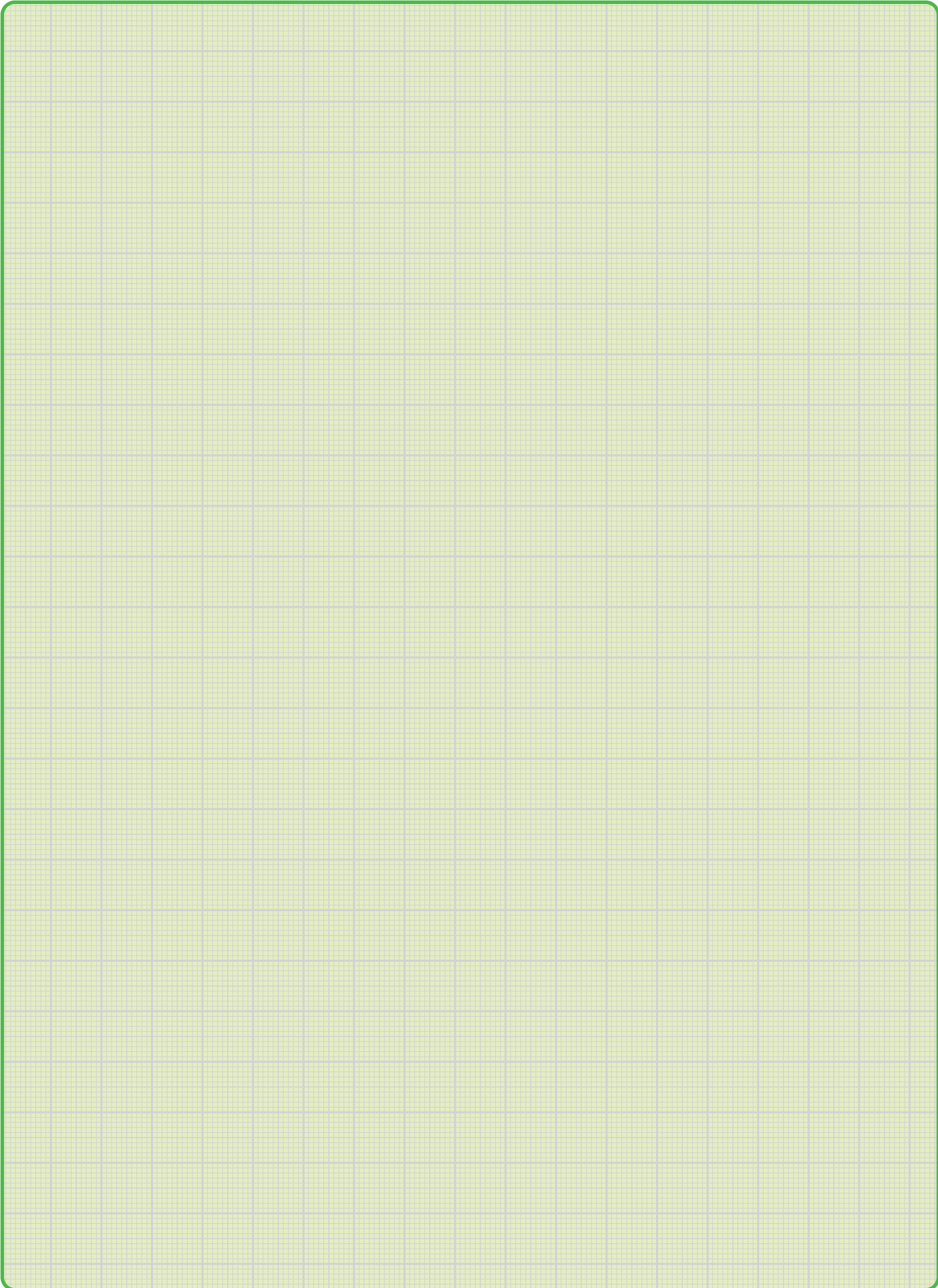
**Notes**



## Notes



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