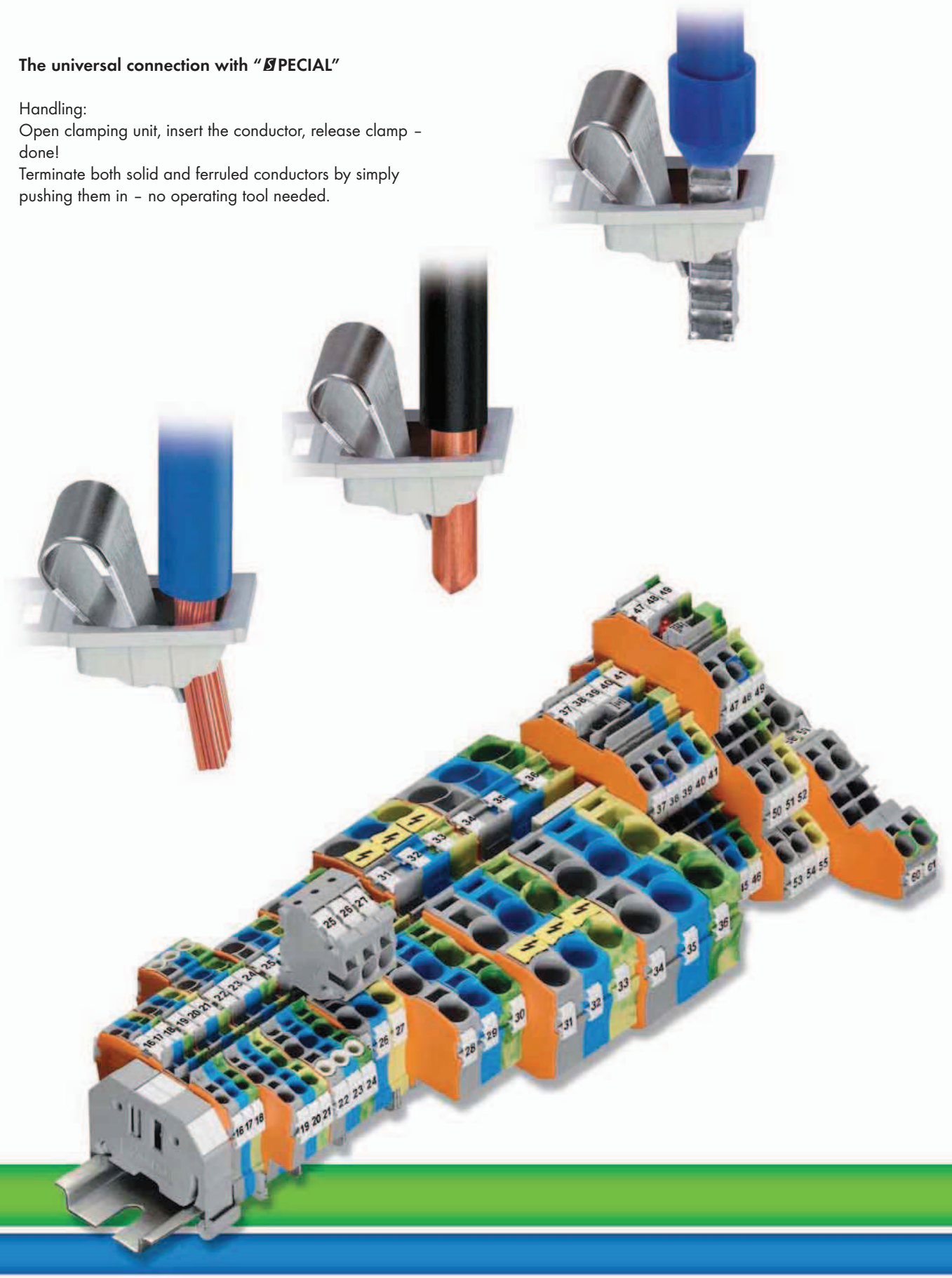
CAGE CLAMP®S

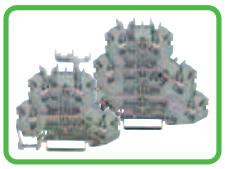
The universal connection with "SPECIAL"

Handling:
Open clamping unit, insert the conductor, release clamp – done!
Terminate both solid and ferruled conductors by simply pushing them in – no operating tool needed.





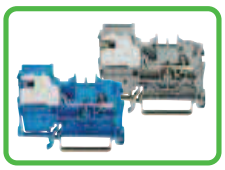
Through Terminal Blocks, ground conductor and Ex Terminal Blocks		
Horizontal Type		
0.14 mm² to 16 mm² (AWG 24 - 6)	2000 - 2016 Series	54 – 66
Angled Type		
0.25 mm² to 2.5 (4) mm² (AWG 22 - 12)	2002 Series	60 – 61



Multilevel Rail-Mounted Terminal Blocks		
4-Conductor, Double-Deck Terminal Blocks		
2.5 (4) mm² (AWG 12)	2002 Series	76
Double-Deck Terminal Blocks		
1 (1.5) mm² (AWG 16)/2.5 (4) mm² (AWG 12)	2000/2002 Series	68 – 73
Triple-Deck Terminal Blocks 2.5 (4) mm² (AWG 12)	2002 Series	78
Quadruple-Deck Terminal Blocks 2.5 (4) mm² (AWG 12)	2002 Series	80



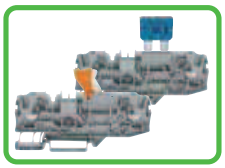
Multilevel Installation Terminal Blocks		
0.25 mm² to 2.5 (4) mm² (AWG 22 - 12)	2003 Series	84
0.5 mm² to 4 (6) mm² (AWG 20 - 10)	2005 Series	86
Supply Terminal Block for Distribution Boxes		
0.5 mm² to 16 (25 “f-st”) mm² (AWG 20 - 4)	2016 Series	90



N-Conductor Disconnect Terminal Blocks and Power Distribution Disconnect Terminal Blocks		
0.25 mm² to 2.5 (4) mm² (AWG 22 - 12)	2002 Series	88
0.5 mm² to 6 (10) mm² (AWG 20 - 8)	2006 Series	88
0.5 mm² to 16 (25 “f-st”) mm² (AWG 20 - 4)	2016 Series	88



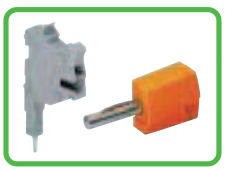
Disconnect, Measurement and Fuse Terminal Blocks, and Through Terminal Blocks of Same Profile		
0.25 mm² to 2.5 (4) mm² (AWG 22 - 12)	2002 Series	94 – 105
Fuse Disconnect Terminal Blocks		
0.25 mm² bis 2.5 (4) mm² (AWG 22 - 12)	2002 Series	100 – 106



Disconnect, Ground Conductor Disconnect Terminal Blocks and Fuse Terminal Blocks	2006 Series	108 – 113
Fuse Plugs, Carrier Terminal Blocks	2004/2002/2006 Series	114 – 117



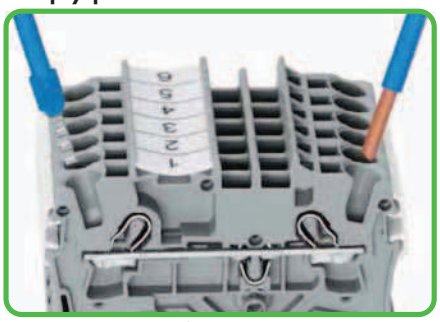
Diode and LED Terminal Blocks		
Single-Deck Terminal Blocks		
1.5 (2.5)/2.5 (4)/4 (6) mm² (AWG 14/12/8)	2001/2002/2004 Series	118 – 123
Double-Deck Terminal Blocks 2.5 (4) mm² / AWG 12	2002 Series	124
Triple-Deck Terminal Blocks 2.5 (4) mm² / AWG 12	2002 Series	126
Diode and LED Modules and Empty Component Plug Housings	2002 Series	128 – 132



Accessories for TOPJOB®S Rail-Mounted Terminal Blocks		
– Banana Plugs		198
– Marking Accessories		144 – 145
– Push-In Type Wire, Staggered and Star Point Jumpers		139 – 141
– Step-Down Jumpers for Through Terminal Blocks		67
– Connectors and Connector Strips	2001 - 2016 Series	134 – 137

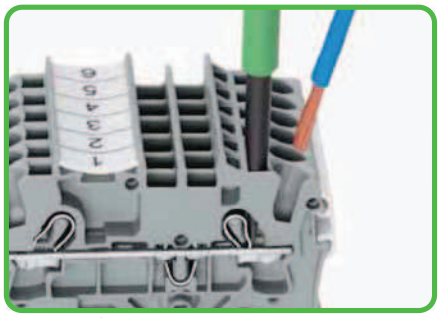
CAGE CLAMP®S Rail-Mounted Terminal Blocks 2000 to 2016 Series

Simply push-in



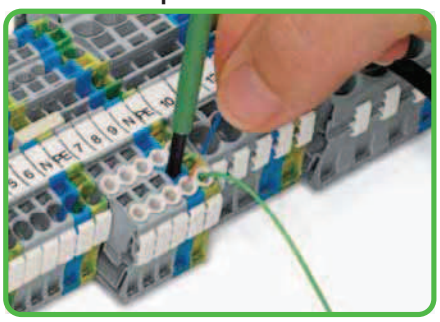
Directly insert solid and ferruled conductors.

Conductor termination



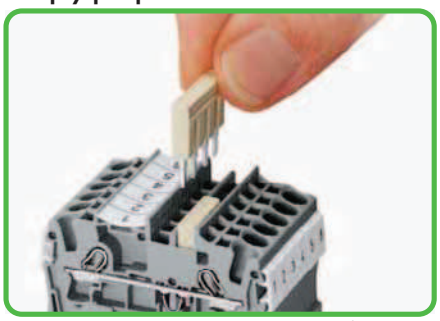
Terminating fine-stranded conductors using an operating tool.

Insulation stop



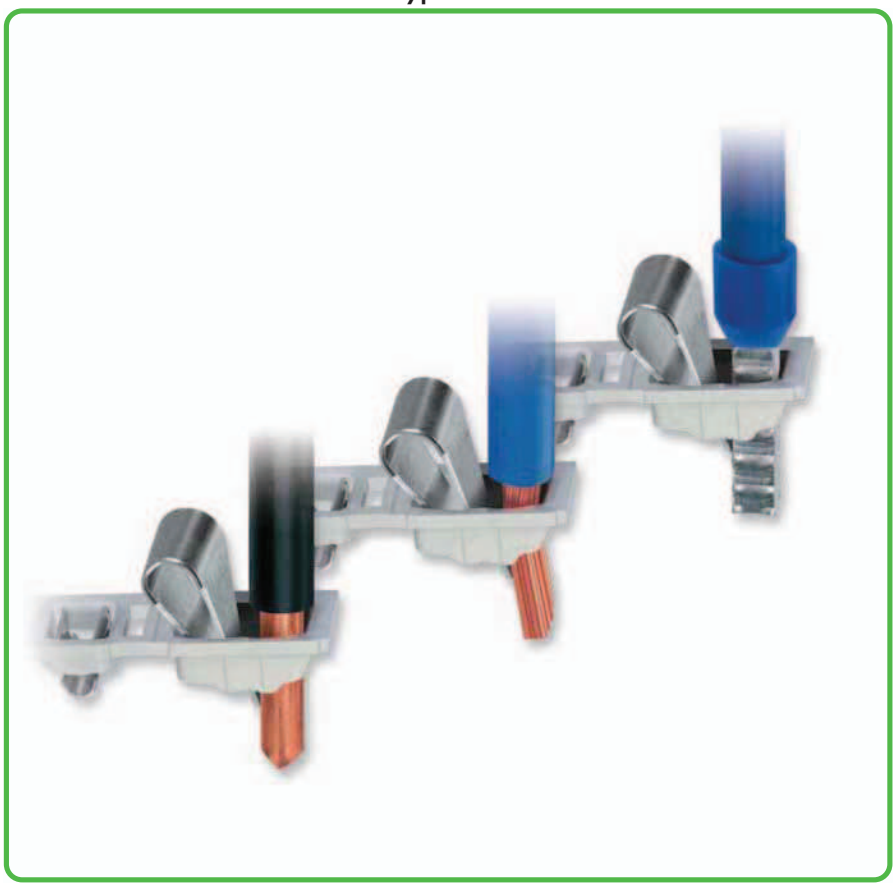
Conductor termination – Insulation stop.

Simply jumpered



Insert push-in type jumper bar and push down firmly until it hits the backstop.

CAGE CLAMP®S for all conductor types



Customizable push-in type jumper bars



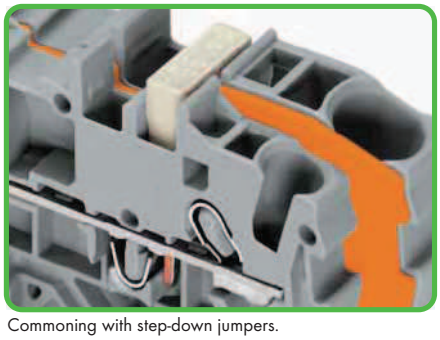
Breaking off jumper contacts (up to 4 mm²/AWG 12)

Customizable push-in type jumper bars



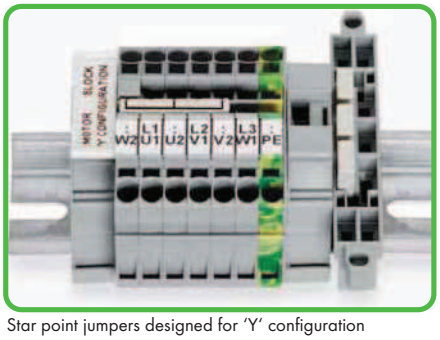
Marking with a felt-tip pen.

Commoning with step-down jumpers



Commoning with step-down jumpers.

Star point jumpers



Star point jumpers designed for 'Y' configuration



CAGE CLAMP®S clamps the following copper conductors:*

solid



stranded



fine-stranded, also with tinned single strands

* For aluminum conductors, see notes in Section 14.

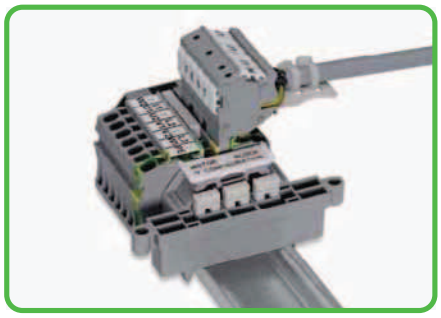
– Description and Handling –

Simply smaller



Up to 30% more compact. Advantage: More wiring space or smaller switch cabinets/junction boxes.

TOPJOB®S connectors



The 2001, 2002 and 2004 Series terminal blocks are equipped with a test socket for 2 mm Ø or 2.3 mm Ø test plugs.

Testing tap

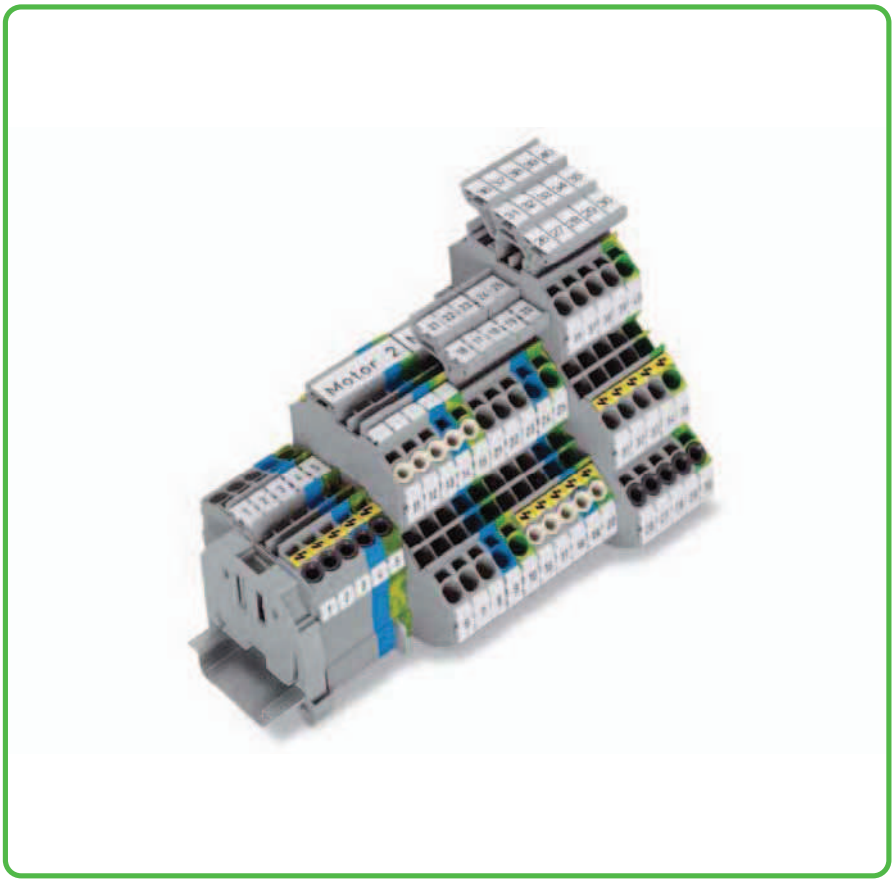


Testing tap suited for 2001 to 2016 Series terminal blocks. Tool-free connections for individual test wires up to 2.5 mm²/AWG 12.

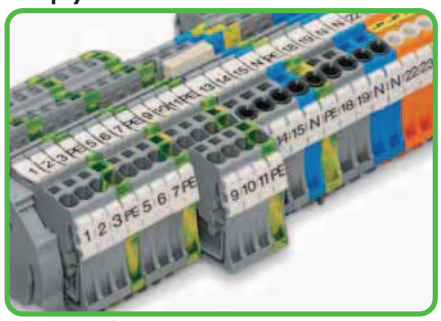
Test plug adapter



The test plug adapter for 4 mm Ø plugs is suited for 2001 to 2016 Series terminal blocks.

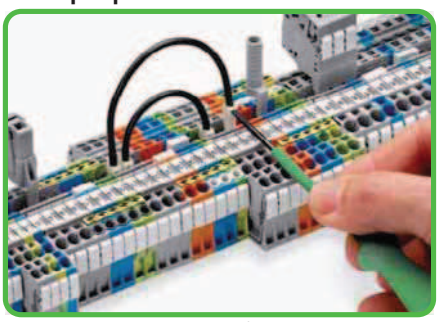


Simply marked



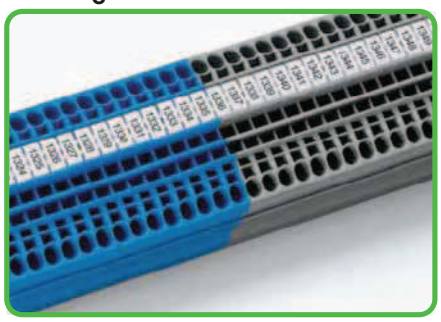
Marker strips for center marking

Wire jumpers



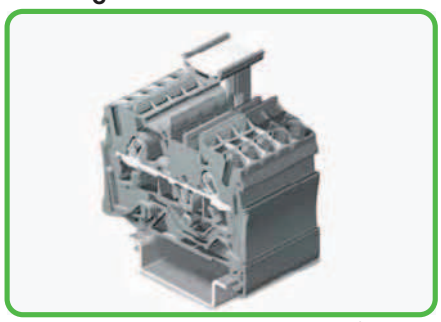
Push down the wire jumper until fully inserted.
Lift the jumper with an operating tool for rewiring.

Marking



WMB Inline
WMB markers on roll

Marking



TOPJOB®S group marker carrier, snap-on type for jumper slot



fine-stranded,
tip-bonded

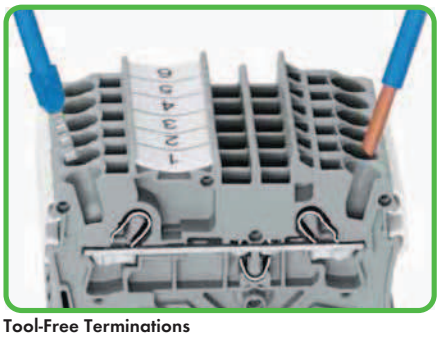


fine-stranded,
with ferrule,
(gastight crimped)

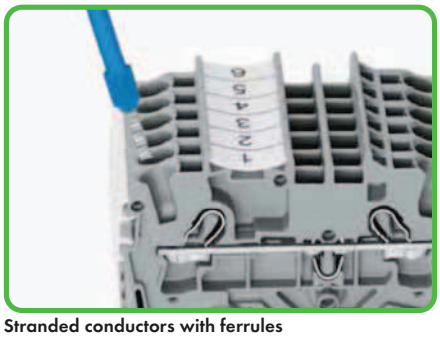


fine-stranded,
with pin terminal
(gastight crimped)

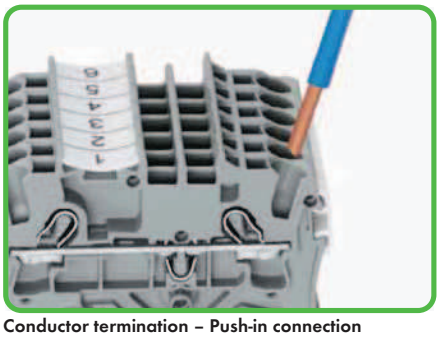
– Simply Push-In –
Conductor Termination/Removal
Handling Ex e/Ex i Separators



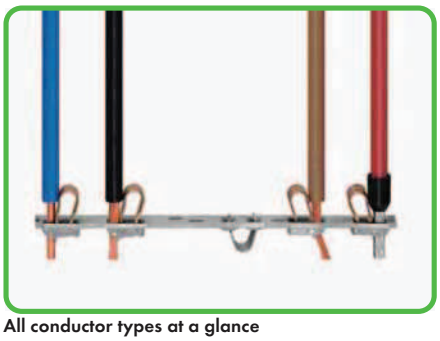
Tool-Free Terminations
Stripped solid, ferruled or ultrasonically "bonded" conductors are easily terminated by simply pushing them into a contact.
This advantage significantly reduces costs for conductors rated 0.5 mm² to 16 mm² (AWG 20-4) in applications such as electrical installations or factory wiring.



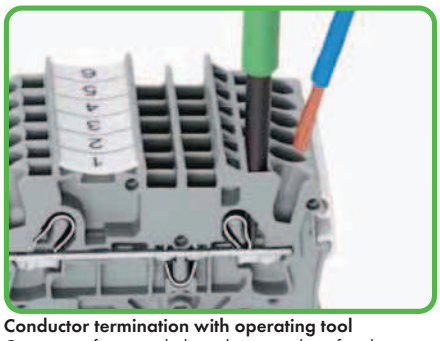
Stranded conductors with ferrules
from at least two sizes below the rated cross section up to the rated cross section can also be simply pushed in – without tools.



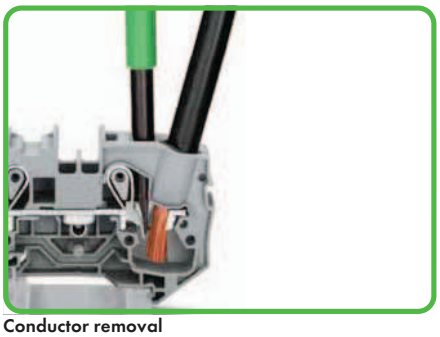
Conductor termination – Push-in connection
Solid conductors with cross sections from either one size above, or up to two sizes below, the rated cross section can be inserted directly – without tools.



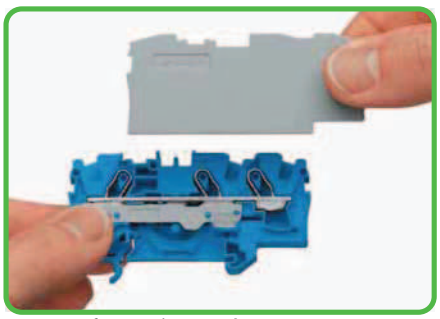
All conductor types at a glance



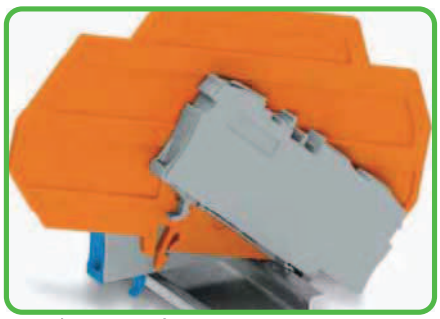
Conductor termination with operating tool
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® - just use an operating tool.
The smart feature:
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees resulting in easier wiring.



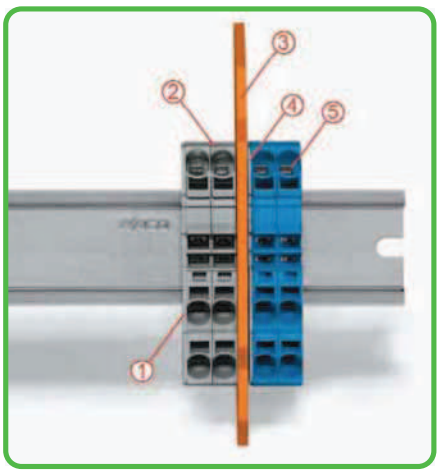
Conductor removal
Like the original CAGE CLAMP® an operating tool is used for conductor removal with CAGE CLAMP®S.



Separator for Ex e/Ex i applications
An end plate must be applied to the terminal block located directly behind an Ex e/Ex i separator plate.

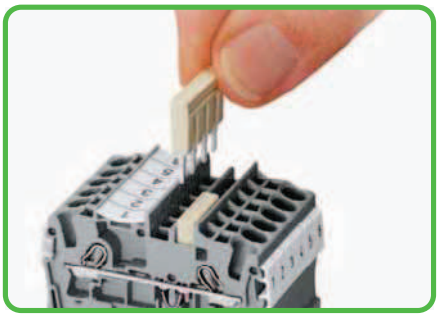


Ex e II/Ex i terminal strip
Notice:
The movable feet of terminal blocks and separator plates must face the same direction.

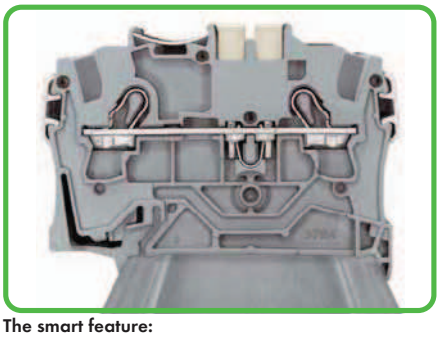


Separator located between Ex e II and Ex i terminal strip
① End plate
② Ex e II terminal blocks
③ Ex e/Ex i separator plate
④ End plate
⑤ Ex i terminal blocks

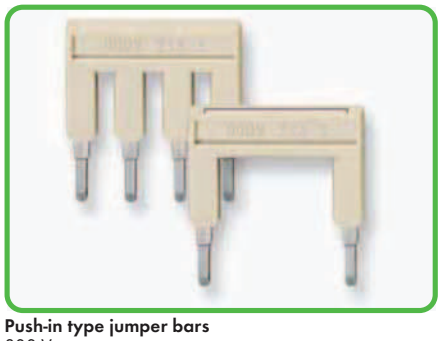
– Simply Jumpered –
Handling Push-In Type Jumper Bars
Angle-Type Rail-Mounted Terminal Blocks



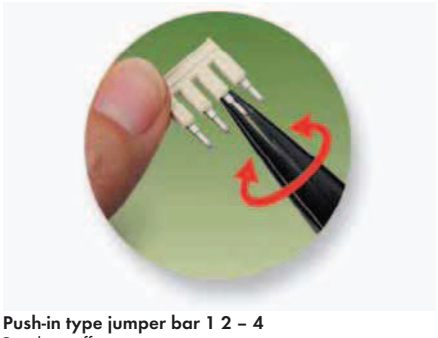
The push-in type jumper system is based on the common plug and socket principle. Each terminal block is spring-loaded with a double socket and a resilient CrNi steel spring. Therefore the jumpers, which consist of cathode copper, can be produced with particularly small dimensions. This does not impair their load carrying capacity in accordance with the terminal block rated current. Ground terminal blocks can also be commoned using the same jumper system. Custom jumpers are created by breaking and removing jumper contacts (4 mm²/AWG 12).



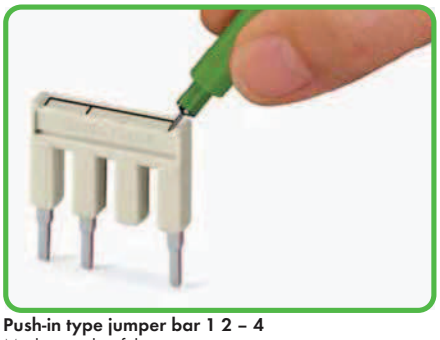
The smart feature:
Jumper slots can also be used for:
- push-in type jumper bars and step-down jumpers
- test plug adapters and testing taps
- preharnessed plugs for subassembly connections.



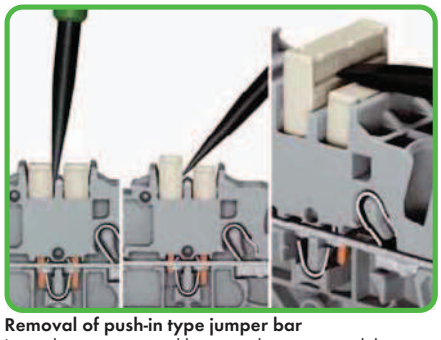
Push-in type jumper bars
800 V
600 V
550 V



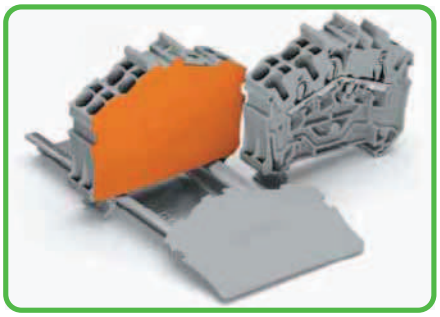
Push-in type jumper bar 1 2 – 4
Breaking off jumper contacts
500 V
300 V

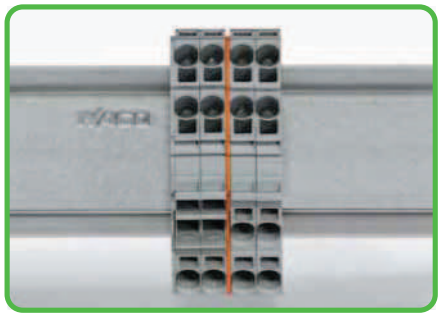


Push-in type jumper bar 1 2 – 4
Marking with a felt-tip pen.



Removal of push-in type jumper bar
Insert the operating tool between the jumper and the partition wall of the dual jumper slots.
Place the operating tool in the center of jumpers up to 5 contacts (see above), or alternately on both sides for jumpers with more than 5 contacts.

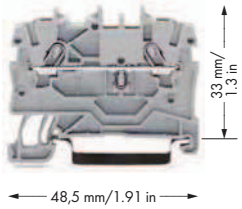


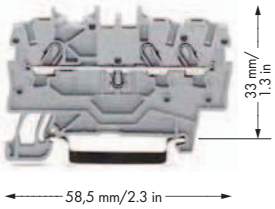


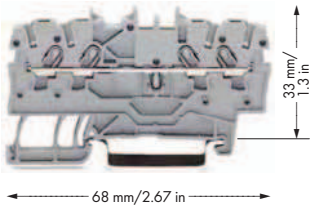
With continuous terminal strips an end plate must be used when changing from 3- to 4-conductor terminal blocks.

TOPJOB®S
Through/Ground Conductor/Ex and Double-Potential Terminal Blocks
1 (1.5) mm², 2000 Series

0.14 - 1 (1.5) mm² ❶ 800 V/8 kV/3 ❷ I_N 13.5 A (18 A)	AWG 24 - 16 600 V, 10 A 600 V, 10 A	Terminal block width 3.5 mm / 0.138 in 9 - 11 mm / 0.39 in ❸
0.14 - 1 (1.5) mm² ❶ 800 V/8 kV/3 ❷ I_N 13.5 A (18 A)	AWG 24 - 16 600 V, 10 A 600 V, 10 A	Terminal block width 3.5 mm / 0.138 in 9 - 11 mm / 0.39 in ❸
0.14 - 1 (1.5) mm² ❶ 800 V/8 kV/3 ❷ I_N 13.5 A (18 A)	AWG 24 - 16 600 V, 10 A 600 V, 10 A	Terminal block width 3.5 mm / 0.138 in 9 - 11 mm / 0.39 in ❸







	Item No.	Pack. Unit
2-conductor through terminal block		
gray	**2000-1201** ❺	100
blue	**2000-1204** ❹ ❺	100
orange	**2000-1202** ❺	100
red	**2000-1203** ❺	100
black	**2000-1205** ❺	100
yellow	**2000-1206** ❺	100
2-conductor ground terminal block		
green-yellow	**2000-1207** ❺	100

	Item No.	Pack. Unit
3-conductor through terminal block		
gray	**2000-1301** ❺	100
blue	**2000-1304** ❹ ❺	100
orange	**2000-1302** ❺	100
red	**2000-1303** ❺	100
black	**2000-1305** ❺	100
yellow	**2000-1306** ❺	100
3-conductor ground terminal block		
green-yellow	**2000-1307** ❺	100

	Item No.	Pack. Unit
4-conductor through terminal block		
gray	**2000-1401** ❺	100
blue	**2000-1404** ❹ ❺	100
orange	**2000-1402** ❺	100
red	**2000-1403** ❺	100
black	**2000-1405** ❺	100
yellow	**2000-1406** ❺	100
4-conductor ground terminal block		
green-yellow	**2000-1407** ❺	100

Item-Specific Accessories

End and intermediate plate, 0.7 mm thick



orange	**2000-1292**	100 (4x25)
gray	**2000-1291**	100 (4x25)

Item-Specific Accessories

End and intermediate plate, 0.7 mm thick



orange	**2000-1392**	100 (4x25)
gray	**2000-1391**	100 (4x25)

Item-Specific Accessories

End and intermediate plate, 0.7 mm thick



orange	**2000-1492**	100 (4x25)
gray	**2000-1491**	100 (4x25)

2000 Series Accessories

Appropriate marking systems: WMB/Marking strips
(see Section 13)

Push-in type jumper bar, insulated,



I_N 14 A, light gray

2-way	**2000-402**	200 (8x25)
3-way	**2000-403**	200 (8x25)
4-way	**2000-404**	200 (8x25)
5-way	**2000-405**	100 (4x25)
6-way	**2000-406**	100 (4x25)
7-way	**2000-407**	100 (4x25)
8-way	**2000-408**	100 (4x25)
9-way	**2000-409**	100 (4x25)
10-way	**2000-410**	100 (4x25)

Push-in type jumper bar, insulated,



I_N 14 A, light gray

from 1 to 3	**2000-433**	200 (8x25)
from 1 to 4	**2000-434**	200 (8x25)
from 1 to 5	**2000-435**	100 (4x25)
from 1 to 6	**2000-436**	100 (4x25)
from 1 to 7	**2000-437**	100 (4x25)
from 1 to 8	**2000-438**	100 (4x25)
from 1 to 9	**2000-439**	100 (4x25)
from 1 to 10	**2000-440**	100 (4x25)

Protective warning marker,



with high-voltage symbol, black, for 5 terminal blocks

yellow	**2000-115**	100 (4x25)

Delta jumper, insulated,



❻ I_N = I_N terminal block, light gray

1-2 3-4 5-6	**2000-406/020-000**	100 (4x25)

Star point jumper, insulated,



❻ I_N = I_N terminal block, light gray

1-3-5	**2000-405/011-000**	100 (4x25)

Test plug adapter,



for test plug 4 mm Ø

gray	**2009-174**	100 (4x25)

Banana plug,



❻ for socket 4 mm Ø, color mixed

	215-111	50

Testing tap,



for max. 2.5 mm²

gray	**2009-182**	100 (4x25)

Test plug,



with 500 mm cable, 2 mm Ø

red	**210-136**	50

Test plug,



with 500 mm cable, 2.3 mm Ø

yellow	**210-137**	50

Marking strip, plain,



11 mm wide, 50 m roll

white	**2009-110**	1

WMB Multi marking system,

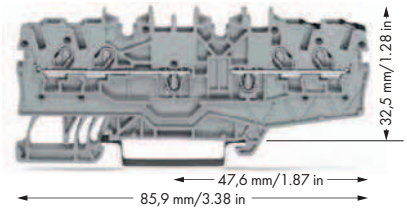
10 strips with 10 markers per card, for 3.5 mm terminal block width

plain	**793-3501**	5

For list of approvals and user guide, see pages 634 to 637.

0.14 - 1 (1.5) mm² ❶ | AWG 24 - 16
800 V/8 kV/3 ❷
I_N 13.5 A (18 A)

Terminal block width 3.5 mm / 0.138 in
9 - 11 mm / 0.39 in ❸



❶ Conductor sizes: 0.14 mm² – 1.5 mm² "s + f-st"; Push-in conductor sizes: 0.5 mm² – 1.5 mm² "s" and 0.5 mm² – 0.75 mm² "insulated ferrule, 10 mm"

❷ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❸ Strip length, see packaging or instructions.

❹ Suitable for Ex i applications

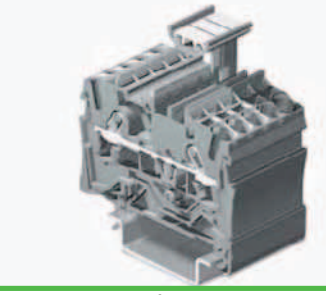
❺ Suitable for Ex e II applications
550 V, 13 A
Jumper 12 A
(also see Section 14)

❻ See application notes for:
Star point jumper, page 140
Delta jumper, page 140
Banana plug, page 198

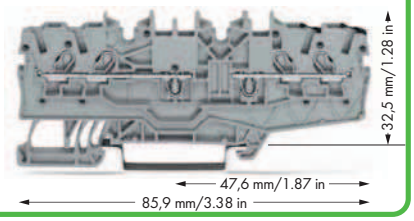
	Item No.	Pack. Unit
Double-potential terminal block, both potentials can be commoned		
gray	**2000-2141**	50

Item-Specific Accessories

End and intermediate plate, 0.7 mm thick			
	orange	**2000-2196**	100 (4x25)
	gray	**2000-2195**	100 (4x25)



TOPJOB®S group marker carrier
equipped with WMB Multi marking system.
Suitable for all 2000 to 2016 Series TOPJOB®S rail-mount terminal blocks
Do not use on an end plate!



Double-potential terminal blocks are space savers.
Two independent feedthrough circuits are placed in one insulated housing on one level in just 3.5 mm/0.138 in.
This achieves a width of just 1.75 mm/0.069 in versus standard through terminal blocks.
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.



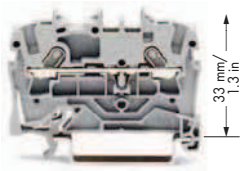
Standard and quick marking options:
Three marker slots are available for both individual markers and marking strips.



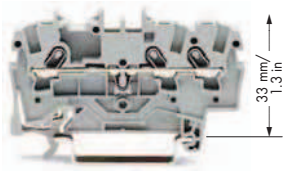
Standard and fast marking options:
Four marker slots (double-potential terminal blocks) are available for both individual markers and marking strips

TOPJOB®S
Through/Ground Conductor/Shield and Ex Terminal Blocks 1.5 (2.5) mm²
2001 Series

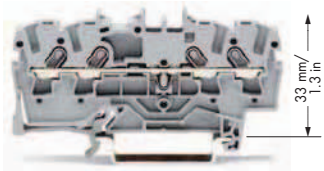
0.25 - 1.5 (2.5) mm² ❶ 800 V/8 kV/3 ❷ I_N 18 A (24 A)	AWG 22 - 14 600 V, 15 A 600 V, 15 A	Terminal block width 4.2 mm / 0.165 in 9 - 11 mm / 0.39 in ❸
0.25 - 1.5 (2.5) mm² ❶ 800 V/8 kV/3 ❷ I_N 18 A (24 A)	AWG 22 - 14 600 V, 15 A 600 V, 15 A	Terminal block width 4.2 mm / 0.165 in 9 - 11 mm / 0.39 in ❸
0.25 - 1.5 (2.5) mm² ❶ 800 V/8 kV/3 ❷ I_N 18 A (24 A)	AWG 22 - 14 600 V, 15 A 600 V, 15 A	Terminal block width 4.2 mm / 0.165 in 9 - 11 mm / 0.39 in ❸



48,5 mm/1.91 in



59,5 mm/2.34 in



70 mm/2.76 in

	Item No.	Pack. Unit
2-conductor through terminal block		
gray	**2001-1201** ❺	100
blue	**2001-1204** ❹ ❺	100
orange	**2001-1202** ❺	100
red	**2001-1203** ❺	100
black	**2001-1205** ❺	100
yellow	**2001-1206** ❺	100
2-conductor ground terminal block		
green-yellow	**2001-1207** ❺	100
Other terminal blocks with the same profile:		
Diode	**2001-1211/1000-411** Page 118	

	Item No.	Pack. Unit
3-conductor through terminal block		
gray	**2001-1301** ❺	100
blue	**2001-1304** ❹ ❺	100
orange	**2001-1302** ❺	100
red	**2001-1303** ❺	100
black	**2001-1305** ❺	100
yellow	**2001-1306** ❺	100
3-conductor ground terminal block		
green-yellow	**2001-1307** ❺	100
Other terminal blocks with the same profile:		
Diode	**2001-1311/1000-411** Page 118	
LED	**2001-1321/1000-434** Page 118	

	Item No.	Pack. Unit
4-conductor through terminal block		
gray	**2001-1401** ❺	100
blue	**2001-1404** ❹ ❺	100
orange	**2001-1402** ❺	100
red	**2001-1403** ❺	100
black	**2001-1405** ❺	100
yellow	**2001-1406** ❺	100
4-conductor ground terminal block		
green-yellow	**2001-1407** ❺	100
4-conductor shield terminal block		
white	**2001-1408**	100
Other terminal blocks with the same profile:		
Diode	**2001-1411/1000-411** Page 118	
LED	**2001-1421/1000-434** Page 118	
Double-potential	**2001-1441** Page 57	

Item-Specific Accessories

End and intermediate plate, 0.8 mm thick			
	orange	**2002-1292**	100 (4x25)
	gray	**2002-1291**	100 (4x25)
Separator, oversized, 2 mm thick			
	orange	**2002-1294**	100 (4x25)
	gray	**2002-1293**	100 (4x25)
Ex e/Ex i separator, orange,			
❻	3 mm thick		
	90 mm	**209-190**	50 (2x25)
	120 mm	**209-191**	50 (2x25)

Item-Specific Accessories

End and intermediate plate, 0.8 mm thick			
	orange	**2002-1392**	100 (4x25)
	gray	**2002-1391**	100 (4x25)
Separator, oversized, 2 mm thick			
	orange	**2002-1394**	100 (4x25)
	gray	**2002-1393**	100 (4x25)
Ex e/Ex i separator, orange,			
❻	3 mm thick		
	120 mm	**209-191**	50 (2x25)

Item-Specific Accessories

End and intermediate plate, 0.8 mm thick			
	orange	**2002-1492**	100 (4x25)
	gray	**2002-1491**	100 (4x25)
Separator, oversized, 2 mm thick			
	orange	**2002-1494**	100 (4x25)
	gray	**2002-1493**	100 (4x25)
Ex e/Ex i separator, orange,			
❻	3 mm thick		
	120 mm	**209-191**	50 (2x25)

2001 Series Accessories

Appropriate marking systems: WMB/Marking strips
(see Section 13)

Insulation stop,			
	5 pcs/strip,		
	0.25 - 0.5 mm²		
	light gray	**2001-171**	200 (8x25)
Step-down jumper, insulated,			
❻	I_N 32 A		
	light gray	**2006-499**	50 (2x25)
Protective warning marker,			
	with high-voltage symbol, black,		
	for 5 terminal blocks		
	yellow	**2001-115**	100 (4x25)

Push-in type jumper bar, insulated,			
	I_N 18 A,		
	light gray		
	2-way	**2001-402**	200 (8x25)
	3-way	**2001-403**	200 (8x25)
	4-way	**2001-404**	200 (8x25)
	5-way	**2001-405**	100 (4x25)
	6-way	**2001-406**	100 (4x25)
	7-way	**2001-407**	100 (4x25)
	8-way	**2001-408**	100 (4x25)
	9-way	**2001-409**	100 (4x25)
	10-way	**2001-410**	100 (4x25)

Push-in type jumper bar, insulated,			
	I_N 18 A,		
	light gray		
	from 1 to 3	**2001-433**	200 (8x25)
	from 1 to 4	**2001-434**	200 (8x25)
	from 1 to 5	**2001-435**	100 (4x25)
	from 1 to 6	**2001-436**	100 (4x25)
	from 1 to 7	**2001-437**	100 (4x25)
	from 1 to 8	**2001-438**	100 (4x25)
	from 1 to 9	**2001-439**	100 (4x25)
	from 1 to 10	**2001-440**	100 (4x25)

For list of approvals and user guide, see pages 634 to 637.