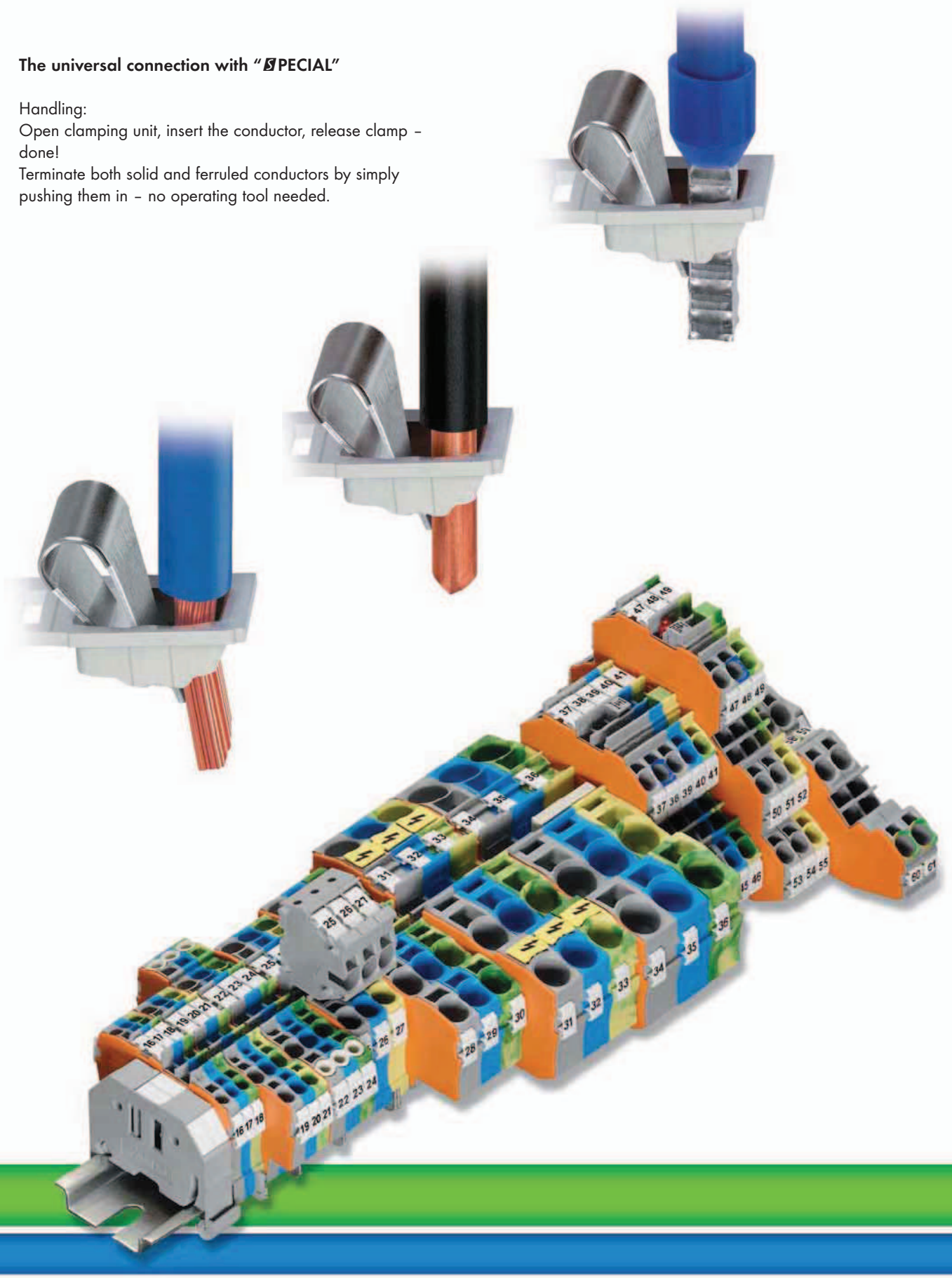
# CAGE CLAMP®S

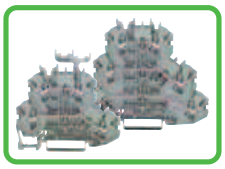
**The universal connection with "SPECIAL"**

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 |

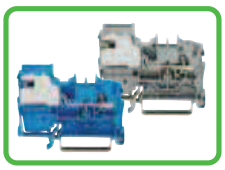




| | | |
|---|---|---|
| Multilevel Rail-Mounted Terminal Blocks | | |
| 4-Conductor, Double-Deck Terminal Blocks | | |
| 2.5 (4) mm² (AWG 12) | 2002 Series | 76 |
| Double-Deck Terminal Blocks | | |
| 1 (1.5) mm² (AWG 16)/2.5 (4) mm² (AWG 12) | 2000/2002 Series | 68 – 73 |
| Triple-Deck Terminal Blocks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

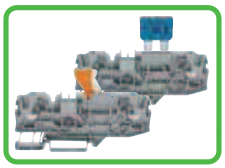




| | | |
|---|---|---|
| N-Conductor Disconnect Terminal Blocks and Power Distribution Disconnect Terminal Blocks | | |
| 0.25 mm² to 2.5 (4) mm² (AWG 22 - 12) | 2002 Series | 88 |
| 0.5 mm² to 6 (10) mm² (AWG 20 - 8) | 2006 Series | 88 |
| 0.5 mm² to 16 (25 “f-st”) mm² (AWG 20 - 4) | 2016 Series | 88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





| | | |
|---|---|---|
| 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 |

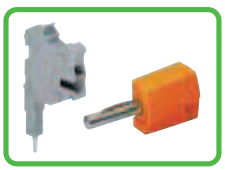




| | | |
|---|---|---|
| Disconnect, Ground Conductor Disconnect Terminal Blocks and Fuse Terminal Blocks | 2006 Series | 108 – 113 |
| Fuse Plugs, Carrier Terminal Blocks | 2004/2002/2006 Series | 114 – 117 |





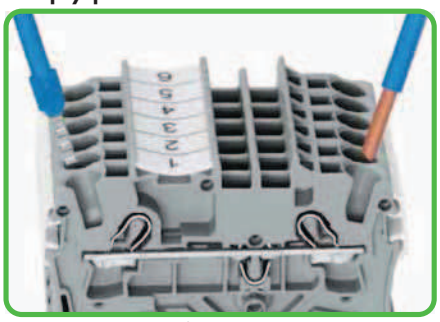
| | | |
|---|---|---|
| Diode and LED Terminal Blocks | | |
| Single-Deck Terminal Blocks | | |
| 1.5 (2.5)/2.5 (4)/4 (6) mm² (AWG 14/12/8) | 2001/2002/2004 Series | 118 – 123 |
| Double-Deck Terminal Blocks 2.5 (4) mm² / AWG 12 | 2002 Series | 124 |
| Triple-Deck Terminal Blocks 2.5 (4) mm² / AWG 12 | 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 |

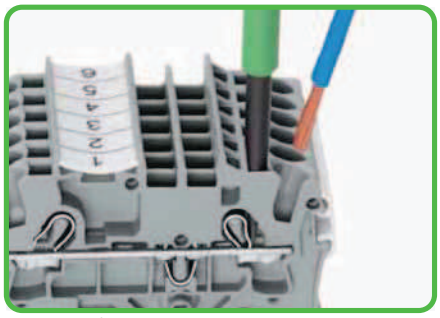
# CAGE CLAMP®S Rail-Mounted Terminal Blocks 2000 to 2016 Series

## Simply push-in



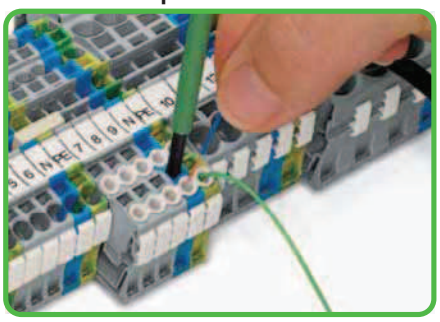
Directly insert solid and ferruled conductors.

## Conductor termination



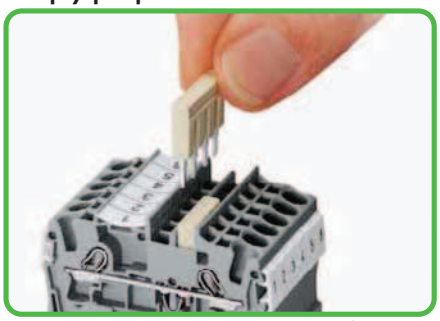
Terminating fine-stranded conductors using an operating tool.

## Insulation stop



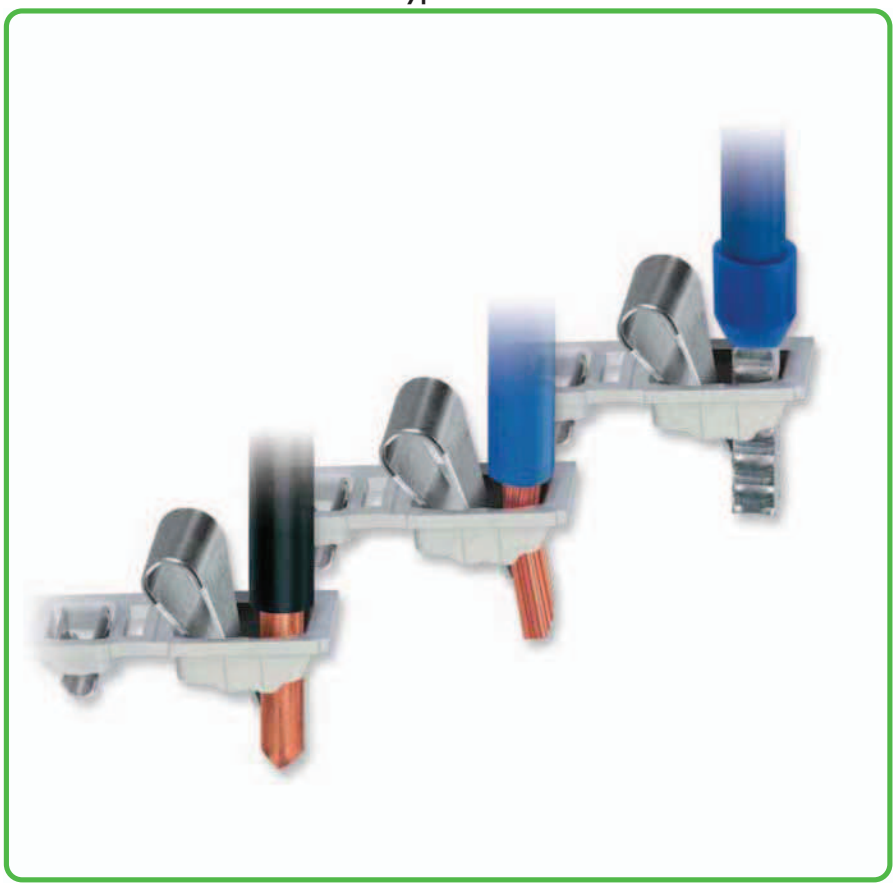
Conductor termination – Insulation stop.

## 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



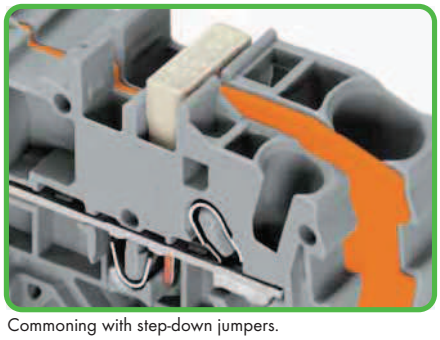
Breaking off jumper contacts (up to 4 mm²/AWG 12)

## Customizable push-in type jumper bars



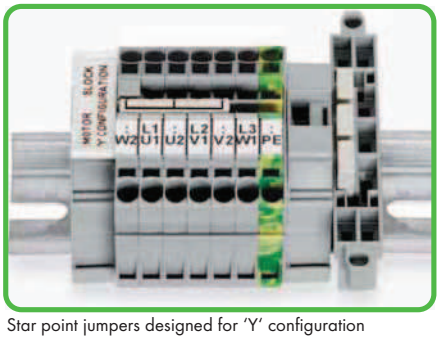
Marking with a felt-tip pen.

## 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.

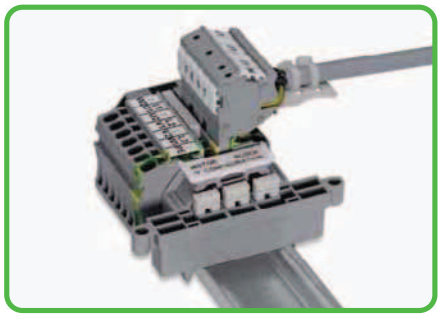
# – Description and Handling –

## 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

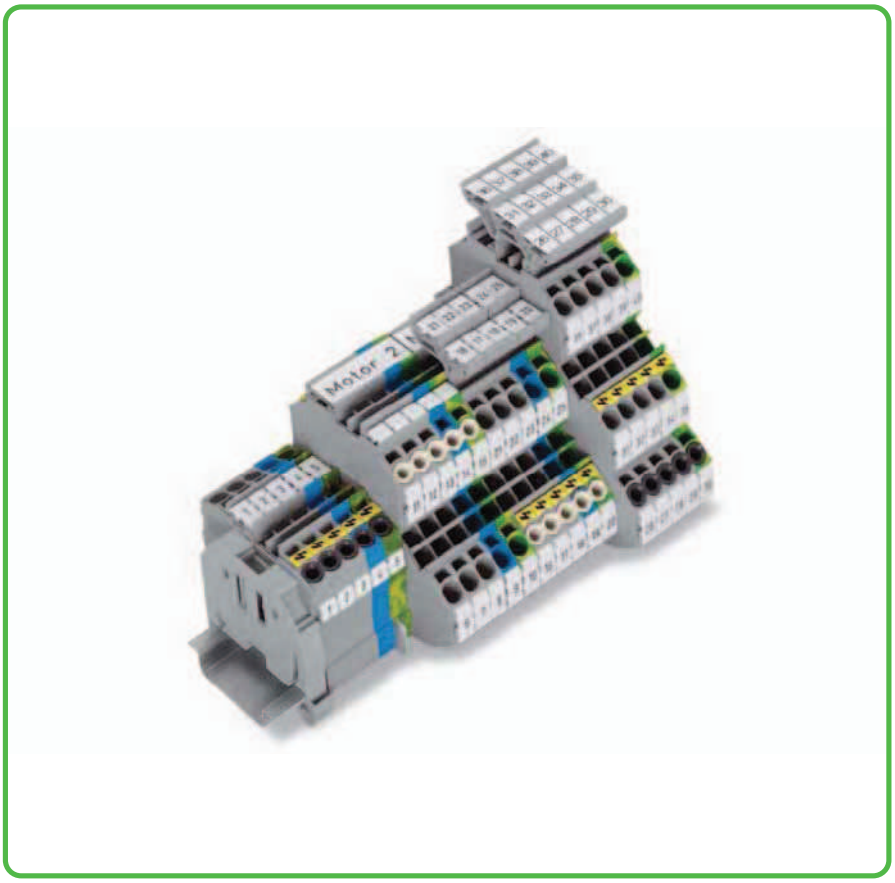


Testing tap suited for 2001 to 2016 Series terminal blocks. Tool-free connections for individual test wires up to 2.5 mm²/AWG 12.

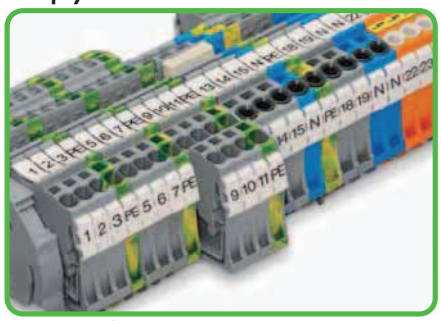
## Test plug adapter



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

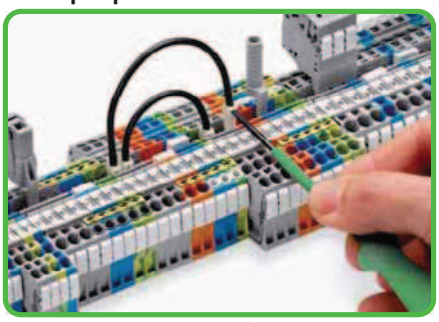


## Simply marked



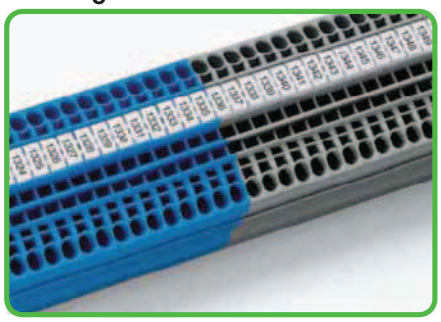
Marker strips for center marking

## Wire jumpers



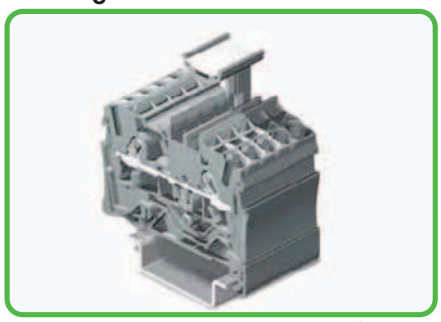
Push down the wire jumper until fully inserted.
Lift the jumper with an operating tool for rewiring.

## Marking



WMB Inline
WMB markers on roll

## Marking



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



fine-stranded,
tip-bonded



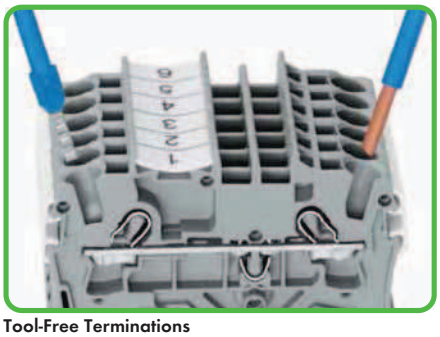
fine-stranded,
with ferrule,
(gastight crimped)



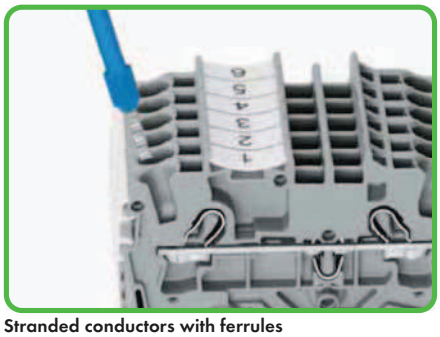
fine-stranded,
with pin terminal
(gastight crimped)

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

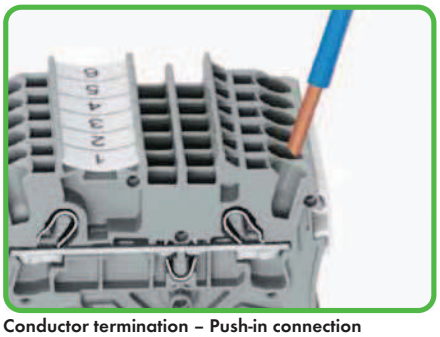




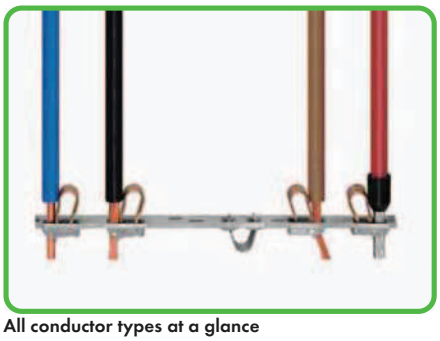
**Tool-Free Terminations**
Stripped solid, ferruled or ultrasonically "bonded" conductors are easily terminated by simply pushing them into a contact.
This advantage significantly reduces costs for conductors rated 0.5 mm² to 16 mm² (AWG 20-4) in applications such as electrical installations or factory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



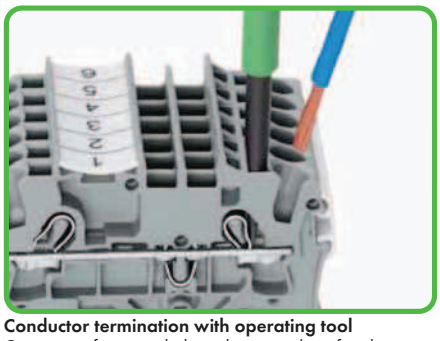
**Stranded conductors with ferrules**
from at least two sizes below the rated cross section up to the rated cross section can also be simply pushed in – without tools.



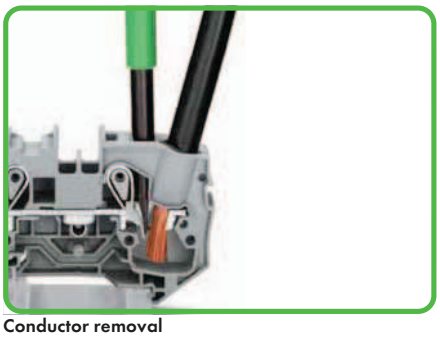
**Conductor termination – Push-in connection**
**Solid conductors** with cross sections from either one size above, or up to two sizes below, the rated cross section can be inserted directly – without tools.



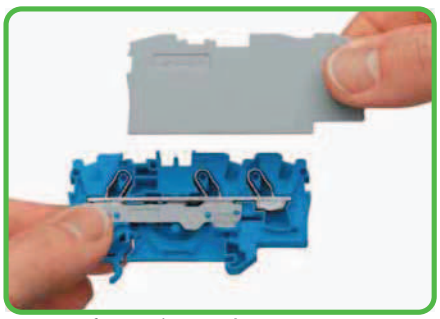
**All conductor types at a glance**



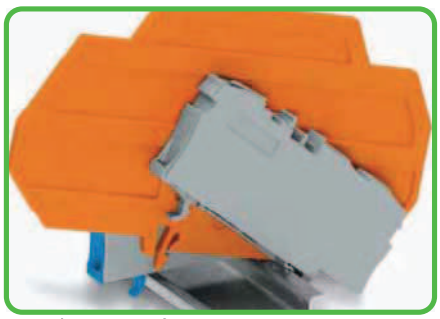
**Conductor termination with operating tool**
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® - just use an operating tool.
**The smart feature:**
To open the clamp, the operating tool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



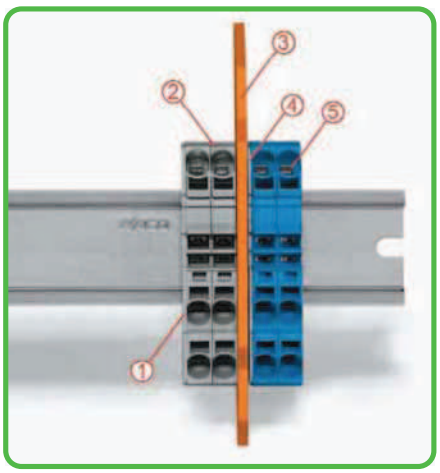
**Conductor removal**
Like the original CAGE CLAMP® an operating tool is used for conductor removal with CAGE CLAMP®S.



**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.

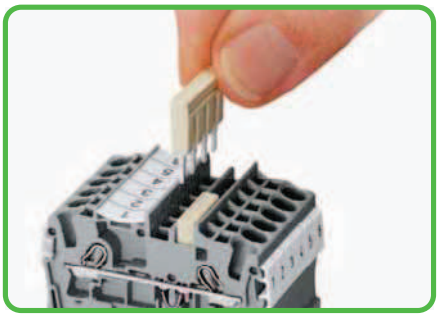


**Ex e II/Ex i terminal strip**
**Notice:**
The movable feet of terminal blocks and separator plates must face the same direction.

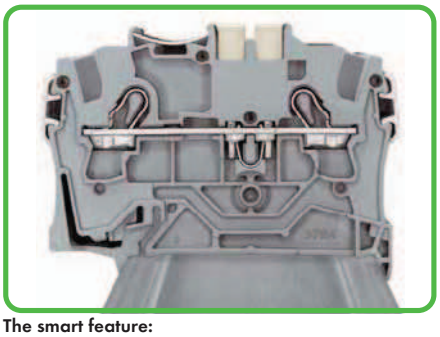



Separator located between Ex e II and Ex i terminal strip
① End plate
② Ex e II terminal blocks
③ Ex e/Ex i separator plate
④ End plate
⑤ Ex i terminal blocks

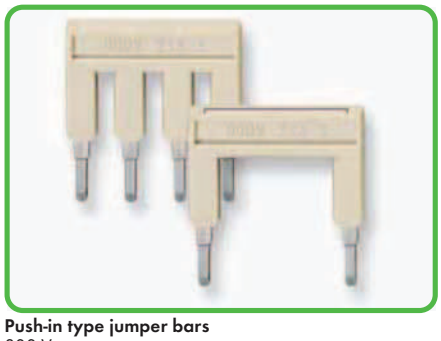
# – Simply Jumpered –
# Handling Push-In Type Jumper Bars
# Angle-Type Rail-Mounted Terminal Blocks



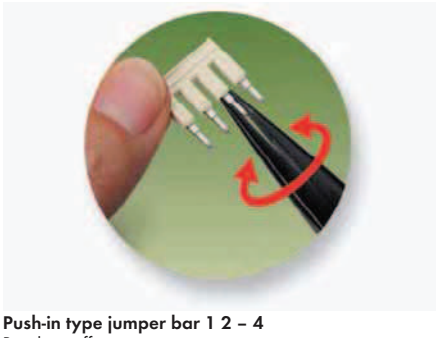
The push-in type jumper system is based on the common plug and socket principle. Each terminal block is spring-loaded with a double socket and a resilient CrNi steel spring. Therefore the jumpers, which consist of cathode copper, can be produced with particularly small dimensions. This does not impair 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).



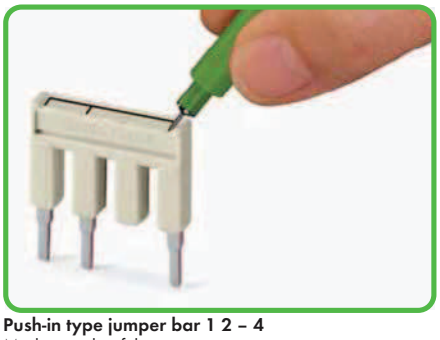
**The smart feature:**
Jumper slots can also be used for:
- push-in type jumper bars and step-down jumpers
- test plug adapters and testing taps
- preharnessed plugs for subassembly connections.



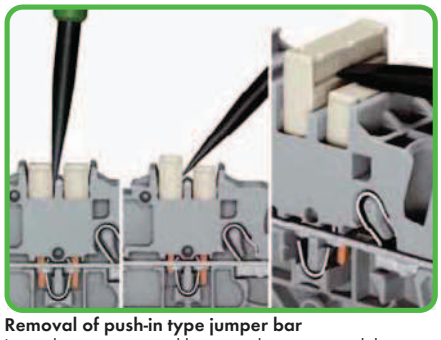
**Push-in type jumper bars**
800 V
600 V
550 V



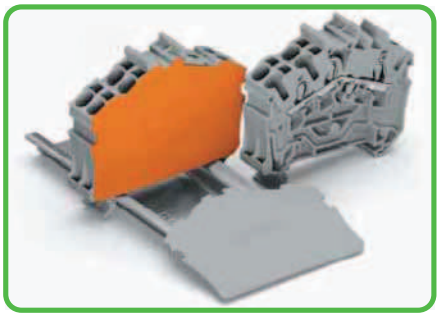
**Push-in type jumper bar 1 2 – 4**
Breaking off jumper contacts
500 V
300 V

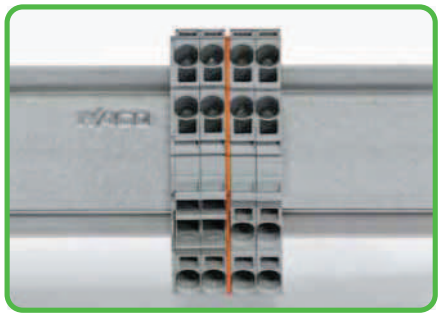


**Push-in type jumper bar 1 2 – 4**
Marking with a felt-tip pen.



**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.

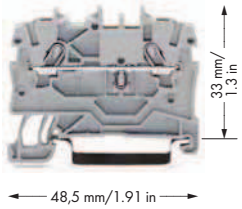


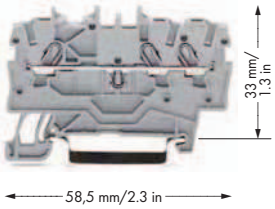


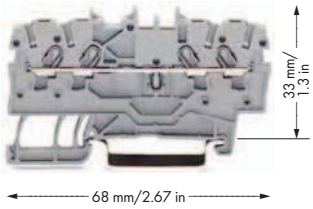
With continuous terminal strips an end plate must be used when changing from 3- to 4-conductor terminal blocks.

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

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



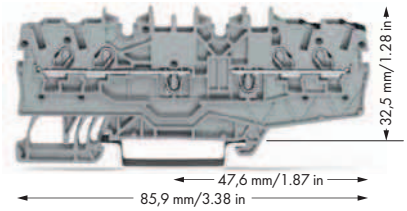
10 strips with 10 markers per card, for 3.5 mm terminal block width

| | | |
|---|---|---|
| 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

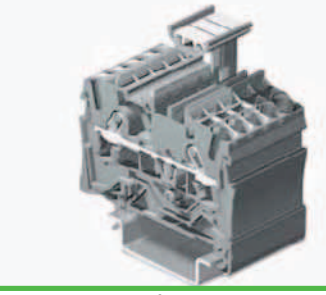
❺ Suitable for Ex e II applications
550 V, 13 A
Jumper 12 A
(also see Section 14)

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

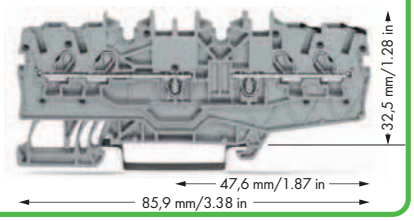
| | Item No. | Pack. Unit |
|---|---|---|
| **Double-potential terminal block,** both potentials can be commoned | | |
| gray | **2000-2141** | 50 |

## 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.



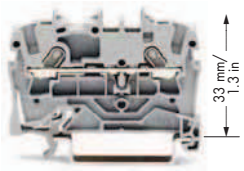
**Standard and quick marking options:**
Three marker slots are available for both individual markers and marking strips.



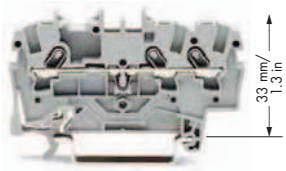
**Standard and fast marking options:**
Four marker slots (double-potential terminal blocks) are available for both individual markers and marking strips

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

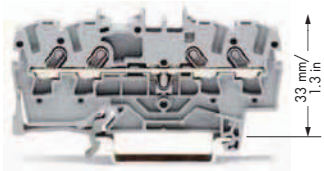
| | | |
|---|---|---|
| 0.25 - 1.5 (2.5) mm² ❶<br>800 V/8 kV/3 ❷<br>$I_N$ 18 A (24 A) | AWG 22 - 14<br>600 V, 15 A<br>600 V, 15 A | Terminal block width 4.2 mm / 0.165 in<br>9 - 11 mm / 0.39 in ❸ |
| 0.25 - 1.5 (2.5) mm² ❶<br>800 V/8 kV/3 ❷<br>$I_N$ 18 A (24 A) | AWG 22 - 14<br>600 V, 15 A<br>600 V,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

# Double-Potential Terminal Blocks 1.5 (2.5) mm²
# 2001 Series

1 Conductor sizes: 0.25 mm² – 2.5 mm² "s + f-st"; Push-in conductor sizes: 0.5 mm² – 2.5 mm² "s" and 0.75 mm² – 1.5 mm² "insulated ferrule, 12 mm"

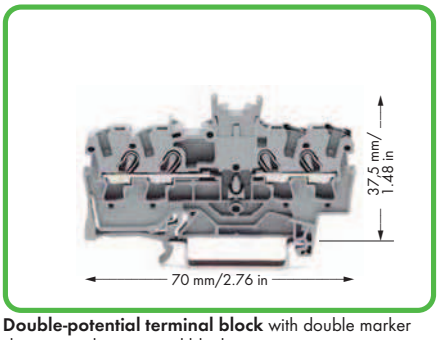
2 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

3 Strip length, see packaging or instructions.

4 Suitable for Ex i applications

5 Suitable for Ex e II applications
550 V, 17 A
Jumper 16 A
(also see Section 14)

6 See application notes for:
Ex e/Ex i separator plate, page 52
Step-down jumper, page 67
Star point jumper, page 140
Delta jumper, page 140
Push-in type wire jumper, page 140
Banana plug, page 198
TOPJOB®S connector, page 134




**Double-potential terminal block** with double marker slot centered on terminal block
gray 2001-1441
Packing unit: 100 pcs

**Notice: This double-potential terminal block cannot be commoned with push-in type jumper bars!**

Double-potential terminal blocks are space savers. Two independent feedthrough circuits are placed in one insulated housing on one level in just 4.2 mm/0.165 in. This achieves a width of just 2.1 mm/0.083 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.

For technical data and accessories,
see www.wagocatalog.com

## 2001 Series Accessories

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

**Delta jumper,** insulated,
6
$I_N$ = $I_N$ terminal block, light gray
1-2 3-4 5-6 **2001-406/020-000** 100 (4x25)

**Star point jumper,** insulated,
6
$I_N$ = $I_N$ terminal block, light gray
1-3-5 **2001-405/011-000** 100 (4x25)

**Push-in type wire jumper,**
6
insulated,
$I_N$ 16 A,
wire size 1.5 mm²
L = 60 mm **2009-412** 100 (10x10)
L = 110 mm **2009-414** 100 (10x10)
L = 250 mm **2009-416** 100 (10x10)

**Modular TOPJOB®S connector,**
6
can be snapped together,
for jumper contact slot
gray **2001-511** 100 (4x25)

**Spacer module,** can be snapped together,
e.g., for bridging commoned terminal blocks
gray **2001-549** 100 (4x25)

**End plate,**
for modular TOPJOB®S connectors,
1.5 mm thick
gray **2002-541** 100 (4x25)

**Test plug adapter,**
for test plug 4 mm Ø
gray **2009-174** 100 (4x25)

**Banana plug,**
6
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

**WMB Inline,** plain,
stretchable 4 - 4.2 mm,
2,000 WMB markers, 4 mm, on roll
white **2009-114** 1

**WMB Multi marking system,**
10 strips with 10 markers per card,
stretchable 4 - 4.2 mm
plain **793-4501** 5

**WMB Multi marking system,** plain,
10 strips with 10 markers per card,
stretchable 4 - 4.2 mm
yellow **793-4501/000-002**
red **793-4501/000-005**
blue **793-4501/000-006**
gray **793-4501/000-007**
orange **793-4501/000-012**
light green **793-4501/000-017**
green **793-4501/000-023**
violet **793-4501/000-024**
5

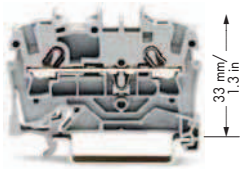
**Marking strip,** plain,
11 mm wide,
50 m roll
white **2009-110** 1

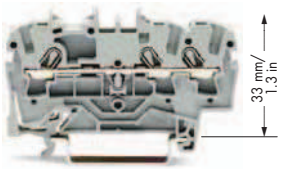
**Screwless end stop,**
for DIN 35 rail,
6 mm wide
gray **249-116** 100 (4x25)

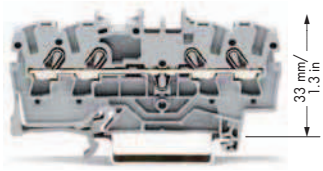
**Screwless end stop,**
for DIN 35 rail,
10 mm wide
gray **249-117** 50 (2x25)

# TOPJOB®S
# Through/Ground Conductor/Shield and Ex Terminal Blocks 2.5 (4) mm²
# 2002 Series

| | | |
|---|---|---|
| 0.25 - 2.5 (4) mm² ❶<br>800 V/8 kV/3 ❷<br>$I_N$ 24 A (32 A) | AWG 22 - 12<br>600 V, 20 A<br>600 V, 20 A | Terminal block width 5.2 mm / 0.205 in<br>10 - 12 mm / 0.43 in ❸ |
| 0.25 - 2.5 (4) mm² ❶<br>800 V/8 kV/3 ❷<br>$I_N$ 24 A (32 A) | AWG 22 - 12<br>600 V, 20 A<br>600 V, 20 A | Terminal block width 5.2 mm / 0.205 in<br>10 - 12 mm / 0.43 in ❸ |
| 0.25 - 2.5 (4) mm² ❶<br>800 V/8 kV/3 ❷<br>$I_N$ 24 A (32 A) | AWG 22 - 12<br>600 V, 20 A<br>600 V, 20 A | Terminal block width 5.2 mm / 0.205 in<br>10 - 12 mm / 0.43 in ❸ |




| | Item No. | Pack. Unit |
|---|---|---|
| **2-conductor through terminal block** | | |
| gray | **2002-1201** ❺ | 100 |
| blue | **2002-1204** ❹ ❺ | 100 |
| orange | **2002-1202** ❺ | 100 |
| red | **2002-1203** ❺ | 100 |
| black | **2002-1205** ❺ | 100 |
| yellow | **2002-1206** ❺ | 100 |
| **2-conductor ground terminal block** | | |
| green-yellow | **2002-1207** ❺ | 100 |
| **Other terminal blocks with the same profile:** | | |
| Diode | **2002-1211/1000-411** Page 120 | |

| | Item No. | Pack. Unit |
|---|---|---|
| **3-conductor through terminal block** | | |
| gray | **2002-1301** ❺ | 100 |
| blue | **2002-1304** ❹ ❺ | 100 |
| orange | **2002-1302** ❺ | 100 |
| red | **2002-1303** ❺ | 100 |
| black | **2002-1305** ❺ | 100 |
| yellow | **2002-1306** ❺ | 100 |
| **3-conductor ground terminal block** | | |
| green-yellow | **2002-1307** ❺ | 100 |
| **Other terminal blocks with the same profile:** | | |
| Diode | **2002-1311/1000-411** Page 120 | |
| LED | **2002-1321/1000-434** Page 120 | |

| | Item No. | Pack. Unit |
|---|---|---|
| **4-conductor through terminal block** | | |
| gray | **2002-1401** ❺ | 100 |
| blue | **2002-1404** ❹ ❺ | 100 |
| orange | **2002-1402** ❺ | 100 |
| red | **2002-1403** ❺ | 100 |
| black | **2002-1405** ❺ | 100 |
| yellow | **2002-1406** ❺ | 100 |
| **4-conductor ground terminal block** | | |
| green-yellow | **2002-1407** ❺ | 100 |
| **4-conductor shield terminal block** | | |
| white | **2002-1408** | 100 |
| **Other terminal blocks with the same profile:** | | |
| Diode | **2002-1411/1000-411** Page 120 | |
| LED | **2002-1421/1000-434** Page 120 | |
| Double-potential | **2002-1441** Page 59 | |

## 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) |

## 2002 Series Accessories

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

**Insulation stop,**



| | | |
|---|---|---|
| 5 pcs/strip, | | |
| 0.25 - 0.5 mm² | | |
| light gray | **2002-171** | 200 (8x25) |

**Insulation stop,**



| | | |
|---|---|---|
| 5 pcs/strip, | | |
| 0.75 - 1 mm² | | |
| dark gray | **2002-172** | 200 (8x25) |

**Protective warning marker,**



| | | |
|---|---|---|
| with high-voltage symbol, black, | | |
| for 5 terminal blocks | | |
| yellow | **2002-115** | 100 (4x25) |

**Push-in type jumper bar,** insulated,

❻



| | | |
|---|---|---|
| $I_N$ 25 A, | | |
| light gray | | |
| 2-way | **2002-402** | 200 (8x25) |
| 3-way | **2002-403** | 200 (8x25) |
| 4-way | **2002-404** | 200 (8x25) |
| 5-way | **2002-405** | 100 (4x25) |
| 6-way | **2002-406** | 100 (4x25) |
| 7-way | **2002-407** | 100 (4x25) |
| 8-way | **2002-408** | 100 (4x25) |
| 9-way | **2002-409** | 100 (4x25) |
| 10-way | **2002-410** | 100 (4x25) |

**Push-in type jumper bar,** insulated,



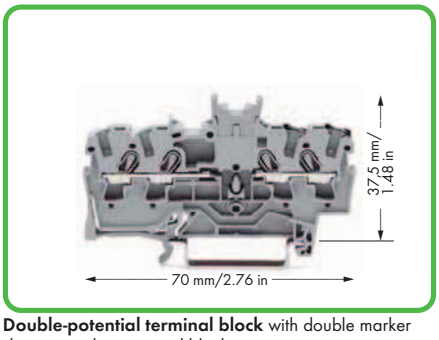
| | | |
|---|---|---|
| $I_N$ 25 A, | | |
| light gray | | |
| from 1 to 3 | **2002-433** | 200 (8x25) |
| from 1 to 4 | **2002-434** | 200 (8x25) |
| from 1 to 5 | **2002-435** | 100 (4x25) |
| from 1 to 6 | **2002-436** | 100 (4x25) |
| from 1 to 7 | **2002-437** | 100 (4x25) |
| from 1 to 8 | **2002-438** | 100 (4x25) |
| from 1 to 9 | **2002-439** | 100 (4x25) |
| from 1 to 10 | **2002-440** | 100 (4x25) |

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

# Double-Potential Terminal Blocks 2.5 (4) mm²
# 2002 Series
# Accessories for Rail-Mounted Terminal Blocks

CAGE CLAMP®S

1. Conductor sizes: 0.25 mm² – 4 mm² "s + f-st"; Push-in conductor sizes: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm"
2. 800 V = rated voltage
   8 kV = rated surge voltage
   3 = pollution degree
   (also see Section 14)
3. Strip length, see packaging or instructions.
4. Suitable for Ex i applications
5. Suitable for Ex e II applications
   550 V, 22 A
   Jumper 20 A
   (also see Section 14)
6. See application notes for:
   Ex e/Ex i separator plate, page 52
   Colored push-in type jumper bars, page 139
   Staggered jumper, page 141
   Delta jumper, page 140
   Star point jumper, page 140
   Step-down jumper, page 67
   Adjacent jumper for continuous commoning, page 139
   Push-in type wire jumper, page 140
   TOPJOB®S connector, page 134
   TOPJOB®S L-type test plug module, page 136
   Marker carrier, page 145




**Double-potential terminal block** with double marker slot centered on terminal block
gray 2002-1441
Packing unit: 100 pcs

**Notice: This double-potential terminal block cannot be commoned with push-in type jumper bars!**

Double-potential terminal blocks are space savers. Two independent feedthrough circuits are placed in one insulated housing on one level in just 5.2 mm/0.205 in. This achieves a width of just 2.6 mm/0.103 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.

For technical data and accessories, see www.wagocatalog.com

## 2002 Series Accessories

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

**Staggered jumper,** 6
insulated, $I_N$ 25 A, light gray

| | | |
|---|---|---|
| 2-way | **2002-472** | 100 (4x25) |
| 3-way | **2002-473** | 100 (4x25) |
| 4-way | **2002-474** | 100 (4x25) |
| 5-way | **2002-475** | 50 (2x25) |
| 6-way | **2002-476** | 50 (2x25) |
| 7-way | **2002-477** | 50 (2x25) |
| 8-way | **2002-478** | 50 (2x25) |
| 9-way | **2002-479** | 50 (2x25) |
| 10-way | **2002-480** | 50 (2x25) |
| 11-way | **2002-481** | 50 (2x25) |
| 12-way | **2002-482** | 50 (2x25) |

**Customized staggered jumper,**
insulated, $I_N$ 25 A, light gray

| | | |
|---|---|---|
| 1-3 | **2002-473/011-000** | 100 (4x25) |
| 1-3-5 | **2002-475/011-000** | |
| 1-3-5-7 | **2002-477/011-000** | |
| 1-3-5-7-9 | **2002-479/011-000** | |
| 1-3-5-7-9-11 | **2002-481/011-000** | 50 (2x25) |

**Delta jumper,** insulated, 6
$I_N$ = $I_N$ terminal block, light gray

| | | |
|---|---|---|
| 1-2 3-4 5-6 | **2002-406/020-000** | 100 (4x25) |

**Star point jumper,** insulated, 6
$I_N$ = $I_N$ terminal block, light gray

| | | |
|---|---|---|
| 1-3-5 | **2002-405/011-000** | 100 (4x25) |

**Step-down jumper,** insulated, 6
$I_N$ 32 A, light gray **2006-499** 50 (2x25)

**Adjacent jumper for continuous commoning,** 6
insulated, $I_N$ 25 A, light gray
2-way **2002-400** 100 (4x25)

**WMB Inline,** plain,
stretchable 5 - 5.2 mm, 1,500 WMB markers, 5 mm, on roll
white **2009-115** 1

**Push-in type wire jumper,** 6
insulated, $I_N$ 16 A, wire size 1.5 mm²

| | | |
|---|---|---|
| L = 60 mm | **2009-412** | 100 (10x10) |
| L = 110 mm | **2009-414** | 100 (10x10) |
| L = 250 mm | **2009-416** | 100 (10x10) |

**Modular TOPJOB®S connector,** 6
can be snapped together, for jumper contact slot
gray **2002-511** 100 (4x25)

**Spacer module,** can be snapped together,
e.g., for bridging commoned terminal blocks
gray **2002-549** 100 (4x25)

**End plate,**
for modular TOPJOB®S connectors, 1.5 mm thick
gray **2002-541** 100 (4x25)

**Test plug adapter,**
for test plug 4 mm Ø
gray **2009-174** 100 (4x25)

**Testing tap,**
for max. 2.5 mm²
gray **2009-182** 100 (4x25)

**TOPJOB®S test plug module,** 6
can be snapped together
gray **2002-611** 100 (4x25)

**TOPJOB®S spacer,** can be snapped together,
e.g., for bridging commoned terminal blocks
gray **2002-649** 100 (4x25)

**End plate,** for modular TOPJOB®S test plugs,
1.5 mm thick
gray **2002-641** 100 (4x25)

**Marker carrier,** 6
for jumper slots 2002 Series, 5 mm wide
gray **2002-161** 100 (4x25)

**WMB Multi marking system,**
10 strips with 10 markers per card, stretchable 5 - 5.2 mm
plain **793-5501** 5

# TOPJOB®S
# Through/Ground Conductor/Shield and Ex Terminal Blocks
# 2.5 (4) mm², 2002 Series

CAGE CLAMP®S

| | |
|---|---|
| 0.25 - 2.5 (4) mm² ❶ | AWG 22 - 12 |
| 800 V/8 kV/3 ❷ | 600 V, 20 A |
| $I_N$ 24 A (32 A) | 600 V, 20 A |

Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in ❸




❶ Conductor sizes: 0.25 mm² – 4 mm² "s + f-st";
Push-in conductor sizes: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 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, 22 A
Jumper 20 A
(also see Section 14)

❻ See application notes for:
Ex e/Ex i separator plate, page 52
Colored push-in type jumper bars, page 139
Staggered jumper, page 141
Delta jumper, page 140
Star point jumper, page 140
Adjacent jumper for continuous commoning, page 139
Push-in type wire jumper, page 140
TOPJOB®S connector, page 134
TOPJOB®S L-type test plug module, page 136
Marker carrier, page 145

| | Item No. | Pack. Unit |
|---|---|---|
| **3-conductor through terminal block** | | |
| gray | **2002-6301** ❺ | 100 |
| blue | **2002-6304** ❹ ❺ | 100 |
| orange | **2002-6302** ❺ | 100 |
| red | **2002-6303** ❺ | 100 |
| black | **2002-6305** ❺ | 100 |
| yellow | **2002-6306** ❺ | 100 |
| **3-conductor ground terminal block** | | |
| green-yellow | **2002-6307** ❺ | 100 |
| **3-conductor shield terminal block** | | |
| white | **2002-6308** | 100 |

## 2002 Series Accessories

**End and intermediate plate,** 0.8 mm thick



| | | |
|---|---|---|
| orange | **2002-6392** | 100 (4x25) |
| gray | **2002-6391** | 100 (4x25) |

**Ex e/Ex i separator,** orange, ❻



| | | |
|---|---|---|
| 3 mm thick | | |
| 120 mm | **209-191** | 50 (2x25) |

**Insulation stop,**



| | | |
|---|---|---|
| 5 pcs/strip, | | |
| 0.25 - 0.5 mm² | | |
| light gray | **2002-171** | 200 (8x25) |

**Insulation stop,**



| | | |
|---|---|---|
| 5 pcs/strip, | | |
| 0.75 - 1 mm² | | |
| dark gray | **2002-172** | 200 (8x25) |

**Push-in type jumper bar,** insulated, ❻



| | | |
|---|---|---|
| $I_N$ 25 A, | | |
| light gray | | |
| 2-way | **2002-402** | 200 (8x25) |
| 3-way | **2002-403** | 200 (8x25) |
| 4-way | **2002-404** | 200 (8x25) |
| 5-way | **2002-405** | 100 (4x25) |
| 6-way | **2002-406** | 100 (4x25) |
| 7-way | **2002-407** | 100 (4x25) |
| 8-way | **2002-408** | 100 (4x25) |
| 9-way | **2002-409** | 100 (4x25) |
| 10-way | **2002-410** | 100 (4x25) |

**Adjacent jumper for continuous commoning,** ❻



| | | |
|---|---|---|
| insulated, $I_N$ 25 A, | | |
| light gray | | |
| 2-way | **2002-400** | 100 (4x25) |

## 2002 Series Accessories

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

**Push-in type jumper bar,** insulated,



| | | |
|---|---|---|
| $I_N$ 25 A, | | |
| light gray | | |
| from 1 to 3 | **2002-433** | 200 (8x25) |
| from 1 to 4 | **2002-434** | 200 (8x25) |
| from 1 to 5 | **2002-435** | 100 (4x25) |
| from 1 to 6 | **2002-436** | 100 (4x25) |
| from 1 to 7 | **2002-437** | 100 (4x25) |
| from 1 to 8 | **2002-438** | 100 (4x25) |
| from 1 to 9 | **2002-439** | 100 (4x25) |
| from 1 to 10 | **2002-440** | 100 (4x25) |

**Delta jumper,** insulated, ❻



| | | |
|---|---|---|
| $I_N$ = $I_N$ terminal block, light gray | | |
| 1-2 3-4 5-6 | **2002-406/020-000** | |
| | | 100 (4x25) |

**Star point jumper,** insulated, ❻



| | | |
|---|---|---|
| $I_N$ = $I_N$ terminal block, light gray | | |
| 1-3-5 | **2002-405/011-000** | |
| | | 100 (4x25) |

**Staggered jumper,** ❻



| | | |
|---|---|---|
| insulated, | | |
| $I_N$ 25 A, | | |
| light gray | | |
| 2-way | **2002-472** | 100 (4x25) |
| 3-way | **2002-473** | 100 (4x25) |
| 4-way | **2002-474** | 100 (4x25) |
| 5-way | **2002-475** | 50 (2x25) |
| 6-way | **2002-476** | 50 (2x25) |
| 7-way | **2002-477** | 50 (2x25) |
| 8-way | **2002-478** | 50 (2x25) |
| 9-way | **2002-479** | 50 (2x25) |
| 10-way | **2002-480** | 50 (2x25) |
| 11-way | **2002-481** | 50 (2x25) |
| 12-way | **2002-482** | 50 (2x25) |

**Customized staggered jumper,**



| | | |
|---|---|---|
| insulated, | | |
| $I_N$ 25 A, | | |
| light gray | | |
| 1-3 | **2002-473/011-000** | |
| | | 100 (4x25) |
| 1-3-5 | **2002-475/011-000** | |
| 1-3-5-7 | **2002-477/011-000** | |
| 1-3-5-7-9 | **2002-479/011-000** | |
| 1-3-5-7-9-11 | **2002-481/011-000** | |
| | | 50 (2x25) |

**Push-in type wire jumper,** ❻



| | | |
|---|---|---|
| insulated, | | |
| $I_N$ 16 A, | | |
| wire size 1.5 mm² | | |
| L = 60 mm | **2009-412** | 100 (10x10) |
| L = 110 mm | **2009-414** | 100 (10x10) |
| L = 250 mm | **2009-416** | 100 (10x10) |

**Protective warning marker,**



| | | |
|---|---|---|
| with high-voltage symbol, black, | | |
| for 5 terminal blocks | | |
| yellow | **2002-115** | 100 (4x25) |

**Modular TOPJOB®S connector,** ❻



| | | |
|---|---|---|
| can be snapped together, | | |
| for jumper contact slot | | |
| gray | **2002-511** | 100 (4x25) |

**TOPJOB®S L-test plug module,** ❻



| | | |
|---|---|---|
| can be snapped together | | |
| gray | **2002-611** | 100 (4x25) |

**Test plug adapter,**



| | | |
|---|---|---|
| for test plug 4 mm Ø | | |
| gray | **2009-174** | 100 (4x25) |

**Testing tap,**



| | | |
|---|---|---|
| for max. 2.5 mm² | | |
| gray | **2009-182** | 100 (4x25) |

**WMB Inline,** plain,



| | | |
|---|---|---|
| stretchable 5 - 5.2 mm, | | |
| 1,500 WMB markers, 5 mm, on roll | | |
| white | **2009-115** | 1 |

**WMB Multi marking system,**



| | | |
|---|---|---|
| 10 strips with 10 markers per card, | | |
| stretchable 5 - 5.2 mm | | |
| plain | **793-5501** | 5 |

**Marking strip,** plain,



| | | |
|---|---|---|
| 11 mm wide, | | |
| 50 m roll | | |
| white | **2009-110** | 1 |

**TOPJOB®S group marker carrier,**



| | | |
|---|---|---|
| snap-on type for jumper slot, | | |
| 5 mm wide | | |
| gray | **2009-191** | 50 (2x25) |

**Marker carrier,** ❻



| | | |
|---|---|---|
| for jumper slots 2002 Series, | | |
| 5 mm wide | | |
| gray | **2002-161** | 100 (4x25) |

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

# TOPJOB®S
# Through/Ground Conductor and Ex Terminal Blocks 2.5 (4) mm²
# 2002 Series

CAGE CLAMP®S

| | |
|---|---|
| 0.25 - 2.5 (4) mm² ❶ | AWG 22 - 12 |
| 800 V/8 kV/3 ❷ | 600 V, 20 A |
| $I_N$ 24 A (32 A) | 600 V, 20 A |

Terminal block width 5.2 mm / 0.205 in
10 - 12 mm / 0.43 in ❸




❶ Conductor sizes: 0.25 mm² – 4 mm² "s + f-st"; Push-in conductor sizes: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 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.

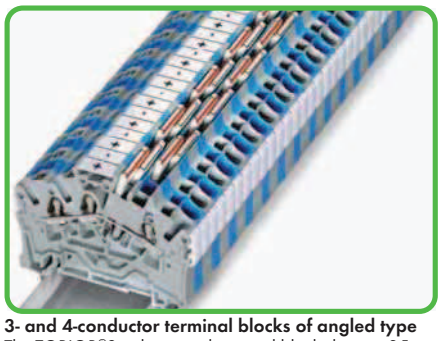
❹ Suitable for Ex i applications

❺ Suitable for Ex e II applications
550 V, 22 A
Jumper 20 A
(also see Section 14)

❻ See application notes for:
Ex e/Ex i separator plate, page 52

| | Item No. | Pack. Unit |
|---|---|---|
| **4-conductor through terminal block** | | |
| gray Ex | **2002-6401** ❺ | 100 |
| blue Ex | **2002-6404** ❹ ❺ | 100 |
| orange Ex | **2002-6402** ❺ | 100 |
| red Ex | **2002-6403** ❺ | 100 |
| black Ex | **2002-6405** ❺ | 100 |
| yellow Ex | **2002-6406** ❺ | 100 |
| **4-conductor ground terminal block** | | |
| green-yellow Ex | **2002-6407** ❺ | 100 |

**Notice:**
These terminal blocks cannot be commoned with push-in type jumper bars.



**3- and 4-conductor terminal blocks of angled type**
The TOPJOB®S rail-mounted terminal blocks have a 35-degree conductor entry angle permitting 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, e.g., these terminal blocks are a space- and cost-saving solution. This allows the cable duct to be placed very close to the terminal blocks, keeping its height relatively low.

## 2002 Series Accessories

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

**End and intermediate plate,** 0.8 mm thick



| | | |
|---|---|---|
| orange | **2002-6392** | 100 (4x25) |
| gray | **2002-6391** | 100 (4x25) |

**Ex e/Ex i separator,** orange,



3 mm thick

| | | |
|---|---|---|
| 120 mm | **209-191** | 50 (2x25) |

**Insulation stop,**



5 pcs/strip,
0.25 - 0.5 mm²

| | | |
|---|---|---|
| light gray | **2002-171** | 200 (8x25) |

**Insulation stop,**



5 pcs/strip,
0.75 - 1 mm²

| | | |
|---|---|---|
| dark gray | **2002-172** | 200 (8x25) |

**Protective warning marker,**



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

| | | |
|---|---|---|
| yellow | **2002-115** | 100 (4x25) |

**WMB Inline,** plain,



stretchable 5 - 5.2 mm,
1,500 WMB markers, 5 mm, on roll

| | | |
|---|---|---|
| white | **2009-115** | 1 |

**Marking strip,** plain,



11 mm wide,
50 m roll

| | | |
|---|---|---|
| white | **2009-110** | 1 |

**WMB Multi marking system,**



10 strips with 10 markers per card,
stretchable 5 - 5.2 mm

| | | |
|---|---|---|
| plain | **793-5501** | 5 |

**WMB Multi marking system,** plain,



10 strips with 10 markers per card,
stretchable 5 - 5.2 mm

| | | |
|---|---|---|
| yellow | **793-5501/000-002** | |
| red | **793-5501/000-005** | |
| blue | **793-5501/000-006** | |
| gray | **793-5501/000-007** | |
| orange | **793-5501/000-012** | |
| light green | **793-5501/000-017** | |
| green | **793-5501/000-023** | |
| violet | **793-5501/000-024** | |
| | | 5 |

**Screwless end stop,**



for DIN 35 rail,
6 mm wide

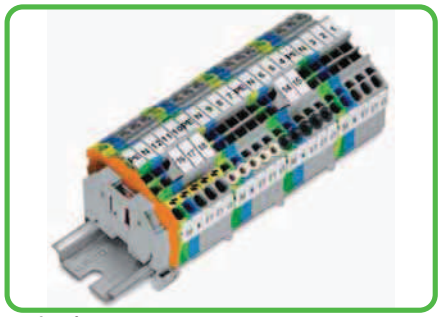
| | | |
|---|---|---|
| gray | **249-116** | 100 (4x25) |

**Screwless end stop,**



for DIN 35 rail,
10 mm wide

| | | |
|---|---|---|
| gray | **249-117** | 50 (2x25) |



**Product features:**
- CAGE CLAMP®S connection for all conductor types, with the additional benefit of stripped solid wires and fine-stranded ferruled wires being simply pushed in
- Vibration-proof, fast, maintenance-free terminations
- 3-conductor through and ground conductor terminal blocks equipped with a dual jumper slot
- 4-conductor terminal blocks permit potential multiplication – no additional jumpers or terminal blocks needed
- 3- and 4-conductor terminal blocks have **the same dimensions**

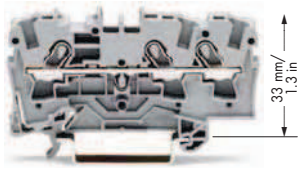
An end plate must be applied when changing from a 3-conductor terminal block to a 4-conductor terminal block and vice versa.
Also see page 53.

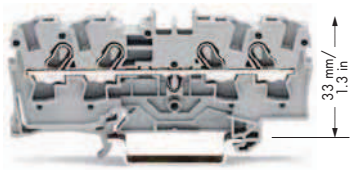
For list of approvals and user guide, see pages 634 to 637.

# TOPJOB®S
# Through/Ground Conductor/Shield and Ex Terminal Blocks 4 (6) mm²
# 2004 Series

| | | |
|---|---|---|
| 0.5 - 4 (6) mm² ❶<br>800 V/8 kV/3 ❷<br>$I_N$ 32 A (41 A) | AWG 20 - 10<br>600 V, 30 A<br>600 V, 30 A | Terminal block width 6.2 mm / 0.244 in<br>11 - 13 mm / 0.47 in ❸ |
| 0.5 - 4 (6) mm² ❶<br>800 V/8 kV/3 ❷<br>$I_N$ 32 A (41 A) | AWG 20 - 10<br>600 V, 30 A<br>600 V, 30 A | Terminal block width 6.2 mm / 0.244 in<br>11 - 13 mm / 0.47 in ❸ |
| 0.5 - 4 (6) mm² ❶<br>800 V/8 kV/3 ❷<br>$I_N$ 32 A (41 A) | AWG 20 - 10<br>600 V, 30 A<br>600 V, 30 A | Terminal block width 6.2 mm / 0.244 in<br>11 - 13 mm / 0.47 in ❸ |




| Item No. | | Pack. Unit |
|---|---|---|
| **2-conductor through terminal block** | | |
| gray | **2004-1201** ❺ | 50 |
| blue | **2004-1204** ❹ ❺ | 50 |
| orange | **2004-1202** ❺ | 50 |
| red | **2004-1203** ❺ | 50 |
| black | **2004-1205** ❺ | 50 |
| yellow | **2004-1206** ❺ | 50 |
| **2-conductor ground terminal block** | | |
| green-yellow | **2004-1207** ❺ | 50 |
| **Other terminal blocks with the same profile:** | | |
| Diode | **2004-1211/1000-401** Page 122 | |

| Item No. | | Pack. Unit |
|---|---|---|
| **3-conductor through terminal block** | | |
| gray | **2004-1301** ❺ | 50 |
| blue | **2004-1304** ❹ ❺ | 50 |
| orange | **2004-1302** ❺ | 50 |
| red | **2004-1303** ❺ | 50 |
| black | **2004-1305** ❺ | 50 |
| yellow | **2004-1306** ❺ | 50 |
| **3-conductor ground terminal block** | | |
| green-yellow | **2004-1307** ❺ | 50 |
| **Other terminal blocks with the same profile:** | | |
| Diode | **2004-1311/1000-401** Page 122 | |

| Item No. | | Pack. Unit |
|---|---|---|
| **4-conductor through terminal block** | | |
| gray | **2004-1401** ❺ | 50 |
| blue | **2004-1404** ❹ ❺ | 50 |
| orange | **2004-1402** ❺ | 50 |
| red | **2004-1403** ❺ | 50 |
| black | **2004-1405** ❺ | 50 |
| yellow | **2004-1406** ❺ | 50 |
| **4-conductor ground terminal block** | | |
| green-yellow | **2004-1407** ❺ | 50 |
| **4-conductor shield terminal block** | | |
| white | **2004-1408** | 50 |
| **Other terminal blocks with the same profile:** | | |
| Diode | **2004-1411/1000-401** Page 122 | |

## Item-Specific Accessories

| | | | |
|---|---|---|---|
| **End and intermediate plate,** 1 mm thick | | | |
| | orange | **2004-1292** | 100 (4x25) |
| | gray | **2004-1291** | 100 (4x25) |
| **Separator,** oversized, 2 mm thick | | | |
| | orange | **2004-1294** | 100 (4x25) |
| | gray | **2004-1293** | 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,** 1 mm thick | | | |
| | orange | **2004-1392** | 100 (4x25) |
| | gray | **2004-1391** | 100 (4x25) |
| **Separator,** oversized, 2 mm thick | | | |
| | orange | **2004-1394** | 100 (4x25) |
| | gray | **2004-1393** | 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,** 1 mm thick | | | |
| | orange | **2004-1492** | 100 (4x25) |
| | gray | **2004-1491** | 100 (4x25) |
| **Separator,** oversized, 2 mm thick | | | |
| | orange | **2004-1494** | 100 (4x25) |
| | gray | **2004-1493** | 100 (4x25) |
| **Ex e/Ex i separator,** orange, | | | |
| ❻ 3 mm thick | | | |
| | 120 mm | **209-191** | 50 (2x25) |

## 2004 Series Accessories

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

| | | | |
|---|---|---|---|
| **Insulation stop,** | | | |
| | 5 pcs/strip, | | |
| | 0.25 - 0.5 mm² | | |
| | light gray | **2004-171** | 200 (8x25) |
| **Push-in type jumper bar,** insulated, | | | |
| | $I_N$ 32 A, | | |
| | light gray | | |
| | 2-way | **2004-402** | 200 (8x25) |
| | 3-way | **2004-403** | 200 (8x25) |
| | 4-way | **2004-404** | 100 (4x25) |
| | 5-way | **2004-405** | 100 (4x25) |
| | 6-way | **2004-406** | 100 (4x25) |
| | 7-way | **2004-407** | 100 (4x25) |
| | 8-way | **2004-408** | 100 (4x25) |
| | 9-way | **2004-409** | 100 (4x25) |
| | 10-way | **2004-410** | 100 (4x25) |

| | | | |
|---|---|---|---|
| **Insulation stop,** | | | |
| | 5 pcs/strip, | | |
| | 0.75 - 1 mm² | | |
| | dark gray | **2004-172** | 200 (8x25) |
| **Push-in type jumper bar,** insulated, | | | |
| | $I_N$ 32 A, | | |
| | light gray | | |
| | from 1 to 3 | **2004-433** | 200 (8x25) |
| | from 1 to 4 | **2004-434** | 200 (8x25) |
| | from 1 to 5 | **2004-435** | 100 (4x25) |
| | from 1 to 6 | **2004-436** | 100 (4x25) |
| | from 1 to 7 | **2004-437** | 100 (4x25) |
| | from 1 to 8 | **2004-438** | 100 (4x25) |
| | from 1 to 9 | **2004-439** | 100 (4x25) |
| | from 1 to 10 | **2004-440** | 100 (4x25) |

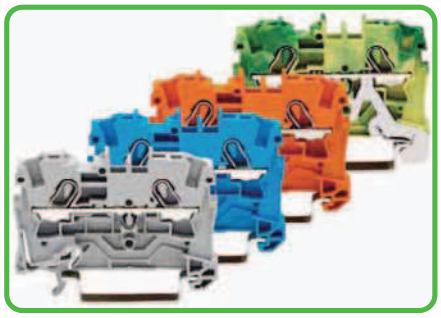
| | | | |
|---|---|---|---|
| **Delta jumper,** insulated, | | | |
| ❻ | $I_N$ = $I_N$ terminal block, light gray | | |
| | 1-2 3-4 5-6 | **2004-406/020-000** | |
| | | | 100 (4x25) |
| **Star point jumper,** insulated, | | | |
| ❻ | $I_N$ = $I_N$ terminal block, light gray | | |
| | 1-3-5 | **2004-405/011-000** | |
| | | | 100 (4x25) |
| **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 | **2004-115** | 100 (4x25) |

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

# Terminal Blocks for Ex i or Ex e II Applications



Through terminal blocks with blue insulated housing are suitable for Ex i applications.



All through and ground conductor terminal blocks are suitable for Ex e II applications.

❶ Conductor sizes: 0.5 mm² – 6 mm² "s + f-st"; Push-in conductor sizes: 1 mm² – 6 mm² "s" and 0.75 mm² – 4 mm² "insulated ferrule, 12 mm"

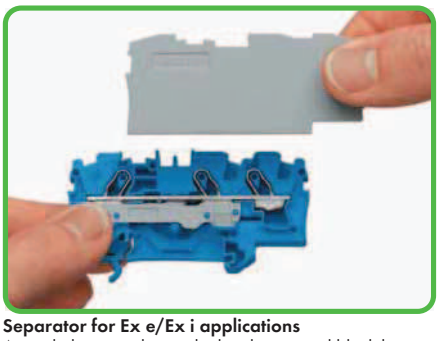
❷ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❸ Strip length, see packaging or instructions.

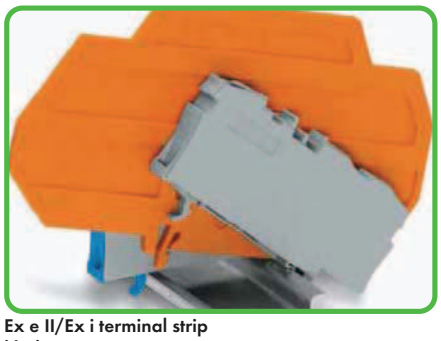
❹ Suitable for Ex i applications

❺ Suitable for Ex e II applications
550 V, 30 A
(also see Section 14)

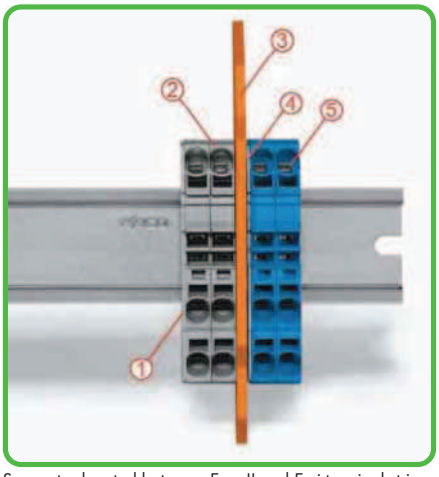
❻ See application notes for:
Ex e/Ex i separator plate, page 52
Step-down jumper, page 67
Star point jumper, page 140
Delta jumper, page 140
Banana plug, page 198
TOPJOB®S connector, page 134



**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 plate 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

## 2004 Series Accessories

| | | | |
|---|---|---|---|
| **Modular TOPJOB®S connector,** ❻ | can be snapped together, for jumper contact slot | | |
| | gray | **2004-511** | 100 (4x25) |
| **Spacer module,** can be snapped together, | e.g., for bridging commoned terminal blocks | | |
| | gray | **2004-549** | 100 (4x25) |
| **End plate,** | for modular TOPJOB®S connectors, 1.5 mm thick | | |
| | gray | **2004-541** | 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 |
| **WMB Multi marking system,** | 10 strips with 10 markers per card, stretchable 5 - 5.2 mm | | |
| | plain | **793-5501** | 5 |
| **Marking strip,** plain, | 11 mm wide, 50 m roll | | |
| | white | **2009-110** | 1 |
| **TOPJOB®S group marker carrier,** | snap-on type for jumper slot, 5 mm wide | | |
| | gray | **2009-191** | 50 (2x25) |
| **Screwless end stop,** | for DIN 35 rail, 6 mm wide | | |
| | gray | **249-116** | 100 (4x25) |

# TOPJOB®S
# Through/Ground Conductor and Ex Terminal Blocks 6 (10) mm²
# 2006 Series

CAGE CLAMP®S

| | |
|---|---|
| 0.5 - 6 (10) mm² ❶ | AWG 20 - 8 |
| 800 V/8 kV/3 ❷ | 600 V, 50 A |
| $I_N$ 41 A (57 A) | 600 V, 50 A |
| Terminal block width 7.5 mm / 0.295 in | |
| 13 - 15 mm / 0.55 in ❸ | |

| | |
|---|---|
| 0.5 - 6 (10) mm² ❶ | AWG 20 - 8 |
| 800 V/8 kV/3 ❷ | 600 V, 50 A |
| $I_N$ 41 A (57 A) | 600 V, 50 A |
| Terminal block width 7.5 mm / 0.295 in | |
| 13 - 15 mm / 0.55 in ❸ | |

❶ Conductor sizes: 0.5 mm² – 10 mm² "s + f-st"; Push-in conductor sizes: 1 mm² – 10 mm² "s" and 1.5 mm² – 6 mm² "insulated ferrule, 12 mm"

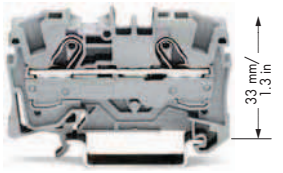
❷ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❸ Strip length, see packaging or instructions.

❹ Suitable for Ex i applications

❺ Suitable for Ex e II applications
550 V, 38 A for 2-conductor terminal blocks
550 V, 36 A for 3-conductor terminal blocks
Jumper 33 A
(also see Section 14)

❻ See application notes for:
Ex e/Ex i separator plate, page 52
Step-down jumper, page 67
Star point jumper, page 140
Banana plug, page 198
TOPJOB®S connector, page 136







| | Item No. | Pack. Unit |
|---|---|---|
| **2-conductor through terminal block** | | |
| gray | **2006-1201** ❺ | 50 |
| blue | **2006-1204** ❹ ❺ | 50 |
| orange | **2006-1202** ❺ | 50 |
| **2-conductor ground terminal block** | | |
| green-yellow | **2006-1207** ❺ | 50 |

| | Item No. | Pack. Unit |
|---|---|---|
| **3-conductor through terminal block** | | |
| gray | **2006-1301** ❺ | 25 |
| blue | **2006-1304** ❹ ❺ | 25 |
| orange | **2006-1302** ❺ | 25 |
| **3-conductor ground terminal block** | | |
| green-yellow | **2006-1307** ❺ | 25 |

## Item-Specific Accessories

| | | | |
|---|---|---|---|
| **End and intermediate plate,** 1 mm thick | | | |
| | orange | **2006-1292** | 100 (4x25) |
| | gray | **2006-1291** | 100 (4x25) |
| **Separator,** oversized, 2 mm thick | | | |
| | orange | **2006-1294** | 100 (4x25) |
| | gray | **2006-1293** | 100 (4x25) |

## Item-Specific Accessories

| | | | |
|---|---|---|---|
| **End and intermediate plate,** 1 mm thick | | | |
| | orange | **2006-1392** | 100 (4x25) |
| | gray | **2006-1391** | 100 (4x25) |
| **Separator,** oversized, 2 mm thick | | | |
| | orange | **2006-1394** | 100 (4x25) |
| | gray | **2006-1393** | 100 (4x25) |

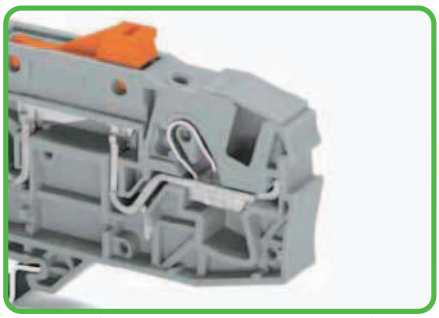
## 2006 Series Accessories

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

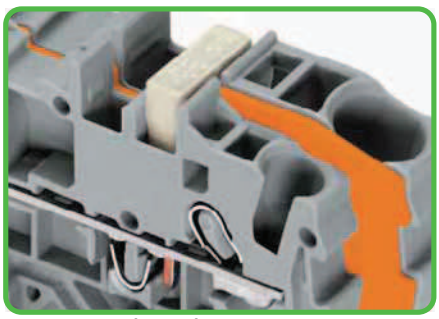
| | | | |
|---|---|---|---|
| **Ex e/Ex i separator,** orange, | | | |
| ❻ | 3 mm thick | | |
| | 120 mm | **209-191** | 50 (2x25) |
| **Push-in type jumper bar,** insulated, | | | |
| | $I_N$ 41 A, | | |
| | light gray | | |
| | 2-way | **2006-402** | 50 (2x25) |
| | 3-way | **2006-403** | 50 (2x25) |
| | 4-way | **2006-404** | 50 (2x25) |
| | 5-way | **2006-405** | 50 (2x25) |
| **Push-in type jumper bar,** insulated, | | | |
| | $I_N$ 41 A, | | |
| | light gray | | |
| | from 1 to 3 | **2006-433** | 50 (2x25) |
| | from 1 to 4 | **2006-434** | 50 (2x25) |
| | from 1 to 5 | **2006-435** | 50 (2x25) |
| **Star point jumper,** insulated, | | | |
| ❻ | $I_N$ = $I_N$ terminal block, light gray | | |
| | 1-3-5 | **2006-405/011-000** | |
| | | | 50 (2x25) |
| **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 | **2006-115** | 100 (4x25) |
| **Lockout cap,** | | | |
| | for conductor entry hole and operating slot | | |
| | gray | **2006-191** | 25 |
| **Modular TOPJOB®S connector,** | | | |
| ❻ | can be snapped together, | | |
| | for jumper contact slot | | |
| | gray | **2006-511** | 50 (2x25) |
| **Test plug adapter,** | | | |
| | for test plug 4 mm Ø | | |
| | gray | **2009-174** | 100 (4x25) |
| **Testing tap,** | | | |
| | for max. 2.5 mm² | | |
| | gray | **2009-182** | 100 (4x25) |
| **Banana plug,** | | | |
| ❻ | for socket 4 mm Ø, | | |
| | color mixed | | |
| | | **215-111** | 50 |
| **WMB Multi marking system,** | | | |
| | 10 strips with 10 markers per card, | | |
| | stretchable 5 - 5.2 mm | | |
| | plain | **793-5501** | 5 |

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



Lockout cap for covering unused clamping units of 2006 Series TOPJOB®S terminal blocks.



**Commoning with step-down jumpers**
An end plate must be inserted between the terminal blocks to be jumpered. Step-down jumper 2006-499 commons 6/4 mm² (AWG 10/12) terminal blocks with 4/2.5/1.5 mm² (AWG 12/14/16) terminal blocks. Step-down jumpers are simply pushed down for full insertion, similar to other push-in type jumper bars.

Note:
**The total current flowing shall not exceed the rating of the step-down jumper/push-in type jumper bar.**