Benefits of WAGO Connection Technology

Gastight Clamping Units – Measurable Contact Quality



Climatic chambers simulate standard atmospheres that could impact long-term constancy of clamping units. All WAGO products meet requirements for the following climatic tests:

- Temperature Cycling Test to IEC/EN 60947-7-1, IEC/EN 60998-2-2
- Industrial Atmospheres to EN ISO 6988, IEC/EN 60068-2-42, IEC/EN 60068-2-60
- Salt Spray Test to IEC/EN 60068-2-11, Marine Applications GL, LR, DNV
- Quick Change of Temperature to IEC/EN 60068-2-14
- Damp Heat, Cyclic (12 + 12 Hours) to IEC/EN 60068-2-30, Marine Applications GL, LR, DNV

Long-term consistency for the low contact resistance of both CAGE CLAMP® and CAGE CLAMP®S results from **gas-tight** clamping units. The spring clamp (acid- and saltwater-proof CrNi spring steel) presses the connected conductor against the current bar (electrolyte copper with lead-free, pure tin coating) within a defined contact zone. The conductor is embedded into the soft tin layer with high contact pressure, securing it against corrosive infiltration.

The contact pressure

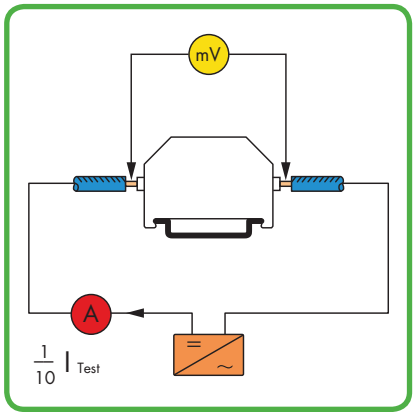
$$P\left[\frac{N}{mm^2}\right] = \frac{\text{Force F [N]}}{\text{Area A [mm}^2\text{]}}$$

exerted by CAGE CLAMP® terminations is similar to screw-style terminals.



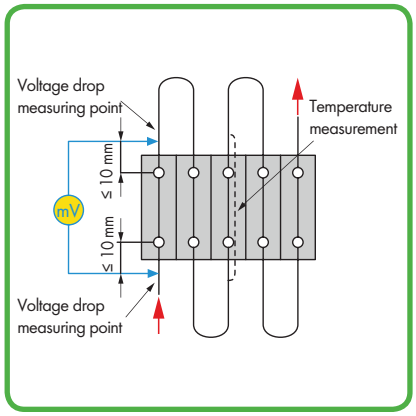
To best evaluate the quality of a clamping point, WAGO uses the following test procedures:

The **Voltage Drop Test** evaluates clamping unit quality under stresses such as vibrations, temperature changes and corrosive influences.



Test arrangement: "Voltage Drop Test"

The **Temperature-Rise Test** examines the clamping unit, including the surrounding insulation, at rated current, overcurrent and short-circuit current levels.



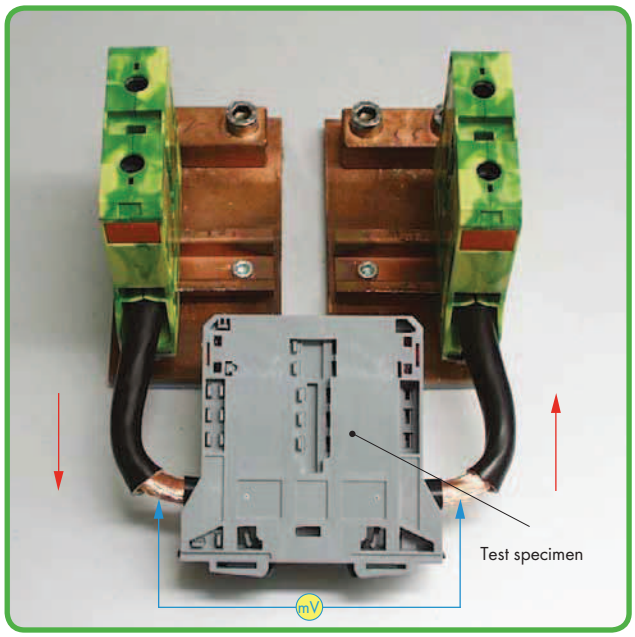
Test arrangement: "Temperature-Rise Test"

High-Current Carrying Capacity

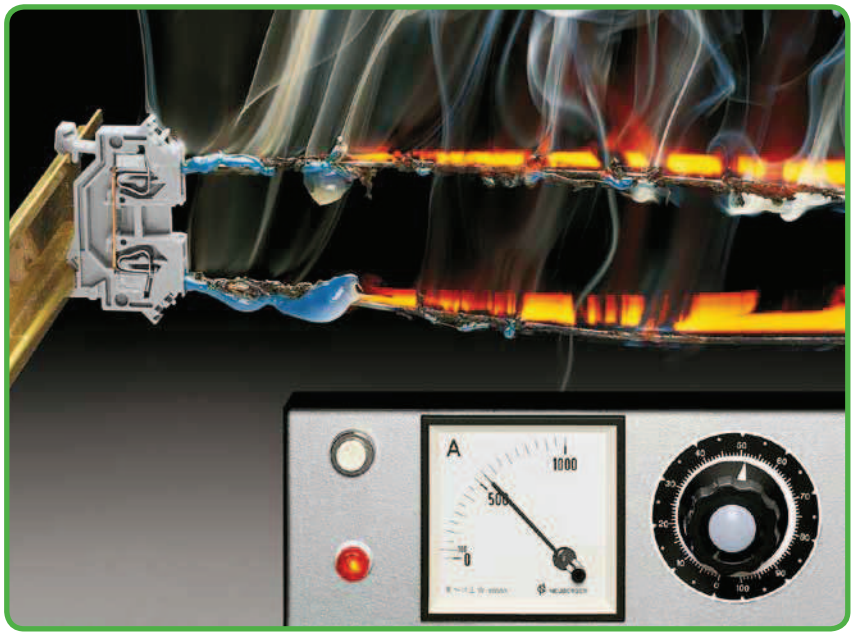
The **short-time withstand capacity** is defined in standards such as IEC/EN 60947-7-1 for through rail-mounted terminal blocks. It is a **current-carrying capacity of 120A per mm² nominal diameter** for the duration of 1 second. **In the case of a 4/0 AWG (95 mm²)** WAGO 285 Series **High-Current Terminal Block, this translates to 11,400A!**

Ground conductor terminal blocks are submitted to the "120A per mm²" test for 3x one second.

The pass criterion for the test is the voltage drop (limit value and constancy). CAGE CLAMP® and CAGE CLAMP®S connections passed this test without damage or reduced functionality.



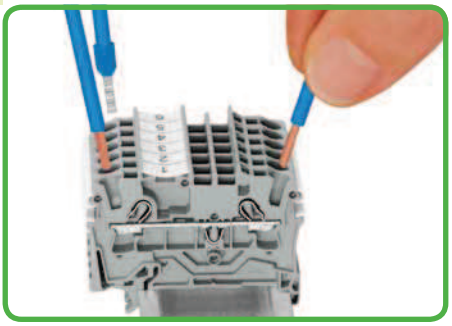
Test arrangement: "Short-Time Current Withstand Test"



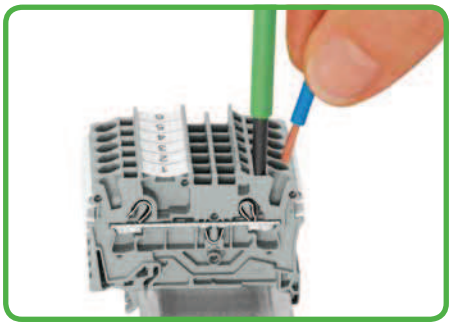
Unrealistic test of a CAGE CLAMP®-equipped,12 AWG (4mm²) rail-mounted terminal block: **Increase of current without time limit.** In such an extreme test – normally, fuse devices would have interrupted the current – **the electrical connection is undamaged.**

TOPJOB®S Rail-Mounted Terminal Blocks 2000, 2001, 2002, 2004, 2006, 2010 and 2016 Series

Conductor termination/removal



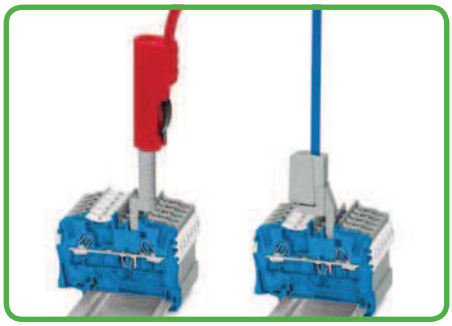
Push-in termination: Solid conductors with cross sections from either one size above, or up to two sizes below, the rated cross section can be pushed in directly – without tools.



With screwdriver: The operation of the clamp remains the same for unprepared fine-stranded conductors or small cross sections that don't allow push-in termination.

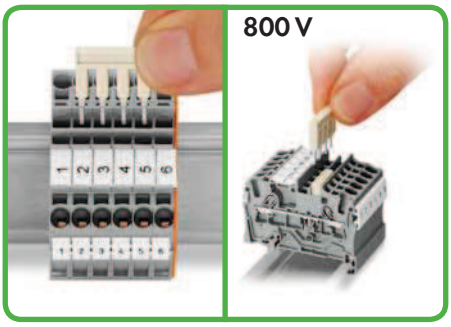
Like the original CAGE CLAMP®, a screwdriver is used for conductor removal with CAGE CLAMP®S.

Testing



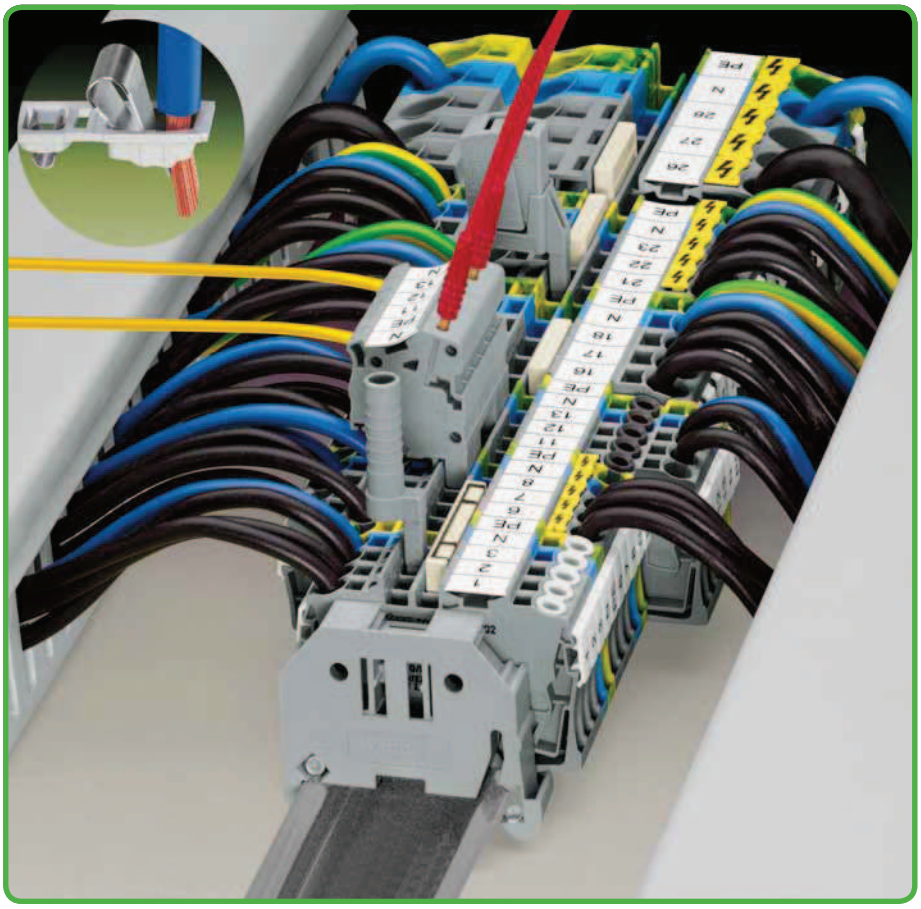
Testing of TOPJOB®S rail-mounted terminal blocks using test plug adapter or testing tap

Commoning

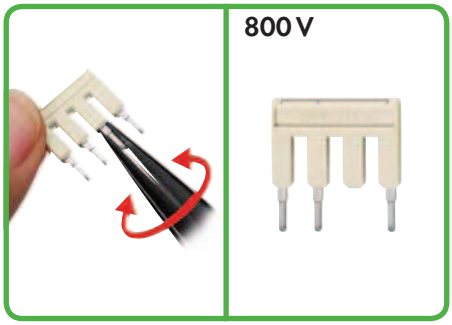


Twin integrated, spring-loaded jumper system allows use of comb-style jumper bars, test plugs and connectors.

Jumper bars rated at 800V (ex works).



Commoning

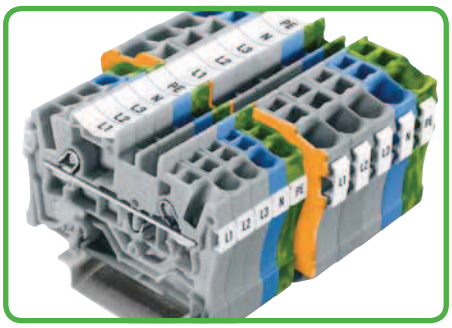


Jumper contacts that are not required can be broken off and removed, the upper-side of the jumper can then be marked accordingly. Applies to 2001, 2002 and 2004 Series.

Marking

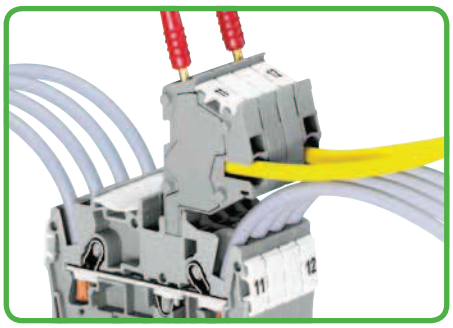


A thermal transfer printer and WAGO "smartDESIGNER" software generate the marking.



TOPJOB®S offers three marking positions for WMB markers, miniature WSB markers or a full-length marking strip.

Pre-assembled connectors

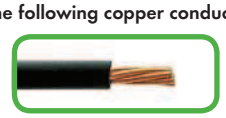


Pre-assembled connectors with CAGE CLAMP®S connection provide an additional connection option.

CAGE CLAMP®S clamps the following copper conductors:



solid



stranded



fine-stranded



tip bonded



with ferrule



with pin terminal

Strip length, see packaging or instructions.

TOPJOB®S
Rail-Mounted Terminal Blocks 1.0 (1.5) mm²
2000 Series

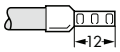
CAGE CLAMP®S

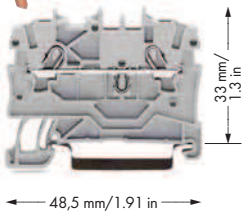
0.14 - 1.0 (1.5) mm² ❶	AWG 24 - 16
800 V/6 kV/3	600 V, 10 A
I_N 13.5 A (18 A)	600 V, 10 A

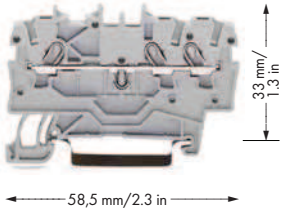
Terminal block width 3.5 mm / 0.138 in
9 - 11 mm / 0.39 in
❷ Approvals

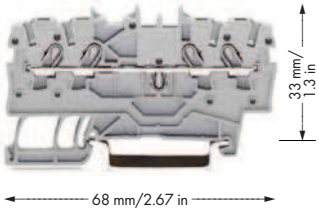
❶ Conductor sizes: 0.14 – 1.5 mm² "s + f-st";
Push-in conductor sizes: 0.5 – 1.5 mm² "s" and 0.5 – 1 mm² "insulated ferrule, 12 mm"











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

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

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

Item-Specific Accessories

End and intermediate plate, 0.7 mm thick



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

End and intermediate plate, 0.7 mm thick



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

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**

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)
: :
10-way **2000-410** 100 (4x25)

Push-in type jumper bar, insulated, I_N 14 A, light gray



1 - 3 **2000-433** 200 (8x25)
1 - 4 **2000-434** 200 (8x25)
1 - 5 **2000-435** 100 (4x25)
: :
1 - 10 **2000-440** 100 (4x25)

Star point jumper, insulated,



I_N = I_N terminal block, light gray
1–3–5 **2000-405/011-000**
100 (4x25)

Protective warning marker, with high-voltage symbol,
for 5 terminal blocks



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

WMB Multi marking system,

10 strips with 10 markers per card
for 3.5 mm terminal block width,
plain **793-3501** 50 (10x5)

Marking strips, plain



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

Operating tool with partially insulated shaft,



type 1, (2.5 x 0.4) mm blade
210-719 1

Suitable for Ex i applications

Test plug adapter, for test plug 4 mm Ø



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

Insulated ferrules, extra long,
for TOPJOB®S terminal blocks
see page 195



Testing tap, for max. 2.5 mm²/AWG 14



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

❷ Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

WAGO®

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

0.25 - 1.5 (2.5) mm² ❶ | **AWG 22 - 14**
800 V/8 kV/3 | **600 V, 10 A**
I_N 18 A (24 A) | **600 V, 10 A**
Terminal block width 4.2 mm / 0.165 in
9 – 11 mm / 0.39 in
❷ Approvals

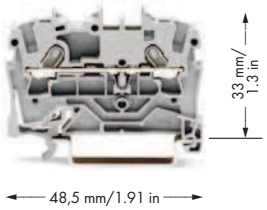
0.25 - 1.5 (2.5) mm² ❶ | **AWG 22 - 14**
800 V/8 kV/3 | **600 V, 10 A**
I_N 18 A (24 A) | **600 V, 10 A**
Terminal block width 4.2 mm / 0.165 in
9 – 11 mm / 0.39 in
❷ Approvals

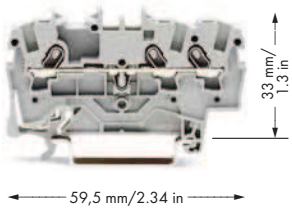
0.25 - 1.5 (2.5) mm² ❶ | **AWG 22 - 14**
800 V/8 kV/3 | **600 V, 10 A**
I_N 18 A (24 A) | **600 V, 10 A**
Terminal block width 4.2 mm / 0.165 in
9 – 11 mm / 0.39 in
❷ Approvals

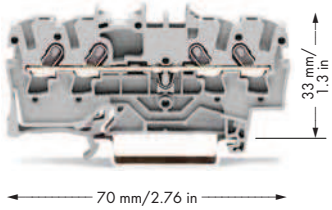


❶ Conductor sizes: 0.25 – 2.5 mm² "s + f-st";
Push-in conductor sizes: 0.5 – 2.5 mm² "s" and
0.75 – 1.5 mm² "insulated ferrule, 12 mm"









Color	Item No.	Pack. Unit
2-conductor through terminal block		
gray Ex	**2001-1201**	100
blue Ex	**2001-1204**	100
orange Ex	**2001-1202**	100
red Ex	**2001-1203**	100
black Ex	**2001-1205**	100
yellow Ex	**2001-1206**	100
2-conductor ground terminal block		
green-yellow Ex	**2001-1207**	100
Other terminal blocks with the same profile:		
Diode	**2001-1211/1000-411**	Volume 1

Color	Item No.	Pack. Unit
3-conductor through terminal block		
gray Ex	**2001-1301**	100
blue Ex	**2001-1304**	100
orange Ex	**2001-1302**	100
red Ex	**2001-1303**	100
black Ex	**2001-1305**	100
yellow Ex	**2001-1306**	100
3-conductor ground terminal block		
green-yellow Ex	**2001-1307**	100
Other terminal blocks with the same profile:		
Diode	**2001-1311/1000-411**	Volume 1
LED	**2001-1321/1000-434**	Volume 1

Color	Item No.	Pack. Unit
4-conductor through terminal block		
gray Ex	**2001-1401**	100
blue Ex	**2001-1404**	100
orange Ex	**2001-1402**	100
red Ex	**2001-1403**	100
black Ex	**2001-1405**	100
yellow Ex	**2001-1406**	100
4-conductor ground terminal block		
green-yellow Ex	**2001-1407**	100
Other terminal blocks with the same profile:		
Diode	**2001-1411/1000-411**	Volume 1
Diode	**2001-1411/1000-434**	Volume 1
Double-potential	**2001-1441**	Volume 1

Item-Specific Accessories

Separator for Ex e/Ex i applications, see page 30

End and intermediate plate, 0.8 mm thick



orange **2002-1292** 100 (4x25)
gray **2002-1291** 100 (4x25)

End and intermediate plate, 0.8 mm thick



orange **2002-1392** 100 (4x25)
gray **2002-1391** 100 (4x25)

End and intermediate plate, 0.8 mm thick



orange **2002-1492** 100 (4x25)
gray **2002-1491** 100 (4x25)

Separator, oversized, 0.8 mm thick



orange **2002-1294** 100 (4x25)
gray **2002-1293** 100 (4x25)

Separator, oversized, 0.8 mm thick



orange **2002-1394** 100 (4x25)
gray **2002-1393** 100 (4x25)

Separator, oversized, 0.8 mm thick



orange **2002-1494** 100 (4x25)
gray **2002-1493** 100 (4x25)

2001 Series Accessories

Appropriate marking systems: **WMB/Marking Strips**

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)
: :
10-way **2001-410** 100 (4x25)

Push-in type jumper bar, insulated, I_N 18 A, light gray



1 - 3 **2001-433** 200 (8x25)
1 - 4 **2001-434** 200 (8x25)
1 - 5 **2001-435** 100 (4x25)
: :
1 - 10 **2001-440** 100 (4x25)

Push-in type wire jumper, insulated, I_N 16 A,
wire size 1.5 mm²/AWG 16



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

Insulation stop,



5 pcs/strip,
0.25 – 0.5 mm²
light gray **2001-171** 200 (8x25)

Protective warning marker, with high-voltage symbol,
for 5 terminal blocks



yellow **2001-115** 100 (4x25)

TOPJOB®S connector, modular,
for jumper contact slot



gray **2001-511** 100 (4x25)

Spacer module
gray **2001-549** 100 (4x25)

WMB Multi marking system,

10 strips with 10 markers per card,
stretchable 4 – 4.2 mm
plain **793-4501** 5

Suitable for Ex i applications
Suitable for Ex e II applications
550 V, 17 A

Operating tool with partially insulated shaft,



type 1, (2.5 x 0.4) mm blade
210-719 1

Marking strip, plain,



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

Insulated ferrules, extra long,



for TOPJOB®S terminal blocks
see page 195

❷ Approvals are available online at: www.wago.com.

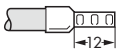
For technical explanations and abbreviations, see technical section.

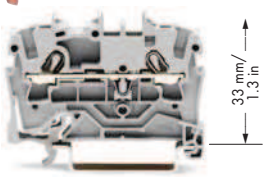
TOPJOB®S
Through/Ground Conductor and Ex Terminal Blocks 2.5 (4) mm²
2002 Series

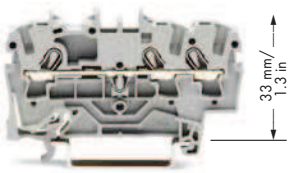
CAGE CLAMP®S

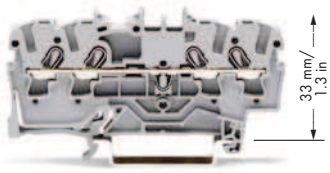
0.25 - 2.5 (4) mm² ❶ 800 V/8 kV/3 I_N 24 A (32 A) AWG 22 - 12 600 V, 20 A 600 V, 20 A Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in. ❷ Approvals	0.25 - 2.5 (4) mm² ❶ 800 V/8 kV/3 I_N 24 A (32 A) AWG 22 - 12 600 V, 20 A 600 V, 20 A Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43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

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









Color	Item No.	Pack. Unit
2-conductor through terminal block		
gray (Ex)	**2002-1201**	100
blue (Ex)	**2002-1204**	100
orange (Ex)	**2002-1202**	100
red (Ex)	**2002-1203**	100
black (Ex)	**2002-1205**	100
yellow (Ex)	**2002-1206**	100
2-conductor ground terminal block		
green-yellow (Ex)	**2002-1207**	100
Other terminal blocks with the same profile:		
Diode	**2002-1211/1000-411**	Page 42

Color	Item No.	Pack. Unit
3-conductor through terminal block		
gray (Ex)	**2002-1301**	100
blue (Ex)	**2002-1304**	100
orange (Ex)	**2002-1302**	100
red (Ex)	**2002-1303**	100
black (Ex)	**2002-1305**	100
yellow (Ex)	**2002-1306**	100
3-conductor ground terminal block		
green-yellow (Ex)	**2002-1307**	100
Other terminal blocks with the same profile:		
Diode	**2002-1311/1000-411**	Page 42
LED	**2002-1321/1000-434**	Page 42

Color	Item No.	Pack. Unit
4-conductor through terminal block		
gray (Ex)	**2002-1401**	100
blue (Ex)	**2002-1404**	100
orange (Ex)	**2002-1402**	100
red (Ex)	**2002-1403**	100
black (Ex)	**2002-1405**	100
yellow (Ex)	**2002-1406**	100
4-conductor ground terminal block		
green-yellow (Ex)	**2002-1407**	100
Other terminal blocks with the same profile:		
Diode	**2002-1411/1000-411**	Page 42
Diode	**2002-1411/1000-434**	Page 42
Double-potential	**2002-1441**	Volume 1

Item-Specific Accessories

Separator for Ex e/Ex i applications, see page 30

End and intermediate plate, 0.8 mm thick



orange	**2002-1292**	100 (4x25)
gray	**2002-1291**	100 (4x25)

End and intermediate plate, 0.8 mm thick



orange	**2002-1392**	100 (4x25)
gray	**2002-1391**	100 (4x25)

End and intermediate plate, 0.8 mm thick



orange	**2002-1492**	100 (4x25)
gray	**2002-1491**	100 (4x25)

Separator, oversized, 0.8 mm thick



orange	**2002-1294**	100 (4x25)
gray	**2002-1293**	100 (4x25)

Separator, oversized, 0.8 mm thick



orange	**2002-1394**	100 (4x25)
gray	**2002-1393**	100 (4x25)

Separator, oversized, 0.8 mm thick



orange	**2002-1494**	100 (4x25)
gray	**2002-1493**	100 (4x25)

2002 Series Accessories

Appropriate marking systems: **WMB/Marking Strips/WMB Inline/Mini-WSB**

Push-in type jumper bar, insulated, I_N 25 A, light gray



2-way	**2002-402**	200 (8x25)
3-way	**2002-403**	200 (8x25)
4-way	**2002-404**	200 (8x25)
:	:	
10-way	**2002-410**	100 (4x25)

Push-in type jumper bar, insulated, I_N 25 A, light gray



1 - 3	**2002-433**	200 (8x25)
1 - 4	**2002-434**	200 (8x25)
1 - 5	**2002-435**	100 (4x25)
:	:	
1 - 10	**2002-440**	100 (4x25)

Staggered jumper, 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)
:	:	
12-way	**2002-482**	50 (2x25)

Insulation stop, 5 pcs/strip 200 strips



light gray	**2002-171**	0.25–0.5 mm²
dark gray	**2002-172**	0.75–1 mm²

Protective warning marker, with high-voltage symbol, for 5 terminal blocks



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

TOPJOB®S connector, modular,



for jumper contact slot

gray	**2002-511**	100 (4x25)

Spacer module

gray	**2002-549**	100 (4x25)

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, 50m roll

white	**2009-110**	1

- Suitable for Ex i applications
- (Ex) Suitable for Ex e II applications 550 V, 22 A

Operating tool with partially insulated shaft,



type 2, (3.5 x 0.5) mm blade

	210-720	1

Insulated ferrules, extra long,



for TOPJOB®S terminal blocks

see page 195

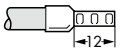
TOPJOB®S
Through/Ground and Ex Terminal Blocks 2.5 (4) mm², Angled Type
2002 Series

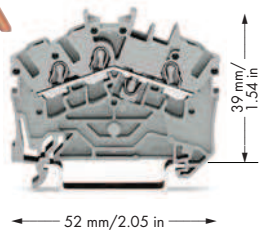
0.25 - 2.5 (4) mm² ❶ 800 V/8 kV/3 I_N 24 A (32 A)	AWG 22 - 12 600 V, 20 A 600 V, 20 A
Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in.	
❷ Approvals	

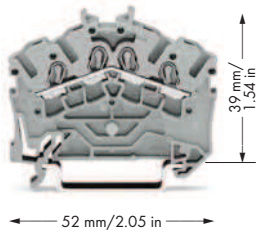
0.25 - 2.5 (4) mm² ❶ 800 V/8 kV/3 I_N 24 A (32 A)	AWG 22 - 12 600 V, 20 A 600 V, 20 A
Terminal block width 5.2 mm / 0.205 in 10 - 12 mm / 0.43 in.	
❷ Approvals	

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









Color	Item No.	Pack. Unit
3-conductor through terminal block		
gray Ex	**2002-6301**	100
blue Ex	**2002-6304**	100
orange Ex	**2002-6302**	100
Additional colors pending		
3-conductor ground terminal block		
green-yellow Ex	**2002-6307**	100

Color	Item No.	Pack. Unit
4-conductor through terminal block		
gray Ex	**2002-6401**	100
blue Ex	**2002-6404**	100
orange Ex	**2002-6402**	100
Additional colors pending		
4-conductor ground terminal block		
green-yellow Ex	**2002-6407**	100

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

Item-Specific Accessories

End and intermediate plate, 0.8 mm thick



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

End and intermediate plate, 0.8 mm thick



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

2002 Series Accessories

Appropriate marking systems:
WMB/Marker Strips/WMB Inline/Mini-WSB

Push-in type jumper bar, insulated, 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)
:	:	
10-way	**2002-410**	100 (4x25)

Push-in type jumper bars, light gray, insulated, I_N 25 A



1 - 3	**2002-433**	200 (8x25)
1 - 4	**2002-434**	200 (8x25)
1 - 5	**2002-435**	100 (4x25)
:	:	
1 - 10	**2002-440**	100 (4x25)

Staggered jumper, 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)
:	:	
12-way	**2002-482**	50 (2x25)

TOPJOB®S connector, modular,



for jumper contact slot		
gray	**2002-511**	100 (4x25)

Spacer module

gray	**2002-549**	100 (4x25)

Operating tool with partially insulated shaft,



type 2, (3.5 x 0.5) mm blade		
	210-720	1

Insulated ferrules, extra long,



for TOPJOB®S terminal blocks,
see page 195

Insulation stop, 5 pcs/strip 200 strips



light gray	**2002-171**	0.25–0.5 mm²
dark gray	**2002-172**	0.75–1 mm²

Protective warning marker, with high-voltage symbol,



for 5 terminal blocks		
yellow	**2002-115**	100 (4x25)

Test plug adapter, for test plug 4 mm Ø



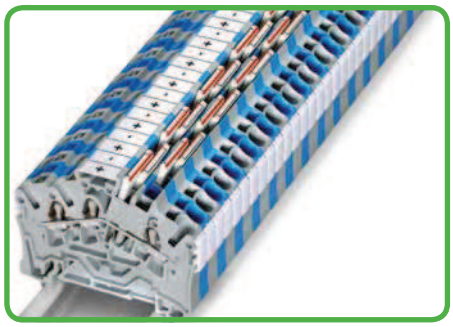
gray	**2009-174**	100 (4x25)
Testing tap, for max. 2.5 mm²/AWG 14		
gray	**2009-182**	100 (4x25)

Banana plugs, only for safety extra-low voltage (42 V)



black	**215-311**	50
red	**215-212**	50
blue	**215-711**	50

Suitable for Ex i applications
Suitable for Ex e II applications
550 V, 22 A



3- and 4-conductor terminal blocks

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.

Product features:

- CAGE CLAMP®S connection for all conductor types, with the additional benefit of solid and ferruled conductors 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.

❷ Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

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

CAGE CLAMP®S

0.5 - 4 (6) mm² ❶	AWG 20 - 10
800 V/8 kV/3	600 V, 30 A
I_N 32 A (41 A)	600 V, 30 A

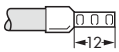
Terminal block width 6.2 mm / 0.244 in
11 - 13 mm / 0.47 in
❷ Approvals

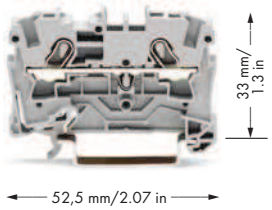
0.5 - 4 (6) mm² ❶ | AWG 20 - 10
800 V/8 kV/3 | 600 V, 30 A
I_N 32 A (41 A) | 600 V, 30 A
Terminal block width 6.2 mm / 0.244 in
11 - 13 mm / 0.47 in
❷ Approvals

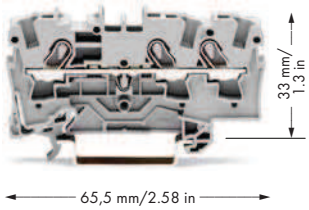
0.5 - 4 (6) mm² ❶ | AWG 20 - 10
800 V/8 kV/3 | 600 V, 30 A
I_N 32 A (41 A) | 600 V, 30 A
Terminal block width 6.2 mm / 0.244 in
11 - 13 mm / 0.47 in
❷ Approvals

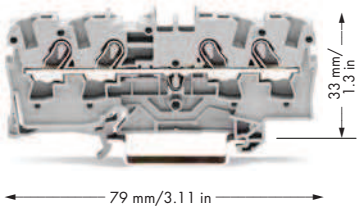


❶ Conductor sizes: 0.5 – 6 mm² "s + f-st";
Push-in conductor sizes: 1 – 6 mm² "s" and
0.75 – 4 mm² "insulated ferrule, 12 mm"









Color	Item No.	Pack. Unit
2-conductor through terminal block		
gray Ex	**2004-1201**	100
blue Ex	**2004-1204**	100
orange Ex	**2004-1202**	100
red Ex	**2004-1203**	100
black Ex	**2004-1205**	100
yellow Ex	**2004-1206**	100
2-conductor ground terminal block		
green-yellow Ex	**2004-1207**	100

Color	Item No.	Pack. Unit
3-conductor through terminal block		
gray Ex	**2004-1301**	100
blue Ex	**2004-1304**	100
orange Ex	**2004-1302**	100
red Ex	**2004-1303**	100
black Ex	**2004-1305**	100
yellow Ex	**2004-1306**	100
3-conductor ground terminal block		
green-yellow Ex	**2004-1307**	100

Color	Item No.	Pack. Unit
4-conductor through terminal block		
gray Ex	**2004-1401**	100
blue Ex	**2004-1404**	100
orange Ex	**2004-1402**	100
red Ex	**2004-1403**	100
black Ex	**2004-1405**	100
yellow Ex	**2004-1406**	100
4-conductor ground terminal block		
green-yellow Ex	**2004-1407**	100

Item-Specific Accessories

Separator for Ex e/Ex i applications, see page 30

End and intermediate plate, 1 mm thick



orange	**2004-1292**	100 (4x25)
gray	**2004-1291**	100 (4x25)

End and intermediate plate, 1 mm thick



orange	**2004-1392**	100 (4x25)
gray	**2004-1391**	100 (4x25)

End and intermediate plate, 1 mm thick



orange	**2004-1492**	100 (4x25)
gray	**2004-1491**	100 (4x25)

Separator, oversized, 0.8 mm thick



orange	**2004-1294**	100 (4x25)
gray	**2004-1293**	100 (4x25)

Separator, oversized, 0.8 mm thick



orange	**2004-1394**	100 (4x25)
gray	**2004-1393**	100 (4x25)

Separator, oversized, 0.8 mm thick



orange	**2004-1494**	100 (4x25)
gray	**2004-1493**	100 (4x25)

2004 Series Accessories

Appropriate marking systems: **WMB/Marking strips/Mini-WSB**

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)
:	:	
10-way	**2004-410**	100 (4x25)

Push-in type jumper bar, insulated, I_N 32 A, light gray



1 - 3	**2004-433**	200 (8x25)
1 - 4	**2004-434**	200 (8x25)
1 - 5	**2004-435**	100 (4x25)
:	:	
1 - 10	**2004-440**	100 (4x25)

Star point jumper, insulated,



I_N = I_N terminal block, light gray
1–3–5 **2004-405/011-000** 100 (4x25)

Step-down jumper, insulated,



I_N 32 A
light gray **2006-499** 50 (2x25)

Insulation stop, 5 pcs/strip 200 strips



light gray	**2004-171**	0.25–0.5 mm²
dark gray	**2004-172**	0.75–1 mm²

Protective warning marker, with high-voltage symbol, for 5 terminal blocks



yellow **2004-115** 100 (4x25)

TOPJOB®S connector, modular,



for jumper contact slot
gray **2004-511** 100 (4x25)

Spacer module

gray **2004-549** 100 (4x25)

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,
50m roll
white **2009-110** 1

Suitable for Ex i applications
Ex Suitable for Ex e II applications
550 V, 30 A

Operating tool with partially insulated shaft,



type 2, (3.5 x 0.5) mm blade
210-720 1

Insulated ferrules, extra long,



for TOPJOB®S terminal blocks
see page 195

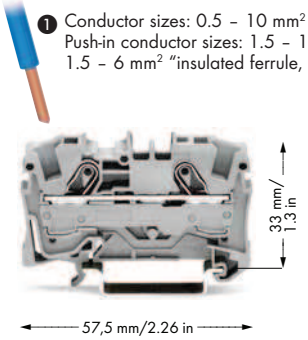
TOPJOB®S
Through/Ground Conductor and Ex Terminal Blocks 6 (10) mm²
2006 Series

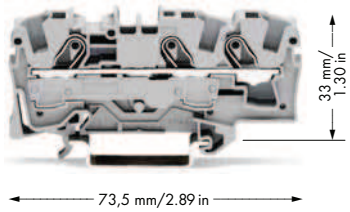
0.5 - 6 (10) mm² ❶ | **AWG 20 - 8**
800 V/8 kV/3 | **600 V, 50 A**
I_N 41 A (57 A) | **600 V, 50 A**
Terminal block width 7.5 mm / 0.295 in
13 - 15 mm / 0.55 in
❷ **Approvals**

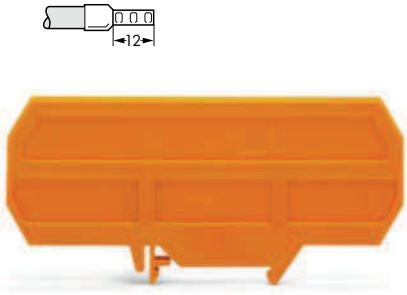
0.5 - 6 (10) mm² ❶ | **AWG 20 - 8**
800 V/8 kV/3 | **600 V, 50 A**
I_N 41 A (57 A) | **600 V, 50 A**
Terminal block width 7.5 mm / 0.295 in
13 - 15 mm / 0.55 in
❷ **Approvals**

Separator for Ex e/Ex i applications

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







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

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

	Item No.	Pack. Unit
Separator for Ex e/Ex i applications, 3 mm thick,		
orange		
90 mm wide	**209-190**	50 (2x25)
120 mm wide	**209-191**	50 (2x25)

Item-Specific Accessories

End and intermediate plate, 1 mm thick



orange	**2006-1292**	100 (4x25)
gray	**2006-1291**	100 (4x25)

End and intermediate plate, 1 mm thick



orange	**2006-1392**	100 (4x25)
gray	**2006-1391**	100 (4x25)

2006 Series Accessories
Appropriate marking systems: **WMB/Marking strips/Mini-WSB**

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



1 - 3	**2006-433**	50 (2x25)
1 - 4	**2006-434**	50 (2x25)
1 - 5	**2006-435**	50 (2x25)

Star point jumper, insulated,



I_N = I_N terminal block,
light gray
1–3–5 **2004-405/011-000**
100 (4x25)

Step-down jumper, insulated,



I_N 32 A
light gray **2006-499** 50 (2x25)

Protective warning marker, with high-voltage symbol,



for 5 terminal blocks
yellow **2006-115** 100 (4x25)

Operating tool with partially insulated shaft,



type 3, (5.5 x 0.8) mm blade
210-721 1

Test plug adapter, for test plug 4 mm Ø



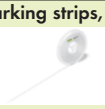
gray	**2009-174**	100 (4x25)
Testing tap, for max. 2.5 mm²/AWG 14		
gray	**2009-182**	100 (4x25)

Banana plugs, only for safety extra-low voltage (42 V)



black	**215-311**	50
red	**215-212**	50
blue	**215-711**	50

Marking strips, plain,



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

WMB Multi marking system,



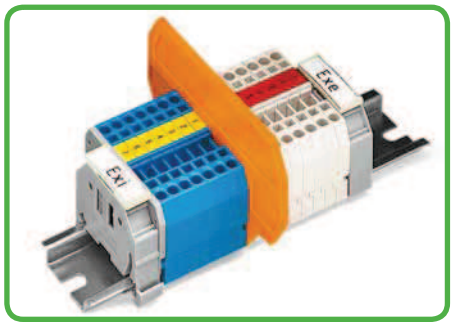
10 strips with 10 markers per card,
stretchable 5 – 5.2 mm
plain **793-5501** 50 (10x5)

Insulated ferrules, extra long,



for TOPJOB®S terminal blocks
see page 195

Ⓔx Suitable for Ex e II applications
550 V, 38 A (2-conductor terminal blocks)
550 V, 36 A (3-conductor terminal blocks)



Separator for Ex e/Ex i applications
According to EN 50020, a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. The use of Ex e/Ex i separators is a space-saving solution when Ex e and Ex i terminal blocks are mounted on a common carrier rail.

Suitable for Series: 279 to 282, 2001, 2002 and 2004.

209-190 for 2-conductor terminal blocks.
209-191 for 2-, 3-, 4-conductor terminal blocks.

❷ Approvals are available online at: www.wago.com.

For technical explanations and abbreviations, see technical section.

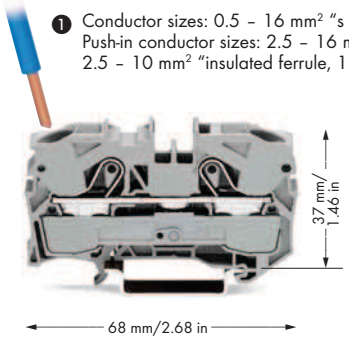
TOPJOB®S
Through/Ground Conductor and Ex Terminal Blocks 10 mm²
2010 Series

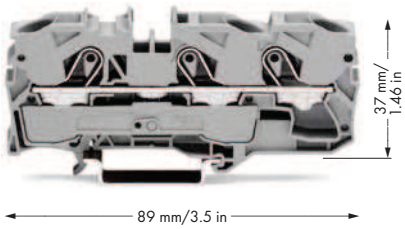
0.5 - 10 (16) mm² ❶ | **AWG 20 - 6**
800 V/8 kV/3 | **600 V, 65 A** UL
I_N 57 A (76 A) | **600 V, 65 A** CSA
Terminal block width 10 mm / 0.394 in
17 - 19 mm / 0.71 in
❷ **Approvals**

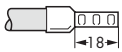
0.5 - 10 (16) mm² ❶ | **AWG 20 - 6**
800 V/8 kV/3 | **600 V, 65 A** UL
I_N 57 A (76 A) | **600 V, 65 A** CSA
Terminal block width 10 mm / 0.394 in
17 - 19 mm / 0.71 in
❷ **Approvals**

Step-down jumper

❶ Conductor sizes: 0.5 – 16 mm² "s + f-st";
Push-in conductor sizes: 2.5 – 16 mm² "s" and
2.5 – 10 mm² "insulated ferrule, 18 mm"









Color	Item No.	Pack. Unit
2-conductor through terminal block		
gray Ex	**2010-1201**	25
blue Ex	**2010-1204**	25
orange Ex	**2010-1202**	25
2-conductor ground terminal block		
green-yellow Ex	**2010-1207**	25

Color	Item No.	Pack. Unit
3-conductor through terminal block		
gray Ex	**2010-1301**	25
blue Ex	**2010-1304**	25
orange Ex	**2010-1302**	25
3-conductor ground terminal block		
green-yellow Ex	**2010-1307**	25

Item No.	Pack. Unit
Step-down jumper, light gray, insulated, I_N 32 A, commons 6/4mm² (AWG 10/12) t. blocks with 4/2.5/1.5mm² (AWG 12/14/16) blocks.	
2006-499	50 (2x25)
Step-down jumper, light gray, insulated, I_N 32 A, commons 16/10 mm² (AWG 16/8) t. blocks with 10/6/4/2.5 mm² (AWG 8/10/12/14) blocks.	
2016-499	50 (2x25)

Item-Specific Accessories

End and intermediate plate, 1 mm thick



orange	**2010-1292**	100 (4x25)
gray	**2010-1291**	100 (4x25)

End and intermediate plate, 1 mm thick



orange	**2010-1392**	100 (4x25)
gray	**2010-1391**	100 (4x25)

2010 Series Accessories

Appropriate marking systems: **WMB/Marking strips/Mini-WSB**

Push-in type jumper bar, insulated, I_N 57 A, light gray



2-way	**2010-402**	50 (2x25)
3-way	**2010-403**	50 (2x25)
4-way	**2010-404**	50 (2x25)
5-way	**2010-405**	50 (2x25)

Push-in type jumper bar, insulated, I_N 57 A, light gray



1 - 3	**2010-433**	50 (2x25)
1 - 4	**2010-434**	50 (2x25)
1 - 5	**2010-435**	50 (2x25)

Step-down jumper, insulated,



I_N 32 A
light gray **2006-499** 50 (2x25)

Finger guard,



touchproof cover protects unused conductor entries
yellow **2010-100** 100 (4x25)

Protective warning marker, with high-voltage symbol,



for 5 terminal blocks
yellow **2010-115** 50 (2x25)

Operating tool with partially insulated shaft,



type 3, (5.5 x 0.8) mm blade
210-721 1

Test plug adapter, for test plug 4 mm Ø



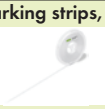
gray	**2009-174**	100 (4x25)
Testing tap, for max. 2.5 mm²/AWG 14		
gray	**2009-182**	100 (4x25)

Banana plugs, only for safety extra-low voltage (42 V)



black	**215-311**	50
red	**215-212**	50
blue	**215-711**	50

Marking strips, plain,



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

WMB Multi marking system,



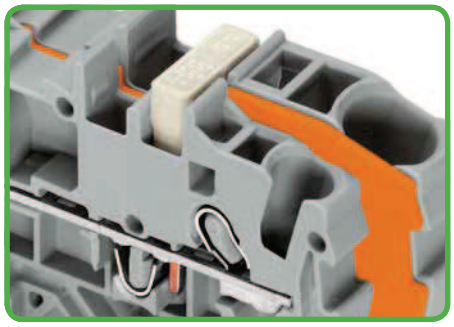
10 strips with 10 markers per card, stretchable 5 – 5.2 mm
plain **793-5501** 50 (10x5)

Insulated ferrules, extra long,



for TOPJOB®S terminal blocks
see page 195

Suitable for Ex i applications
Suitable for Ex e II applications
550 V, 51 A (2-conductor terminal blocks)
550 V, 50 A (3-conductor terminal blocks)



An end plate must be applied to the open side of the larger teminal block.

Further terminal blocks of the smaller cross section may be commoned using push-in type jumper bars.

Note:
The total current flowing shall not exceed the rating of the step-down jumper.

Reduction of cross section	Push-in type jumper bar	Step-down jumper
16 to 10 mm²	X	
16 to 6 mm²	X	
16 to 4 mm²		X
16 to 2.5 mm²		X
10 to 6 mm²	X	
10 to 4 mm²	X	
10 to 2.5 mm²		X
6 to 4 mm²	X	
6 to 2.5 mm²	X	