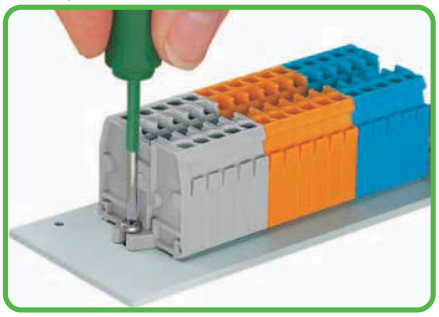
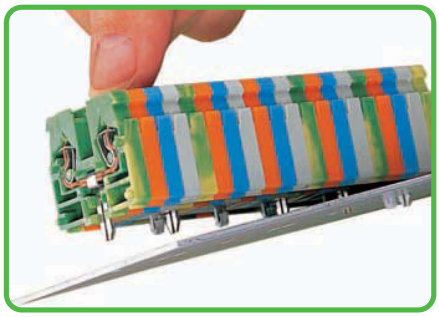
# Compact Terminal Strips, 869 Series
# – Description and Handling –

CAGE CLAMP®

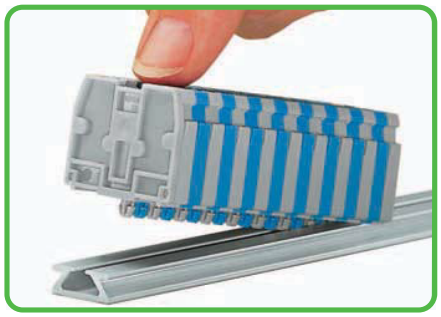
## Fixing



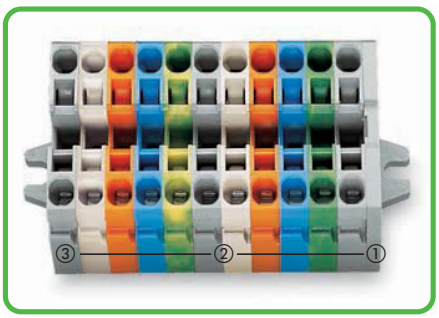
Terminal strip with fixing flanges, screw mount.



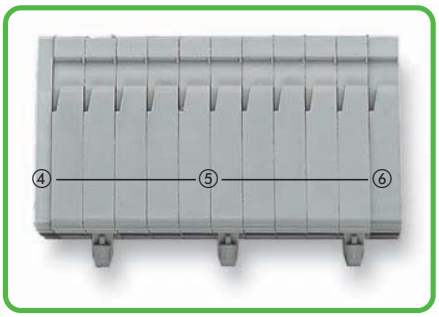
Terminal strip with snap-in mounting feet, mounting in holes.



Terminal strip with snap-in mounting feet, mounting onto special aluminum rail.

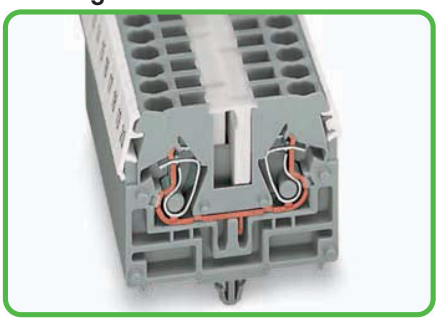



Terminal strip with fixing flanges, consisting of:
End plate with fixing flange ①
Center terminal blocks ②
End terminal block with fixing flange ③




Terminal strip with mounting feet, consisting of:
End plate ④ / Center terminal blocks with/without snap-in mounting feet ⑤ / End terminal block with/without snap-in mounting foot ⑥

## Marking



WAGO WMB Multi marking system or WAGO miniature WSB Quick marking system.

## Push-in type jumper bar system

Push jumper bars down firmly until fully inserted! When using multipole bars, push alternately on right and then left side, until installed.

**CAGE CLAMP® clamps the following copper conductors:***

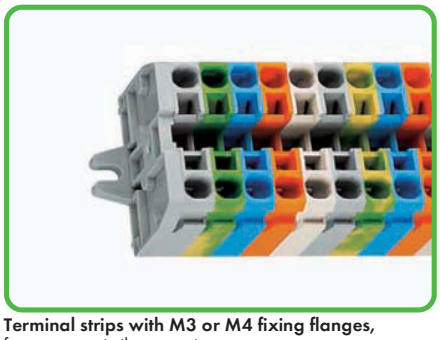
| solid | stranded | fine-stranded, also with tinned single strands | fine-stranded, tip-bonded | fine-stranded, with ferrule ❶ (gastight crimped) | fine-stranded, with pin terminal (gastight crimped) |
|---|---|---|---|---|---|

* For aluminum conductors, see notes in Section 14.

❶ When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

**0.08 - 2.5 (4"f-st")mm² ❶** | **AWG 28 - 12**
**500 V/6 kV/3 ❷** | **300 V, 20 A**
**$I_N$ 24 A**

**Terminal block width 5 mm / 0.197 in**
**6 - 7 mm / 0.26 in ❸**



**Terminal strips with M3 or M4 fixing flanges,**
for screw or similar mounting types
3.2 mm Ø M3 flange
4.2 mm Ø M4 flange

❶ Max. insulation diameter: 4.4 mm

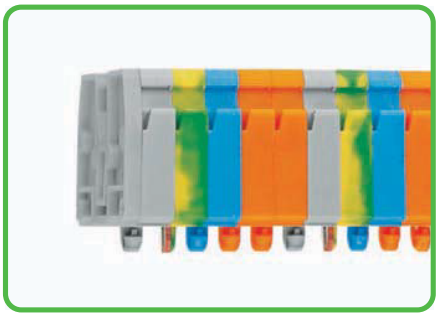
❷ 500 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❸ Strip length, see packaging or instructions.

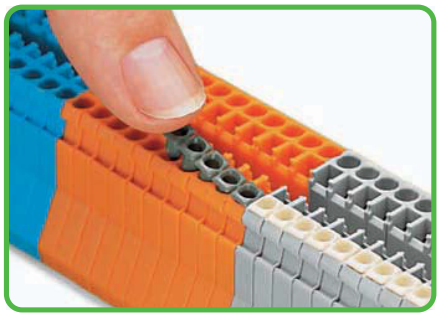
❹ Suitable for Ex i applications

❺ See application notes for:
Insulation stop, page 199
Group marker carrier, page 281

| Color | Item No. | Pack. Unit |
|---|---|---|
| **Center terminal block with snap-in mounting foot,** | | |
| for plate thickness 0.6 - 1.2 mm, | | |
| fixing hole Ø: 3.5 +0,1 mm | | |
| gray | **869-311** | 100 |
| blue | **869-314** ❹ | 100 |
| orange | **869-316** | 100 |
| green-yellow | **869-317** | 100 |
| light gray | **869-319** | 100 |



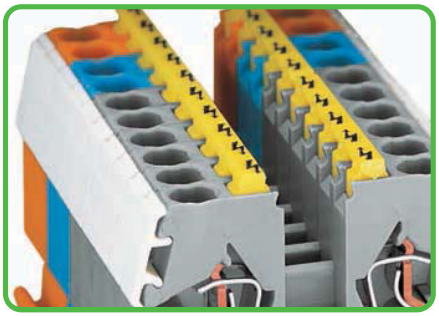
**Terminal strips with snap-in mounting feet,**
for plate thickness 0.6 – 1.2 mm (0.02 – 0.047 in),
fixing hole 3.5 $^{+0.1}$mm Ø



Insert insulation stop into conductor entry holes of terminal strip.

## Item-Specific Accessories

| | | | |
|---|---|---|---|
| **Aluminum carrier rail,** | | | |
|  | 1000 mm long, 18 mm wide, 7 mm high | **210-154** | 1 |
| **End stop,** for WSB Quick markers, | | | |
|  | for 210-154 aluminum rail, 6 mm wide | **209-122** | 25 |
| **Marking strip,** plain, | | | |
|  | 7.5 mm wide, 1 m/3'3'' long, translucent | **709-196** | 1 |
| **Protective warning marker,** | | | |
|  | with high-voltage symbol, black, for 5 terminal blocks, yellow | **280-405** | 100 (4x25) |
| **Group marker carrier,** ❺ | | | |
|  | fits into terminal block jumper slots, gray | **870-184** | 50 (2x25) |
| **Test plug,** | | | |
|  | with 500 mm cable, 2 mm Ø, red | **210-136** | 50 |



Protective warning markers (280-405), with black high-voltage symbols.

Wiring programmable logic controllers and microprocessor-operated control circuits often relies on very small cross sections of fine-stranded conductors. These small conductors are highly flexible, and they deform when pushed against the conductor stop in terminal blocks. As a result, the conductor insulation – not the copper conductor – may be clamped, causing intermittent contact or no contact at all. Common to all terminal block types currently offered, this problem creates unnecessary downtime for troubleshooting.

The solution: an insulation stop for compact terminal blocks. Insulation stops automatically bundle the cores of fine-stranded conductors when inserted into the clamping unit, preventing splaying. This also limits the conductor entry to a defined cross sectional area – ensuring the actual conductor, not the insulation, will enter the clamping unit.

The insulation stop is available as dividable 5-pole strip for the 869 Series terminal strips.

Insulation stop usage will not affect the conductor strip lengths for the aforementioned terminal strips.