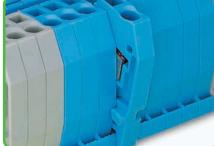
Rail-Mounted Terminal Blocks 279 to 285 Series and 880 Series

Assembly



By snapping a ground conductor terminal block onto the carrier rail, a direct electrical connection is automatically made to the rail

Assembly



Quick assembly keys prevent reverse mounting.

Removal



Removing a terminal block from the assembly.

Commoning



Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. In addition to the required marking of these blocks, use yellow-green adjacent jumpers.

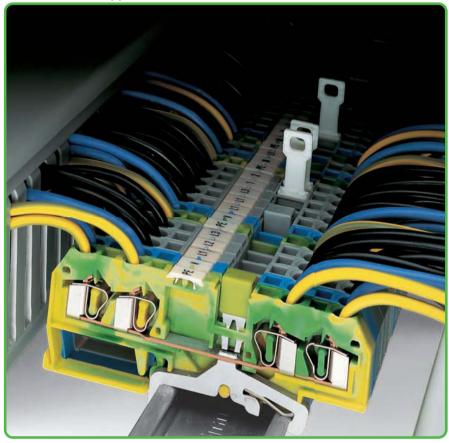
Commoning with step-down jumpers



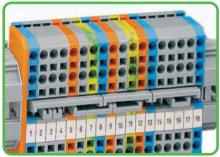
Commoning terminal blocks of different sizes – step down.

For application notes, see page 178.

According to EN 60947-7-2 (VDE 0611, part 3), steel carrier rails shall not be used for PEN applications



Commoning



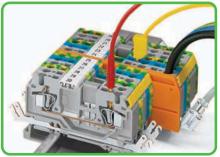
Staggered jumpers for sophisticated circuit requirements. Push jumpers down firmly until fully inserted. For additional notes, see page 201.



CAGE CLAMP® clamps the following copper conductors:*

solid

Testing - 880 Series



880 Series terminal blocks have an additional test slot for 2 mm \varnothing or 2.3 mm \varnothing test plugs.



stranded

Protective warning marker



Protective warning markers inserted into the operating



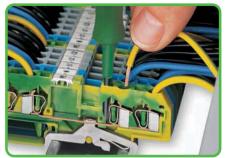
fine-stranded, also with tinned single strands

^{*} For aluminum conductors, see notes in Section 14.

CAGE CLAMP®

- Description and Handling -

CAGE CLAMP® connection



Conductor termination

CAGE CLAMP® connection



Conductor termination

When using ferruled conductors, it is necessary to use a terminal block one size larger than the nominal cross

section of the wire.

Testing



Testing with test plug.
Test plug fitted with CAGE CLAMP®.

Testing



L-type test plug modules fitted with CAGE CLAMP®. For application notes, see page 194.

Testing



B-type test plug modules fitted with CAGE CLAMP®. For application notes, see page 195.

Marking



Marking with WMB Multi marking system. For additional systems, see Section 13.



fine-stranded, tip-bonded

Insulation stop

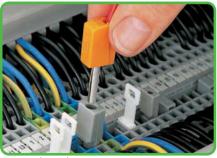


Insertion of insulation stop.
For application notes, see page 199.



fine-stranded, with ferrule (gastight crimped)

Testing



Testing with test plug.
Using 209-170 test plug adapter.

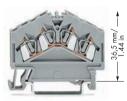


fine-stranded, with pin terminal (gastight crimped)



Through and Ex Terminal Blocks 2.5 mm² 280 Series





◆ 50,5 mm/1.99 in →

- * AWG 12: THHN,THWN
- 800 V = rated voltage
 8 kV = rated surge voltage
 3 = pollution degree

 (also see Section 14)
- 2 Strip length, see packaging or instructions.
- 3 Suitable for Ex i applications
- Suitable for Ex e II applications 0.2 mm² - 2.5 mm²/AWG 24 - 12* 550 V, 23 A (also see Section 14)
- See application notes for: Test plug module, page 194 Insulation stop, page 199 Comb-style jumper bar, page 200 Operating tool, page 200



Application example for shield terminal blocks

Pack. 280 Series Accessories Item No Appropriate marking systems 4-conductor through terminal block (see Section 13) gray 280-646 100 blue 280-656 3 100 Alternate comb-style jumper bar, 280-946 100 insulated, oranae **280-996 4** 100 $I_N = I_N$ terminal block light gray 😉 280-492 200 (8x25) 2-way Operating tool, of insulating material These terminal blocks cannot be commoned using 280-432 adiacent iumpers 280-433 3-way Operating tool, of insulating material 280 Series Accessories 10-way 280-440 End and intermediate plate, 2.5 mm thick Protective warning marker, 280-313 100 (4x25) with high-voltage symbol, black, oranae gray 280-312 100 (4x25) for 5 terminal blocks light gray 280-354 100 (4x25) yellow 280-415 100 (4x25) Separator, oversized, 2.5 mm L-type test plug module, thick 280-318 100 (4x25) can be snapped together, orange 100 (4x25) 280-348 gray 5 mm wide 280-355 100 (4x25) 249-141 100 (4x25) light gray gray Ex e/Ex i separator, orange, WMB Inline, plain, stretchable 5 - 5.2 mm, 3 mm thick 120 mm 209-191 50 (2x25) 1,500 WMB markers, 5 mm, on roll 2009-115 white Spacer of same shape, WMB Multi marking system, 5 mm thick 10 strips with 10 markers per card. 280-654/056-000 stretchable 5 - 5.2 mm 100 (4x25) 793-5501 plain Insulation stop, WMB Multi marking system, plain, 5 pcs/strip, 10 strips with 10 markers per card, 0.08 - 0.2 mm2 "s" (0.14 mm2 "f-st") stretchable 5 - 5.2 mm 280-470 200 (8x25) 793-5501/000-002 yellow red 793-5501/000-005 Insulation stop, 5 pcs/strip, blue 793-5501/000-006 0.25 - 0.5 mm² 793-5501/000-007 gray 280-471 200 (8x25) orange 793-5501/000-012 light gray Insulation stop, light green 793-5501/000-017 green 793-5501/000-023 5 pcs/strip 0.75 - 1 mm² violet 793-5501/000-024 dark gray 280-472 200 (8x25) Comb-style jumper bar, insulated, Screwless end stop, $I_N = I_N$ terminal block for DIN 35 rail, 2-way 280-482 200 (8x25) 6 mm wide 249-116 3-way 280-483 200 (8x25) 100 (4x25) gray Comb-style jumper bar, insulated, Screwless end stop, for DIN 35 rail, $I_N = I_N$ terminal block mmmi 280-490 50 (2x25) 10 mm wide 10-way

249-117

50 (2x25)

Shielded control cables are becoming an increasingly common solution to external signal interference. Shield terminal blocks for front-entry are suitable for connecting braided cables. Like ground conductor terminal blocks for front-entry, they are equipped with a grounding foot for direct electrical connection to the rail, however they differ significantly by their white insulated housing. Shield terminal blocks for front-entry can be directly mounted beside signal-conductor terminal blocks, providing excellent deflection of interfering signals.

