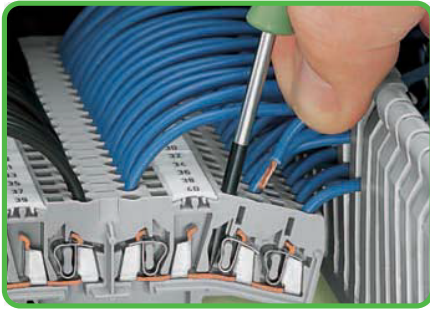


Rail-Mounted Terminal Blocks for Matrix Patching, 280 Series – Description and Handling –

CAGE CLAMP®



Terminal blocks for matrix patching.
Conductor termination/removal on the terminal block's side-entry.

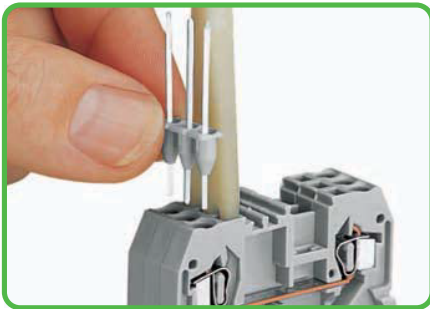


Terminal blocks for matrix patching.
Conductor termination/removal in center of the terminal block.



Used as disconnect terminal block.
Inserting disconnect jumpers.

Pin modules

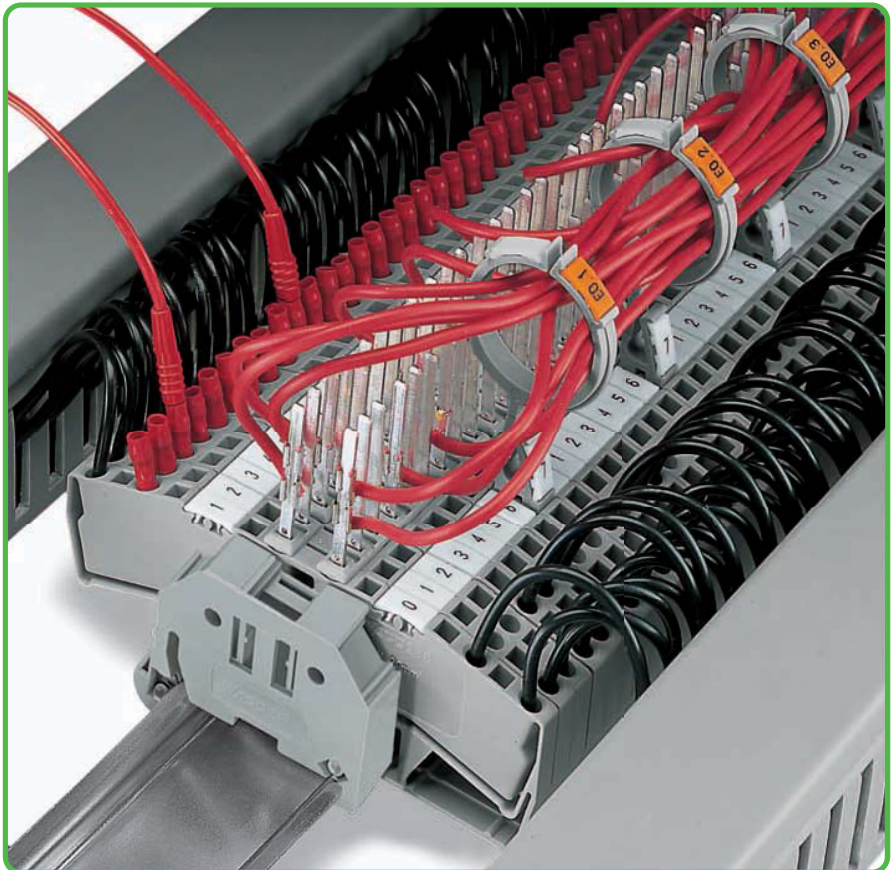


Inserting a pin module shown with 280 Series terminal blocks.

Comb-style jumper bars



Used as potential multiplication.
Inserting a 10-way, comb-style jumper bar (only possible in the center).



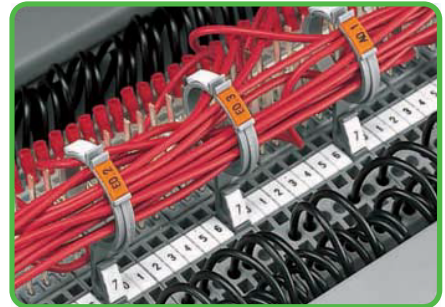
Wire harness support



Clipping wire harness support onto the marker slot.



Inserting a cable into the wire harness support.



2 x group marking on top
1 x terminal block marking at the bottom

CAGE CLAMP®
clamps the following
copper conductors:*

solid

stranded

fine-stranded,
also with tinned
single strands

fine-stranded,
tip-bonded

fine-stranded,
with ferrule ①
(gastight crimped)

fine-stranded,
with pin terminal
(gastight crimped)

* For aluminum conductors, see notes in Section 1.4.

① When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

Rail-Mounted Terminal Blocks for Matrix Patching 2.5 mm² 280 Series

CAGE CLAMP®

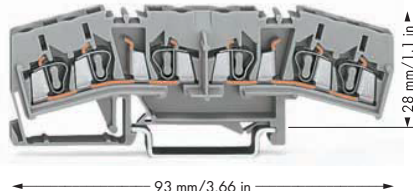
8

425

0.08 - 2.5 mm² AWG 28 - 12 *
800 V/8 kV/3 ①
I_N 18 A

Terminal block width 5 mm / 0.197 in
8 - 9 mm / 0.33 in ②

In measurement and control technology, matrix patch-boards are essential to process automation systems. Particularly beneficial to these applications is the use of the WAGO wire harness support, which simplifies wiring. WAGO 280 Series 3-conductor, front-entry, double-potential terminal blocks (with or without the addition of Wire-Wrap® or TERMI-POINT® pins) are also ideal for this type of application. They can be used for linking incoming field wires from items such as measuring devices or servos etc., with central process controllers, e.g., control consoles, panelboards or PLCs via matrix connections. The WAGO wire harness support elements are pushed into the terminal blocks (approx. every 8th unit) to form an additional "cable-duct" above the wiring level of the terminal blocks. Two marker slots are provided in each, the top ones may be used for group marking, and the lower slot for marking the terminal block.



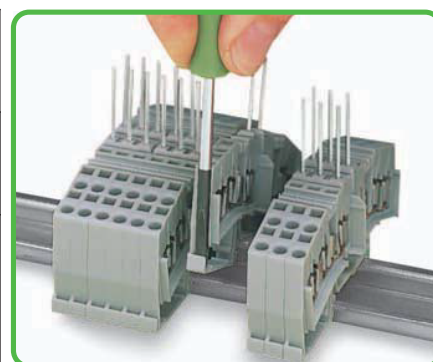
* AWG 12: THHN, THWN

① 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)
500 V/6 kV/3 between both current bars
(if used as disconnect terminal block or potential multiplier)

② Strip length, see packaging or instructions.

③ See application notes for:
Isolierungsstopp Seite 199
Brückungskamm Seite 200
Betätigungswerkzeug Seite 200

Item No.	Pack. Unit	Accessories
3-conductor double-potential terminal block		Protective warning marker, with high-voltage symbol, black, for 5 terminal blocks yellow 280-415 100 (4x25)
or Rail-mounted terminal block for matrix patching, Notice: This 3-conductor double-potential terminal block cannot be commoned via adjacent jumpers. gray 280-675 50		
Accessories		
Appropriate marking system: WMB (see Section 13)		
End and intermediate plate, 5 mm thick		Pin module, 2-pole, for assembly on all front-entry 280 Series rail-mounted terminal blocks, for Wire-Wrap®, 1 x 1 mm 280-477 100
orange 280-333 25 gray 280-325 25		
Insulation stop, 3 5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st") white 280-470 200 (8x25)		Pin module, 2-pole, for TERMI-POINT®, 0.8 x 1.6 mm 280-475 100
Insulation stop, 3 5 pcs/strip, 0.25 - 0.5 mm ² light gray 280-471 200 (8x25)		
Insulation stop, 3 5 pcs/strip, 0.75 - 1 mm ² dark gray 280-472 200 (8x25)		Pin module, 2-pole, for TERMI-POINT®, 0.8 x 2.4 mm 280-473 100
Alternate comb-style jumper bar, insulated, I _N = I _N terminal block 2-way 280-492 200 (8x25)		
Comb-style jumper bar, insulated, 3 I _N = I _N terminal block 2-way 280-482 200 (8x25) 3-way 280-483 200 (8x25)		Pin module, 3-pole, for Wire-Wrap®, 1 x 1 mm 280-478 100
Comb-style jumper bar, insulated, I _N = I _N terminal block 10-way 280-490 50 (2x25)		
Disconnect jumper with pull-tab, orange, I _N = I _N of terminal block 2-way 280-494 200 (8x25)		Pin module, 3-pole, for TERMI-POINT®, 0.8 x 1.6 mm 280-476 100
Operating tool, of insulating material 2-way 280-432 1 3-way 280-433 1		
Operating tool, of insulating material 10-way 280-440 1		Wire harness support gray 249-109 50



Removal: Separate terminal strip, slide terminal block to disconnect and then remove from the carrier rail.



For 5 mm/0.197 in wide double-potential front-entry terminal blocks, two 3-conductor through terminal blocks are offered in one insulating housing on one level. On each side of the terminal block are marker slots for WAGO markers. Via of the available accessories, these terminal blocks can also be used as 4-conductor disconnect terminal blocks or multipliers of potential. During mounting/dis-mounting using DIN carrier rail, please note that due to the protruding webs, the terminal blocks can only be inserted or removed from the assembly after having displaced the adjacent terminal blocks (also see picture above).