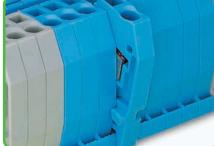
Rail-Mounted Terminal Blocks 279 to 285 Series and 880 Series

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.

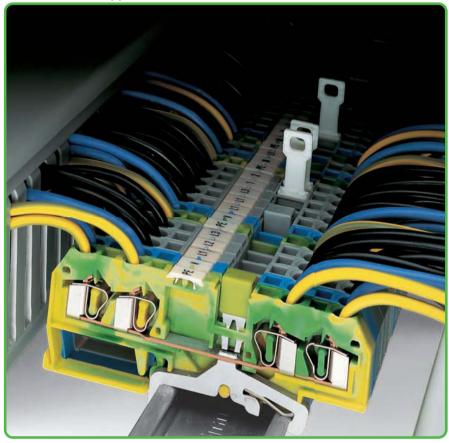
Commoning with step-down jumpers



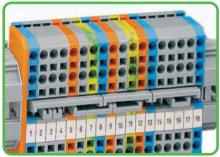
Commoning terminal blocks of different sizes – step down.

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



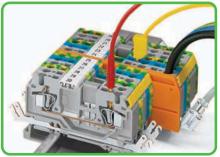
Staggered jumpers for sophisticated circuit requirements. Push jumpers down firmly until fully inserted. For additional notes, see page 201.



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



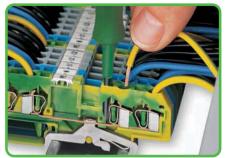
fine-stranded, also with tinned single strands

^{*} 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

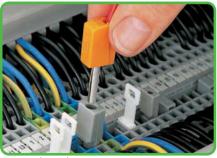


Insertion of insulation stop.
For application notes, see page 199.



fine-stranded, with ferrule (gastight crimped)

Testing



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



fine-stranded, with pin terminal (gastight crimped)



CAGE CLAMP®

0.08 - 4 mm² 800 V/8 kV/3 **1** I_N 32 A AWG 28 - 12 600 V, 20 A **93** 600 V, 25 A@

Terminal block width 6 mm / 0.236 in

9 - 10 mm / 0.37 in 2



61,5 mm/2.42 in

- 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 4 mm²/AWG 24 12
 550 V, 30 A
 (also see Section 14)
 Using staggered jumpers reduces the maximum rated voltage to 275 V.
- See application notes for:
 Test plug modules, pages 194 196
 Banana plug, page 198
 Insulation stop, page 199
 Comb-style jumper bar, page 200
 Operating tool, page 200
 Staggered jumper, page 201
 Push-in type wire jumper, page 201
 Step-down jumper, pages 178 179

	Item No.	Pack. Unit	281 Series Accessories								
3-conductor through terminal block			Appropriate marking systems: WMB/WFB (see Section 13)								
gray											
blue	281-631 281-651 3	100	Adjacent jumper, insulated,				Step-down jumper, insulated,				
light gray &	-			$I_N = I_N \text{ terminal block}$				I _N 30 A			
→ light gray ⊕	201-770	100	Ti Ti	gray	281-402	200 (8x25)	n	gray	284-413	50 (2×25	
				yellow-green		200 (8x25) 200 (8x25)	17	gruy	204-413	30 (ZXZ3	
			Alta and a facility		201-422	200 (8X23)	C				
	Alternate jumper, insulated, $I_N = I_N$ terminal block				Cover plate,						
			TT.			100 // 05\		1 mm thick	004004	100	
			11	gray	281-409	100 (4x25)	San	gray	284-334	100	
3-conductor ground			Auth:				39	orange	284-344	100	
green-yellow	281-637	100	Push-in type v				Test plug mo				
green-yellow 🖾	281-637/999-950 4	100	6	insulated,			6	can be snapp	ed together,		
			()	I _N 9 A,			7	6 mm wide			
			1 1	wire size 0.75	5 mm²		7	gray	281-418	100 (4×25	
				L = 60 mm	249-125	10	Spacer modu	ile,			
				L = 110 mm	249-126	10		can be snapp	ed together,		
				L = 250 mm	249-127	10	_	6 mm wide			
							II	gray	281-419	100 (4x25	
			Staggered jui	mper,			Test plug,	<u> </u>			
			6	insulated,			3,	with 500 mm	cable		
				width 6 mm/0) 236 in			2 mm Ø	000.07		
				I _N 32 A	7.200 III,			red	210-136	50	
				from 1 to 2	781-452	100 (4x25)	Test plug,	reu	210-130		
				from 1 to 3	781-453		resi piug,	::1 500			
Item-Specific Accessories						100 (4x25)		with 500 mm	cable,		
				from 1 to 4	781-454	100 (4x25)	<i>J</i>	2.3 mm Ø			
				from 1 to 5	781-455	50 (2×25)		yellow	210-137	50	
End and intermediate plate, 2.5 mm thick			from 1 to 6 781-456 50 (2x25) Test plug adapter, 5 mm wide,								
oran	•	100 (4x25)							locks 1.5 - 4 m		
gray		100 (4x25)					W W	for 210-137	test plug 2.3 m		
light	gray 281-357	100 (4x25)						gray	280-404	100 (4×25)	
Separator, oversized, 2 mm thick			Comb-style jumper bar, insulated,				Test plug adapter, 8.3 mm wide,				
gray 281-318		100 (4x25)	6	$I_N = I_N$ termino	al block		-	for terminal b	locks 1.5 - 10	mm²,	
gray	281-348	100 (4x25)	10	2-way	281-482	100 (4x25)		for test plug 4	1 mm Ø		
light	gray 281-358	100 (4x25)		3-way	281-483	100 (4x25)	1	gray	209-170	50 (2×25	
Ex e/Ex i separator, orange,				5-way	281-485	100 (4x25)	Banana plug	,			
•	m thick			10-way	281-490	50 (2×25)	6	for socket 4 n	nm Ø.		
	mm 209-191	50 (2x25)		,		,		color mixed	-,		
120		00 (2/120)					199	color mixed	215-111	50	
			Alternate comb-style jumper bar,				Test plug adapter, 6 mm wide,				
			insulated,				with CAGE CLAMP®,				
			$I_{N} = I_{N} \text{ terminal block}$			for 0.08 - 2.5 mm ²					
			1.3			100 /4 05	1			100 /4 05	
				2-way	281-492	100 (4x25)		I _N 24 A	281-407	100 (4x25)	
			Operating to	ol, of insulating			Screwless en		-1		
				2-way	280-432	1	Shake.	for DIN 35 ro	ill,		
			-	3-way	280-433	1	-010-	6 mm wide			
				5-way	281-440	1		gray	249-116	100 (4x25	
Protective warning marker,			Step-down jumper, insulated,				Screwless end stop,				
with high-voltage symbol, black,			6	I _N 15 A			for DIN 35 rail,				
for 5	terminal blocks		18	gray	284-414	50 (2×25)	PILE	10 mm wide			
yello	ow 281-415	100 (4x25)	MI.				-	gray	249-117	50 (2x25)	

