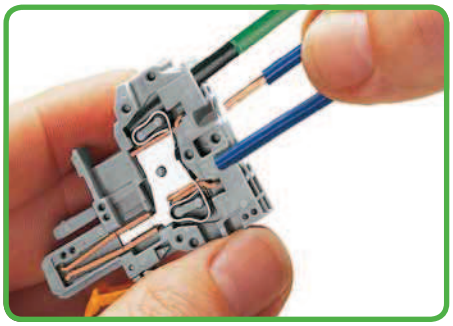
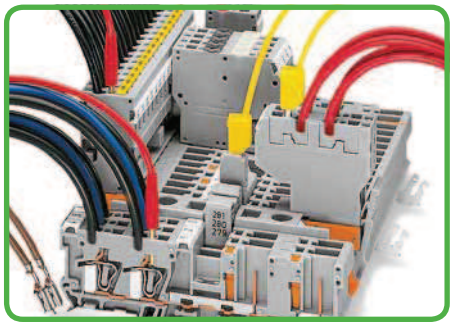


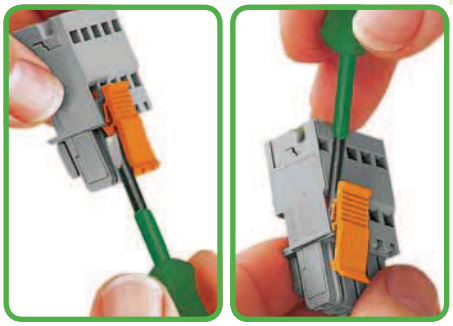
Female plug: Inserting/removing conductor.
Operation 90° to wire also possible.

Testing

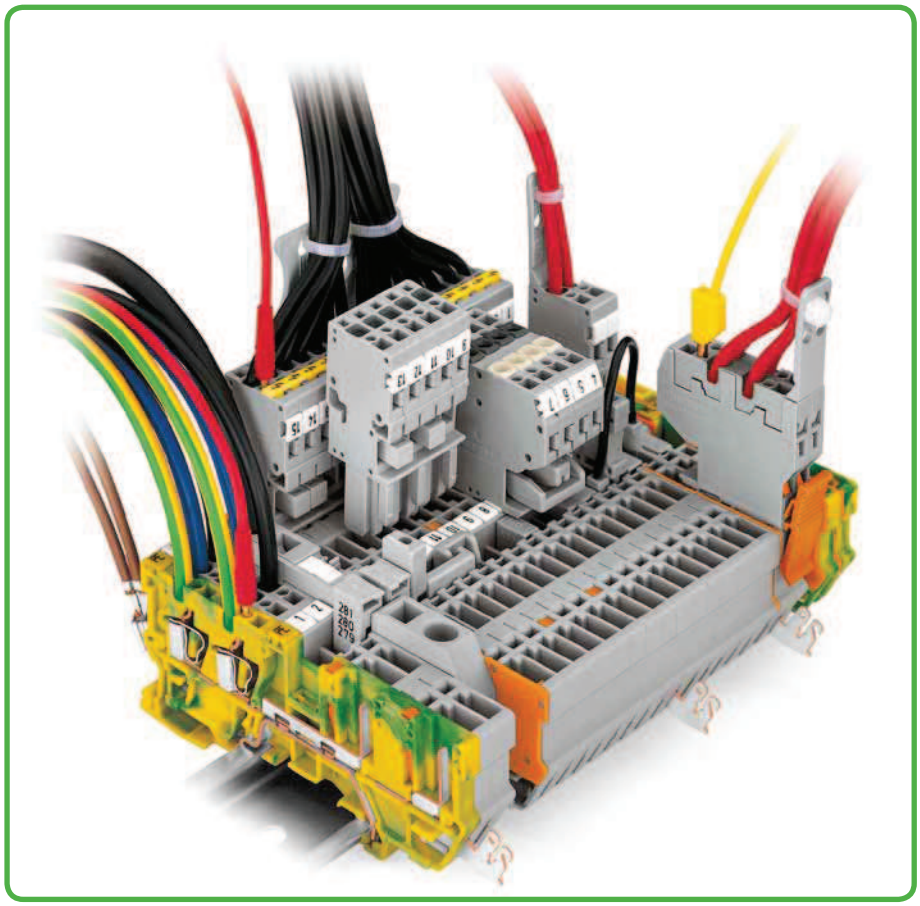


Testing with 2 mm Ø (red)
or 2.3 mm Ø (yellow) test plug.

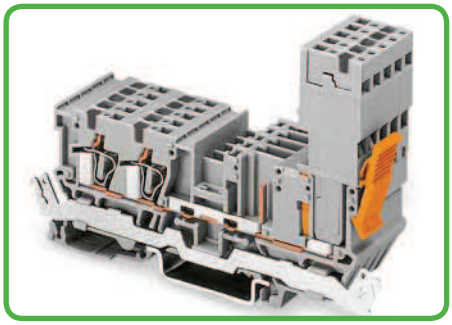
Locking lever



Snapping in/removing locking lever.

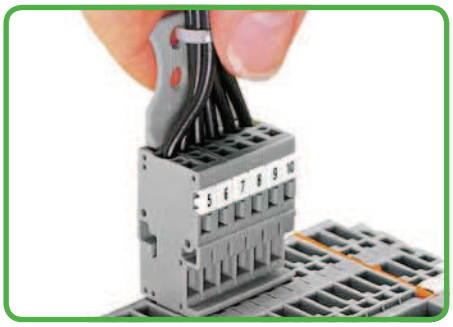


Locking lever

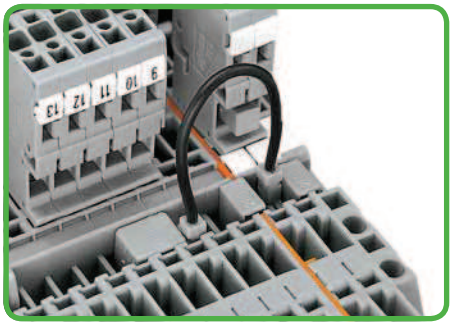


Female plug secured with locking lever in external area of carrier terminal block.

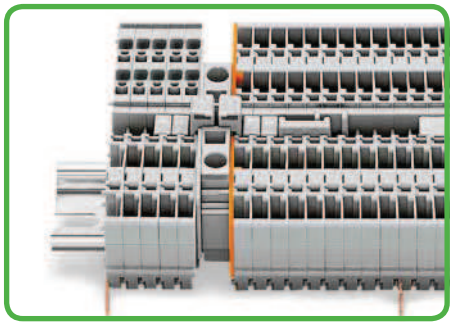
Strain relief



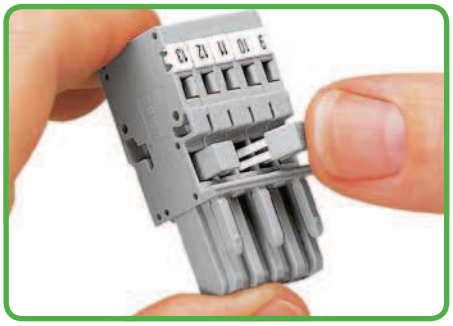
Removing female plug, conductors provided with strain relief plate.



Commoning carrier terminal blocks with push-in type wire, or adjacent jumpers over the intermediate plate.



Step-down jumper used for commoning terminal blocks of different sizes (max. 10 mm²/AWG 8).



Commoning 1-conductor female plugs with miniature adjacent jumpers.



fine-stranded,
tip-bonded



fine-stranded with
ferrule ❶
(gastight crimped)

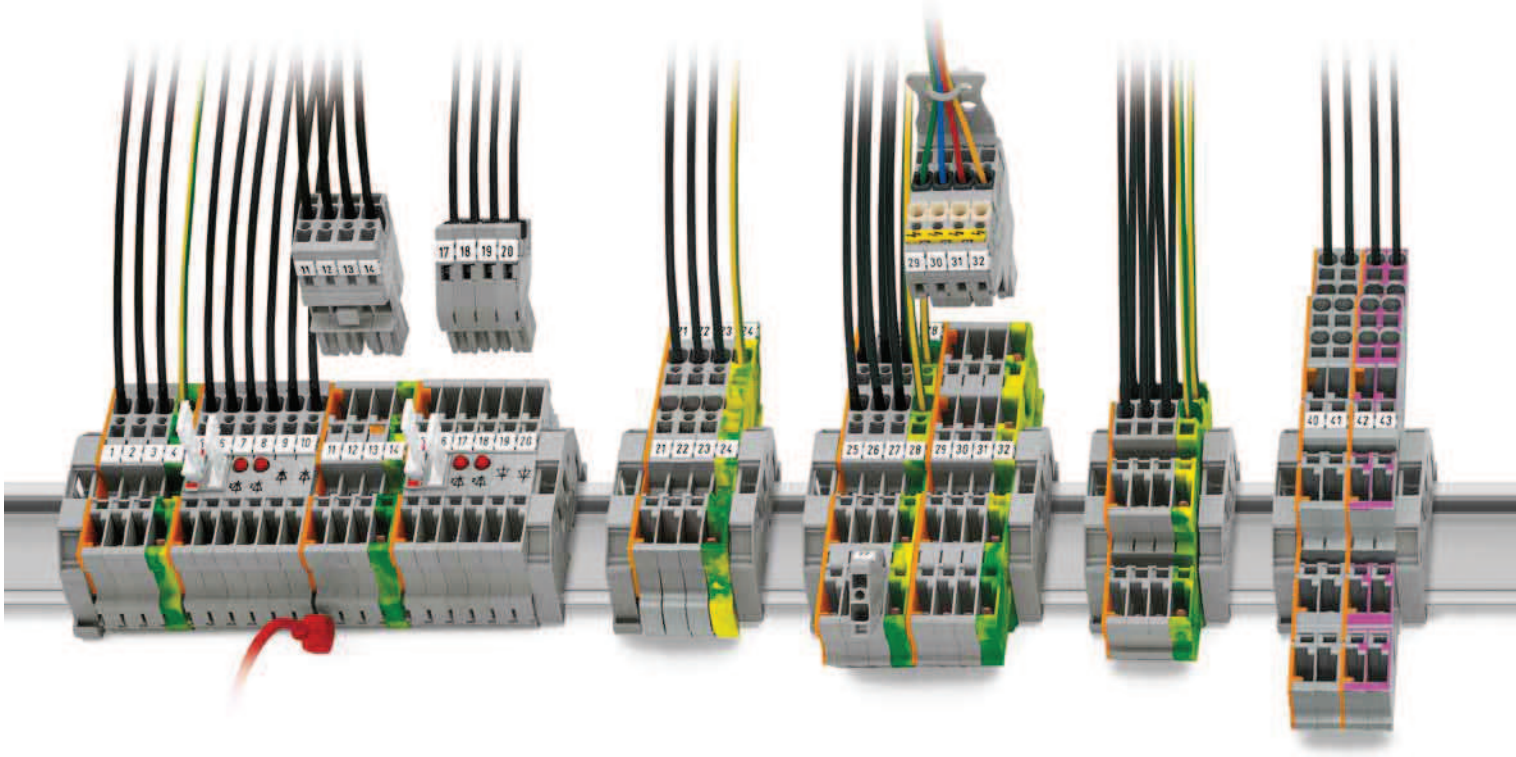


fine-stranded,
with pin terminal
(gastight crimped)

❶ With ferruled conductors, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

X-COM®-SYSTEM
769 and 870 Series

Technical data – carrier terminal blocks:	0.08 - 4 mm² / AWG 28 - 12 500 V/6 kV/3 / 300 V, 10 A 250 V/4 kV/3 / 300 V, 20 A I_N 16 A / 32 A* Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ❶ Approvals	

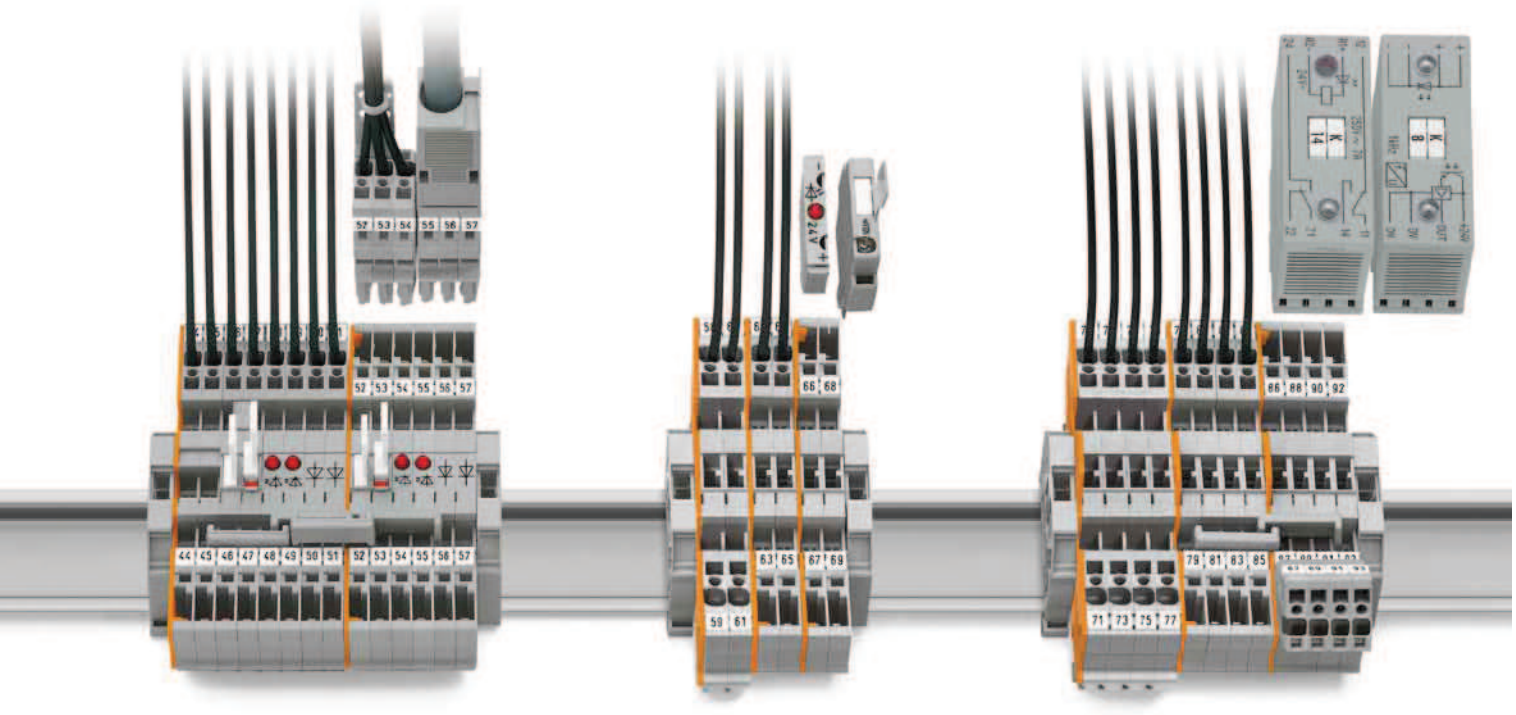


	Single-deck through and function terminal blocks:					Double-deck terminal blocks:			
						1-cond./	2-pin/	2-cond./	4-cond./
	1-cond./1-pin	2-pin	2-cond./1-pin	2-cond./2-pin	4-pin	1-pin	2-pin	2-pin	4-pin
Carrier terminal block	769-176*	769-156*	769-251*	769-171*	769-151*	870-101	870-151	870-131	
Carrier terminal block							4-pin		
internal commoning							870-158	870-108	870-138
Carrier terminal block									
with shield contact	769-231*	769-221*		769-211*	769-201*		4-pin		
Ground carrier term. block	769-237	769-227	769-257	769-217	769-207		870-157	870-107	
Disconnect carrier term. block	769-232	769-222							
Disconnect carrier terminal block									
with shield contact	769-233	769-223							
Diode carrier terminal block									
Anode, left side	769-238/281-410	769-228/281-410							
Anode, right side	769-238/281-411	769-228/281-411							
LED carrier terminal block									
Anode, right side	769-239/281-413	769-229/281-413							
Anode, left side	769-239/281-434	769-229/281-434							
End plate	769-307	769-305	769-320	769-301		870-118	870-168	870-148	
	769-308	769-306	769-321	769-302		870-119	870-169	870-149	
Separator, oversized									
Jumper	280-4xx	280-4xx	280-4xx	280-4xx	280-4xx	870-4xx	870-4xx	870-4xx	

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

For technical explanations and abbreviations, see technical section.

Technical data – carrier terminal blocks:	0.08 - 4 mm² / AWG 28 - 12 500 V/6 kV/3 / 300 V, 10 A 250 V/4 kV/3 / 300 V, 20 A I_N 16 A / 32 A* Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ❶ Approvals	



Terminal blocks with multiple jumper positions			Carrier terminal block for 280/281 Series pluggable modules (fuse, LED, ...)			Carrier terminal blocks for 286 Series pluggable modules with integrated end plate (relays, optocouplers, ...)	
3-way	2-way	2-way					
1-cond./1-pin	1-cond./1-pin	2-pin	1-cond./1-cond.	1-cond./1-pin	2-pin		
769-214*			769-191	769-181	769-161		
						1-cond./1-pin	
						4-pole	769-182/769-314
						6-pole	769-183/769-314
						8-pole	769-184/769-314
						10-pole	769-185/769-314
	769-212	769-202				1-cond./1-cond.	
						4-pole	769-192/769-319
						6-pole	769-193/769-319
	769-213	769-203				8-pole	769-194/769-319
						10-pole	769-195/769-319
	769-218/281-410	769-208/281-410					
	769-218/281-411	769-208/281-411				2-pin	
						4-pole	769-162/769-313
						6-pole	769-163/769-313
	769-219/281-413	769-209/281-413				8-pole	769-164/769-313
	769-219/281-434	769-209/281-434				10-pole	769-165/769-313
			1-cond./1-cond.	1-cond./1-pin	2-pin		
769-315	769-311	769-309	769-317	769-311	769-309		
769-316	769-312	769-310	769-318	769-312	769-310		
	769-314	769-313	769-319	769-314	769-313		
280-4xx	280-4xx	280-4xx	780-45x	780-45x	780-45x		780-45x

Please find the entire product range in our Full Line Catalog, Volume 1. Additional information at www.wago.com.

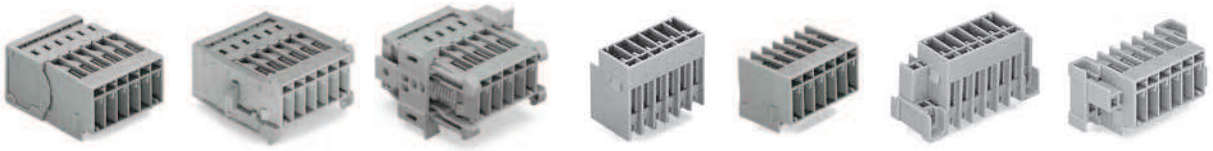
X-COM®-SYSTEM
Male Connectors
769 Series

Technical data – male connectors:

Pin spacing 5 mm / 0.197 in
0.08 - 4 mm² | AWG 28 - 12
500 V/6 kV/3 | 600 V, 20 A
I_N 32 A | 300 V, 20 A

8 - 9 mm / 0.33 in

❶ Approvals

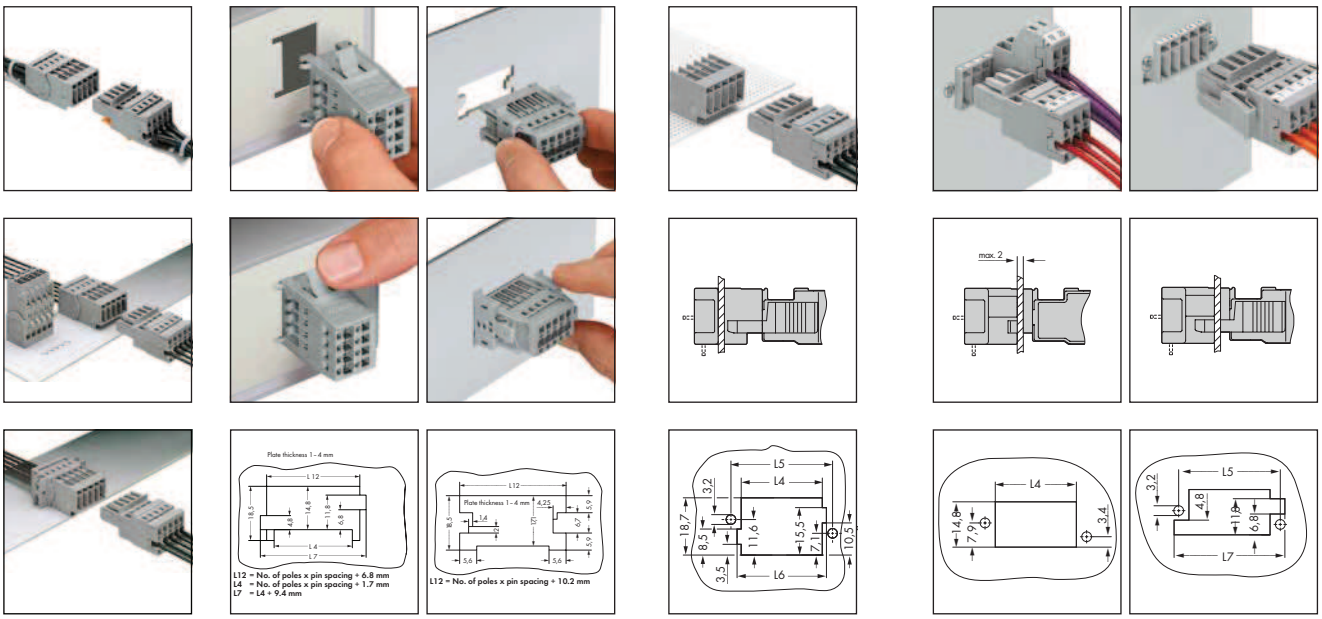


	Male connectors with CAGE CLAMP® connection	Male connectors with CAGE CLAMP® connection and snap-in flanges		Headers with solder pins		Headers with solder pins and fixing flanges	
						straight	angled
				straight	angled	769-632/004-000	769-662/004-000
2-pole	769-602	769-602/005-000	769-602/006-000	769-632	769-662	769-633/004-000	769-663/004-000
3-pole	769-603	769-603/005-000	769-603/006-000	769-633	769-663	769-634/004-000	769-664/004-000
4-pole	769-604	769-604/005-000	769-604/006-000	769-634	769-664	769-635/004-000	769-665/004-000
5-pole	769-605	769-605/005-000	769-605/006-000	769-635	769-665	769-636/004-000	769-666/004-000
6-pole	769-606	769-606/005-000	769-606/006-000	769-636	769-666	769-637/004-000	769-667/004-000
7-pole	769-607	769-607/005-000	769-607/006-000	769-637	769-667	769-638/004-000	769-668/004-000
8-pole	769-608	769-608/005-000	769-608/006-000	769-638	769-668	769-639/004-000	769-669/004-000
9-pole	769-609	769-609/005-000	769-609/006-000	769-639	769-669	769-640/004-000	769-670/004-000
10-pole	769-610	769-610/005-000	769-610/006-000	769-640	769-670	769-641/004-000	769-671/004-000
11-pole	769-611	769-611/005-000	769-611/006-000	769-641	769-671	769-642/004-000	769-672/004-000
12-pole	769-612	769-612/005-000	769-612/006-000	769-642	769-672	769-643/004-000	769-673/004-000
13-pole	769-613	769-613/005-000	769-613/006-000	769-643	769-673	769-644/004-000	769-674/004-000
14-pole	769-614	769-614/005-000	769-614/006-000	769-644	769-674	769-645/004-000	769-675/004-000
15-pole	769-615	769-615/005-000	769-615/006-000	769-645	769-675		

Item no. suffix
for male connectors with snap-in mounting feet*:
…-…/001-000
or fixing flanges:
…-…/002-000
* 209-137 mounting carrier
for DIN 35 rail

Item no. suffix
for headers with solder pins and fixing flanges:
…-…/003-000

Application Notes and Dimensions



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

For technical explanations and abbreviations, see technical section.

X-COM®-SYSTEM
Female Plugs, Strain Relief Plates and Housings
769 Series

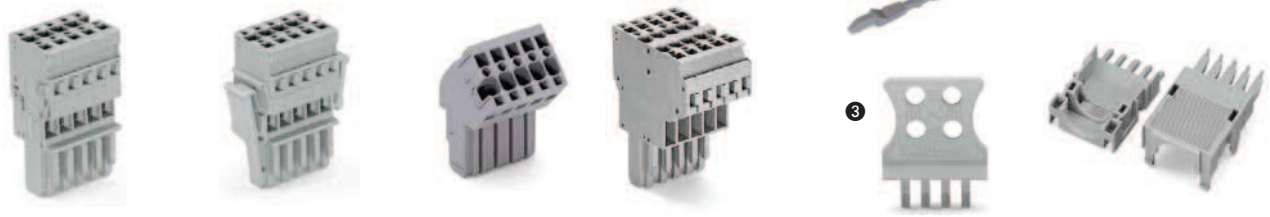
Technical data – female plugs:

0.08 - 4 mm²
500 V/6 kV/3
I_N 32 A

AWG 28 - 12
300 V, 10 A
300 V, 20 A

Module width 5 mm / 0.197 in
8 - 9 mm / 0.33 in

❶ Approvals



Female plugs, with coding fingers	1-conductor, straight	1-conductor, with locking lever	1-conductor, angled	2-conductor, straight
1-pole	**769-101**	–	**769-101/022-000**	**769-121**
2-pole	**769-102**	**769-102/021-000**	**769-102/022-000**	**769-122**
3-pole	**769-103**	**769-103/021-000**	**769-103/022-000**	**769-123**
4-pole	**769-104**	**769-104/021-000**	**769-104/022-000**	**769-124**
5-pole	**769-105**	**769-105/021-000**	**769-105/022-000**	**769-125**
6-pole	**769-106**	**769-106/021-000**	**769-106/022-000**	**769-126**
7-pole	**769-107**	**769-107/021-000**	**769-107/022-000**	**769-127**
8-pole	**769-108**	**769-108/021-000**	**769-108/022-000**	**769-128**
9-pole	**769-109**	**769-109/021-000**	**769-109/022-000**	**769-129**
10-pole	**769-110**	**769-110/021-000**	**769-110/022-000**	**769-130**
11-pole	**769-111**	**769-111/021-000**	**769-111/022-000**	**769-131**
12-pole	**769-112**	**769-112/021-000**	**769-112/022-000**	**769-132**
13-pole	**769-113**	**769-113/021-000**	**769-113/022-000**	**769-133**
14-pole	**769-114**	**769-114/021-000**	**769-114/022-000**	**769-134**
15-pole	**769-115**	**769-115/021-000**	**769-115/022-000**	**769-135**
1-pole	**769-101/000-016**		**769-101/022-016**	**769-121/000-016**

❷ Strain relief plate, gray		Strain relief housing, gray	
1-pole	**769-410**		–
2- to 3-pole	**769-411**	2-pole	**769-1602**
4- to 5-pole	**769-412**	3-pole	**769-1603**
		4-pole	**769-1604**
		5-pole	**769-1605**
		6-pole	**769-1606**
❸ Strain relief plate, gray		7-pole	**769-1607**
6- to 9-pole	**769-413**	8-pole	**769-1608**
10- to 15-pole	**769-414**	9-pole	**769-1609**
		10-pole	**769-1610**
		11-pole	**769-1611**
		12-pole	**769-1612**
		13-pole	**769-1613**
		14-pole	**769-1614**
		15-pole	**769-1615**

Accessories, X-COM®-SYSTEM

Insulation stop,

5 pcs/strip
0.08 - 0.2 mm² "sol." (0.14 mm² "f-st")
white **769-470** 200(8x25)

Insulation stop,

5 pcs/strip
0.25 – 0.5 mm²
light gray **769-471** 200(8x25)

Insulation stop,

5 pcs/strip
0.75 – 1 mm²
dark gray **769-472** 200(8x25)

Miniature adjacent jumper, for straight 1-conductor female plugs, insulated,

I_N 24 A
gray **769-402** 100(4x25)

Adjacent Jumper, for carrier terminal blocks and 2-conductor female plugs, insulated,

I_N = I_N terminal block
gray **280-402** 200(8x25)

Jumper Cover,

for 1-conductor female plugs,
5 poles
gray **769-436** 100(4x25)

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

yellow **280-415** 100(4x25)

Locking Lever,

for 1-pole female plugs
gray **769-428** 100(4x25)
orange **769-429** 100(4x25)

Locking Lever,

for female plugs, 2 poles and more
gray **769-430** 100(4x25)
orange **769-431** 100

Coding pin,

for coding female plugs
orange **769-435** 100(4x25)

Disconnect lock, for disconnect tab used on 280/281 and 769 Series disconnect terminal blocks

red **709-170** 200(8x25)

Operating lever, loose, for female plugs and male connectors with CAGE CLAMP® connection

769-434 2000 (20x100)

Operating tool, for female plugs and male connectors with CAGE CLAMP® connection

210-490 1

Operating tool with partially insulated shaft,

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

Test plug,

with 500 mm cable,
2.3 mm Ø
red **210-136** 50

Miniature WSB Quick marking system,

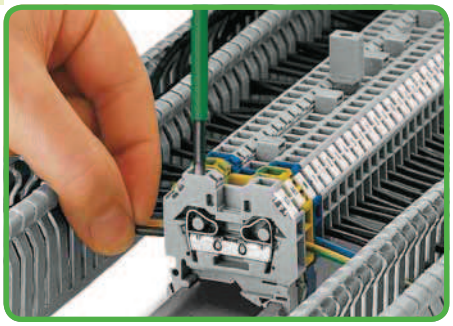
see Section 6

WMB Multi marking system,

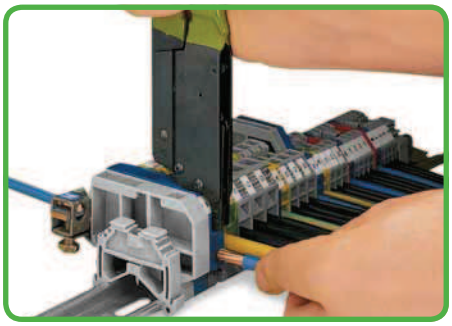
for double-deck carrier terminal blocks
(see Section 6)

Side-Entry, Rail-Mounted Terminal Blocks
279 to 284 Series

Conductor termination



Open clamping unit using a screwdriver and insert stripped conductor until it hits backstop.



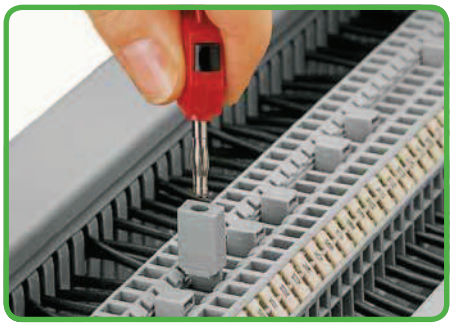
The plunger is placed into the upper operating slot of the side-entry terminal block and the clamp is hooked into the lateral operating slot. The contact is fully opened by pressing the handles together until they engage.
Insert stripped conductor until it hits backstop.

Marking

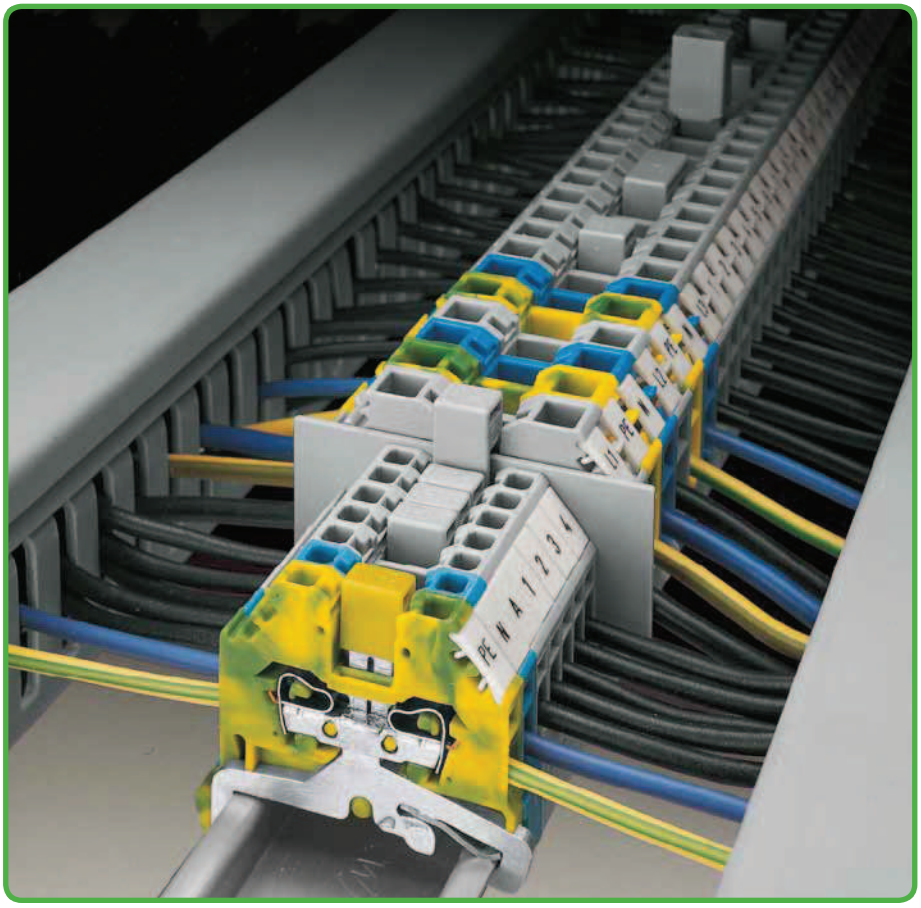


Marking using WMB Multi markers.

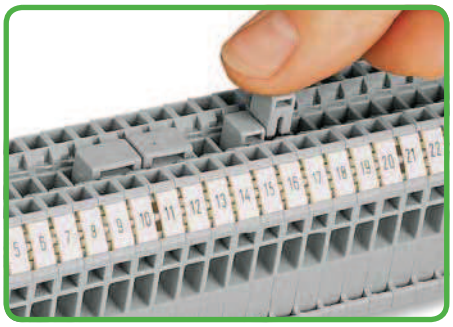
Testing



Testing with test plug adapter.



Commoning



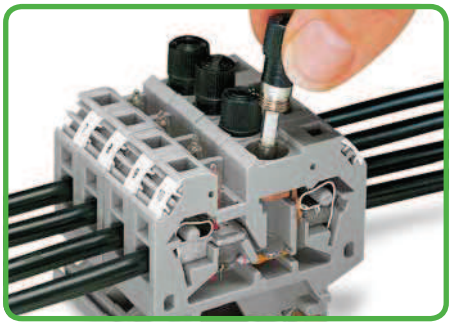
Commoning with adjacent jumpers. Push jumper down until fully inserted!

Commoning with step-down jumpers



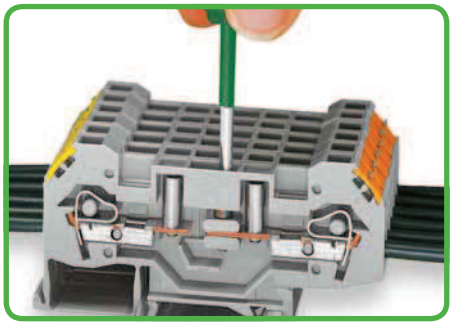
Commoning side-entry rail-mounted terminal blocks with step-down jumpers.

Fuse terminal blocks



Replacing a fuse.

Disconnect terminal blocks

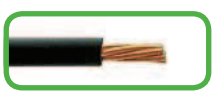


Shifting the disconnect slide link.

CAGE CLAMP® clamps the following copper conductors:



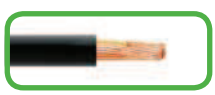
solid



stranded



fine-stranded



tip-bonded



with ferrule

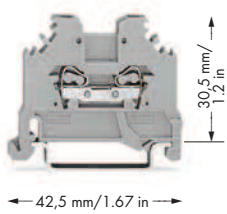


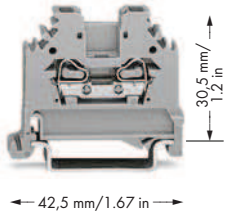
with pin terminal

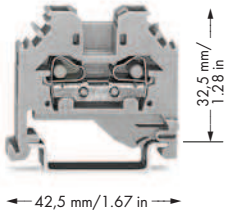
Strip length, see packaging or instructions.

Through and Ground Conductor Terminal Blocks, Side-Entry
279 to 281 Series

0.08 - 1.5 mm² / 800 V/8 kV/3 / I_N 18 A	AWG 28 - 16 / 300 V, 10 A / 600 V, 15 A	0.08 - 2.5 mm² / 800 V/8 kV/3 / I_N 24 A	AWG 28 - 12* / 600 V, 20 A / 600 V, 20 A	0.08 - 4 mm² / 800 V/8 kV/3 / I_N 32 A	AWG 28 - 12 / 600 V, 20 A / 600 V, 20 A
Terminal block width 4 mm / 0.157 in		Terminal block width 5 mm / 0.197 in		Terminal block width 6 mm / 0.236 in	
8 - 9 mm / 0.33 in		8 - 9 mm / 0.33 in		9 - 10 mm / 0.37 in	
❶ Approvals		❶ Approvals		❶ Approvals	







Color	Item No.	Pack. Unit
2-conductor through terminal block		
gray	**279-101**	100
blue	**279-104**	100

Color	Item No.	Pack. Unit
2-conductor through terminal block		
gray	**280-101**	100
blue	**280-104**	100
2-conductor ground terminal block		
green-yellow	**280-107**	100

Color	Item No.	Pack. Unit
2-conductor through terminal block		
gray	**281-101**	100
blue	**281-104**	100
2-conductor ground terminal block		
green-yellow	**281-107**	100

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick



orange	**280-302**	100 (4x25)
gray	**280-301**	100 (4x25)

Separator, oversized, 2 mm thick



orange	**280-322**	100 (4x25)
gray	**280-332**	100 (4x25)

Accessories, 279 Series

Appropriate marking system: **WMB**

Adjacent jumper, insulated, I_N 15 A



gray	**279-402**	200 (8x25)
yellow-green	**279-422**	200 (8x25)

Alternate jumper, insulated, I_N 15 A



gray	**279-409**	100 (4x25)

Test plug adapter, for terminal blocks 1.5–10 mm²



(AWG 16–8), 8 mm wide
209-170 50 (2x25)
for 4 mm Ø test plug

Protective warning marker, with high-voltage symbol,



for 5 terminal blocks
yellow **279-405** 100 (4x25)

Operating tool, for side-entry rail-mounted terminal blocks



210-143 1

Operating tool with partially insulated shaft,



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

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick



orange	**280-302**	100 (4x25)
gray	**280-301**	100 (4x25)

Separator, oversized, 2 mm thick



orange	**280-322**	100 (4x25)
gray	**280-332**	100 (4x25)

Accessories, 280 Series

Appropriate marking system: **WMB**

Adjacent jumper, insulated, I_N 24 A



gray	**280-402**	200 (8x25)
yellow-green	**280-422**	200 (8x25)

Alternate jumper, insulated, I_N 24 A



gray	**280-409**	100 (4x25)

Staggered jumper, insulated, I_N 24 A,



5 mm wide

from 1 to 2	**780-452**	100 (4x25)
from 1 to 3	**780-453**	100 (4x25)
from 1 to 4	**780-454**	100 (4x25)
from 1 to 5	**780-455**	50 (2x25)
:	:	
from 1 to 8	**780-458**	50 (2x25)

Test plug adapter, for terminal blocks 1.5–10 mm²



(AWG 16–8), 8 mm wide
209-170 50 (2x25)
for 4 mm Ø test plug

Protective warning marker, with high-voltage symbol,



for 5 terminal blocks
yellow **280-405** 100 (4x25)

Operating tool, for side-entry rail-mounted terminal blocks



210-143 1

Suitable for Ex i applications

Item-Specific Accessories

End and intermediate plate, 3 mm thick



orange	**281-302**	100 (4x25)
gray	**281-301**	100 (4x25)

Separator, oversized, 2 mm thick



orange	**281-322**	100 (4x25)
gray	**281-332**	100 (4x25)

Accessories, 281 Series

Appropriate marking system: **WMB**

Adjacent jumper, insulated, I_N 32 A



gray	**281-402**	200 (8x25)
yellow-green	**281-422**	200 (8x25)

Alternate jumper, insulated, I_N 32 A



gray	**281-409**	100 (4x25)

Staggered jumper, insulated, I_N 32 A,



6 mm wide

from 1 to 2	**781-452**	100 (4x25)
from 1 to 3	**781-453**	100 (4x25)
from 1 to 4	**781-454**	100 (4x25)
from 1 to 5	**781-455**	50 (2x25)
from 1 to 6	**781-456**	50 (2x25)

Test plug adapter, for terminal blocks 1.5–10 mm²



(AWG 16–8), 8 mm wide
209-170 50 (2x25)
for 4 mm Ø test plug

Protective warning marker, with high-voltage symbol,



for 5 terminal blocks
yellow **281-405** 100 (4x25)

Operating tool, for side-entry rail-mounted terminal blocks



210-141 1

Operating tool with partially insulated shaft,



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

❶ Approvals are available online at: www.wago.com.
* AWG 12: THHN, THWN

For technical explanations and abbreviations, see technical section.