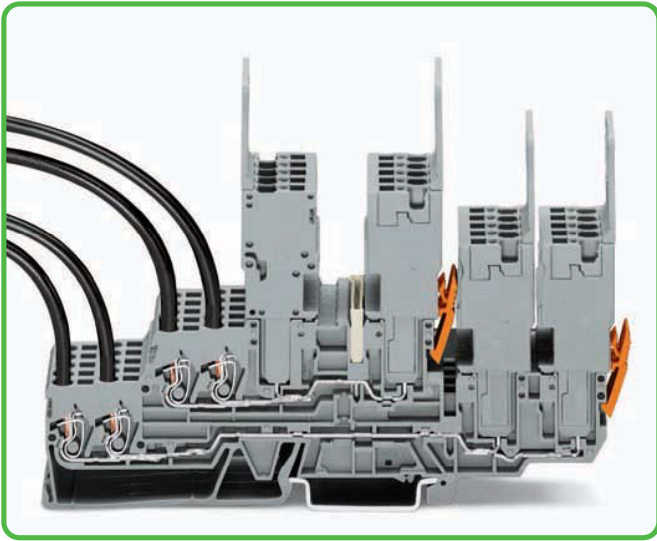


# Types of Assembly

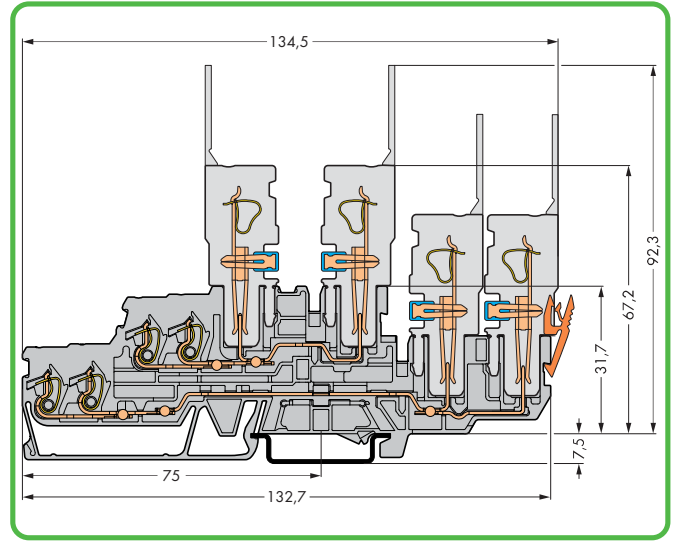
## 2-Conductor/2-Pin Double-Deck Carrier Terminal Blocks and 1-Conductor Female Plugs



1-conductor female plug  
Double-deck carrier terminal blocks can be commoned via 870 Series push-in type jumper bars.

**Notice:**

Female plugs must be opposing on the upper deck (see above).  
Angled 1-conductor female plugs and 2-conductor female plugs cannot be used.

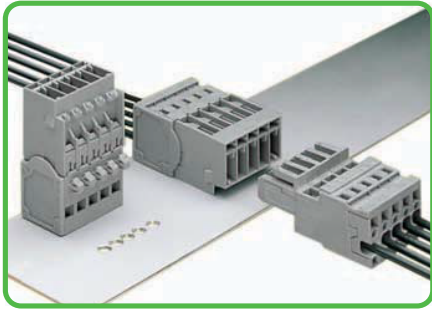


Carrier terminal block

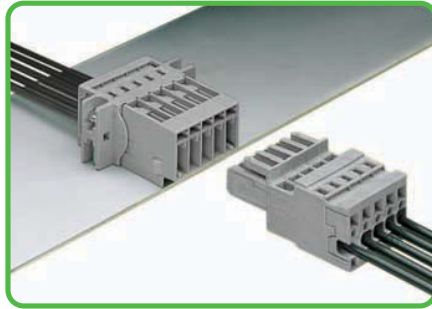
# 7 X-COM®-SYSTEM Male Headers and Male Connectors, 769 Series



Male connector with CAGE CLAMP®. 1-conductor female plug, straight.

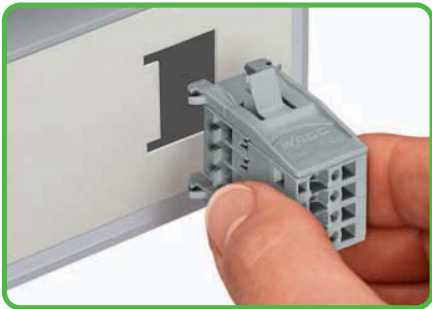


Male connector with CAGE CLAMP® connection and mounting feet. 1-conductor female plug, straight.



Male connector with CAGE CLAMP® connection and fixing flanges. 1-conductor female plug, straight.

## Male connector with snap-in flanges



Snap-in mounting without tools.

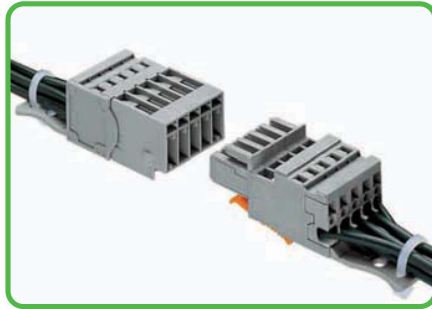


## Operating tool



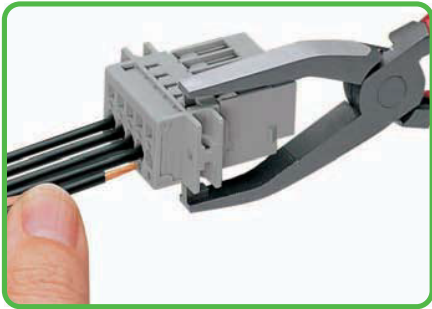
Conductor termination - side-entry wiring (example shows a female plug).

## Strain relief plates

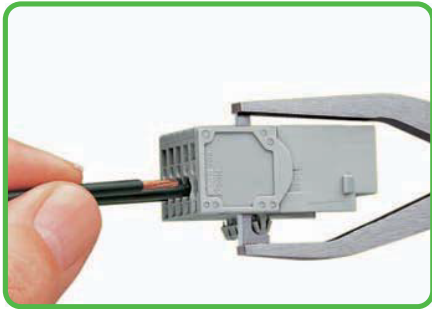


Can be snapped in male connector and female plug.

## Operating tool



Conductor termination with operating tool (example shows a male connector).



Can also be used with male connectors with snap-in mounting feet.

## Marking



Female connector with CAGE CLAMP® with miniature WSB quick marking system

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

- solid

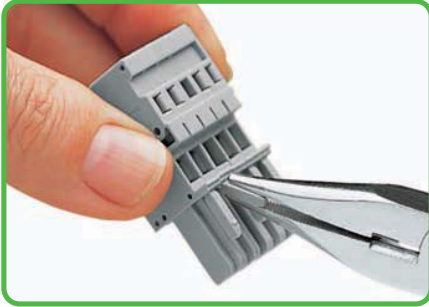
- stranded

- fine-stranded, also with tinned single strands

\* For aluminum conductors, see notes in Section 14.

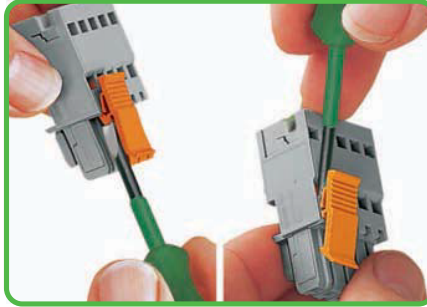
## - Description and Handling -

### Coding



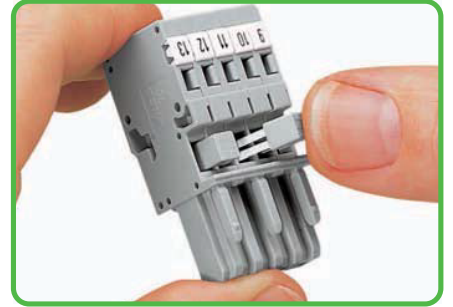
Coding a female plug – removal of coding finger(s). Do not break off the first and last latch position coding fingers!

### Locking lever



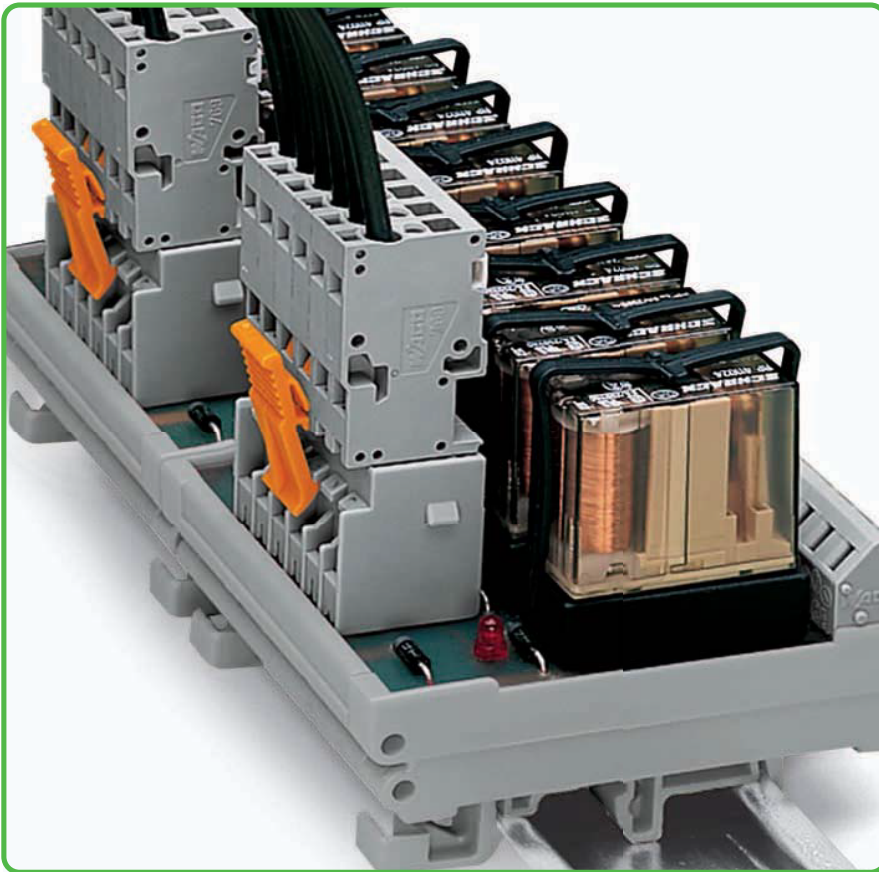
Snapping in/removal of locking lever.

### Commoning

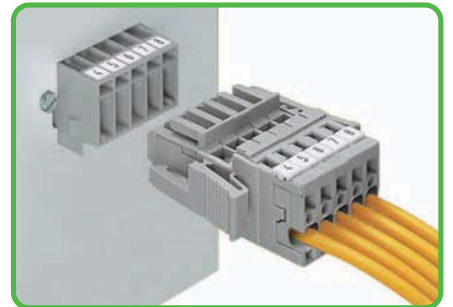


Commoning 1-conductor female plugs with miniature adjacent jumpers.

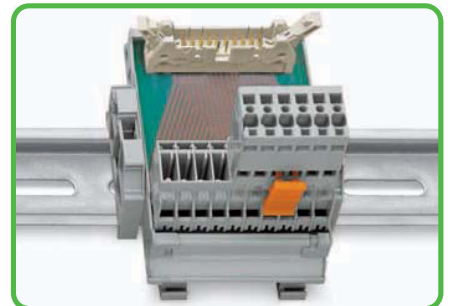
**Note:** Connectors used according to the regulations shall not be connected or disconnected when live or under load.



### Plugging a female connector

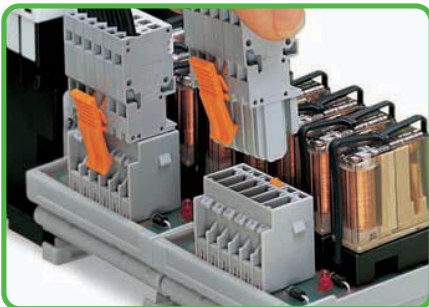


Male header and 1-conductor female plug with lateral locking levers.

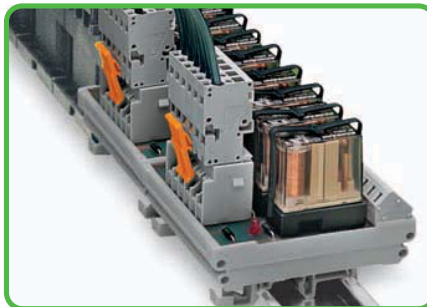


Male headers with solder pins for printed circuit boards.

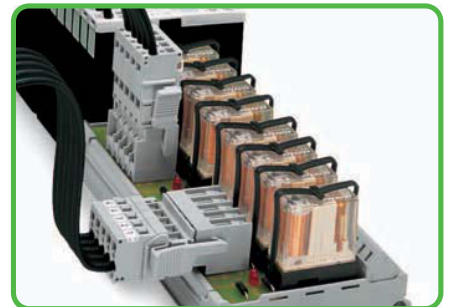
### Pluggable PCB connection



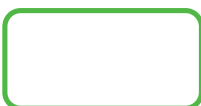
Connection to a relay module inside the switchgear cabinet.



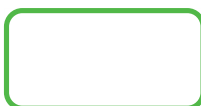
Application example showing a relay module: Male headers with straight solder pins and 1-conductor female plugs.



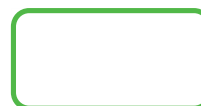
Male headers with solder pins: Integration of PCB sub-assemblies into the system wiring.



fine-stranded,  
tip-bonded



fine-stranded,  
with ferrule ①  
(gaslight crimped)



fine-stranded,  
with pin terminal  
(gaslight crimped)

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

# X-COM®-SYSTEM

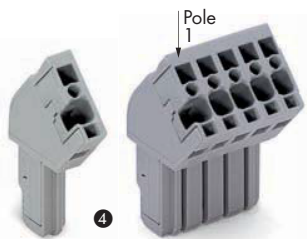
## 1-Conductor Female Plugs, Angled

CAGE CLAMP®

7

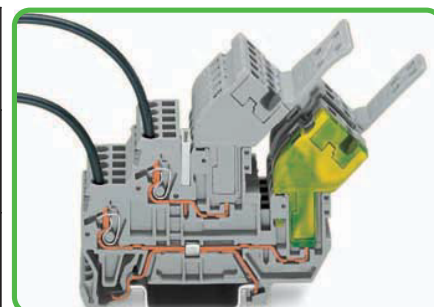
371

0.08 - 4 mm<sup>2</sup> AWG 28 - 12  
 500 V/6 kV/3 ① 600 V, 20 A ②  
 I<sub>N</sub> 32 A ② 300 V, 20 A ③  
 module width 5 mm / 0.197 in  
 8 - 9 mm / 0.33 in ⑤

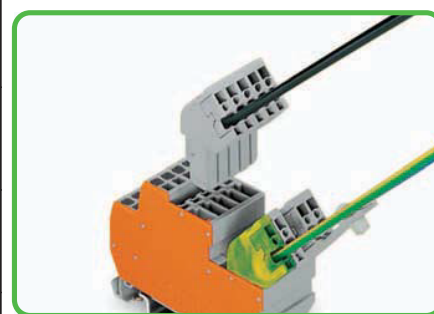


- ① 500 V = rated voltage  
6 kV = rated surge voltage  
3 = pollution degree  
(also see Section 1.4)
- ② See current-carrying capacity curve at [www.wago.com](http://www.wago.com)
- ③ Strip length, see packaging or instructions.
- ④ Item-no. suffix  
blue ... /000-006  
green-yellow ... /000-016
- ⑤ See page 375

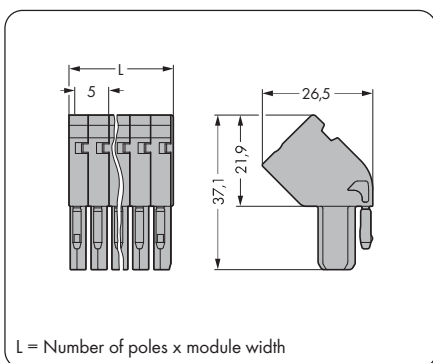
Pole No.	Item No.	Pack. Unit	Accessories
1-conductor female plug, angled, for insertion into carrier terminal blocks or male connectors, with coding fingers, gray			Appropriate marking system: Miniature WSB (see Section 1.3)
1	769-101/022-000	200	<b>Insulation stop,</b> 5 pcs/strip, 0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st") white <b>769-470</b> 200 (8x25)
2	769-102/022-000	100	<b>Insulation stop,</b> 5 pcs/strip, 0.25 - 0.5 mm <sup>2</sup> light gray <b>769-471</b> 200 (8x25)
3	769-103/022-000	50	<b>Insulation stop,</b> 5 pcs/strip, 0.75 - 1 mm <sup>2</sup> dark gray <b>769-472</b> 200 (8x25)
4	769-104/022-000	50	<b>Protective warning marker,</b> with high-voltage symbol, black, for 5 terminal blocks yellow <b>280-415</b> 100 (4x25)
5	769-105/022-000	50	<b>Operating lever, loose,</b> for female plugs and male connectors with CAGE CLAMP® <b>769-434</b> 2000 (20x100)
6	769-106/022-000	25	<b>Test plug,</b> with 500 mm cable, 2 mm Ø red <b>210-136</b> 50
7	769-107/022-000	25	<b>Test plug,</b> with 500 mm cable, 2.3 mm Ø yellow <b>210-137</b> 50
8	769-108/022-000	25	<b>Strain relief plate, gray</b> 1-pole <b>769-410</b> 100 (4x25) 2- to 3-pole <b>769-411</b> 100 (4x25) 4- to 5-pole <b>769-412</b> 100 (4x25)
9	769-109/022-000	25	<b>Strain relief plate, gray</b> 6- to 9-pole <b>769-413</b> 100 (4x25) 10- to 15-pole <b>769-414</b> 100 (4x25)
10	769-110/022-000	25	<b>Snap-on type relief housing,</b> consisting of strain relief support/housing 5-pole <b>769-1605</b> 25
11	769-111/022-000	20	<b>Miniature WSB Quick marking system,</b> 10 strips with 10 markers per card, 5 mm wide markers plain <b>248-501</b> 5
12	769-112/022-000	20	
13	769-113/022-000	10	
14	769-114/022-000	10	
15	769-115/022-000	10	



Angled female plugs provide reduced installation height.



Angled female plugs installed on double-deck terminal block.



For list of approvals and user guide, see pages 634 to 637.