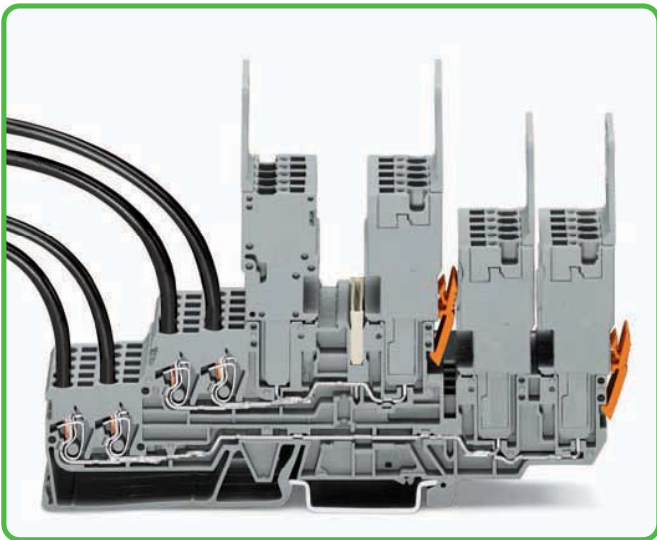


# Types of Assembly

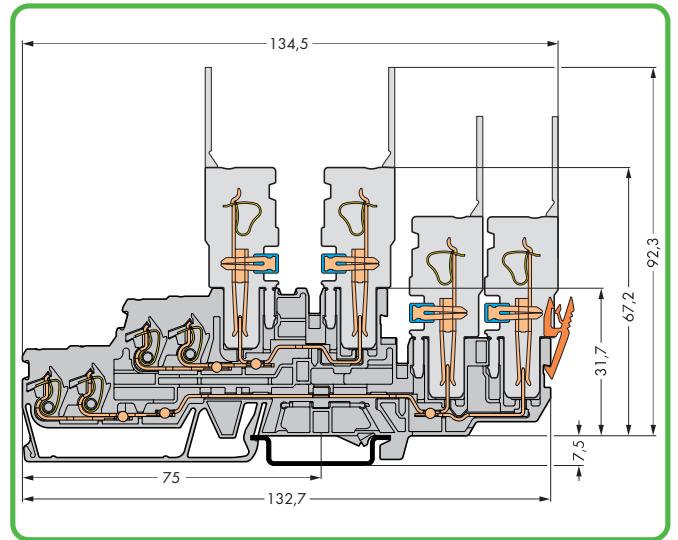
## 2-Conductor/2-Pin Double-Deck Carrier Terminal Blocks and 1-Conductor Female Plugs



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.



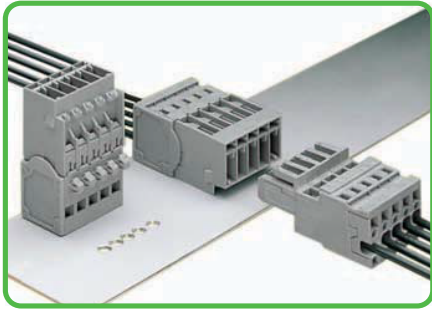
Carrier terminal block

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

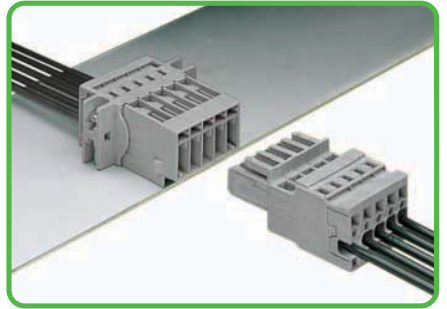
358



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

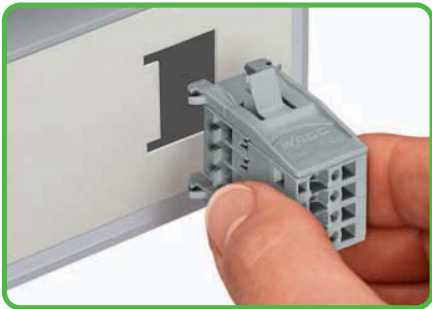


Male connector with CAGE CLAMP® connection and mounting feet. 1-conductor female plug, straight.



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.

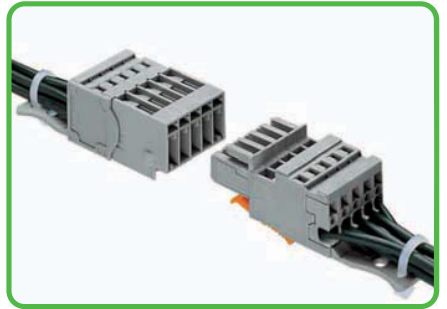


## Operating tool



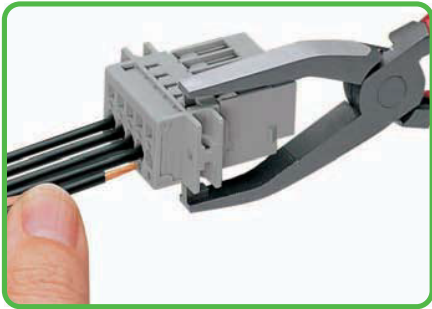
Conductor termination – side-entry wiring (example shows a female plug).

## Strain relief plates

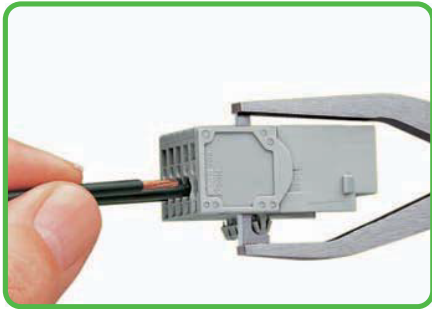


Can be snapped in male connector and female plug.

## 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

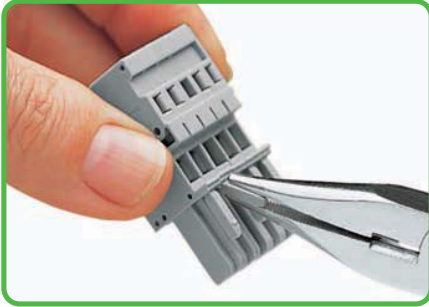
stranded

fine-stranded, also with tinned single strands

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

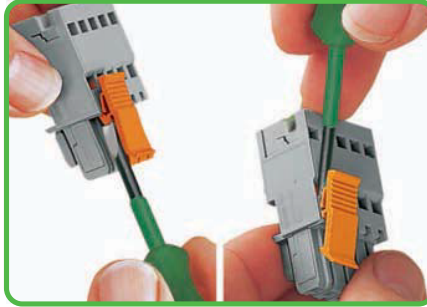
## - Description and Handling -

### Coding



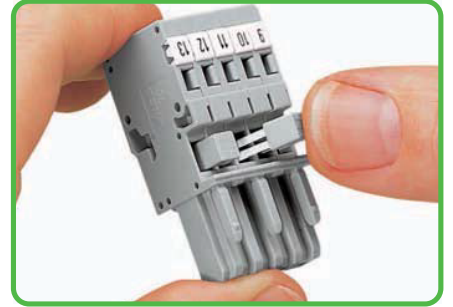
Coding a female plug – removal of coding finger(s). Do not break off the first and last latch position coding fingers!

### Locking lever



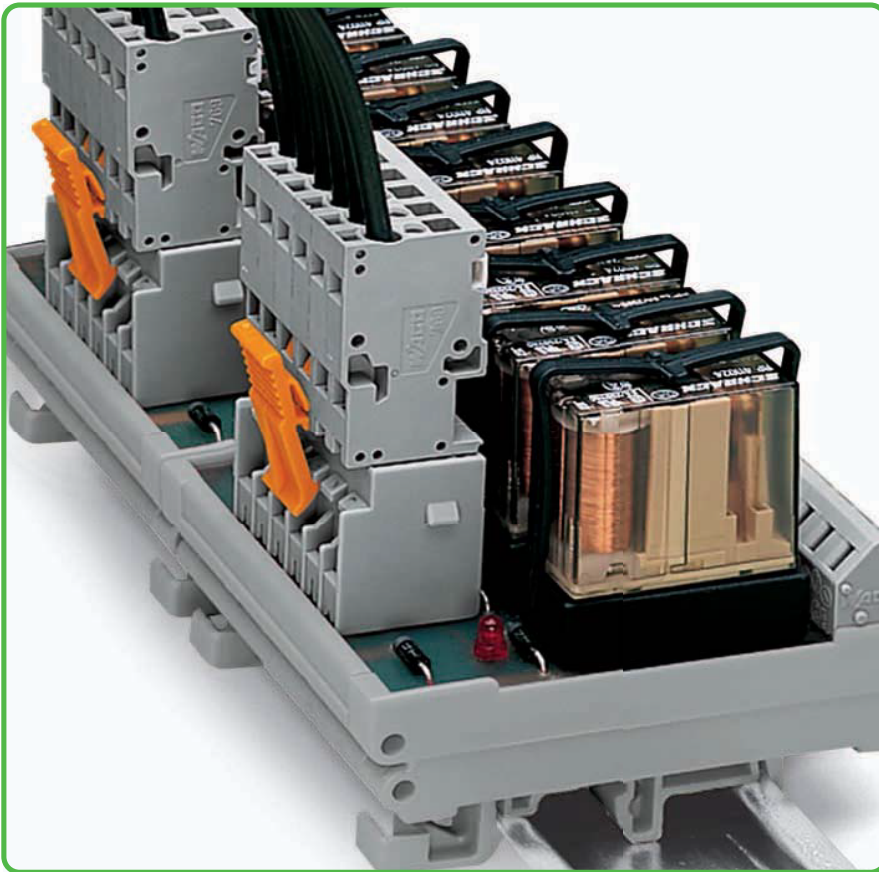
Snapping in/removal of locking lever.

### Commoning

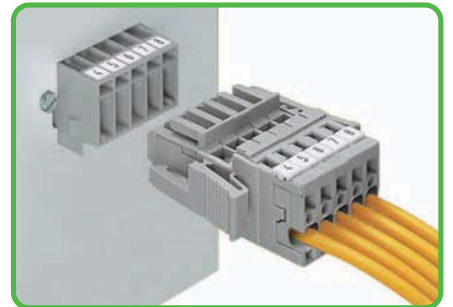


Commoning 1-conductor female plugs with miniature adjacent jumpers.

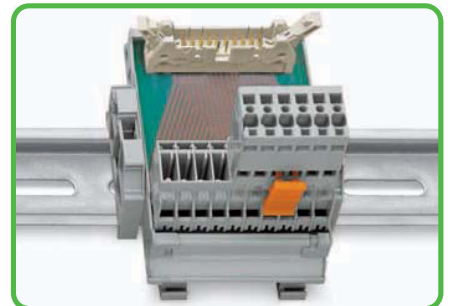
**Note:** Connectors used according to the regulations shall not be connected or disconnected when live or under load.



### Plugging a female connector

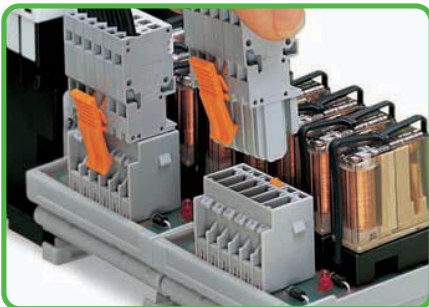


Male header and 1-conductor female plug with lateral locking levers.

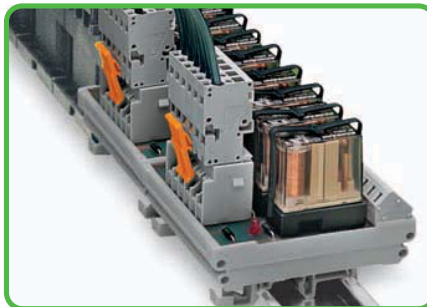


Male headers with solder pins for printed circuit boards.

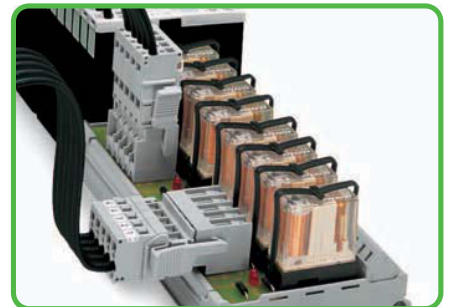
### Pluggable PCB connection



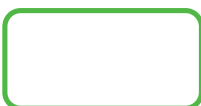
Connection to a relay module inside the switchgear cabinet.



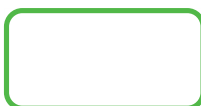
Application example showing a relay module: Male headers with straight solder pins and 1-conductor female plugs.



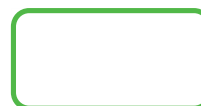
Male headers with solder pins: Integration of PCB sub-assemblies into the system wiring.



fine-stranded,  
tip-bonded



fine-stranded,  
with ferrule ①  
(gas-tight crimped)



fine-stranded,  
with pin terminal  
(gas-tight crimped)

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

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 ②  
 module width 5 mm / 0.197 in  
 8 - 9 mm / 0.33 in ③



- ① 500 V = rated voltage  
6 kV = rated surge voltage  
3 = pollution degree  
(also see Section 14)
- ② See current-carrying capacity curve, pages 376 to 379 and at www.wago.com
- ③ Strip length, see packaging or instructions.
- ④ Item-no. suffix  
blue .../000-006  
green-yellow .../000-016
- ⑤ **Application examples for 1-pole female plug:**
  - Phase selection in three-phase network
  - Test plug with rated current capability
  - Simplified circuit expansion - addition of base circuits requires only female plugs to be plugged in
- ⑥ See page 375

Pole No.	Item No.	Pack. Unit	Accessories	
<b>1-conductor female plug</b> , for insertion into carrier terminal blocks or male connectors, with coding fingers, gray, commoning possible with miniature adjacent jumpers			Appropriate marking system: Miniature WSB (see Section 13)	
①	769-101	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)	<b>Operating lever</b> , loose, for female plugs and male connectors with CAGE CLAMP® <b>769-434</b> 2000 (20x100)
②	769-102	100	<b>Insulation stop</b> , 5 pcs/strip, 0.25 - 0.5 mm <sup>2</sup> light gray <b>769-471</b> 200 (8x25)	<b>Locking lever</b> , female plugs with 1-pole gray <b>769-428</b> 100 (4x25) orange <b>769-429</b> 100 (4x25)
③	769-103	50		
④	769-104	50	<b>Insulation stop</b> , 5 pcs/strip, 0.75 - 1 mm <sup>2</sup> dark gray <b>769-472</b> 200 (8x25)	<b>Locking lever</b> , female plugs with 2-poles or more orange <b>769-431</b> 100 (4x25) gray <b>769-430</b> 100
⑤	769-105	50		
⑥	769-106	25	<b>Miniature adjacent jumper</b> , insulated, I <sub>N</sub> 24 A gray <b>769-402</b> 100 (4x25)	<b>Strain relief plate</b> , gray 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)
⑦	769-107	25		
⑧	769-108	25	<b>Jumper cover</b> , for 1-conductor female plugs, for 5 poles gray <b>769-436</b> 100 (4x25)	<b>Strain relief plate</b> , gray 6- to 9-pole <b>769-413</b> 100 (4x25) 10- to 15-pole <b>769-414</b> 100 (4x25)
⑨	769-109	25		
⑩	769-110	25	<b>Protective warning marker</b> , with high-voltage symbol, black, for 5 terminal blocks yellow <b>280-415</b> 100 (4x25)	<b>Snap-on type relief housing</b> , consisting of strain relief support/housing 5-pole <b>769-1605</b> 25
⑪	769-111	20		
⑫	769-112	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	<b>Miniature WSB Quick marking system</b> , plain, 10 strips with 10 markers per card, 5 mm wide markers yellow <b>248-501/000-002</b> red <b>248-501/000-005</b> blue <b>248-501/000-006</b> gray <b>248-501/000-007</b> orange <b>248-501/000-012</b> light green <b>248-501/000-017</b> green <b>248-501/000-023</b> violet <b>248-501/000-024</b>
⑬	769-113	10		
⑭	769-114	10	L = Number of poles x module width Dimensions in mm	5
⑮	769-115	10		