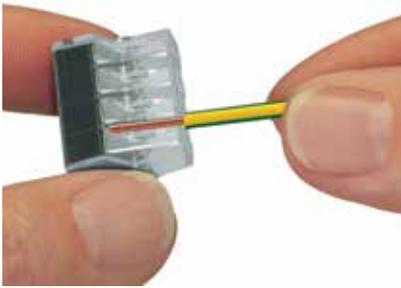


# Electrical Installation Products

Splicing Connectors and Chassis Mount Terminal Blocks



# PUSHWIRE® Connectors for Junction Boxes, (solid and stranded wire), 773 Series WALL-NUTS®



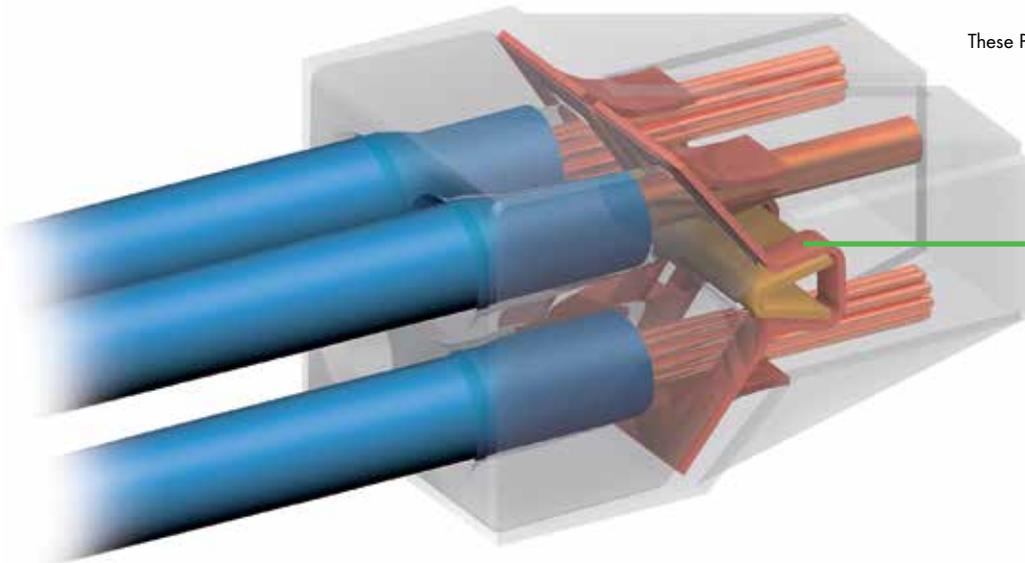
Simply strip conductor to 12 mm/0.47 in. using the built-in strip-length gauge



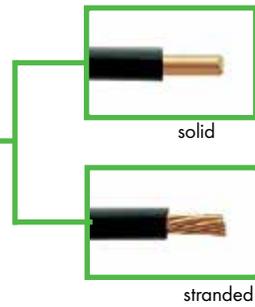
Then insert stripped conductor firmly into connector. Check for complete insertion through clear/transparent housing.



Wire Removal  
Solid - Pull & Twist; Remove wire  
Stranded - Cut Wire; Discard connector  
Restrip conductor and insert into new connector



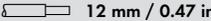
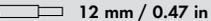
These PUSHWIRE® connectors clamp the following copper conductors:

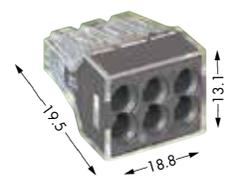
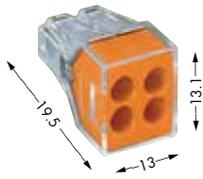
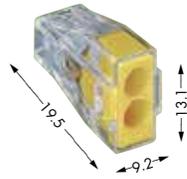


Integrated test port allows for easy testing of connection integrity

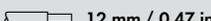
- Common (splice) up to 8 solid or stranded conductors in the same connector
- Option: mount to chassis or DIN rail via separate carrier
- The PUSHWIRE® connection clamps stranded or solid copper conductors
- Cross section up to 10 AWG
- Save up to 50% in wiring time over twist-type connectors

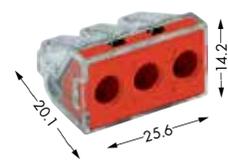
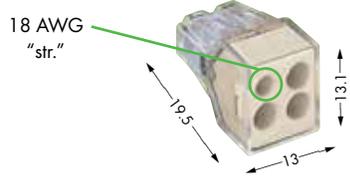
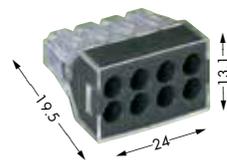
# PUSHWIRE® Connectors for Junction Boxes, (solid and stranded wire), 773 Series WALL-NUTS®

<p>2 x 0.75 – 2.5 mm<sup>2</sup> "s" 2 x 1.5 – 2.5 mm<sup>2</sup> "r" 400 V/ 4 kV/2* 24 A Max. op. temp. 105 °C</p>   	<p>2 x AWG 18 – 12 "sol." 2 x AWG 16 – 12 "str." (≤19) 600 V 1000 V signs &amp; fixtures</p>	<p>4 x 0.75 – 2.5 mm<sup>2</sup> "s" 4 x 1.5 – 2.5 mm<sup>2</sup> "r" 400 V/ 4 kV/2* 24 A Max. op. temp. 105 °C</p>   	<p>4 x AWG 18 – 12 "sol." 4 x AWG 16 – 12 "str." (≤19) 600 V 1000 V signs &amp; fixtures</p>	<p>6 x 0.75 – 2.5 mm<sup>2</sup> "s" 6 x 1.5 – 2.5 mm<sup>2</sup> "r" 400 V/ 4 kV/2* 24 A Max. op. temp. 105 °C</p>   	<p>6 x AWG 18 – 12 "sol." 6 x AWG 16 – 12 "str." (≤19) 600 V 1000 V signs &amp; fixtures</p>
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Pushwire connectors for junction boxes, 2-conductor connectors, color of housing transparent, color of cover yellow		Pushwire connectors for junction boxes, 4-conductor connectors, color of housing transparent, color of cover orange		Pushwire connectors for junction boxes, 6-conductor connectors, color of housing transparent, color of cover black	
773-162	100 pc/box	773-164	100 pc/box	773-166	50 pc/box
773-102/VE00-0500	500 pc/bag	773-104/PW05-400	400 pc/jar	773-106/PW00-250	250 pc/jar
773-102/PW05-650	650 pc/jar	773-104/VE00-0500	500 pc/bag	773-166/VE00-0500	500 pc/bag
773-102/VE00-2500	2500 pc/bag	773-104/VE00-2500	2500 pc/bag	773-166/VE00-2500	2500 pc/bag
51011251	10 pc/blister pack	5101252	10 pc/blister pack	51011253	10 pc/blister pack

<p>8 x 0.75 – 2.5 mm<sup>2</sup> "s" 8 x 1.5 – 2.5 mm<sup>2</sup> "r" 400 V/ 4 kV/2* 24 A Max. op. temp. 105 °C</p>   	<p>8 x AWG 18 – 12 "sol." 8 x AWG 16 – 12 "str." (≤19) 600 V 1000 V signs &amp; fixtures</p>	<p>3 x 0.75 – 2.5 mm<sup>2</sup> "s" 3 x 1.5 – 2.5 mm<sup>2</sup> "r" 1 x 0.75 "sol.+rig." 400 V/ 4 kV/2* 24 A Max. op. temp. 105 °C</p>   	<p>3 x AWG 18 – 12 "sol." 3 x AWG 16 – 12 "str." (≤19) 1 x AWG 18 "sol.+str." (≤19) 600 V 1000 V signs &amp; fixtures</p>	<p>3 x 1.5 – 6 mm<sup>2</sup> "s+st" 400 V/ 4 kV/2* 32 A Max. op. temp. 105 °C</p>   	<p>3 x AWG 14 – 10 "sol." + "str." (≤19) 600 V 1000 V signs &amp; fixtures</p>
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Pushwire connectors for junction boxes, 8-conductor connectors, color of housing transparent, color of cover dark grey		Pushwire connectors for junction boxes, 4-conductor connectors, filled with contact paste "Alu-Plus", color of housing transparent, color of cover light grey		Pushwire connectors for junction boxes, 3-conductor connectors, color of housing transparent, color of cover red	
773-168	50 pc/box	773-124	100 pc/box	773-173	50 pc/box
773-108/VE00-2500	2500 pc/bag	773-124/VE01-0000	2500 pc/bag	773-173/PW05-200	200 pc/jar
51013414	10 pc/blister pack			773-173/VE00-0500	500 pc/bag
				773-173/VE00-2500	2500 pc/bag
				51015201	5 pc/blister pack

## Packaging Options



Box



Blister Pack



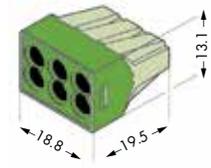
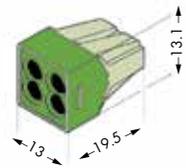
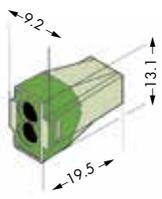
Jar

# PUSHWIRE® Connectors for Junction Boxes, (solid and stranded wire), 773 Series WALL-NUTS® for Grounding and Bonding

2 x 0.75-2.5 mm <sup>2</sup> "s" 2 x 1.5-2.5 mm <sup>2</sup> "r" 400 V/4 kV/2* 24 A Max. op. temp. 105°C	2 x AWG 18-12 "sol." 2 x AWG 16-12 "str." (≤19) 600 V 1000 V signs & fixtures	4 x 0.75 - 2.5 mm <sup>2</sup> "s" 4 x 1.5 - 2.5 mm <sup>2</sup> "r" 400 V/4 kV/2* 24 A Max. op. temp. 105°C	4 x AWG 18 - 12 "sol." 4 x AWG 16-12 "str." (≤19) 600 V 1000 V signs & fixtures	6 x 0.75 - 2.5 mm <sup>2</sup> "s" 6 x 1.5 - 2.5 mm <sup>2</sup> "r" 400 V/4 kV/2* 24 A Max. op. temp. 105°C	6 x AWG 18 - 12 "sol." 6 x AWG 16 - 12 "str." (≤19) 600 V 1000 V signs & fixtures
 12 mm / 0.47 in  LISTED Grounding and bonding connectors 64KA 	 12 mm / 0.47 in  LISTED Grounding and bonding connectors 64KA 	 12 mm / 0.47 in  LISTED Grounding and bonding connectors 64KA 			

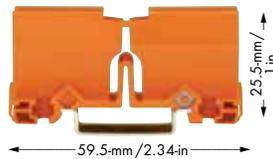


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
773-112	100 pc/box	773-114	100 pc/box	773-116	50 pc/box

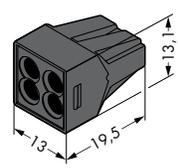
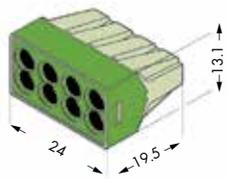


## 773 Series WALL-NUTS® for High Temp Applications

8 x 0.75 - 2.5 mm <sup>2</sup> "s" 8 x 1.5 - 2.5 mm <sup>2</sup> "r" 400 V/4 kV/2* 24 A Max. op. temp. 105°C	8 x AWG 18 - 12 "sol." 8 x AWG 16 - 12 "str." (≤19) 600 V 1000 V signs & fixtures	Carrier for Push-Wire Connectors  Carrier width 18 mm / 0.7 in	4 x 0.75 - 2.5 mm <sup>2</sup> "s" 4 x 1.5 - 2.5 mm <sup>2</sup> "r" 400 V/4 kV/2* 24 A Max. op. temp. 150°C	4 x AWG 18 - 12 "sol." 4 x AWG 16 - 12 "str." (≤19) 4 x AWG 18 "str." tinned ≤ 7 600 V 1000 V signs & fixtures
 12 mm / 0.47 in  LISTED Grounding and bonding connectors 64KA 	 12 mm / 0.47 in  LISTED Splicing wire connector 667 F 			



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
773-118	50 pc/box	773-332	50 pc/box	773-514	50 pc/box



# PUSHWIRE® Connectors for Junction Boxes, (solid and stranded wire), 773 Series WALL-NUTS® Suitable for EEx e Applications

<b>Conductor Range:</b>	AWG 18-12 (solid) AWG 16-12 (stranded ≤19) AWG 14-10 (3-conductor only)*	<b>Color:</b>	Light Gray (housing and cover)
<b>Electrical specs:</b>	600 V / 20 A maximum 600 V / 30 A maximum (3-conductor only)*	<b>Strip length:</b> 	12 mm / 0.47 in 15 mm / 0.53 in (3-conductor only)*

The WAGO 773 Series for applications in hazardous areas is an extension of the WAGO PUSHWIRE® connectors product group and has the same benefits in installation, technology, and reliable connection as the standard 773 Series for commercial and residential applications. The world's first PUSHWIRE® connectors offer the following features:

- Compact design allows a high concentration of more connectors in an Ex-junction box or Ex-terminal box resulting in space-savings and cost-effective installation solutions
- Easy wiring provides time-saving installation and saves money
- Resistance to vibration (shock-proof)
- Built-in test slot for easy troubleshooting
- Maintenance-free connection

Height: 13.1 mm /  
0.516 in  
Width: 9 mm /  
0.354 in  
Depth: 19.1 mm /  
0.752 in



Height: 13.1 mm /  
0.516 in  
Width: 13 mm /  
0.512 in  
Depth: 19.1 mm /  
0.752 in



Height: 13.1 mm /  
0.516 in  
Width: 19 mm /  
0.748 in  
Depth: 19.1 mm /  
0.752 in



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
2-conductor pushwire connector		4-conductor pushwire connector		6-conductor pushwire connector	
 <b>773-492</b>	100	 <b>773-494</b>	100	 <b>773-496</b>	100

Height: 13.1 mm /  
0.516 in  
Width: 24 mm /  
0.945 in  
Depth: 19.1 mm /  
0.752 in



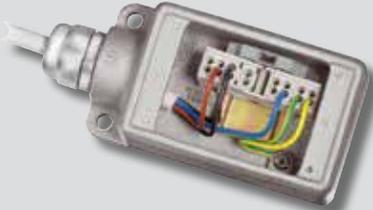
Height: 14.2 mm /  
0.559 in  
Width: 25.6 mm /  
1.008 in  
Depth: 20.1 mm /  
0.791 in



Height: 30 mm /  
1.181 in  
Width: 18 mm /  
0.709 in  
Depth: 61 mm /  
2.402 in



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
8-conductor pushwire connector		*3-conductor pushwire connector		Fixing Carrier, light gray	
 <b>773-498</b>	100	 <b>773-493</b>	50	<b>773-331</b>	50 (5 x 10)



NOTE: For hazardous applications, this 773 Series MUST be used in conjunction with the mounting carrier specified on this page (item number 773-331).

Certification according to ATEX / UL Ex is based upon the use of the entire system (connector and fixing carrier).




Simple insertion of 773 into carrier - no tools required



End stops are locked in place to secure the connectors

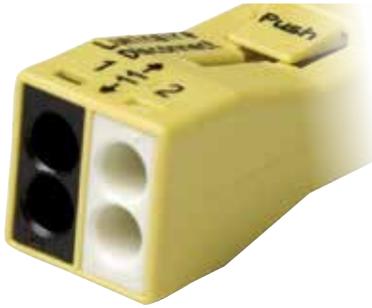


Mounting carrier with connectors snaps on DIN RAIL

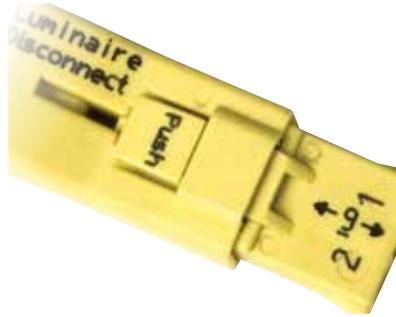


Removal of carrier from DIN RAIL

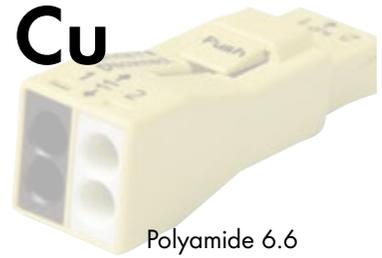
# PUSHWIRE® Connector for Luminaire Disconnect, 873 Series LUMI-NUTS®



Molded in color coding for circuit wiring:  
 Black = L  
 White = N  
 Red = dimming and switching (3-pole)  
 Green = Ground (3-pole)  
 Inkjet marking for additional requirements

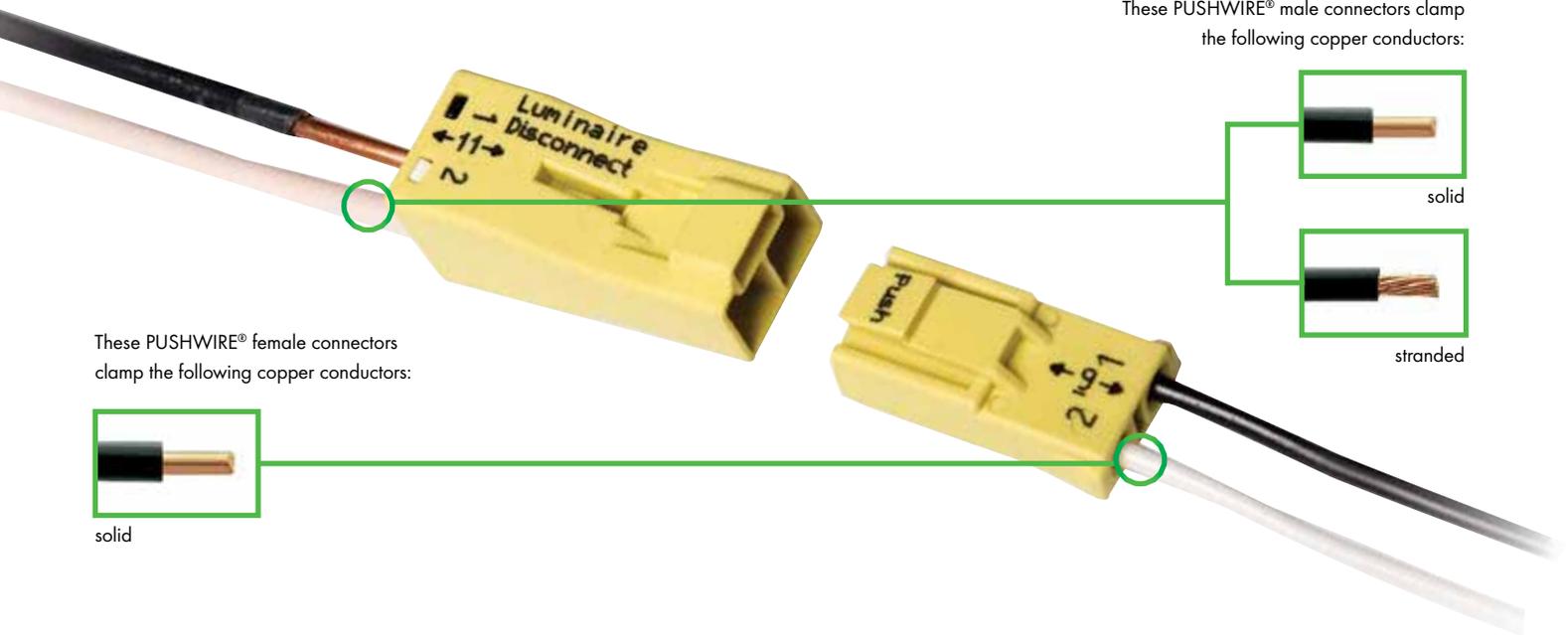


Integrated locking latch - automatic locking with mating of connectors - simple push down to disengage

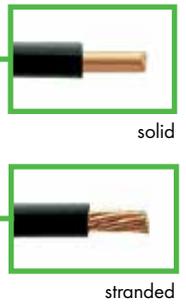


Polyamide 6.6

Copper (not brass) for electrical integrity. UL94V-0 rated housing for utmost in flame-retardation



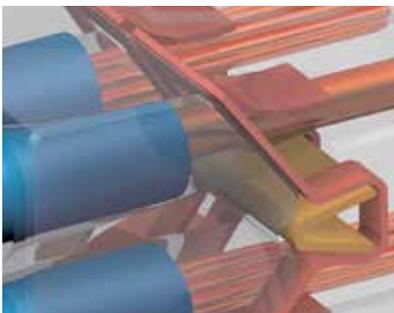
These PUSHWIRE® male connectors clamp the following copper conductors:



These PUSHWIRE® female connectors clamp the following copper conductors:



solid



Engineered two-piece construction: Copper current bar and stainless steel spring combine to provide optimal contact pressure independent of the housing



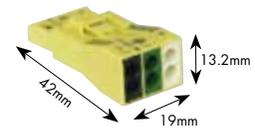
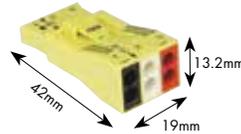
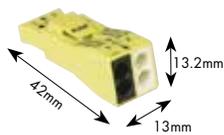
Completely touch-proof in the unmated position



100% protected against mis-mating

# PUSHWIRE® Connector for Luminaire Disconnect, 873 Series LUMI-NUTS®

<b>Male Connector</b> 2 x AWG 18-12 "sol." per pole 2 x AWG 16-12 ≤19 "str." per pole 600 V 20 A Current capacity at max conductor size  11-13 mm/0.47 in	<b>Female Connector</b> 1 x AWG 18 "sol." per pole 600 V 6 A 9-11 mm/0.39 in	<b>Male Connector</b> 2 x AWG 18-12 "sol." per pole 2 x AWG 16-12 ≤19 "str." per pole 600 V 20 A Current capacity at max conductor size  11-13 mm/0.47 in	<b>Female Connector</b> 1 x AWG 18 "sol." per pole 600 V 6 A 9-11 mm/0.39 in	<b>Male Connector</b> 2 x AWG 18-12 "sol." per pole 2 x AWG 16-12 ≤19 "str." per pole 600 V 20 A Current capacity at max conductor size  11-13 mm/0.47 in	<b>Female Connector</b> 1 x AWG 18 "sol." per pole 600 V 6 A 9-11 mm/0.39 in
--	--	--	--	--	--



Fits through 1/2 in knockout

Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Pushwire connectors for luminaire disconnect, 2-pole connectors		Pushwire connectors for luminaire disconnect, 3-pole connectors, for switching and dimming applications		Pushwire connectors for luminaire disconnect, 3-pole connectors, with "make first/break last" ground circuit	
<b>873-902</b>		<b>873-903</b>		<b>873-953</b>	
873-902/K194-4045	25 pc/box	873-903/K194-4045	20 pc/box	873-953/VE00-0500	500 pc/bag
873-902/PW05-200	200 pc/jar	873-903/PW05-100	100 pc/jar		
873-902/VE00-0500	500 pc/bag	873-903/VE00-0500	500 pc/bag		
873-902/VE00-5000	5,000 pc/bag				

## Packaging Options



Box

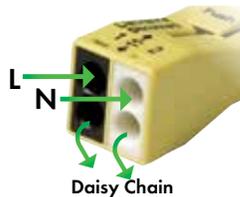


Jar

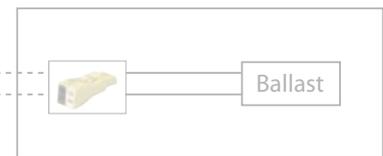
## Optimal Installation

Exclusive dual port design *eliminates* the need for additional splicing connectors when wiring multiple luminaires, *minimizing component costs and labor.*

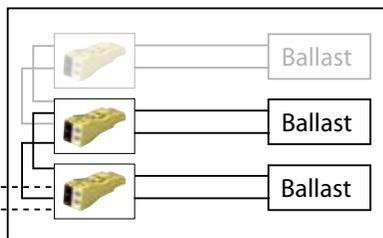
Daisy chain to...



...Multiple Fixtures

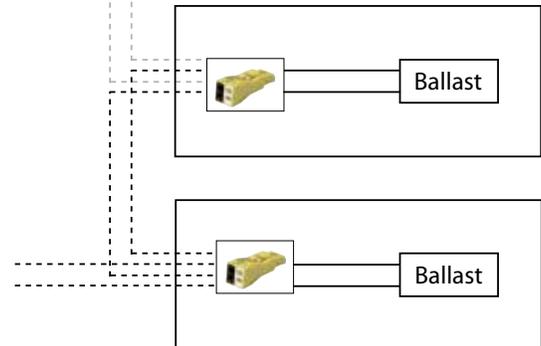


...Multiple Ballasts



-----  
Field Wiring

-----  
Factory Wiring



## Additional Specifications

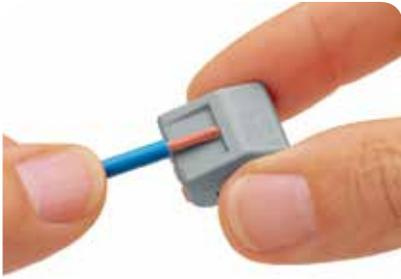
Meets: 2008 NEC 410.130(G) and CEC 30-308(4) for non-residential fluorescent luminaires  
 UL2459 listed insulated multi-pole splicing connector (luminaire disconnect)  
 CSA 22.2 No. 2459 certified insulated multi-pole splicing connector (luminaire disconnect)  
 EN/IEC 60998 and EN/IEC 61984 certified connector  
 Max operating temperature: 105°C  
 Flammability rating: UL94V-0



Listed

Luminaire Disconnect  
3NLY

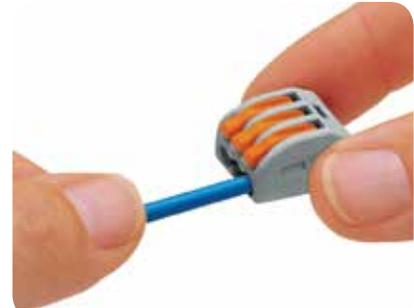
# Compact Splicing Connectors, 222 Series LEVER-NUTS®



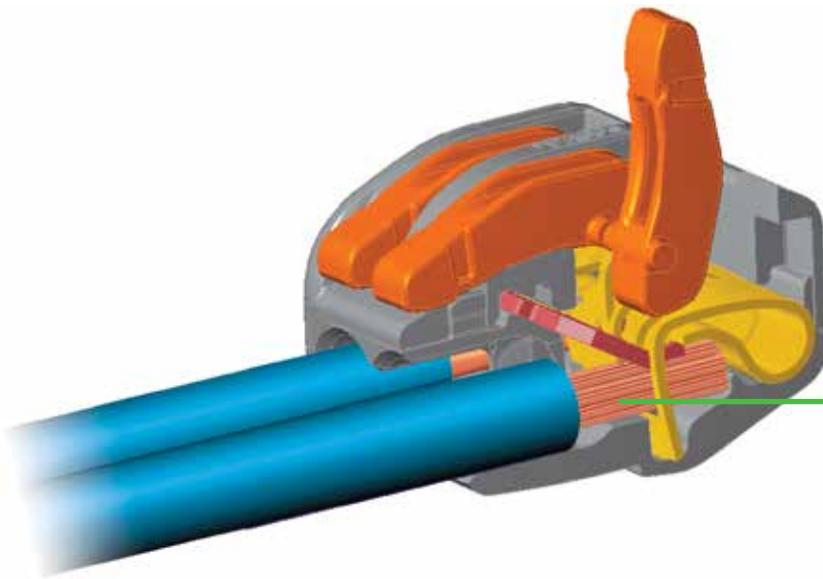
1) Strip Wire



2) Push up lever



3) Insert conductor and push down lever



These CAGE CLAMP® connectors clamp the following copper conductors:



solid



stranded



fine stranded



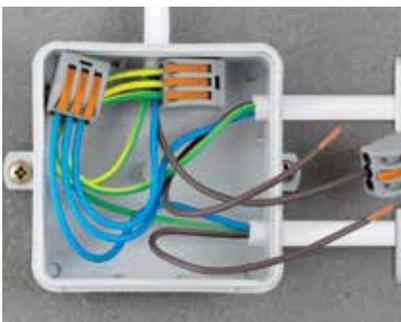
fine stranded,  
tip bonded



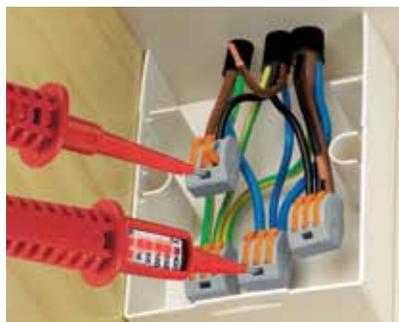
fine stranded with  
crimp ferrule



fine stranded with  
crimped pin terminal



Wiring of flexible conductors  
in a junction box



Integrated test port allows for easy testing of  
connection integrity

# Compact Splicing Connectors, 222 Series LEVER-NUTS®



Approvals: UL, ENEC, PSE, ABS

Also approved for grounding and bonding

**Cross section:** 28 – 12 AWG  
(solid, stranded and flexible)

**Electrical specs:** 600 V (1000 V signs and fixtures)  
20 A maximum \* Based on 2008 NEC current rating of max conductor size

**Strip length:**  9 - 10 mm / 0.37 in

**Maximum operating temperature:** 105° C

For all connections requiring...

- Stranded / solid wires
- Wide range of wire sizes
- Combination of different wire sizes and types in one connector
- Small space consumption
- Built-in test point
- Protection against electrical shock, touch safe
- Low installed cost and safe operation
- Maintenance-free connection
- A reusable connector

2-conductor connector



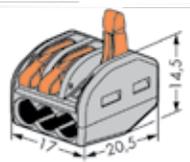
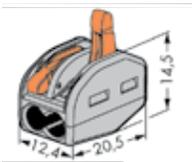
3-conductor connector



5-conductor connector



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
222-412		222-413		222-415	
222-412/K194-4045	50 pc box (1=50)	222-413/K194-4045	50 pc box (1=50)	222-415/K194-4045	40 pc box (1=40)
222-412/PW05-0005	5 pc blister pack	222-413/PW05-0005	5 pc blister pack	222-415/PW05-0005	5 pc blister pack
222-412/PW05-350	350 pc jar	222-413/PW05-250	250 pc jar	222-415/PW05-150	150 pc jar
222-412/VE00-2500	2,500 pc bulk bag	222-413/VE00-2500	2,500 pc bulk bag	222-415/VE00-1000	1,000 pc bulk bag



Accessories	Item No.	Pack.-unit pcs
Wire cutting and stripping tool (34-8 AWG)	206-124	1
Operating tool for Series 222	210-101	1

## Packaging Options



Box



Blister Pack



Jar



Operating tool



Wire cutting and stripping tool

# 222 Series Mounting Carrier for LEVER-NUTS®

<b>Mounting carrier for 222 Series compact connectors</b>  <b>Accommodates:</b> 2 x 222-415      1 x 222-415 + 1 x 222-413 3 x 222-413      1 x 222-415 + 2 x 222-412 4 x 222-412      3 x 222-412 + 1 x 222-413	<b>Strain relief plate for 222-500 mounting carrier</b>	<b>Universal right angled adapter for 222-500 mounting carrier</b> 773-332 mounting carrier 273-150 mounting carrier
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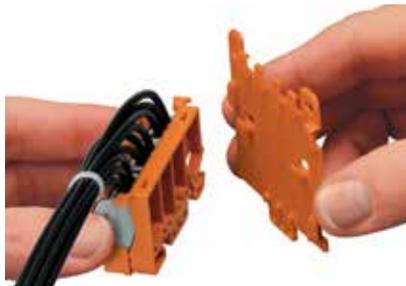


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Mounting carrier, orange, for 2-, 3- or 5-conductor compact connectors		Strain relief plate, orange, for snap-on fixing to 222-500 mounting carrier		Universal right angled adapter, gray, in combination with mounting carriers for DIN 35 rail mounting	
<b>222-500</b>	50 (5x10)	<b>222-505</b>	50 (5x10)	<b>222-510</b>	50 (5x10)
Self-adhesive marker strips, plain					
<b>210-334</b>	1 card				

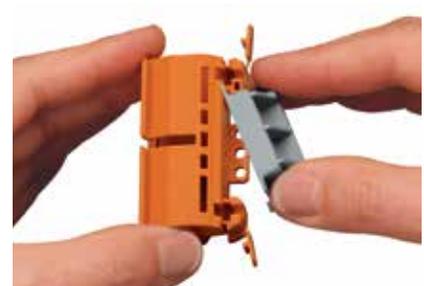
## Assembly



Snapping of lateral connector safety lock



Mounting of strain relief plate to the mounting carrier



Snapping the universal right angled adapter on the mounting carrier

## Mounting



Horizontal mounting with strain relief plate on DIN 35 rail using universal right angled adapter



Strain relief by cable tie on the carrier, transverse to the connectors wiring direction. Molded marking of clamping units.



Horizontal mounting with strain relief plate on level surfaces. Testing connectors via test slots in the carrier.

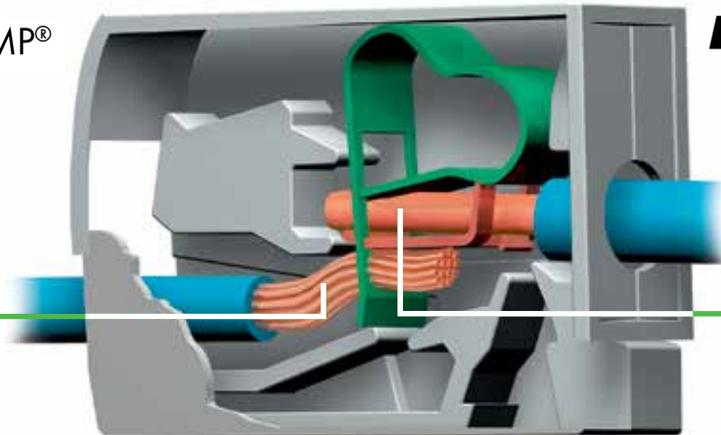
# Lighting & "Service" Connectors, Series 224

Fixture Side

**CAGE CLAMP®**

Power Input Side

**PUSH WIRE®**



These PUSHWIRE® connectors clamp the following copper conductors:



solid



stranded



fine stranded



fine stranded, tip bonded



fine stranded with crimped ferrule



fine stranded with crimped pin terminal



solid

Fixture Side

**CAGE CLAMP®**



Connection of conductors (lighting side): Press button fully and insert stripped conductor into square entry and release



To remove: Press button and withdraw conductor

Power Input Side

**PUSH WIRE®**



Connection of conductors (installation side): Introduce stripped solid conductor into circular entry and push to stop



Removal: Hold wire to be removed and twist alternating left and right while pulling the conductor

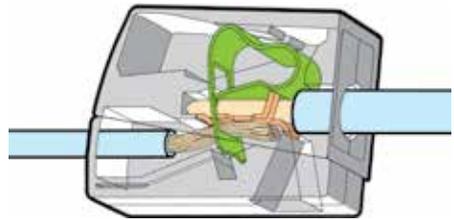
- The perfect in-line connector for solid-to-stranded wire
- Also with double service connection
- Tool-free connection



Testing through separate test slot

# Lighting & "Service" Connectors, Series 224

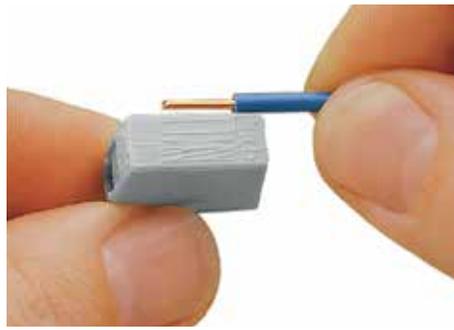
<b>Power input side</b> 1.0 - 2.5 mm <sup>2</sup> -"s" <b>Fixture side</b> 0.5 - 2.5 mm <sup>2</sup> -"s" + f-st" 400 V/4 kV/2** ; 24 A 9 - 11 mm / 0.39 in * VDE CE CCA N S D R G L B V	AWG 14 - 12 AWG 20 - 16 300 V	<b>Power input side</b> 2-x-1.0 - 2.5 mm <sup>2</sup> -"s" <b>Fixture side</b> 0.5 - 2.5 mm <sup>2</sup> -"s" + f-st" 400 V/4 kV/2** ; 24 A 9 - 11 mm / 0.39 in * VDE CE CCA N S D R G L B V	AWG 16 - 14 AWG 20 - 16 300 V
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Cutaway of lighting connector

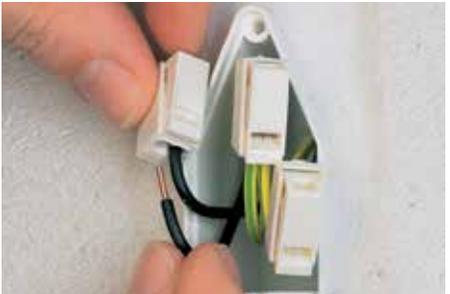
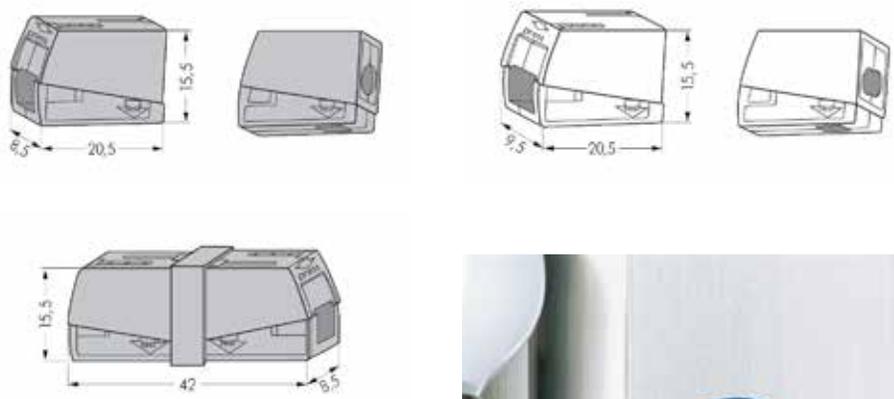
Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Lighting connectors, standard version, continuous service temperature 105°C, grey	<b>224-101</b> 1000 (10 x 100)	2-conductor lighting connectors, standard version, continuous service temperature 105°C, white	<b>224-112</b> 1000 (10 x 100)
version for increased continuous service temperature 120°C, black	<b>224-104</b> 100	version for increased continuous service temperature 120°C, black	<b>224-114</b> 100
"Service" connector, grey	<b>224-201</b> 50		

Stripped length



Strip conductor to 9 - 11 mm / 0.39 in

## Dimensions (in mm)

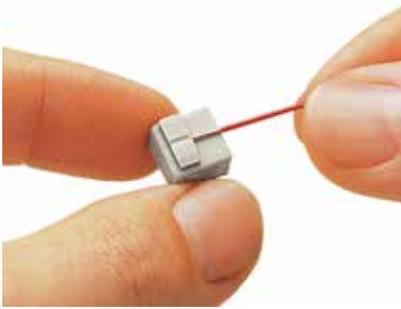


Testing

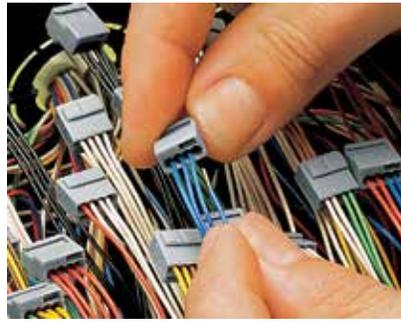


Testing through separate test slot

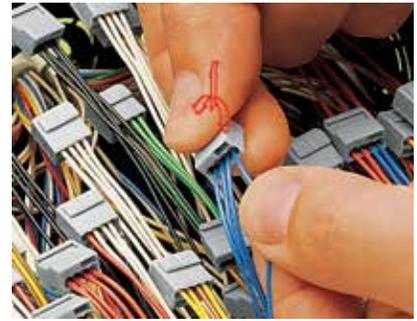
# MICRO PUSHWIRE® Connectors for Junction Boxes, Fixing Carrier Series 243



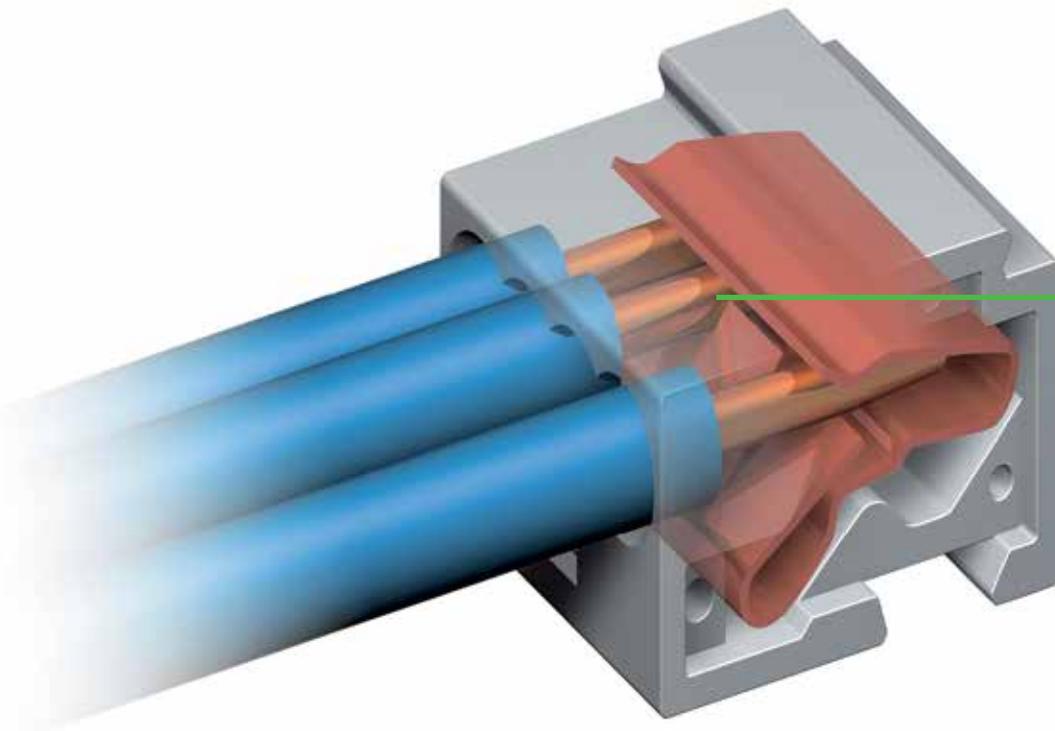
**Stripped Length**  
Strip solid wire to 5-6 mm/.22 in



**Connection**  
Insert stripped conductor FULLY



**Removal**  
Hold wire to be removed and twist alternating left and right while pulling the conductor



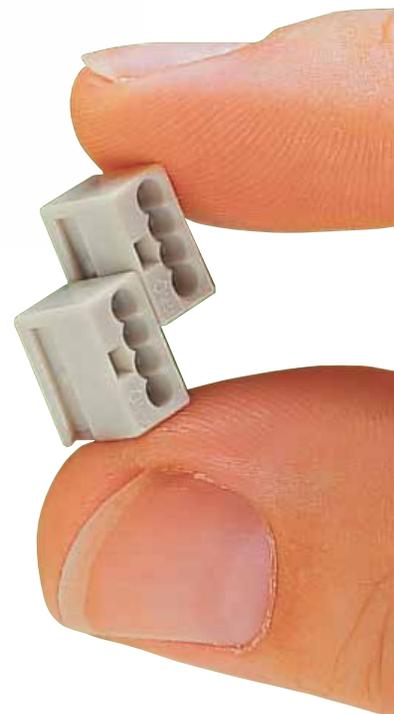
These PUSHWIRE® connectors clamp the following copper conductors:



solid



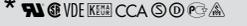
Testing

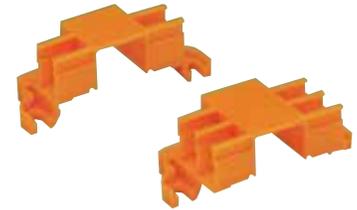


**Connector Blocks**  
Assembly of modular connectors to connector strips

# MICRO PUSHWIRE® Connectors for Junction Boxes, Fixing Carrier

## Series 243

<p>4x0.6 – 0.8 Ø mm "s" ** 4 x AWG 22 – 18 "sol." 100 V/ 1.5 kV/2 6 A</p> <p> 5 – 6 mm / 0.22 in</p> <p>* </p>	<p>8x0.6 – 0.8 Ø mm "s" ** 8 x AWG 22 – 18 "sol." 100 V/ 1.5 kV/2 6 A</p> <p> 5 – 6 mm / 0.22 in</p> <p>* </p>	<p>Fixing carrier for MICRO push-wire connectors</p>
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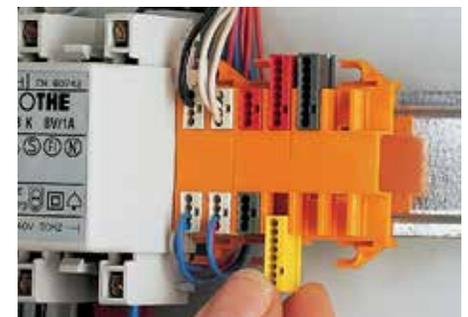


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	
MICRO pushwire connectors for junction boxes, 4-conductor connectors		MICRO pushwire connectors for junction boxes, 8-conductor connectors		Fixing carrier		
dark grey	243-204	1000 (10 x 100)	dark grey	243-208	500 (10 x 50)	
red	243-804	1000 (10 x 100)	red	243-808	500 (10 x 50)	
light grey	243-304	1000 (10 x 100)	light grey	243-308	500 (10 x 50)	
yellow	243-504	1000 (10 x 100)	yellow	243-508	500 (10 x 50)	
				Marker strip, plain	243-110	1

<p>4x 0.4 – 0.5 Ø mm "s" 4 x AWG 26 – 24 "sol." 100 V/ 1.5 kV/2 6 A</p> <p> 5 – 6 mm / 0.22 in</p> <p>* </p>
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Item No.	Pack.-unit pcs	
MICRO pushwire connector for junction boxes, 4-conductor connector		
transparent	243-144	1000 (10 x 100)

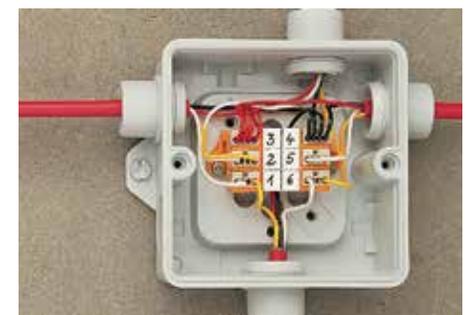
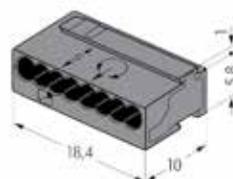
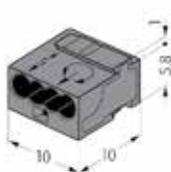


Inserting a MICRO PUSHWIRE® connector for junction boxes into the carrier



Example of doorbell application - mounted on DIN 35 rail

### Dimensions (in mm)

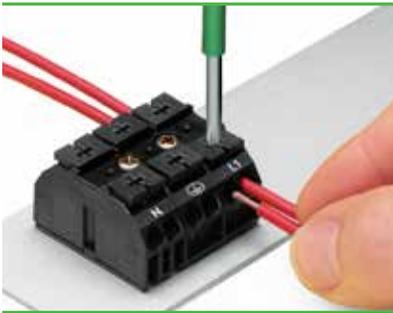


Typical application in a terminal box for burglar alarm - screw fixing

\* You can find approvals on the Internet at [www.wago.us](http://www.wago.us)  
 \*\*When using wires of the same diameter only, 0.5 Ø mm/AWG 24 or 1.0 Ø mm/AWG 18 are also possible

# Cost Effective Terminal Blocks for Chassis Mounting, Series 862

## Conductor Connection



- Four conductors per pole
- For solid and stranded conductors
- Mixed wiring with solid and stranded conductors of different cross sections

## Marking

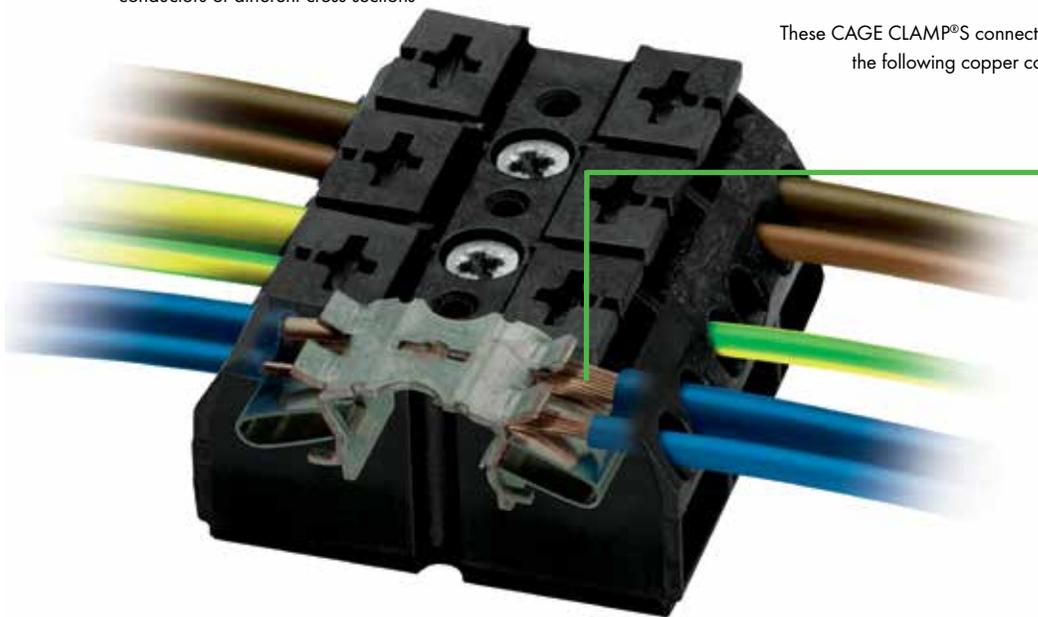


- Available pre-printed with single phase, 2 phase or 3 phase markings. Optional marker strip allows for marking via permanent marker or thermal printer (TP-343).

## Jumpering



- Commoning with jumper bar



These CAGE CLAMP<sup>®</sup>S connectors clamp the following copper conductors:



solid



stranded



fine stranded



fine stranded, tip bonded



fine stranded with crimped ferrule



fine stranded with crimped pin terminal

## Cost-Effective Features:

The 862 Series chassis-mount terminal blocks minimize wiring costs and simplify mounting, while offering multiple connection points, marking and handling.

- Connects up to four conductors (sizes 22 - 12 AWG). Due to multiple connection points/pole, different sizes can be used within same terminal block position.
- CAGE CLAMP<sup>®</sup>S termination technology: solid conductors, stranded conductors with ferrules or ultrasonically bonded conductors are simply connected by pushing conductor into the contact.
- Integrated push button, with molded-in slots, accommodates fast and easy wiring of all conductor types – by hand or slotted tip/Phillips screwdriver.
- Convenient automatic grounding contact available.
- Snap-in mounting feet for fast assembly.
- Flexible marking options: standard marking (pre-marked), marker strip or custom marked for large quantity orders.
- Built-in test points simplify testing with 2mm/0.079 in. diameter test plug.

## TP-343 printer for marking strip

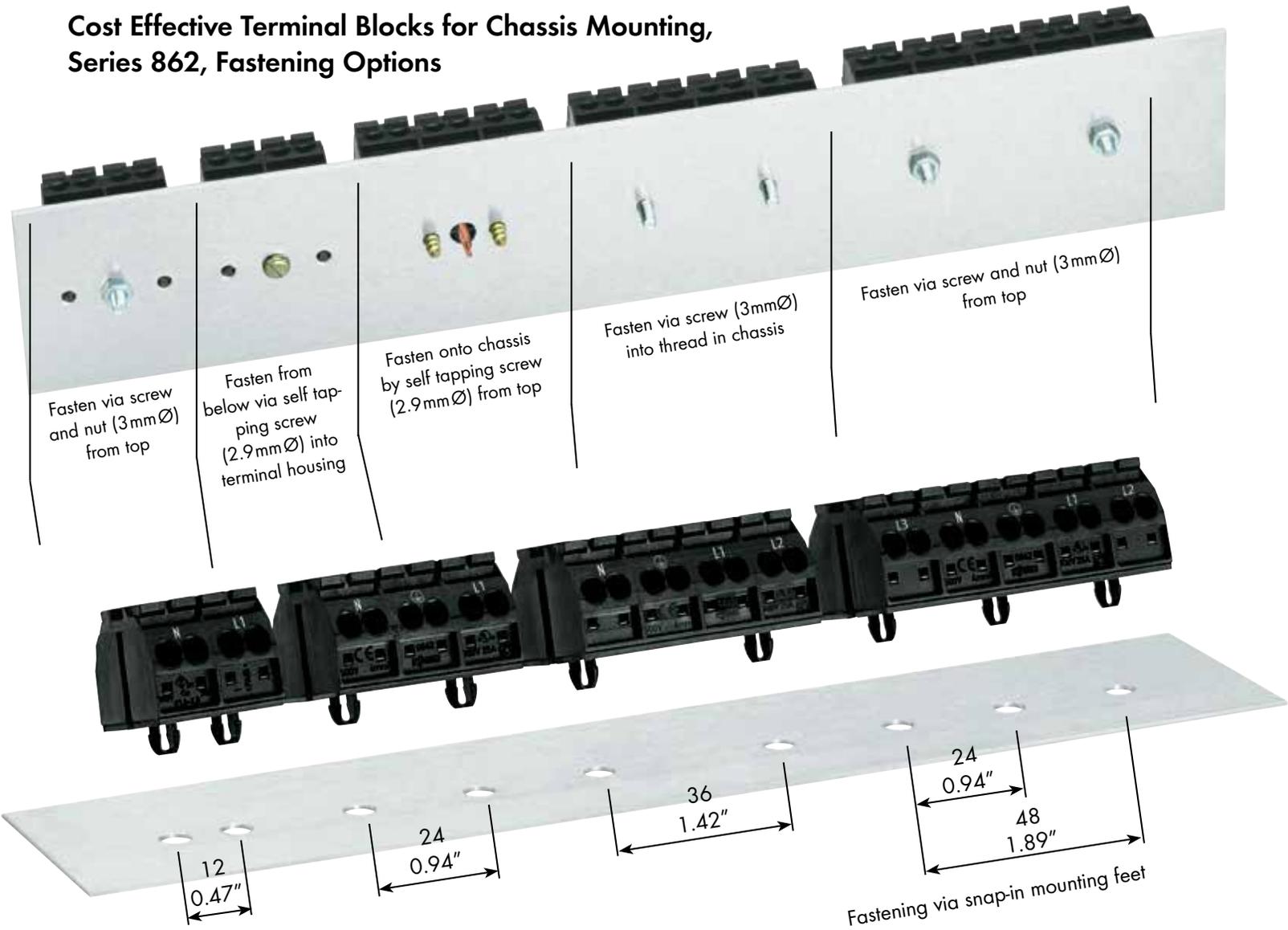


## Ground (earth) contact

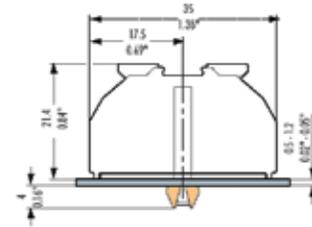
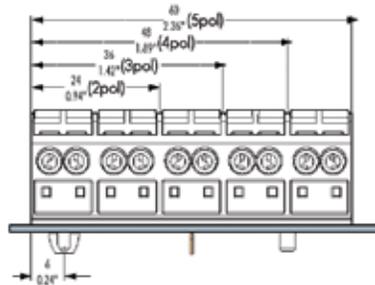
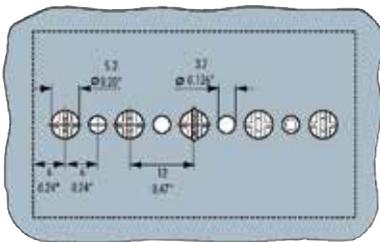


- Makes an automatic contact to the mounting plate
- Varnish coating is penetrated automatically

# Cost Effective Terminal Blocks for Chassis Mounting, Series 862, Fastening Options



## Dimensions (mm)



## Mounting Foot



Item No.	Pack.-unit pcs
Mounting foot for DIN Rail mounting,	
209-120	25

## Testing



Testing with test plug 2 mm Ø

# Terminal Blocks for Chassis Mounting, Series 862

	<p>4 x 0.5 – 4 mm<sup>2</sup> 500 V/6 kV/2 32 A</p> <p> 10 – 11 mm / 0.41 in</p>	<p>4 x AWG 22 - 12  4 x AWG 20 -12  300 V, 20 A 600 V, 5 A 600 V, 20 A **</p>	<p>4 x 0.5 – 4 mm<sup>2</sup> 500 V/6 kV/2 32 A</p> <p> 10 – 11 mm / 0.41 in</p>	<p>4 x AWG 22 - 12  4 x AWG 20 -12  300 V, 20 A 600 V, 5 A 600 V, 20 A **</p>
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\*\*  with conditions of acceptability



Available in black and white



2 poles /8 connection points



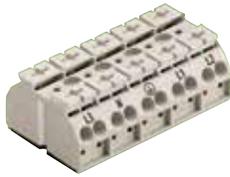
3 poles /12 connection points

without ground/ earth contact	with ground/ earth contact	Item No. black	Item No. white	Pack.-unit pcs	Item No. black	Item No. white	Pack.-unit pcs
for fastening screw 3 mm / 0.118 in Ø or							
for self tapping screw 2.9 mm / 0.114 in Ø from top							
without marking		<b>862-0552</b>	<b>862-0652</b>	500			
L1-N (pre-marked)		<b>862-1552</b>	<b>862-1652</b>	500			
N-L1 (pre-marked)		<b>862-2552</b>	<b>862-2652</b>	500			
for self tapping screw 2.9 mm / 0.114 mm Ø from below							
without marking		<b>862-0562</b>	<b>862-0662</b>	500			
L1-N (pre-marked)		<b>862-1562</b>	<b>862-1662</b>	500			
N-L1 (pre-marked)		<b>862-2562</b>	<b>862-2662</b>	500			
1 snap-in foot per pole							
without marking		<b>862-0532</b>	<b>862-0632</b>	500			
L1-N (pre-marked)		<b>862-1532</b>	<b>862-1632</b>	500			
N-L1 (pre-marked)		<b>862-2532</b>	<b>862-2632</b>	500			
for fastening screw 3 mm / 0.008 in Ø or							
for self tapping screw 2.9 mm / 0.114 in Ø from top							
without marking					<b>862-0503</b>	<b>862-0603</b>	250
PE-N-L1 (pre-marked)					<b>862-1503</b>	<b>862-1603</b>	250
N-PE-L1 (pre-marked)					<b>862-2503</b>	<b>862-2603</b>	250
(pre-marked) N-PE-L1					<b>862-8503</b>	<b>862-8603</b>	250
(pre-marked) PE-N-L1					<b>862-9503</b>	<b>862-9603</b>	250
1 snap-in foot per pole							
without marking					<b>862-0533</b>	<b>862-0633</b>	250
PE-N-L1 (pre-marked)					<b>862-1533</b>	<b>862-1633</b>	250
N-PE-L1 (pre-marked)					<b>862-2533</b>	<b>862-2633</b>	250
(pre-marked) N-PE-L1					<b>862-8533</b>	<b>862-8633</b>	250
(pre-marked) PE-N-L1					<b>862-9533</b>	<b>862-9633</b>	250
snap-in feet at pos. 1+3							
without marking					<b>862-0593</b>	<b>862-0693</b>	250
PE-N-L1 (pre-marked)					<b>862-1593</b>	<b>862-1693</b>	250
N-PE-L1 (pre-marked)					<b>862-2593</b>	<b>862-2693</b>	250
(pre-marked) N-PE-L1					<b>862-8593</b>	<b>862-8693</b>	250
(pre-marked) PE-N-L1					<b>862-9593</b>	<b>862-9693</b>	250
<b>Accessories</b>							
Comb-type jumper bar, can easily be inserted into the		Test plug, with cable 500 mm / 1'7.7"			Test plug, with cable 500 mm / 1'7.7"		
	wire entry, 32 A			2 mm / 0.079 in Ø, red			2.3 mm / 0.091 in Ø, yellow
	<b>862-482</b> 5			<b>210-136</b> 1			<b>210-137</b> 50 (5 x 10)
Screwdriver, with partially insulated shaft		Marker strip, white, plain for central marking;			Marker strip, translucent, plain for central marking;		
	(3.5 x 0.5) mm (.14 x .0025) in			7.5 mm wide, on roll, 50 m long			7.5 mm wide, on roll, 50 m long
	<b>210-720</b> 1			<b>709-178</b> 1			<b>709-177</b> 1

# Terminal Blocks for Chassis Mounting, Series 862

4 x 0.5 – 4 mm <sup>2</sup> 500 V/6 kV/2 32 A	4 x AWG 22 - 12  4 x AWG 20 - 12  300 V, 20 A 600 V, 5 A 600 V, 20 A**	4 x 0.5 – 4 mm <sup>2</sup> 500 V/6 kV/2 32 A	4 x AWG 22 - 12  4 x AWG 20 - 12  300 V, 20 A 600 V, 5 A 600 V, 20 A**
 10 - 11 mm / 0.41 in		 10 - 11 mm / 0.41 in	

\*\*  with conditions of acceptability



Available in black and white

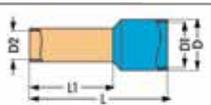
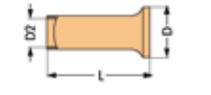


4 poles /16 connection points



5 poles /20 connection points

without ground/ earth contact	with ground/ earth contact	Item No. black	Item No. white	Pack.-unit pcs	Item No. black	Item No. white	Pack.-unit pcs
for fastening screw 3 mm Ø or							
for self tapping screw 2.9 mm Ø from top							
without marking		862-0504	862-0604	200			
	PE-N-L1-L2 (pre-marked)	862-1504	862-1604	200			
	N-PE-L1-L2 (pre-marked)	862-2504	862-2604	200			
	(pre-marked) N-PE-L1-L2	862-8504	862-8604	200			
	(pre-marked) PE-N-L1-L2	862-9504	862-9604	200			
1 snap-in foot per pole							
without marking		862-0534	862-0634	200			
	PE-N-L1-L2 (pre-marked)	862-1534	862-1634	200			
	N-PE-L1-L2 (pre-marked)	862-2534	862-2634	200			
	(pre-marked) N-PE-L1-L2	862-8534	862-8634	200			
	(pre-marked) PE-N-L1-L2	862-9534	862-9634	200			
snap-in feet at pos. 1+4							
without marking		862-0594	862-0694	200			
	PE-N-L1-L2 (pre-marked)	862-1594	862-1694	200			
	N-PE-L1-L2 (pre-marked)	862-2594	862-2694	200			
	(pre-marked) N-PE-L1-L2	862-8594	862-8694	200			
	(pre-marked) PE-N-L1-L2	862-9594	862-9694	200			
for fastening screw 3 mm Ø or							
for self tapping screw 2.9 mm Ø from top							
without marking					862-0505	862-0605	200
	PE-N-L1-L2-L3 (pre-marked)				862-1505	862-1605	200
	L3-N-PE-L1-L2 (pre-marked)				862-2505	862-2605	200
	(pre-marked) L3-N-PE-L1-L2				862-8505	862-8605	200
	(pre-marked) PE-N-L1-L2-L3				862-9505	862-9605	200
1 snap-in feet at pos. 2+4							
without marking					862-0525	862-0625	200
	PE-N-L1-L2-L3 (pre-marked)				862-1525	862-1625	200
	L3-N-PE-L1-L2 (pre-marked)				862-2525	862-2625	200
	(pre-marked) L3-N-PE-L1-L2				862-8525	862-8625	200
	(pre-marked) PE-N-L1-L2-L3				862-9525	862-9625	200
snap-in feet at pos. 1+3+5							
without marking					862-0515	862-0615	200
	PE-N-L1-L2-L3 (pre-marked)				862-1515	862-1615	200
	L3-N-PE-L1-L2 (pre-marked)				862-2515	862-2615	200
	(pre-marked) L3-N-PE-L1-L2				862-8515	862-8615	200
	(pre-marked) PE-N-L1-L2-L3				862-9515	862-9615	200

Ferrules		Sleeve for mm <sup>2</sup>	AWG	Color	Stripped length mm	L	L1	D mm	D	D2	Item No.	Pack.-unit pcs
	Insulated ferrules	0.5	22	white	12.0	16.0	10.0	3.1	2.6	1.0	216-241	1000
		0.75	20	grey	12.0	16.0	10.0	3.3	2.8	1.2	216-242	1000
		1.0	18	red	12.0	16.0	10.0	3.5	3.0	1.4	216-243	1000
		1.5	16	black	12.0	16.0	10.0	4.0	3.5	1.7	216-244	1000
	Uninsulated ferrules	0.5	22		10	10		2.1		1.0	216-141	1000
		0.75	20		10	10		2.3		1.2	216-142	1000
		1.0	18		10	10		2.5		1.4	216-143	1000
		1.5	16		10	10		2.8		1.7	216-144	1000

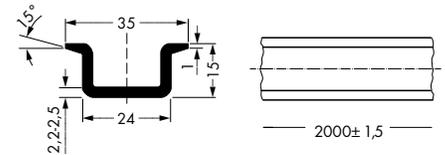
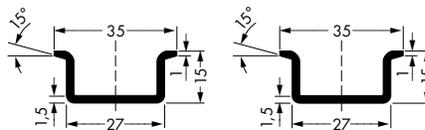
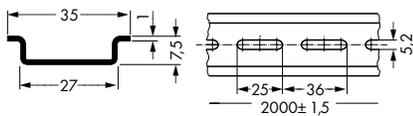
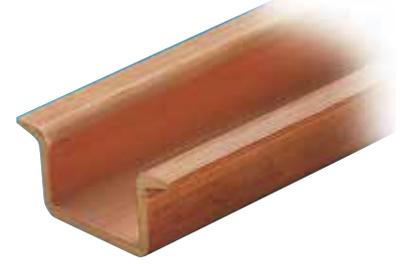
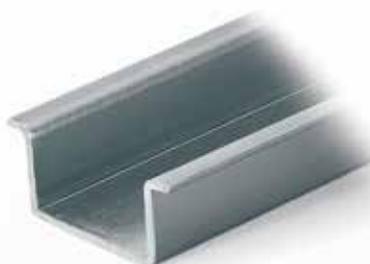
Tools					
	Crimp Tool		Stripper / Cutter		Thermal Transfer Printer TP-343
	206-204		206-124		258-343/PW05-0100
	0.25 - 4 mm <sup>2</sup>		0.02 - 10 mm <sup>2</sup>		
	AWG 24 - 12		AWG 34 - 8		

# Carrier Rails, Series 210

Carrier rail 35 x 7.5 mm,  
1-mm/0.039 in thick,  
acc. to EN 60715,  
Steel, zinc-plated and yellow chromated  
I<sub>N</sub> 76 A (referred to a length of 1 m)

Carrier rail 35 x 15 mm,  
1.5 mm/0.059 in and 2.3 mm/0.091 in thick,  
acc. to EN 60715,  
Steel, zinc-plated and yellow chromated  
I<sub>N</sub> 125 A (referred to a length of 1 m)

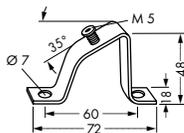
Carrier rail 35 x 15 mm,  
2.3 mm/0.091 in thick,  
acc. to EN 60715,  
Copper, unplated  
I<sub>N</sub> 309 A (referred to a length of 1 m)



Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Steel rail 35 x 7.5 mm, 1 mm/0.039 in th., unslotted 2 m/6'6" long	<b>210-113</b> 10	Steel rail 35 x 15 mm, 2 m/6'6" long 1.5 mm thick	<b>210-114</b> unslotted 10	Copper carrier rail 35 x 15 mm, 2.3 mm/0.091 in thick, unslotted 2 m/6'6" long	<b>210-198</b> 10
Steel rail 35 x 7.5 mm, 1 mm/0.039 in th., slotted 2 m/6'6" long	<b>210-112</b> 10	1.5 mm thick	<b>210-197</b> slotted 10		
		2.3 mm thick	<b>210-118</b> unslotted 10		

**Angled support bracket**  
Steel, zinc-plated and yellow chromated

**End Stop**

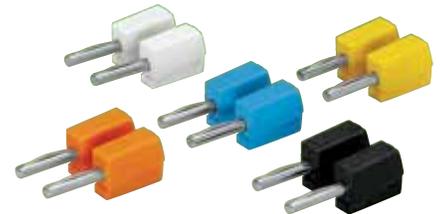
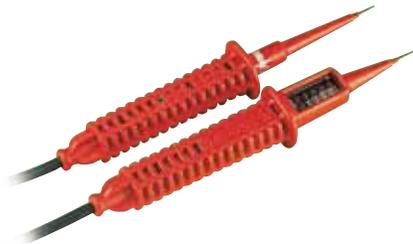


Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Angled support bracket, without screw	<b>210-148</b> 10	6 mm wide	<b>249-116</b> 100
Screw M 5 x 8	<b>210-149</b> 100 (5 x 20)	10 mm wide	<b>249-117</b> 100



# Voltage Tester, Testboy and Banana Plugs, Series 206, Series 215

<p>Voltage tester Profipol 12 V to 400 V AC 12 V to 500 V DC</p> <p>Weight 138 g / 0.304 lbs</p>	<p>Testboy</p>	<p>Banana plugs for sockets Ø 4 mm 0.08 – 2.5 mm<sup>2</sup>   AWG 28 – 14 42 V 20 A L 9 – 11 mm / 0.39 in</p>
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Voltage tester Profipol		Testboy, with integrated flashlight		Banana plugs, for sockets Ø 4 mm	
<b>206-802</b>	1	<b>206-804</b>	1	color mixed	<b>215-111</b> 50
				orange, blue, yellow, white, black	
Voltage range	AC 12V to 400V DC 12V to 500V	Voltage range 120V up to AC 1000V		Banana plugs, for sockets Ø 4 mm	
LED indication AC	12V, 50V, 100V, 230V, 400V			orange	<b>215-211</b> 50
DC	12V, 60V, 120V, 280V, 500V			red	<b>215-212</b> 50
Type of protection	IP 65			black	<b>215-311</b> 50
Operating time	30 s max.			green	<b>215-411</b> 50
Temperature range	-10° up to + 50° C			yellow	<b>215-511</b> 50
				blue	<b>215-711</b> 50
				grey	<b>215-811</b> 50
				green-yellow	<b>215-911</b> 50

## Application notes



Voltage testing of pushwire connectors

- LED band provides clear voltage range readings (white scale = AC voltage red scale = DC voltage)
- LED indication of polarity
- Double-pole voltage testing
- Type of protection IP 65
- Switching is not necessary
- 85 cm long highly flexible and nonskid test cable



A device that will reliably detect AC voltages in cables, sockets, fuses, switches, connector boxes, etc.

The following can be detected by the WAGO Testboy:

- Live conductors
- Line breaks
- Blown fuses
- Defective switches
- Defective lamps



Connection of conductors:  
Press button fully and insert stripped conductor into square entry and release

# Wire Cutter and Stripping Tools, Series 206

<p>Wire cutter acc. to VDE for copper and aluminum wires up to 35 mm<sup>2</sup>/2 AWG</p> <p>Weight 200 g / 0.441 lbs</p>	<p>Quickstrip 10 wire stripper 0.02 mm<sup>2</sup> – 10 mm<sup>2</sup> "f-st" (6 mm<sup>2</sup> "s") wire cutter up to 10 mm<sup>2</sup> "f-st" (1.5 mm<sup>2</sup> "s") 34 - 8 AWG Weight 136 g / 0.297 lbs</p>	<p>Quickstrip 16 wire stripper 4 mm<sup>2</sup> – 16 mm<sup>2</sup> wire cutter up to 10 mm<sup>2</sup> "f-st" (1.5 mm<sup>2</sup> "s") 12 - 6 AWG Weight 136 g / 0.297 lbs</p>
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Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs	Item No.	Pack.-unit pcs
Wire cutter		Stripping tool Quickstrip 10		Stripping tool Quickstrip 16	
206-118	1	206-124	1	206-125	1

## Accessories, Series 206

Standard blade cassette	Standard blade cassette
 <p>0.02 mm<sup>2</sup> up to 10 mm<sup>2</sup></p> <p>206-126 1</p>	 <p>4 mm<sup>2</sup> up to 16 mm<sup>2</sup></p> <p>206-128 1</p>
"V" blade cassette	
 <p>0.02 mm<sup>2</sup> up to 4 mm<sup>2</sup> for PTFE</p> <p>206-127 1</p>	

## Application notes



Cutting of wire



Quickstrip 16: Stripping of wire



Quickstrip 16 Cutting of wire

- Automatic adjustment to wire size
- No damage to wire strands
- Gripping pressure of jaws adjusts automatically to wire insulation diameter
- Full cycle strip – jaws open after stripping, ensures no nicked strands
- Exact strip length may be set by sliding of black setting stop
- Replaceable stripping jaw assembly
- Self-sharpening, fully protected wire cutter
- Glass fiber reinforced polyamide tool body

# Crimping Tool Variocrimp 4, Variocrimp 16, Ferrules, Series 206, Series 216

<p>Crimping tools for ferrules insulated or uninsulated</p> <p>Variocrimp 4 from 0.25 mm<sup>2</sup> – 4 mm<sup>2</sup></p> <p>Weight 400 g / 0.882 lbs</p> <p>Variocrimp 16 from 6 mm<sup>2</sup> – 16 mm<sup>2</sup></p> <p>Weight 580 g / 1.28 lbs</p>	<p>Insulated ferrules</p>
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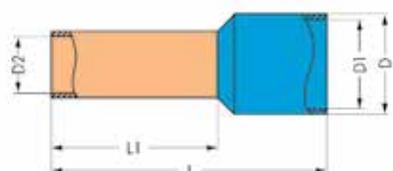
Item No.	Pack.-unit pcs	Sleeve for mm <sup>2</sup> AWG	Color	Stripped length mm	L	L1	D mm	D1	D2	Item No.	Pack.-unit pcs
Variocrimp 4 206-204 0.25 mm <sup>2</sup> - 4 mm <sup>2</sup> / AWG 24 - 12	1	0.25 24	yellow	7.5	10.5	6.0	2.5	2.0	0.8	216-321	1000
		0.25 24	yellow	9.5	12.5	8.0	2.5	2.0	0.8	216-301	1000
		0.35 24	green	7.5	10.5	6.0	2.5	2.0	0.8	216-322	1000
		0.34 24	green	9.5	12.5	8.0	2.5	2.0	0.8	216-302	1000
Variocrimp 16 206-216 6 mm <sup>2</sup> - 16 mm <sup>2</sup> / AWG 10 - 6	1	0.5 22	white	7.5	11.5	6.0	3.0	2.5	1.1	216-221	1000
		0.5 22	white	9.5	13.5	8.0	3.0	2.5	1.1	216-201	1000
		0.75 20	grey	8.0	12.0	6.0	3.3	2.8	1.3	216-222	1000
		0.75 20	grey	10.0	14.0	8.0	3.3	2.8	1.3	216-202	1000
		1.0 18	red	8.0	12.0	6.0	3.6	3.0	1.5	216-223	1000
		1.0 18	red	10.0	14.0	8.0	3.6	3.0	1.5	216-203	1000
		1.5 16	black	8.0	12.0	6.0	4.0	3.4	1.8	216-224	1000
		1.5 16	black	10.0	14.0	8.0	4.0	3.4	1.8	216-204	1000
		2.08 14	yellow	10.0	14.5	8.0	4.2	3.6	2.05	216-205	1000
		2.5 14	blue	10.0	15.0	8.0	4.8	4.2	2.3	216-206	1000
		4.0 12	grey	12.0	16.8	9.5	5.4	4.8	2.9	216-207	1000
		6.0 10	yellow	14.0	20.0	12.0	6.8	6.2	3.5	216-208	100
10.0 8	red	16.0	21.0	12.0	8.1	7.5	4.6	216-209	100		
16.0 6	blue	23.0	29.0	18.0	9.6	8.8	5.8	216-210	100		
<b>Application notes</b>											
<b>Insulated ferrules, extra long, for TOBJOB®S and 862 Series terminal blocks</b>											
0.5 22	white	12.0	16.0	10.0	3.1	2.6	1.0	216-241	1000		
0.75 20	grey	12.0	16.0	10.0	3.3	2.8	1.2	216-242	1000		
0.75 20	grey	14.0	18.0	12.0	3.3	2.8	1.2	216-262	1000		
1.0 18	red	12.0	16.0	10.0	3.5	3.0	1.4	216-243	1000		
1.0 18	red	14.0	18.0	12.0	3.5	3.0	1.4	216-263	1000		
1.5 16	black	12.0	16.0	10.0	4.0	3.5	1.7	216-244	1000		
1.5 16	black	14.0	18.0	12.0	4.0	3.5	1.7	216-264	1000		
1.5 16	black	20.0	24.0	18.0	4.0	3.5	1.7	216-284	1000		
2.5 14	blue	12.0	17.0	10.0	4.7	4.2	2.2	216-246	1000		
2.5 14	blue	14.0	19.0	12.0	4.7	4.2	2.2	216-266	1000		
2.5 14	blue	20.0	25.0	18.0	4.7	4.2	2.2	216-286	1000		
4.0 12	grey	14.0	20.0	12.0	5.4	4.8	2.8	216-267	500		
4.0 12	grey	20.0	26.0	18.0	5.4	4.8	2.8	216-287	500		
6.0 10	yellow	14.0	20.0	12.0	6.9	6.3	3.5	216-208	500		
6.0 10	yellow	20.0	26.0	18.0	6.9	6.3	3.5	216-288	500		
10.0 8	red	20.0	28.0	18.0	8.4	7.6	4.5	216-289	500		
16.0 6	blue	23.0	28.0	18.0	9.6	8.8	5.8	216-210	500		



Introduce conductor with ferrule into crimping station. Squeeze handles until ratchet mechanism is released.

- With the Variocrimp 4, the built-in crimping pressure control automatically adjusts the crimping force to the conductor cross section used. With the Variocrimp 16 it is necessary to select the wire gauge on the tool before crimping.
- Each tool has only one crimping station for all wire sizes handled.
- Uniform compact crimping from all four sides for high conductor retention.
- No necessity to centralize the conductor into the terminal ferrule.
- Conductor and ferrule insertion possible from both sides (for left and right handers).
- Built-in ratchet to guarantee complete crimping every time.
- Tools open automatically after crimping operation is complete.
- Comfortable handles for operator.

Insulated ferrules



For letters with the corresponding dimensions see table above

Uninsulated ferrules see General Catalog W4, volume 1



# TTP-345 Thermal Transfer Printer



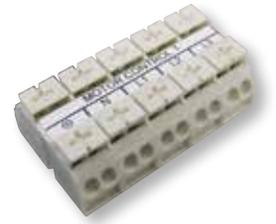
Thermal Transfer Printer

+



ProServe Software  
 • Unique multi-line marking

=



Marked 862 Series

Item No.	Item No.	Item No.
<b>Thermal Transfer Printer</b> 258-345/0000-0100	<b>Marker strips</b>	<b>Ink ribbon</b>
Print resolution 300 dpi	For series 862, 7.5 mm, white	38 mm 258-145 300 m
Print speed up to 76 mm/sec.	709-178 50 m	100 mm 258-157 300 m
Software: ProServe Software; smartMARKING		
Download at www.wago.us	For series 862, 7.5 mm, translucent	
<b>Consult Factory</b>	709-177 50 mm	

## Wire Marking with TTP-345



211-155; 211-156



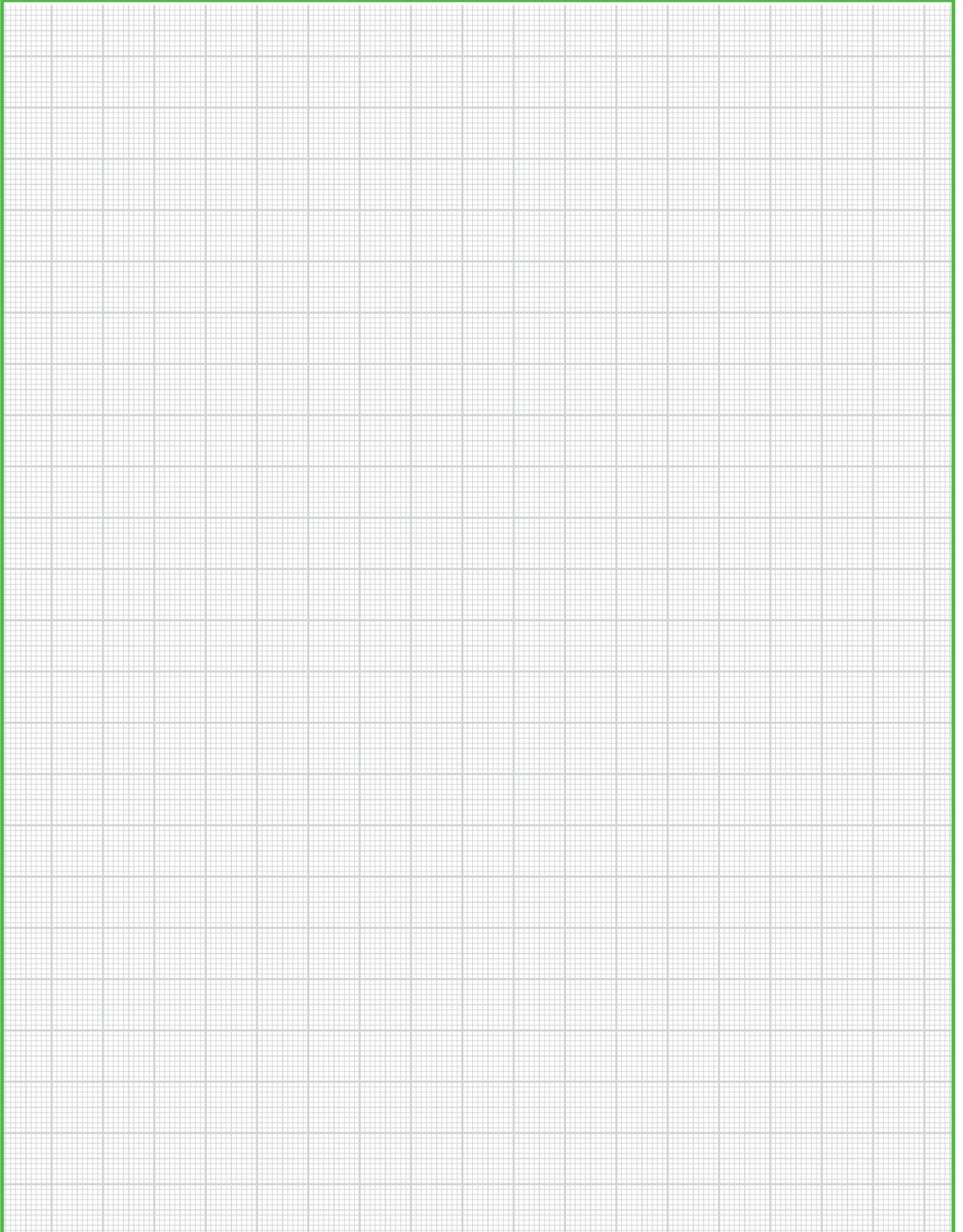
211-111...115; 211-121...125;  
 211-129 (shown)



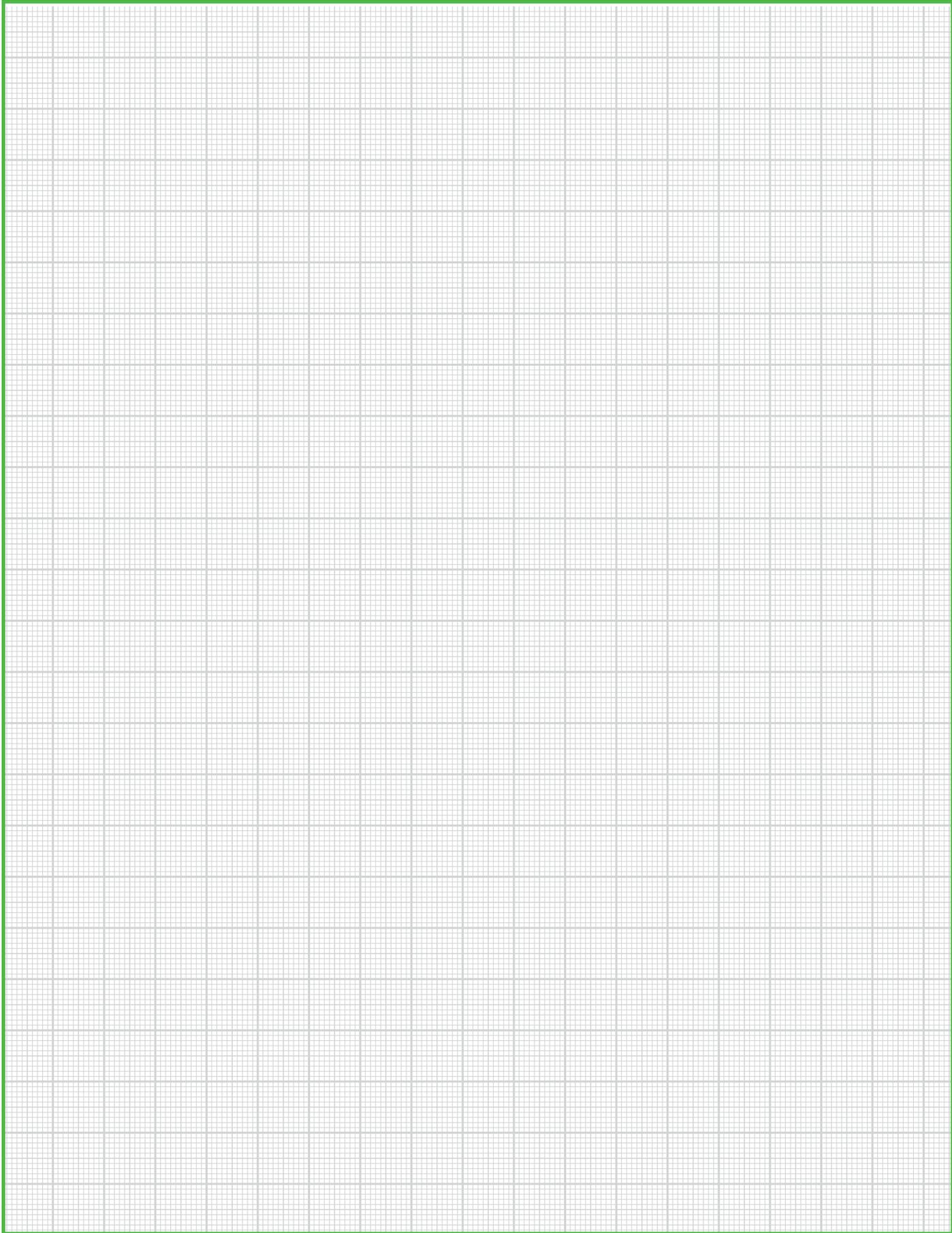
211-161; 211-162

Item No.	Item No.	Item No.
<b>Marker card for TT printer, 12 mm</b> 211-111	<b>Labels on roll for thermal transfer printers</b>	<b>3 to 1 pre-flattened polyolefin heat shrink tubing, 100 ft</b>
Slides into marking sleeves below	Marker surface "S" = 8 mm, "B" = 18 mm,	1/8" (18 - 24 AWG), diam. before/after shrinking .125/.039 in
For various wire sizes	"L" = 35 mm for cable diameter max. 9 mm	white 51223870
1.6-3.2 mm or 0.25 mm <sup>2</sup> -1.5 mm <sup>2</sup> 211-112	9000 labels per roll 211-155	yellow 51227742
2.2-4.5 mm or 0.5 mm <sup>2</sup> -4 mm <sup>2</sup> 211-113		
3.7-5.9 mm or 2.5 mm <sup>2</sup> -6 mm <sup>2</sup> 211-114	Marker surface "S" = 13 mm, "B" = 23 mm,	3/16" (12-18 AWG), diam. before/after shrinking .187/.059 in
4.8-7.5 mm or 6 mm <sup>2</sup> -16 mm <sup>2</sup> 211-115	"L" = 51 mm for cable diameter max. 12 mm	white 51223870
	5000 labels per roll 211-156	yellow 51227743
<b>Marker card for TT printer, 23 mm</b> 211-121	<b>Core marker for threading</b>	1/4" (6 - 10 AWG), diam. before/after shrinking .250/.083 in
Slides into marking sleeves below	on roll, 2,000 pcs,	white 51223870
For various wire sizes	white / 0.75 - 1.5 mm 211-161	yellow 51227744
1.6-3.2 mm or 0.25 mm <sup>2</sup> -1.5 mm <sup>2</sup> 211-122	on roll, 2,000 pcs,	
2.2-4.5 mm or 0.5 mm <sup>2</sup> -4 mm <sup>2</sup> 211-123	white / 2.5 - 6.0 mm 211-162	
3.7-5.9 mm or 2.5 mm <sup>2</sup> -6 mm <sup>2</sup> 211-124		
4.8-7.5 mm or 6 mm <sup>2</sup> -16 mm <sup>2</sup> 211-125		
<b>Marking sleeve for cable tie, 23 mm,</b>		
for single cores from 10 mm 211-129		
<b>Cable tie, (2.5 x 100) mm</b>		
807-0090/0101-0100		
		
211-121 with marking sleeve		

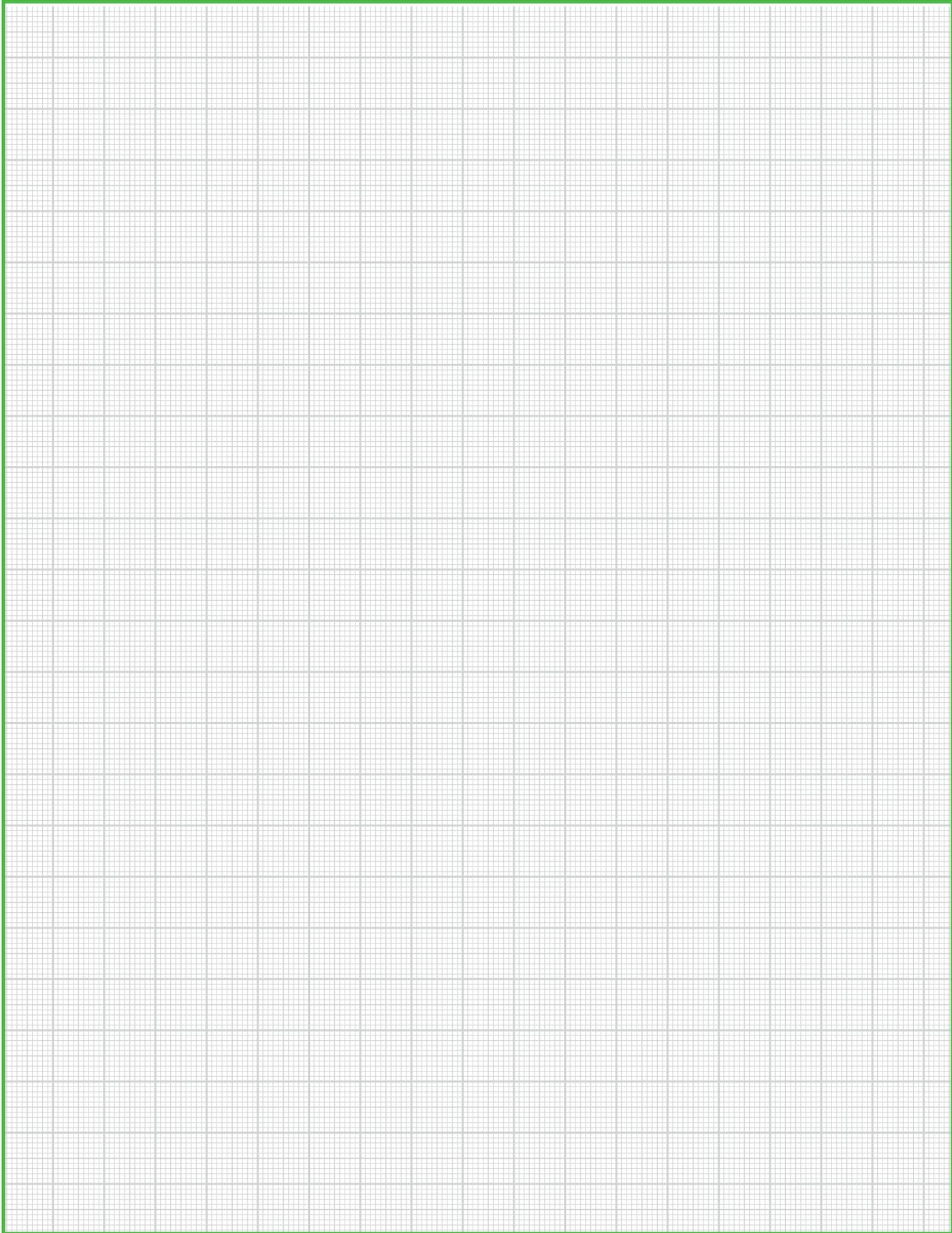
# Notes



Notes



Notes



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