

Electrical Contractor Products

Offering Better Alternatives

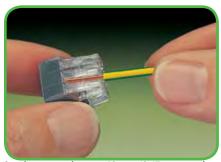


Contents

1	Push-Wire Connectors for Junction Boxes, Series 773 (Wall-nuts™)	1
2	Compact Connectors, Series 222 (Lever-nuts™)	2
3	Lighting, "Service", and MICRO Connectors, Series 224 & Series 243	3
4	Terminal Blocks for Chassis Mounting, Series 862	4
5	High Current Terminal Blocks, Series 285	5
6	DIN Rail Mount Outlet Boxes, CPO Series	6
7	Pluggable Relay Modules, Surge Protection Devices, Series 788 & WAGO PROTECT Series	7
8	Rail, Tools, & Accessories, Miscellaneous Series	8

Push-Wire Connectors for Junction Boxes, (re-use solid wire), Series 773 (Wall-nuts™)

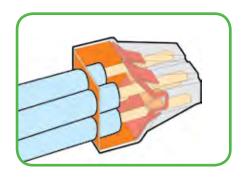
Fast, Easy, Reliable Connection:



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.



Push-wire connection



Wire removal
Solid - Pull & Twist; Remove wire
Stranded - Cut Wire; Discard connector
Restrip; Insert wire in new connector

Testing



Integrated test port allows for easy testing of connection integrity.

Packing unit



Connectors may be mounted on DIN Rail by using the WAGO fixing carrier.



Applications



Push-wire connectors used in a cable duct with double power outlet.

Push-Wire Connectors for Junction Boxes, (re-use solid wire), Series 773 (Wall-nuts™)

2 x 0.75 - 2.5 mm² "s" 2 x 1.5 - 2.5 mm² "r" 400 V/4 kV/2* 24 A 2 x AWG 18 – 12 "sol." 2 x AWG 16 – 12 "rig." 600 V, 20 A &® Max. op. temp. 105°C 4 x 0.75 - 2.5 mm² "s" 4 x 1.5 - 2.5 mm² "r" 400 V/4 kV/2* 24 A

4 x AWG 18 - 12 "sol." 6 4 x AWG 16 - 12 "rig." 6 6 600 V, 20 A & 40 Max. op. temp. 105°C 24

 $6 \times 0.75 - 2.5 \text{ mm}^2 \text{"s"}$ $6 \times 1.5 - 2.5 \text{ mm}^2 \text{"r"}$ $400 \text{ V}/4 \text{ kV}/2^*$ 24 A 6 x AWG 18 - 12 "sol." 6 x AWG 16 - 12 "rig." 600 V, 20 A && Max. op. temp. 105°C

* @

□□□ 12 mm / 0.47 in * **⑤**

*

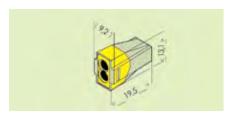
12 mm / 0.47 in * 6







ltem No.	Packunit pcs	Item No.	Packunit pcs	Item No.	Packunit pcs	
Push-wire connectors for junction l	ooxes,	Push-wire connectors for junction b	oxes,	Push-wire connectors for junction boxes,		
2-conductor connectors, color of housi	ng transparent,	4-conductor connectors, color of housi	ng transparent,	6-conductor connectors, color of housing	ng transparent,	
color of cover yellow		color of cover orange		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/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	







8 x 0.75 - 2.5 mm² "s" 8 x 1.5 - 2.5 mm² "r" 400 V/4 kV/2* 24 A 8 x AWG 18 - 12 "sol." 8 x AWG 16 - 12 "rig." 600 V, 20 A @@ Max. op. temp. 105°C 3 x 0.75 - 2.5 mm² "s" 3 x 1.5 - 2.5 mm² "r" 1 x 0.75 "sol.+rig." 400 V/4 kV/2* 24 A 3 x AWG 18 - 12 "sol." 3 x AWG 16 - 12 "rig." 1 x AWG 18 "sol.+rig." 600 V, 20 A &® Max. op. temp. 105°C 3 x 1.5 - 6 mm²"s+st"

400 V/4 kV/2*

32 A

t" 3 x AWG 14 -10"sol." +"str." 600 V, 20 A @® Max. op. temp. 105°C

12 mm / 0.47 in

12 mm / 0.47 in

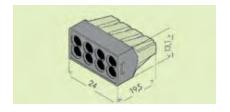
12 - 15 mm / 0.47 - 0.53 in



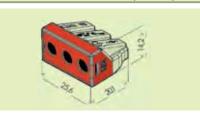




ltem No.	Packunit pcs	ltem No.	Pack,-unit pcs	ltem No.	Packunit pcs
Push-wire connectors for junction boxes,		Push-wire connectors for junction boxes,		Push-wire connectors for junction boxes,	
8-conductor connectors, color of housi	8-conductor connectors, color of housing transparent,		4-conductor connectors, filled with contact paste "Alu-Plus",		sing transparent,
color of cover dark grey		color of housing transparent, color of	cover light grey	color of cover red	
773-168	50 pc/box	773-124	100 pc/box	773-173	100 pc/box
773-108/VE00-2500	2500 pc/bag	773-124/VE01-0000	2500 pc/bag	773-173/VE00-0500	500 pc/bag
51013414	10 pc/blister pack			773-173/VE00-2500	2500 pc/bag
				51015201	5 pc/blister pack







Push-Wire Connectors for Junction Boxes, (re-use solid wire), Series 773 (Wall-nuts™)

2 x 0.75-2.5 mm² "s" 2 x 1.5-2.5 mm² "r" 400 V/4 kV/2* 24 A

* ® ® © CCA ® © CB GLBVRMR

2 x AWG 18-12 "sol." 2 x AWG 16-12 "rig." 600 V, 20 A ®

4 x 0.75 - 2.5 mm² "s" 4 x 1.5 - 2.5 mm² "r" 400 V/4 kV/2*

4 x AWG 16-12 "rig." 600 V, 20 A ® 600 V, 20 A ®

4 x AWG 18 - 12 "sol."

____ 12 mm / 0.47 in *®®®®©CCA®©CBGLBVRMR 6 x 0.75 - 2.5 mm² "s" 6 x 1.5 - 2.5 mm² "r" 400 V/4 kV/2*

6 x AWG 18 - 12 "sol." 6 x AWG 16 - 12 "rig." 600 V, 20 A ® 600 V, 20 A ®

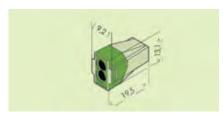
□□□ 12 mm / 0.47 in *®®®©CCA®©CBGLBVRMR

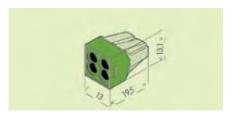


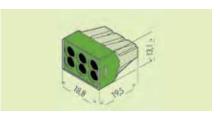




Item No.	Packunit pcs	ltem No.	Pack.–unit pcs	Item No.	Packunit pcs	
Push-wire connectors for ju	nction boxes,	Push-wire connectors for ju	inction boxes,	Push-wire connectors for junction boxes,		
2-conductor connectors, color	of housing transparent,	4-conductor connectors, color	of housing transparent,	6-conductor connectors, color	of housing transparent,	
color of cover green		color of cover green		color of cover green		
773-112	100 pc/box	773-114	100 pc/box	773-116	50 pc/box	







8 x 0.75 - 2.5 mm² "s" 8 x 1.5 - 2.5 mm² "r" 400 V/4 kV/2* 24 A

8 x AWG 18 - 12 "sol." 8 x AWG 16 - 12 "rig." 600 V, 20 A ® 600 V, 20 A @

— 12 mm / 0.47 in *®®®©CCA®©CBGLBVRMR 4 x 0.75 - 2.5 mm² "s" 4 x 1.5 - 2.5 mm² "r" 400 V/4 kV/2* 24 A

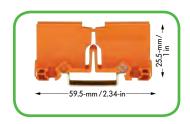
600 V, 20 A ® 600 V, 20 A ® □□ 12 mm / 0.47 in *•••

4 x AWG 18 - 12 "sol." **Carrier for Push-Wire Connectors** 4 x AWG 16 - 12 "rig."

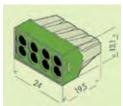
Carrier width 18 mm / 0.7 in



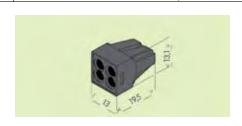




Item Packunit No. pcs		Item Packunit No. pcs		ltem No.		Packunit pcs	
Push-wire connectors for ju	unction boxes,	Push-wire connectors for h	igh temperature appli-	Fixing carrier for 4 pus	h-wire connect	ors	
8-conductor connectors, color	of housing transparent,	cations, 4-conductor connectors, color of housing black,		orange	773-332	50 pc/box	
color of cover green		color of cover black		light grey	773-331	50 pc/box	
773-118	50 pc/box	773-514	50 pc/box	Marker strip, plain	243-110	1 ea	









3 or 5 Conductor Compact Connectors, Series 222 (Lever-Nuts™)

28 – 12 AWG (stranded and solid) 600 V maximum ® 20 A maximum

Strip length: 9 - 10 mm / 0.37 in Maximum operating temperature: 105° C

28 – 12 AWG (stranded and solid) 600 V maximum ® 20 A maximum

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
- Small space consumption
- Built-in test point
- Protection against electrical shock, touch safe
- Low installed cost and safe operation
- Maintenance-free connection





	ltem No.	Packunit pcs	ltem No.	Packunit pcs	
	Push-wire connectors for junction	boxes,	Push-wire connectors for junction boxes,		
	3-conductor connectors with CAGE CL	AMP® spring pressure	3-conductor connectors, color of hou	sing transparent,	
	connection technology, grey (w/orang	e levers)	color of cover red		
	222-413	500 pc/bag	773-173	100 pc/box	
	222-413/VE00-0050	50 pc/box	773-173/VE00-0500	500 pc/bag	
	51015200	5 pc/blister pack	773-173/VE00-2500	2500 pc/bag	
			51017356	5 pc/blister pack	
Technical Information					
Number of connection points per connector:	3		5		
Potentials per connector:	1		1		
Height:	14.5 mm / 0.571	in	14.5 mm / 0.571	in	
Width:	17 mm / 0.669	in	26.6 mm / 1.047	' in	
Depth:	20.5 mm / 0.807	7 in	20.5 mm / 0.807 in		
Approvals:	c(ll) ss	c(h) ₀₀			

Easy as 1, 2, 3...



1) Strip wire



2) Push up lever



3) Insert conductor and push down lever



Lighting & "Service" Connectors, Series 224

Installation side 1.0 - 2.5 mm²-"s" Lighting side 0.5 - 2.5 mm²-"s+f-st"

AWG 14 - 12

AWG 20 - 16 300 V, 20 A-®®

400 V/4 kV/2**; 24 A 300 V □□ 9 - 11 mm / 0.39 in * ® & VDE © KEE CCA ® S © ® © ◆ ♥ GLBV Installation side

2-x-1.0 - 2.5 mm²-"s" Lighting side 0.5 - 2.5 mm²-"s+f-st" AWG 16 - 14

AWG 20 - 16 300 V, 4 A-® 26

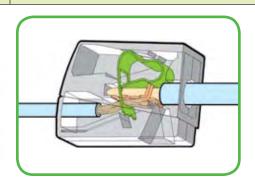
400 V/4 kV/2**; 24 A 30 9 - 11 mm / 0.39 in

* @ @ VDE @ K CCA N S O @ @ @ GL BV



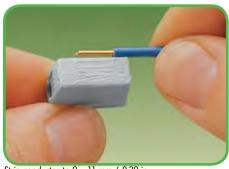






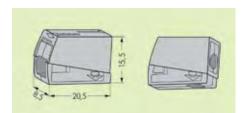
Colour	Item No.	Packunit pcs	Colour	Item No.	Packunit pcs	
Lighting co	nnectors,		2-conductor lighting connectors,			
standard ve	rsion,		standard vei	rsion,		
continuous s	service temperature 105	°C,	continuous s	ervice temperature 105	°C,	
grey	224-101	1000 (10 x 100)	white	224-112	1000 (10 x 100)	
version for i	increased		version for increased			
continuous s	service temperature 120	°C,	continuous service temperature 120°C,			
black	224-104	100	black	224-114	100	
"Service" o	onnector					
grey	224-201	50				

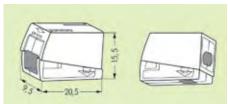
Stripped length



Strip conductor to 9 - 11 mm / 0.39 in

Dimensions (in mm)





Testing



Testing through separate test slot

\$1.51 42

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



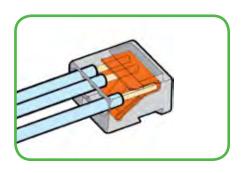
Connection of conductors (installation side): Introduce stripped solid conductor into circular entry and push to stop.

Testing



Testing through separate test slot

MICRO Push-Wire Connectors for Junction Boxes, Series 243



Push-wire connection



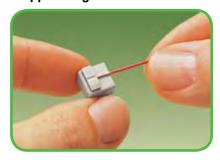
Connection: Insert stripped conductor FULLY.

Push-wire connection



Removal: Hold wire to be removed and twist alternately left and right while pulling the connector

Stripped length

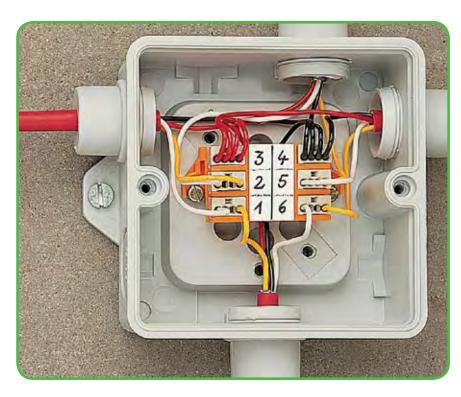


Strip solid wire to 5 - 6 mm / 0.22 in

Connector blocks



Assembly of modular connectors to connector strips



Testing



Test using integrated test ports

Commoning



Commoned connector blocks

Packing units



Box for use on site (example)
Contents series 243: 50 pcs 8-conductor or 100 pcs 4-conductor



MICRO Push-Wire Connectors for Junction Boxes, Fixing Carrier Series 243

6 A

4x0.6- 0.8 Ø mm "s"** 100 V/1.5 kV/2 6 A

4 x AWG 22 – 20 " sol." ** 125 V, 7 A 🔊

150 V, 7 A @

5 - 6 mm / 0.22 in * 91 © VDE KEE CCA S (0) & ...

8 x AWG 22 - 20 "sol." **

125 V, 7 A 🕦

150 V, 7 A @

8x0.6- 0.8 Ø mm "s"**

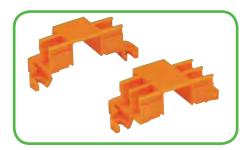
100 V/1.5 kV/2

Fixing carrier for MICRO push-wire connectors

5 - 6 mm / 0.22 in * 91 @ VDE KEER CCA N S @ @ A

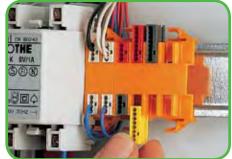






Color	Item No.	Packunit pcs	Color	Item No.	Packunit pcs	Description	Item No.	Packunit pcs
MICRO push-wire connectors for junction boxes,			MICRO push-wire connectors for junction boxes,			Fixing carrier		
4-conductor co	onnectors		8-conductor co	onnectors		for 4 push-wire connectors	243-112	50 (5 x 10)
						for 6 push-wire connectors	243-113	50 (5 x 10)
dark grey	243-204	1000 (10 x 100)	dark grey	243-208	500 (10 x 50)	Marker strip,		
red	243-804	1000 (10 x 100)	red	243-808	500 (10 x 50)	plain	243-110	1
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)		////	

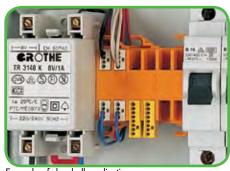
4x 0.4 - 0.5 Ø mm "s" 4 x AWG 26 - 24 "sol." 100 V/1.5 kV/2 6 A	
5 - 6 mm / 0.22 in * 91.6 CCA @	



Inserting a MICRO push-wire connector for junction boxes into the carrier

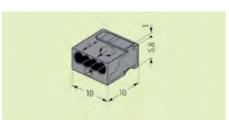


Color	Item No.	Packunit pcs
MICRO push-	-wire connector fo	r junction boxes,
4-conductor co	onnector	
transparent	243-144	1000 (10 x 100)



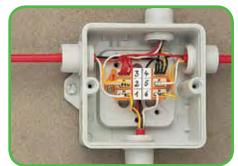
Example of doorbell application – mounted on DIN 35 rail

Dimensions (in mm)









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

Terminal Blocks for Chassis Mounting, Series 862

 $4 \times 0.5 - 4 \text{ mm}^2$ 500 V/6 kV/2 32 A

4 x AWG 20 -12 300 V, 20 A 600 V, 5 A @ **71**

 $4 \times 0.5 - 4 \text{ mm}^2$ 500 V/6 kV/2 32 A

4 x AWG 20 -12 300 V, 20 A 600 V, 5 A

∑ 10 - 11 mm / 0.41 in





∑ 10 - 11 mm / 0.41 in



Available in black and white

2 poles /8 connection points

3 poles /12 connection points

	in black and wr	iiie		oles / 8 connection po	פוו ווכ	<u></u>	oles / 12 connection p	JOHNS
without gro earth contac		with ground/ earth contact	ltem No. black	ltem No. white	Packunit pcs	Item No. black	Item No. white	Packunit pcs
for fastening screw 3	mm /0.118 in 9	Ø or						
for self tapping screw	2.9 mm / 0.11	14 in Ø from top						
without marking	1		862-0552	862-0652	500			
L1-N	(pre-marked)		862-1552	862-1652	500			
N-L1	(pre-marked)		862-2552	862-2652	500			
for self tapping screw	2.9 mm / 0.114	mm Ø from below						
without marking			862-0562	862-0662	500			
L1-N	(pre-marked)		862-1562	862-1662	500			
N-L1	(pre-marked)		862-2562	862-2662	500			
1 snap-in foot per p	ole							
without marking			862-0532	862-0632	500			
L1-N	(pre-marked)		862-1532	862-1632	500			
N-L1	(pre-marked)		862-2532	862-2632	500			
for fastening screw 3	mm / 0.008 in	Ø or						
for self tapping screw	2.9 mm / 0.11	14 in Ø from top						
without marking		•				862-0503	862-0603	250
PE-N-L1	(pre-marked)					862-1503	862-1603	250
N-PE-L1	(pre-marked)					862-2503	862-2603	250
	(pre-marked)	N-PE-L1				862-8503	862-8603	250
	(pre-marked)	PE-N-L1				862-9503	862-9603	250
1 snap-in foot per p	oole							
without marking						862-0533	862-0633	250
PE-N-L1	(pre-marked)					862-1533	862-1633	250
N-PE-L1	(pre-marked)					862-2533	862-2633	250
	(pre-marked)	N-PE-L1				862-8533	862-8633	250
	(pre-marked)	PE-N-L1				862-9533	862-9633	250
snap-in feet at pos. 1	1+3							
without marking						862-0593	862-0693	250
PE-N-L1	(pre-marked)					862-1593	862-1693	250
N-PE-L1	(pre-marked)					862-2593	862-2693	250
	(pre-marked)					862-8593	862-8693	250
	(pre-marked)	PE-N-L1				862-9593	862-9693	250
Accessories	,							
Comb-type jumper be	ar, can easily be	inserted into the	Test plug, with co	ıble 500 mm / 1'7.7"		Test plug, with co	able 500 mm / 1'7.7"	
17000	wire entry, 32 A	\		2 mm / 0.079 in 9	Ø, red	-	2.3 mm /0.091	in Ø, yellow
ŲŲŲ	862-482	5		210-136	1		210-137	50 (5 x 10)
2 11 11							5 1 1 C - 1	1.
Screwdriver, with parti	,		Marker strip, wh	ite, plain for central mo	0,	Marker strip, w	nite, plain for central m	•
	(3.5 x 0.5) mm	(.14 x .0025) in		7.5 mm wide, on	, ,			n roll, 300 m long
	210-620	1		709-178	1		709-188	1

Cost-effective features:

The new 862 Series chassis mount terminal block was developed specifically to minimize wiring costs, while accommodating requirements for easy mounting, multiple connection points, marking, and handling.

- The new 862 Series allows the connection of up to four conductors from wire size 20 to 12 AWG. Due to the multiple connection points per pole, different wire sizes can be used within the same terminal block position.
- The CAGE CLAMP®S termination technology allows solid conductors, stranded conductors with ferrules, or ultrasonically bonded conductors to be easily connected by simply pushing the conductor into the contact.
- An integrated push button, with molded-in slots, accommodates fast and easy wiring of all conductor types either by hand, or with a slotted tip/ phillips screwdriver.
- Convenient automatic grounding contact available as an option (see page 3 for illustration).
- Snap-in mounting feet for fast assembly (see back page for illustration).
- Flexible marking options with standard marking (pre-marked), marker strip, or custom marked per your specifications with large quantity orders.
- Built-in test points simplify testing with 2 mm / 0.079 in diameter test plug.



Terminal Blocks for Chassis Mounting, Series 862

4 x 0.5 - 4 mm² 500 V/6 kV/2 32 A 4 x AWG 20 -12 300 V, 20 A 600 V, 5 A 4 x 0.5 - 4 mm² 500 V/6 kV/2 32 A 4 x AWG 20 -12 300 V, 20 A 600 V, 5 A

91

@ **71**2

10 - 11 mm / 0.41 in



Available in black and white



4 poles /16 connection points



5 poles /20 connection points

without grour earth contact	nd/	with ground/ earth contact	ltem No. black	ltem No. white	Packunit pcs	ltem No. black	Item No. white	Packuni pcs
for fastening screw 3	mm Ø or			-			<u> </u>	
for self tapping screv		om 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 p	ole							
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	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 fro	om 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 po	s. 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

Ground (earth) contact



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

Conductor connection



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

Marking and testing

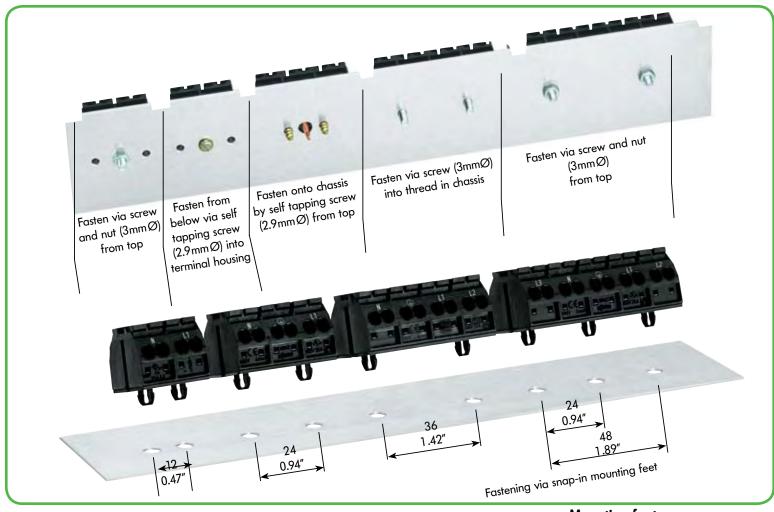


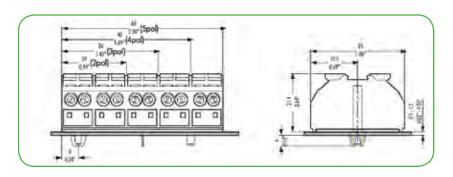
- Marking by direct printing and/or marker strips
- Testing with test plug 2 mm Ø



Terminal Blocks for Chassis Mounting, Series 862

Fastening Options

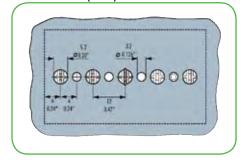




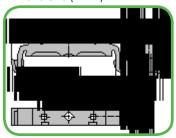
Mounting foot,



Dimensions (mm)



Dimensions (in mm)

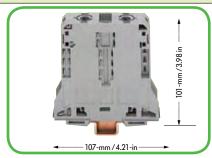




95 mm²/AWG 000 Rail-Mounted High Current Terminal Blocks Series 285

25 – 95 mm² AWG 4 – 000 1000 V/8 kV/3- 600 V, 200 A **%** 232 A 600 V, 210 A **®** Terminal block width 25 mm / 0.98 in

* **%** @ CCA GL &



\	— 107-mm / 4.21-	in ———	
Colour	Item No.		ckunit
2-conductor thro	ough terminal	blocks	
grey	285-195		5
blue	285-194		5
light grey (Ex)	285-995 🔘		5
2-conductor gro			cs
green-yellow _			5
green-yellow (Ex)	285-197/999	9-950	5
Accessories	Appropriate marking sys		MB
Adjacent jumper,	, insulated, I _N 23	32 A for 1 ju	mper
	I _N 192 A for	2 to 4 jump	er
	grey	285-495	25
Voltage tap, I _N 5	7 A. 0.2 - 10/1	5 mm ²	
3 117 N	Module wid		0.787 in
***	grey	285-407	5
Hex wrench with	partially insu	lated shaft	
	8 mm/0.32	in	
		285-172	1
Touch protection	cover, for unus	ed clamping	units and
400	jumper slots		
1	yellow	285-169	25
Protective warning	•		e symbol
	for 5 termin		
	yellow	285-170	50 (2-x-2
Ex Suitable for Ex 25 - 95 mm ² 750 V~, 195		ns AWG 4 –	000

Wire connection





Counter-clockwise rotation using a hex wrench. Latch holds clamp in open position.



Introduce stripped wire (stripped length 35 mm!) into the clamping unit up to the stop and hold it in position \dots



... A small counter-clockwise rotation releases the latch. Once the operating tool has been removed the conductor is safely clamped.

Commoning



Commoning with adjacent jumper. Insertion of jumper above the conductor entry hole, without tools. Rated cross section is still 95 $\,\mathrm{mm^2/AWG}$ 000.

Testing/Protective warning marker



- Testing with test plug 4 mm/0.157 in diameter.
- Protective warning marker may indicate:
 Attention! Voltage may be present despite main circuit being switched off!

Voltage tap

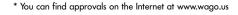


Reliable and simple tap directly onto the power supply. Insert the unwired tap before opening the pressure spring.

Touch protection



Jumper contact slots can also be sealed individually.



for ground (earth) conductor terminal blocks

AWG 2 - 00





DIN Rail Mount Outlet Boxes, CPO Series

Dimensions:

Width: 60.2 mm / 2.37 in Height: 61.1 mm / 2.41 in

Length with connector: 108.7 mm / 4.28 in

The WAGO CPO Series of DIN rail mount Convenient Power Outlets provides a convenient power source in the control cabinet, for laptops, solder irons, electrical screwdrivers, test equipment, lighting, etc. The CPO Series significantly reduces time, cost and frustration compared to the manual assembly of outlet boxes.

- Ground pin located on top to prevent loose metal objects from inadvertently shorting the hot and neutral pins.
- Power input terminal blocks with CAGE CLAMP® connection technology for fast, easy and maintenance-free wiring.
- Built-in test point for easy troubleshooting.

- Power input terminal block is pre-marked for safe wiring.
- Compact design takes up less space.
- Complete family of solutions to choose from.









Item Number	51015045	51012222	51018358	51012216
Packunit pcs	1	1	1	1
Description				
	Ground Fault Circuit Interrupt	Surge-Protected Outlet	Switched Box	European "Schuko" Outlet
	Outlet with load terminals to			
	protect equipment downstream			
Technical Data				
Rated Voltage	120 V	120 V	120 V	250 V
Rated Current	15 A	15 A	15 A	15 A
Rated AWG	28 - 12	28 - 12	28 - 12	28 - 12
Mounting	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail
Approvals	UL Pending	UL Pending	c UL) us	









Item Number	51017543	51012218	51018302	51012356	51018351	51012352	51018377	51012312			
Packunit pcs	1	1	1	1	1	1	1	1			
Description											
	Duplex Outlet	20 Amp	Isolated Ground	Isolated Ground	Ground Fault	Ground Fault	Switched	Outlet with			
	·	Duplex Outlet	Outlet -	Outlet -	Circuit Interrupt	Circuit Interrupt	Controlled	separate			
			single connection	double connection	Outlet	Outlet; right angle	Outlet	switch			
			per pole	per pole		connector to					
						reduce wiring space					
Technical Data											
Rated Voltage	120 V	120 V	125 V	125 V	120 V	120 V	120 V	120 V			
Rated Current	15 A	20 A	15 A	15 A	15 A	15 A	15 A	20 A			
Rated AWG	28 - 12	28 - 12	28 - 12	28 - 12	28 - 12	28 - 12	28 - 12	28 - 12			
Mounting	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail			
Approvals	։ UL us	¢ ÜL us	շՄլ)սո	UL Pending	շ(ՄL) us	UL Pending	c UL us	UL Pending			



Relay Socket with Small Switching Relay, Pluggable, Series 788

Relay socket with DC relay and status indication; 1 or 2 changeover contacts

0.34 – 2.5 mm² AWG 22 – 14 Dimensions (W x H x L) 15 x 53 x 86 mm Relay height 15 mm

9 – 10 mm / 0.37 in GUL us File E 175199

Relay socket with DC relay and status indication; 1 or 2 changeover contacts

0.34 – 2.5 mm² AWG 22 – 14 Dimensions (W x H x L) 15 x 63 x 86 mm Relay height 25 mm

9 - 10 mm / 0.37 in cUL us File E 175199





	Item No.	Pack pcs	cunit		pe	
	Single Pole/D	ouble	Throw		Single Pole Doub	le Throw
AT **				AT **		
+>11	788-303 DC	12 V	1	+>11	788-323 DC 12 V	/ 1
李子 一	788-304 DC	24 V	1	李平中了专	788-324 DC 24 \	/ 1
42-4-12	788-305 DC	48 V	1	42-4	788-528 AC 230	V 1
-)	788-306 DC	60 V	1	-)		
	788-307 DC	110 V	1			
	Single Pole D	ouble 1	Throw		Double Pole Dou	ble Throw
AT ++				Al-++		
-71 TL-1	788-506 AC	24 V	1	+24 1 46	788-333 DC 12 V	/ 1
李中一	788-507 AC		1	平44	788-334 DC 24 \	/ 1
A2 12	788-508 AC	230 V	1	A2-04	788-337 DC 110	V 1
-3				-> / 1	788-538 AC 230	V 1
14	Double Pole	Double	Throw		ropriate	
Al to				Series 788 mar	king system WMB/V	VSB
	788-311 DC	12 V	1	-	Comb type jump	er bar,
李本口 "	788-312 DC	24 V	1		2-way	
47-4	788-313 DC	48 V	1		788-113	
-> /***	788-314 DC	60 V	1	W W W W		
<u>□-,</u> 22	788-315 DC 1	110 V	1	0 1 11 11	859-402	
				17 17 (1)		
14	Double Pole I	Double	Throw		Status indication	,
Al-++ I II				The second	with free-wheeling	diode
-21 1 4	788-512 DC 2	24 V	1	-299	788-120 DC 24	-V
4.	788-515 DC 1	115 V	1	AC	788-121 DC 48-	-V
A7-44	788-516 DC 2	230 V	1	- COM (1)	788-122 DC 110-	·V
3 (TT	788-123 AC 24	-V
77				The state of the s	788-124 AC 115-	·V
					788-125 AC 230	-V
	Socket witho	ut relay	,		Socket without re	elay
	for switching re	elay			for switching relay	
	(15 mm high)				(25 mm high)	
	788-100		1		788-101	1
22	RT 15, SPDT			100	RT 25, SPDT	
	788-102		1	22	788-103	1
	RT 15, DPDT				RT 25, DPDT	



Jumpering made easy



Switch status indication



Pluggable relays



CAGE CLAMP®S



Non-degrading Silicon Surge Suppression Devices, WAGO PROTECT Series

Silicon Surge Suppression Devices

WAGO PROTECT - 120 Vac, 240 Vac, 24 Vdc

AWG 28 – 12

8 – 9 mm

Non-Degrading Silicon Surge Suppression

The WAGO-PROTECT series DIN rail mount surge suppressors are high speed, high current, solid state devices designed to protect sensitive electronic equipment (PLCs, PCs, etc.) from transient over voltages present on AC/DC power lines. Powered by patented Silicon Avalanche Suppressor Diode technology from Transtector, these suppressors provide the utmost in protection without degradation - unlike MOV based technology.

Features:

- Pluggable surge function module for easy maintenance and replacement
- Fast, vibration-proof, and maintenance-free wiring with CAGE CLAMP®
- LED fail mode indication as well as relay alarm output connection
- Built-in test points for easy troubleshooting and maintenance





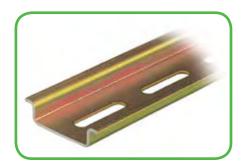
	ltem No.	Packunit pcs	ltem No.	Packunit pcs	ltem No.	Packunit pcs	
	WAGO Protect 120, Non-degrading silicon		WAGO Protect 240, Non-de	egrading silicon	WAGO Protect 24, Non-deg	grading silicon	
	surge suppression devices, 120	Vac pluggable	surge suppression devices, 240	0 Vac pluggable	surge suppression devices, 24	Vdc pluggable	
	module, with receptacle base		module, with receptacle base		module, with receptacle base		
	51018058	1 ea	51018059	1 ea	51017375	1 ea	
Nominal Voltage	120 Vac		240 Vac		24 Vdc		
Max. Continuous Voltage	140 V RMS		280 V RMS		36 V RMS		
Max. Nominal Current	20 A		20 A		20 A		
Leakage Current	None		None		None		
Voltage Protection Level (min./max. V Peak)	220/330 Vp		440/660 Vp)	60 Vp		
Power Dissipation							
(based on IEEE ANSI c62.41-1991)							
at 20/80µs	1.3kA		1.3kA		2kA		
(transient waveform lightning induced)							
at 10/100µs	400 A		400 A		600 A		
(transient waveform other source induced)							
Response Time (nano seconds)	<5ns		<5ns		<5ns		
Temperature Range	-40°C to +85°C		-40°C to +85°	C	-40°C to +85°	°C	
Ingress Protection Level (IEC)	IP 20 (touch safe	e)	IP 20 (touch sa	fe)	IP 20 (touch sa	fe)	
Insulating Housing	PA		PA		PA		
Wire Ternmination Type	CAGE CLAMP®	>	CAGE CLAMF	0®	CAGE CLAMI	O®	
Wire Strip Length	8 - 9 mm		8 - 9 mm		8 - 9 mm		
Wire Range	28 - 12 AWG		28 - 12 AWG	÷	28 - 12 AWC	}	
Wiring Configurations	L-L, L-N		L-L, L-N		L-L, L-N		
Dimensions (mm)	82.5 H x 73 L x 22	. W	82.5 H x 73 L x 2	22 W	82.5 H x 73 L x 3	31 W	
Approvals	UL 1449 2nd Edit	ion	UL 1449 2nd Ed	ition	Less then 50 V	dc	
	CSA C22-2		CSA C22-2		N/A		

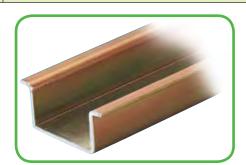


Carrier Rails, Series 210

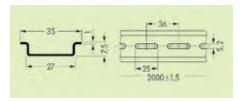
Carrier rail 35 x 7.5 mm, 1-mm/0.039 in thick, acc. to EN 50 022, Steel, zinc-plated and yellow chromated I_N 76 A (referred to a length of 1 m)

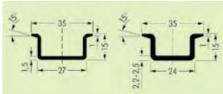
Carrier rail 35 x 15 mm, 1.5 mm/0.059 in and 2.3 mm/0.091 in thick, acc. to EN 50022, Steel, zinc-plated and yellow chromated I_N 125 A (referred to a length of 1 m) Carrier rail 35 x 15 mm, 2.3 mm/0.091 in thick, acc. to EN 50022, Copper, unplated I_N 309 A (referred to a length of 1 m)

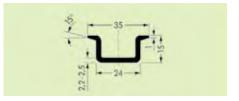










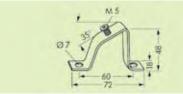


lt-	em No.	Packunit		Item No.	Packunit	Item No.	Packunit
		pcs			pcs		pcs
Steel rail 35 x 7.5 m	m, 1 mm/0.039 in t	h., unslotted	Steel rail 35 x 1	5 mm, 2 m/6'6" long		Copper carrier rail 35 x 15 mm,	
2 m/6'6" long 2	10-113	10	1.5 mm thick	210-114 unslotted	10	2.3 mm/0.091 in thick, unslotted	
Steel rail 35 x 7.5 m	m, 1 mm/0.039 in	th., slotted	1.5 mm thick	210-197 slotted	10	2 m/6'6" long 210-198	10
2 m/6'6" long 2	10-112	10	2.3 mm thick	210-118 unslotted	10		

Angled support bracket	
Steel, zinc-plated and yellow chromated	

End Stop







Item No.	Packunit pcs		Item No.	Packunit pcs
Angled support bracket, without scr	ew	6 mm wide		
210-148	10		249-116	100
Screw M 5 x 8		10 mm wide		
210-149	100 (5 x 20)		249-117	100
	` '			



Operating Tools, Series 210, Series 209

Screwdrivers
with partially insulated shaft
for optimum handling
of CAGE CLAMP* connection
in terminal blocks and connectors

Multipole operating tools for front-entry terminal blocks (insulated)

Screwdrivers (DIN 5264) for optimum handling of CAGE CLAMP* connection in terminal blocks and connectors







Item No.	Packunit pcs		Item No.	Packunit pcs	Item No.	Packunit pcs	
Screwdriver, with partially insulated	Operating to	ol, solid non-conducti	ng material	Screwdriver, short,			
blade 2.5 x 0.4 mm/0.098 x 0.016	suitable for se	eries 279		blade 3.5 x 0.5 mm/0.138 x 0.020	in		
suitable for series 218, 233, 234, 23	suitable for series 218, 233, 234, 235, 250, 253, 279,		209-129	1	suitable for series 231, 232, 236, 25	55, 256, 257,	
733, 734, 735, 770, 2001					264, 280, 281, 721, 722, 736, 737, 7	738, 742, 745,	
210-619	1	suitable for se	eries 279		804, 869, 2002, 2004		
		2-way	279-432	1	210-257	1	
Screwdriver, with partially insulated	shaft,	3-way	279-433	1			
blade 3.5 x 0.5 mm/0.137 x 0.020	in	10-way	279-440	1	Screwdriver, short angled,		
suitable for series 231, 232, 236, 25	55, 256, 257, 264,				blade 3.5 x 0.5 mm/0.138 x 0.020	in	
280, 281, 721, 722, 736, 737, 738, 7	280, 281, 721, 722, 736, 737, 738, 742, 745, 804, 869,			*	specially suitable for sensor and actuator terminal		
2002, 2004		1-way	209-130	Ĩ	blocks of series 280 or for		
210-620	1	2-way	280-432	1	series 231, 232, 236, 255, 256, 257	, 264, 280, 281,	
		3-way	280-433	1	721, 722, 736, 737, 738, 742, 745, 8	04, 869, 2002,	
Screwdriver, with partially insulated	shaft,	4-way	280-434	1	2004		
blade 5.5 x 0.8 mm/0.217 x 0.031	in	5-way	280-435	1	210-258	1	
suitable for series 282, 283, 284, 2	85, 745, 2006,	6-way	280-436	1			
2010, 2016		7-way	280-437	1			
210-621	1	8-way	280-438	1			
		9-way	280-439	1			
		10-way	280-440	1			
Screwdriver, with partially insulated	shaft,						
– set –,		suitable for se	eries 281				
consists of 210-619, 210-620 und 21	10-621	5-way	281-440	1			
210-622	1						
		* only 1- and	•				
		** only up to	3-way				

Application notes



Set of screwdrivers in a box



Commoning of front-entry through terminal blocks with comb type jumper bars with the aid of a 10-way operating tool



The blade dimensions of the a. m. screwdrivers (DIN 5264) are particulary appropriate for easy frontentry sensor and actuator terminal blocks of series 280



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

Voltage tester Profipol 12 V to 400 V AC 12 V to 500 V DC

Weight 138 g / 0.304 lbs

Testboy

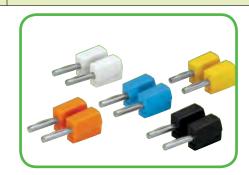
Banana plugs for sockets Ø 4 mm 0.08 – 2.5 mm² AWG 28 – 14

20 A

L 9 - 11 mm / 0.39 in







	Item No.	Packunit pcs	Item No.	Packunit pcs		Item No.	Packunit pcs
Voltage tester Profipol		Testboy, with integrated flashlight	Testboy, with integrated flashlight			mm	
•	206-802	1	206-804	1	color mixed	215-111	50
					orange, blue, ye	llow, white, black	
Voltage range	AC 12V to 400	0V	Voltage range 120V up to AC 100	0V			
	DC 12V to 50	0V			Banana plugs, fo	or sockets Ø 4 mr	n
					orange	215-211	50
LED indication AC	12V, 50V, 100°	V, 230V, 400V			red	215-212	50
DC	12V, 60V, 120°	V, 280V, 500V			black	215-311	50
Type of protection	IP 65				green	215-411	50
Operating time	30 s max.				yellow	215-511	50
Temperature range	-10° up to + 3	50°C			blue	215- <i>7</i> 11	50
-					grey	215-811	50
					green-yellow	215-911	50

Application notes



Voltage testing of push-wire 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

Wire cutter acc. to VDE for copper and aluminium wires up to 35 mm²/AWG 2

Weight 200 g / 0.441 lbs

Quickstrip 10 wire stripper 0.02 mm² - 10 mm² "f-st" (6 mm² "s") wire cutter up to 10 mm² "f-st" (1 .5 mm² "s")

Weight 136 g / 0.297 lbs

Quickstrip 16 wire stripper 4 mm² - 16 mm² wire cutter up to 10 mm² "f-st" (1 .5 mm² "s")

Weight 136 g / 0.297 lbs







	Item No.	Packunit pcs		Item No.	Packunit pcs		Item No.	Packunit pcs
Wire cutter			Stripping tool Qui	ckstrip 10		Stripping too	l Quickstrip 16	
	206-118	1		206-124	1		206-125	1
Accessories, S	eries 206							
			Standard blade co	ıssette		Standard blad	e cassette	
				0.02 mm² up t	o 10 mm²		4 mm ² up to	16 mm²
				206-126	1		206-128	1
			"V" blade cassette					
					o 4 mm² for PTFE			
				206-127	1			





Application notes



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

Crimping tools for ferrules insulated or uninsulated

Variocrimp 4 from 0.25 mm² – 4 mm² Weight 400 g / 0.882 lbs Variocrimp 16 from 6 mm² – 16 mm² Weight 580 g / 1.28 lbs

Insulated ferrules



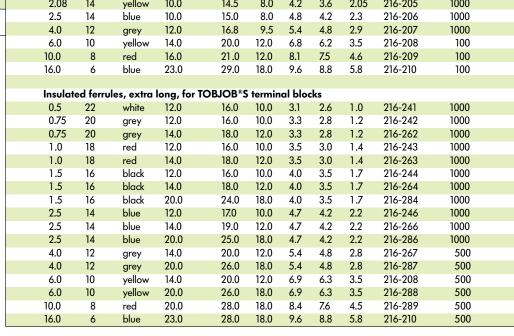


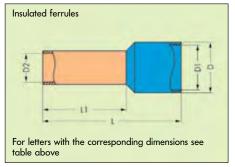
Item No.	Packunit pcs	Sleeve mm²	for AWG	Color	Stripped length mr	L n	L1	D mm	D1	D2	Item No.	Packunit pcs
Variocrimp 4 206-204	1	0.25	24	yellow	7.5	10.5	6.0	2.5	2.0	0.8	216-321	1000
0.25 mm ² - 4 mm ² / AWG 24 -	12	0.25	24	yellow	9.5	12.5	8.0	2.5	2.0	8.0	216-301	1000
		0.35	24	green	7.5	10.5	6.0	2.5	2.0	8.0	216-322	1000
		0.34	24	green	9.5	12.5	8.0	2.5	2.0	8.0	216-302	1000
Variocrimp 16 206-216	1	0.5	22	white	7.5	11.5	6.0	3.0	2.5	1.1	216-221	1000
6 mm ² - 16 mm ² / AWG 10 - 6		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
Application notes		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



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.









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