

CABLE CLAMPS



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Brass tap-off and connection cable clamp



Partly insulated clamp for Cu and Al cables

Material: brass (CuZn), electro-tinned

Insulation: PVC

Screw: steel, grade 8.8, hot-dip galvanized

Nut: steel, grade 8.8, hot-dip galvanized

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Main conductor cross-section (mm ²)		Tap-off conductor cross-section (mm ²)		Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	rm	re	rm	re	a	b	c		
4880	10 - 35	4 - 50	10 - 35	4 - 50	36	25	23	M 8	7,9

Brass tap-off cable clamps



Clamp for Cu and Al cables with 1 and *2 upper clamping caps

Material: brass (CuZn), electro-tinned

Screw: steel, grade 8.8, hot-dip galvanized

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Main conductor cross-section (mm ²)		Tap-off conductor cross-section (mm ²)				Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	sm	se	sm	se	rm	re	a	b	c		
4712	50 - 120	70 - 150	16 - 70	25 - 95	16 - 70	16 - 70	36	20	24	M 8	10,3
4714	70 - 185	95 - 240	35 - 120	35 - 150	35 - 120	50 - 150	45	23	31	M 8	17,2
4744*	70 - 185	95 - 240	35 - 120	35 - 150	35 - 120	50 - 150	44	48	31	M 8	35,5

rm = round stranded, sm = sector stranded, re = round solid, se = sector solid.

Brass terminal clamps



Clamp for Cu and Al cables

Material: brass (CuZn), uncoated or electro-tinned
Insulation: PVC
Screw: steel, grade 8.8, hot-dip galvanized
Nut: steel, grade 8.8, hot-dip galvanized
Belleville washer: spring steel, electro galvanized, ball-cladded

Part no. uncoated	tinned	Main conductor cross-section (mm ²) rm/re	Tap-off conductor cross-section (mm ²) rm/re	Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
				a	b	c		
without bolt thread								
4790 a	4790 aZ	16 - 95	16 - 95	40	18	28	M 8	12.3
with bolt thread								
4790 as	4790 asZ	16 - 95	16 - 95	40	18	28	M 8	12.4



Clamp for Cu and Al cables with tang terminal plate

Material: brass (CuZn), uncoated or electro-tinned
Insulation: PVC
Screw: steel, grade 8.8, hot-dip galvanized
Nut: steel, grade 8.8, hot-dip galvanized
Belleville washer: spring steel, electro galvanized, ball-cladded

Part no. uncoated	tinned	Main conductor cross-section (mm ²) rm/re	Tap-off conductor cross-section (mm ²) rm/re	Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
				a	b	c		
with flat hole Ø 13 mm								
4790	4790 Z	16 - 95	16 - 95	67	18	28	M 8	13.8
with flat hole Ø 10.5 mm								
4790.1	4790.1 Z	16 - 95	16 - 95	67	18	28	M 8	14.1

For neutral conductor connection/Ceander cable in house joint boxes.

rm = round stranded, re = round solid.

Bolted copper cable lugs



Heavy type

Material: E-Cu, *bronze G Bz 10

Screws: high-strength bronze F 60

Part no.	Conductor cross-section (mm ²)	Conductor diameter (mm)	Flat hole (mm)	Flat width (mm)	Screw	Weight (approx. kg) 100 pcs
with 1 upper clamping cap						
2135 a	16 – 35	5,1 – 7,5	10,5	32	M 7	13,8
2135 b	16 – 35	5,1 – 7,5	13,5	32	M 7	13,5
2150 a	35 – 70	7,5 – 10,5	10,5	32	M 8	20,0
2150 b	35 – 70	7,5 – 10,5	13,5	32	M 8	19,7
with 2 upper clamping caps						
2170 a	35 – 70	7,5 – 10,5	10,5	35	M 7	26,0
2170 b	35 – 70	7,5 – 10,5	13,5	35	M 7	25,0
2195 a	95 – 150	12,5 – 15,7	13,5	40	M 8	53,0
2195 b	95 – 150	12,5 – 15,7	17,0	40	M 8	52,0

Bolted aluminium cable lugs



Material: high-strength Al alloy (AlMgSi), corrosion-resistant

Screws: steel, grade 8.8, hot-dip galvanized

Part no.	Conductor cross-section (mm ²)		Conductor diameter (mm)	Flat hole (mm)	Flat width (mm)	Screw	Weight (approx. kg) 100 pcs
	Al	Al/St					
with 2 upper clamping caps							
2335	16 – 35	16/2.5 – 25/4	5,1 – 7,5	13,5 – 19,0	36	M 8	13,5
2370	35 – 70	35/6 – 70/12	7,5 – 11,7	13,5 – 21,0	36	M 8	15,5
2390	70 – 120	70/12 – 95/15	11,7 – 14,0	13,5 – 21,0	40	M 8	18,0
2395	95 – 150	95/12 – 120/20	12,5 – 15,7	17,0 – 23,0	43	M 8	21,5

Bolted bimetal cable lugs



Heavy type, tang flat hole cannot be enlarged

Material: high-strength Al alloy (AlMgSi), corrosion-resistant

Screws: steel, grade 8.8, hot-dip galvanized

Spring washers: steel, grade 8.8, hot-dip galvanized

Part no.	Conductor cross-section (mm ²)		Conductor diameter (mm)	Flat hole (mm)	Flat width (mm)	Screw	Weight (approx. kg) 100 pcs
	Al	Al/St					
with 2 upper clamping cap							
2235 a	16 – 35	16/2.5 – 25/4	5.1 – 7.5	13	36	M 8	15.0
2235 b	16 – 35	16/2.5 – 25/4	5.1 – 7.5	17	36	M 8	15.0
2270 a	35 – 70	35/6 – 70/12	7.5 – 11.7	13	36	M 8	17.0
2270 b	35 – 70	35/6 – 70/12	7.5 – 11.7	17	36	M 8	17.0
2290 a	70 – 120	70/12 – 95/15	10.5 – 14.0	13	40	M 8	20.0
2290 b	70 – 120	70/12 – 95/15	10.5 – 14.0	17	40	M 8	20.0
2295 a	95 – 150	95/12 – 120/20	12.5 – 15.7	13	43	M 8	24.0
2295 b	95 – 150	95/12 – 120/20	12.5 – 15.7	17	43	M 8	24.0

Bolted brass cable lugs



Material: brass (CuZn), electro-tinned

Screws: high-strength bronze F 60

Part no.	Conductor cross-section (mm ²)	Conductor diameter (mm)	Flat hole (mm)	Screw	Weight (approx. kg) 100 pcs
with 1 upper clamping cap					
2034	6 – 10	4.05	6.5	M 4	1.4
2035	16	5.1	6.5	M 4	1.8
2036	25	6.3	8.5	M 4	2.5
2037	35	7.5	8.5	M 5	4.5
2038	50	9.0	10.5	M 5	6.6
2039	70	10.5	10.5	M 6	9.8
2040	95	12.5	10.5	M 6	12.0
2041	120	14.0	13.5	M 6	15.5
2042	150	15.7	13.5	M 7	19.3
2043	185	17.5	17.0	M 8	25.0
with 2 upper clamping caps					
2044	240	20.2	17.0	M 8	46.0
2045	300	22.5	17.0	M 8	50.0

Aluminium flat direct terminal clamps



Single-conductor connection for Cu and Al conductors, upper and lower parts electro-tinned

Material: high-strength Al alloy (AlMgSi), corrosion-resistant

Screw: steel, grade 8.8, hot-dip galvanized

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
with hex screw									
4809	35 - 50	50 - 70	10 - 35	16 - 50	25	19	21	M 8 x 40	3,7
4809.1	35 - 50	50 - 70	10 - 35	16 - 50	28	21	24	M 10 x 45	5,9
5812.1	25 - 150	35 - 185	25 - 70	35 - 50	38	27	30	M 10 x 45	8,0
5812	25 - 150	35 - 185	25 - 70	35 - 50	38	27	30	M 12 x 55	9,8
4812.1	35 - 150	50 - 185	35 - 70	50	35	26	29	M 10 x 55	8,3
4812	35 - 150	50 - 185	35 - 70	50	35	26	29	M 12 x 55	10,1
4819	120 - 240	150 - 300			45	32	40	M 12 x 65	17,1



Single-conductor connection for Cu and Al conductors, upper and lower parts electro-tinned

Material: high-strength Al alloy (AlMgSi), corrosion-resistant

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
without hex screw									
4810	35 - 50	50 - 70	10 - 35	16 - 50	25	19	21	for M 8	1,8
4810.1	35 - 50	50 - 70	10 - 35	16 - 50	28	21	24	for M 10	2,6
5814.1	25 - 150	35 - 185	25 - 70	35 - 50	38	27	30	for M 10	4,1
5814	25 - 150	35 - 185	25 - 70	35 - 50	38	27	30	for M 12	4,3
4814.1	35 - 150	50 - 185	35 - 70	50	35	26	29	for M 10	4,2
4814	35 - 150	50 - 185	35 - 70	50	35	26	29	for M 12	4,5
4818	120 - 240	150 - 300			45	32	40	for M 12	10,7

rm = round stranded, sm = sector stranded, re = round solid, se = sector solid.

Brass flat direct terminal clamps



Single-conductor connection for Cu and Al conductors, upper and lower parts electro-tinned.

Material: brass (CuZn)

Screw: steel, grade 8.8, hot-dip galvanized

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
with hex screw									
4808	35 - 50	50 - 70	10 - 35	16 - 50	25	18	21	M 8 x 40	6.5
4806	35 - 50	50 - 70	10 - 35	16 - 50	28	21	24	M 10 x 45	10.5
4823.1	35 - 50	50 - 70	10 - 35	16 - 50	29	23	19	M 10 x 45	11.0
4823	35 - 50	50 - 70	10 - 35	16 - 50	29	23	19	M 12 x 45	12.6
4815.1	35 - 150	50 - 185	35 - 70	50	35	26	29	M 10 x 55	16.1
4815	35 - 150	50 - 185	35 - 70	50	35	26	29	M 12 x 55	17.7
4819.2	120 - 240	150 - 300			45	32	40	M 12 x 65	38.5



Single-conductor connection for Cu and Al conductors, upper and lower parts electro-tinned.

Material: brass (CuZn)

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
without hex screw									
4808.1	35 - 50	50 - 70	10 - 35	16 - 50	25	18	21	for M 8	4.6
4807	35 - 50	50 - 70	10 - 35	16 - 50	28	21	24	for M 10	7.2
4820	35 - 50	50 - 70	10 - 35	16 - 50	29	23	19	for M 10	7.4
4820.1	35 - 50	50 - 70	10 - 35	16 - 50	29	23	19	for M 12	7.6
4816.1	35 - 150	50 - 185	35 - 70	50	35	26	29	for M 10	12.2
4816	35 - 150	50 - 185	35 - 70	50	35	26	29	for M 12	12.5
4818.2	120 - 240	150 - 300			45	32	40	for M 12	32.1

rm = round stranded, sm = sector stranded, re = round solid, se = sector solid

Aluminium flat direct terminal clamps



Two-conductor connection for Cu and Al conductors, upper and lower parts electro-tinned.

Material: high-strength Al alloy (AlMgSi), corrosion-resistant

Screw: steel, grade 8.8, hot-dip galvanized

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
with hex screw									
4829	10 - 35	35 - 70	10 - 35	16 - 50	36	21	21	M 8 x 40	5.3
4829.1	10 - 35	35 - 70	10 - 35	16 - 50	36	21	21	M 10 x 45	6.9
4829.2	10 - 35	35 - 70	10 - 35	16 - 50	36	21	21	M 10 x 45	8.5
4843.1	35 - 150	50 - 185	35 - 70	35 - 50	44	26	26	M 10 x 55	9.7
4843	35 - 150	50 - 185	35 - 70	35 - 50	44	26	26	M 12 x 55	11.3



Two-conductor connection for Cu and Al conductors, upper and lower parts electro-tinned.

Material: high-strength Al alloy (AlMgSi), corrosion-resistant

Screw: steel, grade 8.8, hot-dip galvanized

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
without hex screw									
4830	10 - 35	35 - 70	10 - 35	16 - 50	36	21	21	for M 8	3.5
4830.1	10 - 35	35 - 70	10 - 35	16 - 50	36	21	21	for M 10	3.2
4830.2	10 - 35	35 - 70	10 - 35	16 - 50	36	21	21	for M 10	3.6
4844.1	35 - 150	50 - 185	35 - 70	35 - 50	44	26	26	for M 10	5.8
4844	35 - 150	50 - 185	35 - 70	35 - 50	44	26	26	for M 12	5.7

rm = round stranded, sm = sector stranded, re = round solid, se = sector solid

Brass flat direct terminal clamps



Two-conductor connection for Cu and Al conductors, upper and lower parts electro-tinned.

Material: high-strength Al alloy (AlMgSi), corrosion-resistant

Screw: steel, grade 8.8, hot-dip galvanized

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
with hex screw									
4831	35	50 -70	10 - 35	16 - 50	36	21	21	M 8 x 40	10.9
4831.1	35	50 -70	10 - 35	16 - 50	36	21	21	M 10 x 45	12.4
4831.2	35	50 -70	10 - 35	16 - 50	36	21	21	M 12 x 45	14.3



Two-conductor connection for Cu and Al conductors, lower part only electro-tinned.

Material: high-strength Al alloy (AlMgSi), corrosion-resistant

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
without hex screw									
4832	35	50 - 70	10 - 35	16 - 50	36	21	21	for M 8	9.1
4821	35	50 - 70	10 - 35	16 - 50	36	21	21	for M 10	9.1
4821.1	35	50 - 70	10 - 35	16 - 50	36	21	21	for M 12	9.3

rm = round stranded, sm = sector stranded, re = round solid, se = sector solid.

Brass flat direct terminal clamps



Two-conductor connection for round Cu and Al conductors.

Material: brass (CuZn), electro-tinned

Screw: steel, grade 8.8, hot-dip galvanized

Stud bolt: steel, grade 8.8, hot-dip galvanized

Belleville washer: spring steel, electro galvanized, ball-cladded

Recommended torque: 45 Nm

Part no.	Conductor cross-section (mm ²)		Conductor diameter (mm)	Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
	rm	re		a	b	c		
4858	2 x 95 - 300	2 x 95 - 300	12,5 - 22,5	69	41	52	M 16 x 100	84,4

Copper flat direct terminal clamps



Two-conductor connection for Cu conductors with belleville washers and hex screw.

Material: E-Cu, uncoated

Screw: high-strength bronze

Belleville washer: spring steel, electro galvanized, ball-cladded

Artikel-Nr.	Conductor cross-section (mm ²) rm	Dimensions (mm)			Screw	Weight (approx. kg) 100 pcs
		a	b	c		
4855 CU	95 - 150	58	30	28	M 12 x 55	37,3
4855.1 CU	95 - 150	58	30	28	M 10 x 55	35,0

rm = round stranded, re = round solid.

Steel-type flat direct terminal clamps



Single-conductor connection for Cu and Al conductors for assembly on flat terminals with a max. width of 25 mm.

Frame: : steel, hot-dip galvanized

Material: brass (CuZn), electro-tinned

Pressure pad: brass (CuZn), electro-tinned

Bottom part: brass (CuZn), electro-tinned

Grub screw: brass (CuZn), electro-tinned

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Wrench size (mm)	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
without terminal plate									
4865	50 - 150	70 - 185	35 - 70	35 - 70	34	23	56	6	20.6



Single-conductor connection for Cu and Al conductors for assembly on flat terminals with a max. width of 25 mm.

Frame: : steel, hot-dip galvanized

Material: brass (CuZn), electro-tinned

Pressure pad: brass (CuZn), electro-tinned

Bottom part: brass (CuZn), electro-tinned

Grub screw: brass (CuZn), electro-tinned

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Wrench size (mm)	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
with terminal plate									
4865 FON	50 - 150	70 - 185	35 - 70	35 - 70	34	23	56	6	25.1

rm = round stranded, sm = sector stranded, re = round solid, se = sector solid.

Aluminium bow-type direct terminal clamps



Single-conductor connection for Cu and Al conductors with connecting thread in lower part for assembly on flat terminals.

Frame: high-strength Al alloy (AlMgSi), uncoated, corrosion-resistant

Bottom part: brass (CuZn), electro-tinned

Grub screw: brass (CuZn), electro-tinned

For flat terminal connections using 1 thread in the contact area.

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Wrench size (mm)	Terminal thread	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c			
4872.1	35 - 120	50 - 150	10 - 95	16 - 120	29	22	35	6	M 8	6.1



Single-conductor connection for Cu and Al conductors with connecting thread in lower part for assembly on flat terminals.

Frame: high-strength Al alloy (AlMgSi), uncoated, corrosion-resistant

Bottom part: brass (CuZn), electro-tinned

Pressure pad: brass (CuZn), electro-tinned

Grub screw: brass (CuZn), electro-tinned

For flat terminal connections using 1 thread in the contact area.

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Wrench size (mm)	Terminal thread	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c			
4870.1-D	10 - 95	35 - 120	-	-	19	28	50	6	M 8	8.1
4871.1-D	95 - 240	-	-	-	31	38	70	6	M 10	23.0
4872.1-D	35 - 70	50 - 95	10 - 50	16 - 70	29	22	35	6	M 8	6.9



Single-conductor connection for Cu and Al. Sector-type conductors with 90° and 120° possible.

Material: high-strength Al alloy (AlMgSi), uncoated, corrosion-resistant

Pressure pad: brass (CuZn), electro-tinned

Grub screw: brass (CuZn), electro-tinned

Belleville washer: spring steel, electro galvanized, ball-cladded

For flat terminal connections using 2 threads in the contact surface area

Part no.	Conductor cross-section (mm ²)				Wrench size (mm)	Terminal threads	Weight (approx. kg) 100 pcs
	sm	se	rm	re			
48035-240	70 - 240	95 - 300	50 - 185	70 - 240	6	M 8	6.5
48036.1	35 - 70	50 - 95	10 - 50	16 - 70	6	M 6	10.5

rm = round stranded, sm = sector stranded, re = round solid, se = sector solid.

Aluminium V-type direct terminal clamps



Single-conductor connection for Cu and Al. Sector-type conductors with 90° and 120° possible.

Material: high-strength Al alloy (AlMgSi), uncoated, corrosion-resistant

Pressure pad: brass (CuZn), electro-tinned

Adapter: brass (CuZn), electro-tinned

Grub screw: brass (CuZn), electro-tinned

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Wrench size (mm)	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
4836 N	35 - 70	50 - 95	10 - 50	16 - 50	28	19	37	5	4,1
4835 N	50 - 185	50 - 240	35 - 70	35 - 50	34	23	49	6	8,2
4835 N240	70 - 240	95 - 300	50 - 185	70 - 240	34	23	49	6	8,5
4837	120 - 240	150 - 300	120 - 400		41	22	72	6	16,5
4838*	70 - 240	95 - 300	50 - 400		41	22	72	6	16,7

* With flat pressure pad.

rm = round stranded, **sm** = sector stranded, **re** = round solid, **se** = sector solid.

Aluminium V-type direct terminal sets



Completely premounted including clamp and terminal plate.

Material: see V-type clamps/terminal plates/insulating caps

Part no.	Conductor cross-section (mm ²)				Flat hole (mm)	Wrench size (mm)	Weight (approx. kg) 100 pcs
	sm	se	rm	re			
4836 NML	35 - 70	50 - 95	10 - 50	10 - 50	10.5	5	7.3
4835 NML	50 - 185	50 - 240	35 - 70	35 - 50	13.0	6	14.7
4835 N240ML	70 - 240	95 - 300	50 - 185	70 - 240	13.0	6	14.7
4837 ML	120 - 240	150 - 300	120 - 400		13.0	6	32.5
4837 ML 1	120 - 240	150 - 300	120 - 400		17.0	6	32.3
4837 ML 2	120 - 240	150 - 300	120 - 400		22.0	6	32.0
4838 ML	70 - 240	95 - 300	50 - 400		13.0	6	32.7
4838 ML 1	70 - 240	95 - 300	50 - 400		17.0	6	32.5
4838 ML 2	70 - 240	95 - 300	50 - 400		22.0	6	32.2

Aluminium V-type direct terminal sets with insulating cap



Completely premounted including clamp, terminal plate and insulating cap.

Material: see V-type clamps/terminal plates/insulating caps

Part no.	Conductor cross-section (mm ²)				Flat hole (mm)	Wrench size (mm)	Weight (approx. kg) 100 pcs
	sm	se	rm	re			
4836 NE	35 - 70	50 - 95	10 - 50	10 - 50	10.5	5	8.4
4835 NE	50 - 185	50 - 240	35 - 70	35 - 50	13.0	6	15.8
4835 N240E	70 - 240	95 - 300	50 - 185	70 - 240	13.0	6	15.8

rm = round stranded, sm = sector stranded, re = round solid, se = sector solid.

Aluminium V-type direct terminal clamps with revolving pressure pad



Single-conductor connection for Cu and Al. Sector-type conductors with 90° and 120° possible. The pressure pad is free to rotate and clipped onto the grub screw to cover a large clamping range.

Material: high-strength Al alloy (AlMgSi), uncoated, corrosion-resistant

Pressure pad: brass (CuZn), electro-tinned

Grub screw: brass (CuZn), electro-tinned

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Wrench size (mm)	Torque Nm	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c			
5846	35 - 95	50 - 95	25 - 50	25 - 50	28	19	37	5	15	4,2
rotated pressure pad	16 - 25	16 - 35	10 - 16	10 - 16	28	19	37	5	12	4,2
5845	50 - 240	95 - 300	50 - 185	70 - 150	34	23	49	6	23	8,3
rotated pressure pad	35 - 50	35 - 70	16 - 35	16 - 70	34	23	49	6	20	8,3

Aluminium V-type direct terminal clamps with shear head screw



With shear head screw (limited torque)

Single-conductor connection for Cu and Al. Sector-type conductors with 90° and 120° possible.

Material: high-strength Al alloy (AlMgSi), uncoated, corrosion-resistant

Pressure pad: brass (CuZn), electro-tinned

Adapter: brass (CuZn), electro-tinned

Grub screw: brass (CuZn), electro-tinned

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Wrench size (mm)	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
4835 NAK	50 - 185	50 - 240	35 - 70	35 - 50	34	23	49	6/5	8,8
4835 N240AK	70 - 240	95 - 300	50 - 185	70 - 240	34	23	49	6/5	8,8

rm = round stranded, sm = sector stranded, re = round solid, se = sector solid.

Aluminium V-type direct terminal clamps for two conductors



Two-conductor connection for Cu and Al. Sector-type conductors with 90° and 120° possible.

Material: high-strength Al alloy (AlMgSi), uncoated, corrosion-resistant

Pressure pad: brass (CuZn), electro-tinned

Adapter: brass (CuZn), electro-tinned

Grub screw: brass (CuZn), electro-tinned

Belleville washer: spring steel, electro galvanized, ball-cladded

Part no.	Conductor cross-section (mm ²)				Dimensions (mm)			Wrench size (mm)	Weight (approx. kg) 100 pcs
	sm	se	rm	re	a	b	c		
5836	35 - 70	50 - 95	25 - 70	35 - 95	28	18	52	5	7,8
5835	50 - 185	70 - 240	50 - 185	70 - 240	34	22	75	6	16,7
5837	95 - 240	120 - 300	50 - 185	70 - 240	34	22	75	6	16,7

Steel V-type direct terminal clamps with revolving pressure pad



The pressure pad is free to rotate and clipped onto the grub screw to cover a large clamping range.

Frame: steel, hot-dip galvanized

Pressure pad: brass (CuZn), electro-tinned

Grub screw: brass (CuZn), electro-tinned

PVC protective caps



For V-type terminal clamps and frame terminal clamps.

Material: self-extinguishing polypropylene, halogen-free

Part no.	Use with part no.	Weight (approx. kg) 100 pcs
4836 SK	4836, 4836 N	1.0
4834/35 SK	4835, 4835 N, 4835 N240, 5845, 5865	2.0
4865 SK	4865, 4865 FON	2.6

T-wrench



Fully insulated hex T-wrench for assembling V-type direct terminal clamps and bolted connectors.

Material: glass-fiber, reinforced plastic, tool steel

Part no.	Wrench size	Weight (approx. kg) 100 pcs
4890	SW 5	1.0
4891	SW 6	2.0

Copper V-type terminal plates



V-type terminal plates for conductor connection Cu and Al assembled on flat terminals. Sector-type conductors with 90° and 120° possible.

Material: E-Cu, electro-tinned

Part no.	For part no.	Flat hole dia. (mm)	Weight (approx. kg) 100 pcs
4836 L 1	4836, 4836 N, 5836, 5846	8,5	3,4
4836 L	4836, 4836 N, 5836, 5846	10,5	3,3
4836 L 2	4836, 4836 N, 5836, 5846	13,0	3,2
4835 L 1	4834, 4835, 4835 N, 4835 N240, 4835 S, 4835 AK, 4835 NAK, 4835 N240AK, 5835, 5835 240, 5865, 4837, 5845, 5837	10,5	5,8
4835 L	4834, 4835, 4835 N, 4835 N240, 4835 S, 4835 AK, 4835 NAK, 4835 N240AK, 5835, 5835 240, 5865, 4837, 5845, 5837	13,0	5,6
4835 L 2	4834, 4835, 4835 N, 4835 N240, 4835 S, 4835 AK, 4835 NAK, 4835 N240AK, 5835, 5835 240, 5865, 4837, 5845, 5837	17,0	5,4
4837 L	4837, 4838	13,0	16,0
4837 L 1	4837, 4838	17,0	15,8
4837 L 2	4837, 4838	22,0	15,5

Copper V-type terminal plates angled 30°



V-type terminal plates 30° offset for conductor connection Cu and Al assembled on flat terminals. Sector-type conductors with 90° and 120° possible.

Material: E-Cu, electro-tinned

Part no.	For part no.	Flat hole dia. (mm)	Weight (approx. kg) 100 pcs
4836 L.1-W30	4836, 4836N, 5836, 5846	8,5	3,4
4835 L.1-W30	4834, 4835, 4835 N, 4835 N240, 4835 S, 4835 AK, 4835 NAK, 4835 N240AK, 5835, 5835 240	10,5	5,8
4835 L-W30	4834, 4835, 4835 N, 4835 N240, 4835 S, 4835 AK, 4835 NAK, 4835 N240AK, 5835, 5835 240	13,0	5,6
4835 L.2-W30	4834, 4835, 4835 N, 4835 N240, 4835 S, 4835 AK, 4835 NAK, 4835 N240AK, 5835, 5835 240	17,0	5,4

Copper transformer terminal clamps



For connecting of flat conductors to transformers using studs.

Material: E-Cu, uncoated

Screws: stainless steel A 2

For using at terminal studbolts M20 or M30.

Part no.	Terminal thread	Flat holes (mm)	Dimensions (mm)	Screw	Weight (approx. kg) 100 pcs
4856	M 20	13,0	Ø 65 x 100	M 10 x 30	115,0
4857	M 30	13,0	Ø 65 x 100	M 10 x 30	108,0

Transformer terminal clamps for two conductors



Two-conductor connection for Cu and Al conductors with terminal plate.

Frame: high-strength Al alloy (AlMgSi), electro-tinned

Pressure pad: brass (CuZn), electro-tinned

Terminal plate: brass (CuZn), electro-tinned

Grub screws: brass (CuZn), electro-tinned

Part no.	Conductor cross-section (mm ²)		Flat hole (mm)	Tang width (mm)	Wrench size (mm)	Weight (approx. kg) 100 pcs
	sm	rm				
4860	120 - 185	120 - 300	13	45	6	75,3
4860.1	120 - 185	120 - 300	17	45	6	75,0
4860.2	120 - 185	120 - 300	21	45	6	74,5

Also without different flat holes in terminal plate available.

rm = round stranded, sm = sector stranded.

Copper contact cutting ring



Contact cutting ring with cutting edges on both sides for cutting the insulation to get contact between insulated flat terminal busbars.

Material: high-strength copper alloy (CuNiSi2), uncoated

Part no.	Outer Ø (mm)	Inner Ø (mm)	Height (mm)	Weight (approx. kg) 100 pcs
4999	30,0	13,0	7,0	1,8